

Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Ќong

Date 14 December 2020 Our Ref. MCL/ED/0667/2020/C

**BY HAND & E-MAIL** 

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

Dear Ms. Lau,

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

### Environmental Permit: EP-463/2013B Submission of Monthly EM&A Report November 2020 (0064/18/ED/0536A)

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/0536A) 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

vz

David Hung Environmental Team Leader

c.c. CEDD Attn: Mr. Kevin Yip / Ms. Cannifer Fung (by E-mail) AECOM Attn: Mr. Albert Yu / Mr. Jacky Tse / Mr. Andrew Cheng / Mr. Matthew Ma (by E-mail) IEC Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail) CCZJV Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Aaron Au (by E-mail)

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Report No.: 0064/18/ED/0536A

## **MONTHLY EM&A REPORT**

November 2020

		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/0536A

Prepared by 2

**Rex Chow** 

**Reviewed by** :

**Certified by** 

Cyrus Lai

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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: PL-202012015

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

Attention: Miss FUNG Cannifer

12 December 2020

Dear Miss Fung,

## NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for November 2020

I refer to the email of the ET dated 10 December 2020 regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0536A, 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. YAN Joseph (by email only: jkcyan@cedd.gov.hk)



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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 November 2020 and 30 November 2020. As informed by the Contractor, major activities in the reporting month were summarized as below table:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Mini pile works</li> <li>Pre-drilling works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Pre-drilling works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pre bored H-pile works</li> <li>Soldier pile works</li> <li>Pier construction works</li> <li>Bored pile works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> <li>Construction of Lagging wall and retaining wall</li> <li>Construction of temporary road for bus terminal</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Demolition works for Footbridge NF40 existing staircases</li> <li>Foundation works for Footbridge NF66</li> <li>Mini Pile works</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pre-drilling works</li> <li>Construction of Noise Barrier Foundation / Pile Cap Works</li> <li>Soil replacement works on slopes</li> <li>Mini Pile works</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.
- v. Regular night time noise monitoring was carried out on 5, 12, 19 and 26 November 2020 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.



### Complaint, Notification of Summons and Successful Prosecution

vi. 5 complaint cases were received on 10<sup>th</sup>, 20<sup>th</sup>, 24<sup>th</sup> and 30<sup>th</sup> November from the 1823 and EPD regarding to the noise nuisance, air nuisance and water nuisance. The complaint cases of 24<sup>th</sup> and two complaint cases on 30<sup>th</sup> November are still under ET's investigation.

### **Reporting Changes**

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

### **Future Key Issues**

viii. 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 24<sup>th</sup> 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<sup>st</sup> November 2020 and 30<sup>th</sup> November 2020.

### 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	23	
	.2.0	

Table 1.1Contact Information of Key Personnel

Party	Position	Name	Telephone		
Project Proponent (CEDD)	Senior Engineer	Ms. Cannifer Fung	3152 3446		
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		
	Site Agent	Mr. Aaron Au	6345 0754		
Main Contractor (CCZJV)	Environmental Officer	Ms. Kimberly Wong	5542 1669		
ET (FTS)	Environmental Team Leader	Mr. David Hung	3565 4371		



### **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>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Mini pile works</li> <li>Pre-drilling works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Pre-drilling works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pre bored H-pile works</li> <li>Soldier pile works</li> <li>Pier construction works</li> <li>Bored pile works</li> <li>Noise barrier foundation works/ Pile Cap Works</li> <li>Construction of Lagging wall and retaining wall</li> <li>Construction of temporary road for bus terminal</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Demolition works for Footbridge NF40 existing staircases</li> <li>Foundation works for Footbridge NF66</li> <li>Mini Pile works</li> </ul>	<ul> <li>Trial pits excavation</li> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pre-drilling works</li> <li>Construction of Noise Barrier Foundation / Pile Cap Works</li> <li>Soil replacement works on slopes</li> <li>Mini Pile works</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**.

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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	06/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	09/11/2018	30/11/2023
	GW-RN0561-20	10/08/2020	09/11/2020
Construction Noise Permit for Road Closure works at	GW-RN0636-20	14/09/2020	30/11/2020
restricted hours	GW-RN0798-20	12/11/2020	11/5/2021
	GW-RN-0799-20	12/11/2020	19/1/2021

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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.

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS 6	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	761106
2	AMS 8	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	892187
3	AMS 11A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	892189
4	AMS 13	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	761105

### Table 2.1 24-hour TSP Monitoring Equipment

\*Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 6, 8, 11A and 13 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	Equipment
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ltem	Location	Brand	Model	Equipment	Serial Number
1	AMS 6	Sibata	Model LD-5R	Sibata Portable TSP Monitors	761106
2	AMS 8	Sibata	Model LD-5R	Sibata Portable TSP Monitors	892187
3	AMS 11A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	892189
4	AMS 13	Sibata	Model LD-5R	Sibata Portable TSP Monitors	761105

### 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.

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- 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.

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### 2.4.2 1-hour TSP air quality monitoring

The portable TSP monitor should be calibrated at 1 year intervals

#### 2.5 **Monitoring Locations**

2.5.1 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. According to the Hong Kong Observatory, wind direction in November 2020 is north, north east, and east. The most updated locations are summarized in Table 2.3 and shown in Figure 2a.

Table 2.3 Location of Air Quality Monitoring Station

	Monitoring Station	Location	Land uses
ſ	AMS 6	Shatin Plaza	Residential
	AMS 8	Lek Yuen Estate	Residential
	AMS 11A	Sheung Wo Che	Residential
	AMS 13	Fung Wo Estate	Residential

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

- 2.6.1 The 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 6, 8, 11A and 13 in the reporting month.
- 2.6.3 During the reporting month, major dust sources including trial pits excavation, pre-drilling, mini pile works, soldier pile, sheet pile works and Pre Bored H-pile works 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**.
- 2.6.5 The monitoring data of 24-hr and 1-hr TSP are summarized in Table 2.4 and 2.5. Detailed monitoring data are presented in Appendix F.

1 able 2.4	Summary of 24	-nr isp monitor	ing Results		
Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m³)	Limit Level (µg/ m³)
	AMS 6	53	43 - 57	165	
24-hr TSP	AMS 8	53	49 - 54	161	260
in µg/m³	AMS 11A	56	50 - 57	165	200
	AMS 13	59	49 - 62	174	

Table 2.5

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### Summary of 1-hr TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (μg/ m³)	Action Level (µg/ m³)	Limit Level (µg/ m³)
	AMS 6	62	50-70	347	
1-hr TSP	AMS 8	68	61-72	336	500
in µg/m³	AMS 11A	64	57-69	335	500
	AMS 13	69	56-77	303	

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

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### 3. NOISE

### 3.1 Monitoring Requirement

3.1.1 In accordance with the updated EM&A Manuals, L<sub>eq</sub> (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.

ltem	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	1488271
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488293
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488295
4	Casella	CEL-63X Series	Integrating Sound Level Meter	1488303
5	Casella	CEL-63X Series	Integrating Sound Level Meter	1488306
6	Casella	CEL-63X Series	Integrating Sound Level Meter	2451048
7	Casella	CEL-120 Series	Calibrator	2383852
8	Casella	CEL-120 Series	Calibrator	4358251
9	Casella	CEL-120 Series	Calibrator	4358289
10	Casella	CEL-120 Series	Calibrator	5230736

### 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	Table 3.2	Monitoring Parameters and Frequencies of Noise Monitoring
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Parameter	Frequency and Period
LAeq (30min)	At each station at 0700-1900 hours on normal weekdays at a frequency
L <sub>10</sub> and L <sub>90</sub> 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		
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-I 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 and Arrangements on Deferral of Class Resumption for All 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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Monitoring	L <sub>eq (30min)</sub> Range, dB(A) Construction Noise	L <sub>eq (30min)</sub> Limit Level,
Station	Level	dB(A)
NMS1	61.6 - 66.2	75
NMS2	54.2 - 56.2	75
NMS3	70.4 – 71.3	75
NMS4	66.0 - 67.4	75
NMS5A	67.8 – 73.8	75
NMS6A	69.2 – 72.2	75
NMS7	69.7 – 73.2	75
NMS8	65.8 – 71.0	75
NMS9	61.3 – 71.6	75
NMS10A	59.3 - 64.1	70*
NMS11	63.1 - 64.5	75
NMS12	60.2 - 64.3	70*
NMS13	57.7 – 70.1	75
NMS14	57.2 - 66.2	75
NMS15	63.1 – 66.4	75
NMS16	63.0 - 65.2	75
NMS17	59.1 - 64.4	70*
NMS18	61.8 - 63.8	75
NMS19	58.6 - 68.4	75
NMS20	60.3 - 69.6	75
NMS23	66.2 - 67.7	75
NMS24	58.2 - 69.2	75
NMS25A	64.6 - 71.5	75
NMS26	67.4 - 68.1	75
NMS27	63.9 - 64.5	70*

### Table 3.4 Summary of Day Time Noise Impact Monitoring Results

Note: 1. L<sub>eq (30min)</sub> 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.

3. The examination schedule was provide in Appendix E.

3.7.6 Regular night time noise monitoring were conducted on 5, 12, 19, and 26 November 2020 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.** 

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Table 3.5 Summary of Night Time Noise impact Monitoring Results				
Monitoring Station	L <sub>eq (15min)</sub> Range, dB(A) Construction Noise Level	L <sub>eq (15min)</sub> Limit Level, dB(A)	L <sub>eq (15min)</sub> Baseline, dB(A)	
NMS1	55.4 – 57.2	55	61.4	
NMS2	49.6 – 52.2	55	49.7	
NMS3	62.3 - 62.8	55	70.9	
NMS4	57.1 – 57.5	55	62.6	
NMS5A	59.5 - 60.9	55	67.9	
NMS6A	67.8 – 69.1	55	71.5	
NMS7	38.1 – 58.9 <sup>[2]</sup>	55	59.0	
NMS8	57.9 – 58.2	55	64.4	
NMS9	54.2 - 55.0	55	53.5	
NMS11	53.1 – 54.8 <sup>[2]</sup>	55	53.2	
NMS13	47.6 - 56.6 <sup>[2]</sup>	55	57.3	
NMS14	52.0 - 54.8 <sup>[2]</sup>	55	54.1	
NMS15	54.3 – 58.8 <sup>[2]</sup>	55	58.8	
NMS16	57.2 – 59.3	55	60.1	
NMS18	57.1 – 61.0	55	63.2	
NMS19	58.2 - 59.8	55	61.7	
NMS20	53.5 – 54.9 <sup>[2]</sup>	55	57.7	
NMS23	58.4 – 59.9	55	59.9	
NMS24	48.8 - 57.4 <sup>[2]</sup>	55	58.0	
NMS25A	58.7 – 59.2	55	59.7	
NMS26	60.0 - 60.2	55	61.2	
Note: 1)	was measured at might times (2)	000 0700)		

 Table 3.5
 Summary of Night Time Noise Impact Monitoring Results

Note: 1)  $L_{eq (15min)}$  was measured at night-time (2300-0700).

2) When the Average Measured Noise Level is greater than Limit Level and baseline 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, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.
- 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**.



### 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**.



### 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, 4 site inspections were carried out on 5, 12, 19 and 26 November 2020. The site inspection held on 26 November 2020 was joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.
- 6.1.3 All the follow-up actions requested by ET and IEC during the site inspections were completed and reported by the Contractor. All the rectifications during the reporting period were fulfilled with the requirement of Proposal of Site Inspection, Deficiency and Remedial Action. 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 5, 12, 19 and 26 November 2020 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

### 7.2 Complaints, Notification of Summons and Prosecution

- 7.2.1 5 complaint cases were received on 10<sup>th</sup>, 20<sup>th</sup>, 24<sup>th</sup> and 30<sup>th</sup> November from the 1823 and EPD regarding to the noise nuisance, air nuisance and water nuisance. The complaint cases of 24<sup>th</sup> and two complaint cases on 30<sup>th</sup> November are still under ET's investigation.
- The complainant on 10<sup>th</sup> November 2020 complained about water discharge onto the traffic 7.2.2 lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00. The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes. ET conducted adhoc site inspection on 17th November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been provided at the site boundary of Zone 3. ET analyzed that released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes.
- 7.2.3 The complainant on via ICC1823 on 20th November 2020 complained about the noise generated from the night-time asphalt laying construction works between Sha Tin Station and nearby Wo Che Estate. Although the main contractor no work at zone 5, but the major nighttime construction works was road surface remedial work which was related to the complainant concerned. According to the Main Contractor, the major construction works was road surface remedial work since 19th November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. 3.20 No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.



7.2.4 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

• NRMM label should be shown on machine at Zone 1 to fulfill requirement of APO.

**Construction Noise Impact** 

• No specific observation was identified in the reporting month.

Water Quality Impact

- Stagnant water should be cleared at Zone 1.
- Drainage shall be cleaned regularly to prevent sludge leakage. (Zone 4,NF 40)
- Sediment of Sedimentation tank should be cleared regularly to ensure the quality of treated water at Zone 3.
- Remove the stagnant water mixed with oil inside the drip tray and provide a plug for the tray as circled (Zone 3).

#### Chemical and Waste Management

- General waste should be cleared to maintain good site practice at works area B.
- Drip Tray should be provided under chemical containers at Zone 1 to prevent chemical pollution to environment if there any leakage.
- Drip Tray should be provided for chemical containers to prevent chemical pollution when leakage occur at Zone 3.
- Sand bags or border should be provided to prevent sludge leakage outside to the site boundary at Zone 3.
- Provide mitigation measure, such as drip tray, for the chemicals containers to prevent spillage.
- Replace the broken sandbags and enhance mitigation measures to prevent leakage of silty material outside boundary (Zone 4).
- Remove the stack of excavated material to avoid leakage out of site boundary (Zone 4)

#### 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

• No specific observation was identified in the reporting month.

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### 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:

- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 2, 3, 4 & 5.
- (2) Pre-drill works in Zone 1 & 2.
- (3) Mini pile Works in Zone 1, 4 & 5.
- (4) Backfilling for underground utilities trench in Zone 1 & 2.
- (5) Pile Cap Construction Works in Zone 1, 2 & 3.
- (6) Trial Pits Excavation in Zone 3, 4 & 5.
- (7) Underground utilities detections in Zone 3, 4 & 5.
- (8) Noise Barrier Foundation Works in Zone 3 & 5.
- (9) Lagging wall and Retaining wall in Zone 3.
- (10) Construction/ Diversion of underground utilities in Zone 3.
- (11) Relocation of Traffic Light in Zone 3.
- (12) Soldier Pile Construction Works in Zone 3.
- (13) Pre Bored H Pile Construction Works in Zone 3.
- (14) Pier Construction Works in Zone 3.
- (15) Demolition of Central Median, and Temporary Median Module Installation Works in Zone 3 & 4.
- (16) Demolition of NF40 Footbridge Existing Staircases in Zone 4.
- (17) NF66 Footbridge Footing Construction Works in Zone 4.
- (18) Soil Replacement Works on Slope in Zone 5.

## 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.
- 10.1.3 Regular night time noise monitoring was carried out on 5, 12, 19 and 26 November 2020 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.
- 10.1.4 4 site inspections were carried out on 5, 12, 19 and 26 November 2020. Recommendations on mitigation measures on air quality, chemical and waste management and water were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.5 5 complaint cases were received on 10<sup>th</sup>, 20<sup>th</sup>, 24<sup>th</sup> and 30<sup>th</sup> November from the 1823 and EPD regarding to the noise nuisance, air nuisance and water nuisance. The complaint cases of 24<sup>th</sup> and two complaint cases on 30<sup>th</sup> November are still under ET's investigation.

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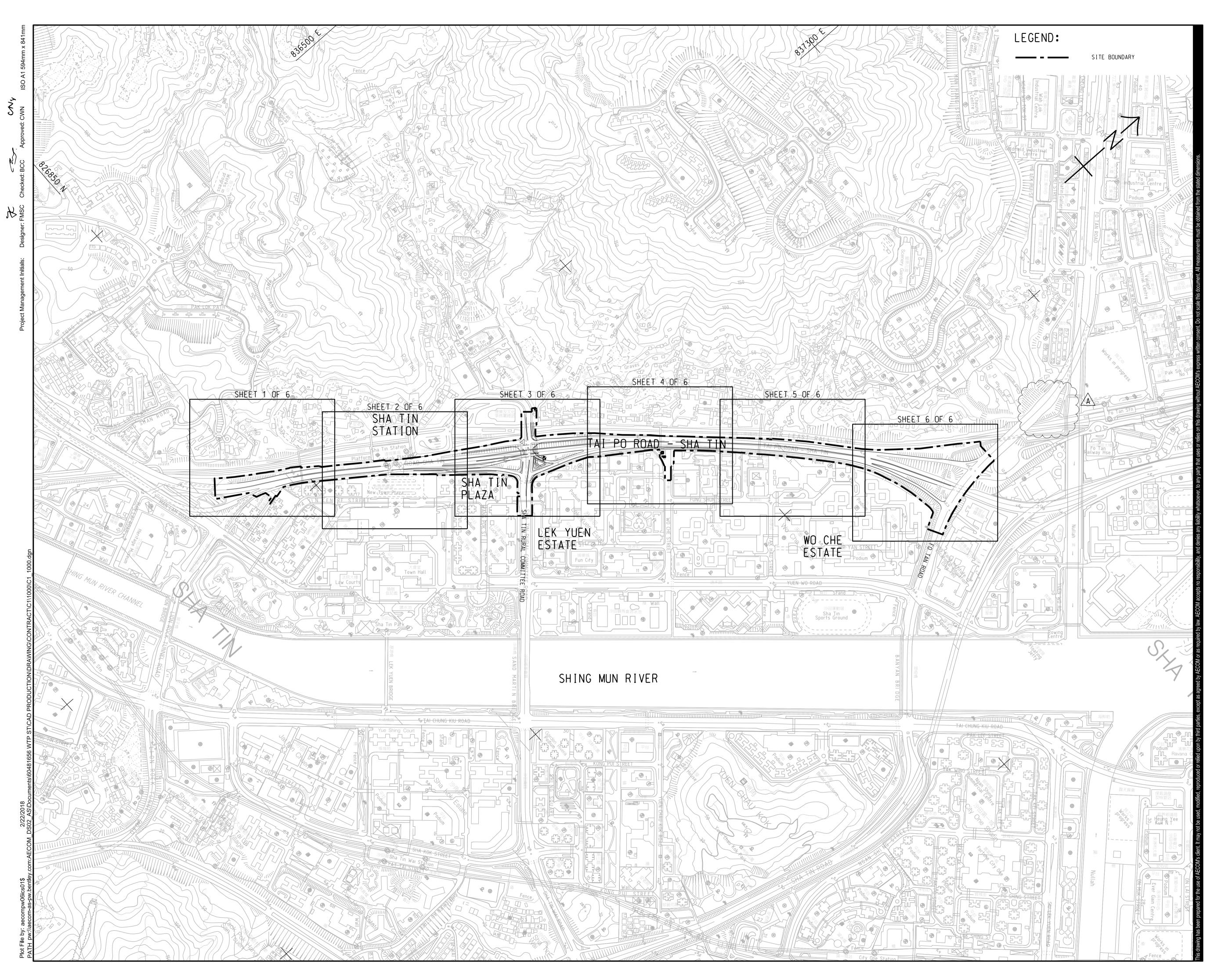
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Figure 1

**Project General Layout** 

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

## CLIENT <sub>業主</sub>



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## **STATUS** 階段

SCALE <sup>比例</sup>	DIMENSION UNIT 尺寸單位
A1 1 : 4000	METRES
<b>KEY PLAN</b> 索引圖	FIGURE 1.1a

## CONTRACT NO. <sub>合約編號</sub>

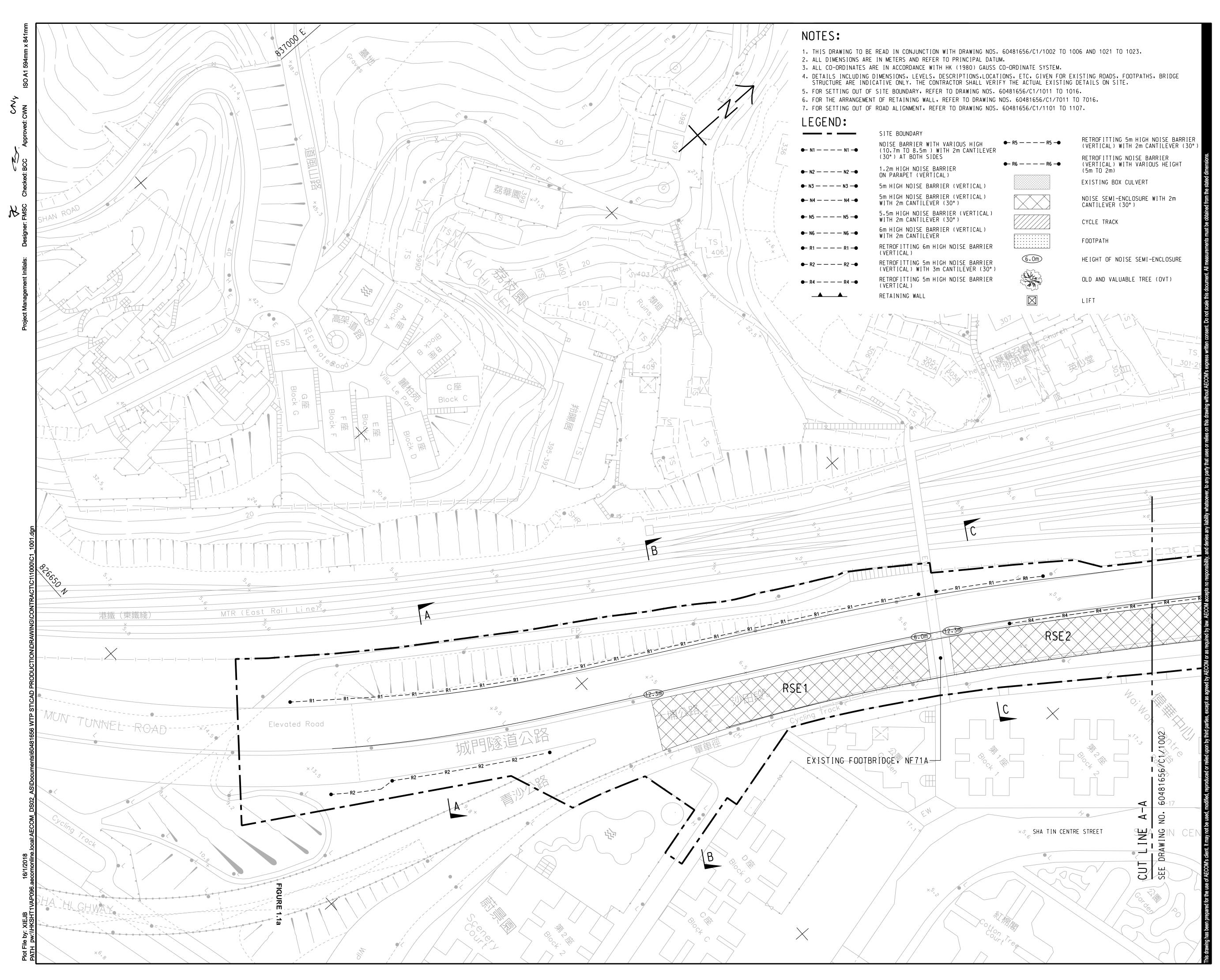
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SHEET TITLE <sup>圖紙名稱</sup>

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)

## CLIENT <sub>業主</sub>



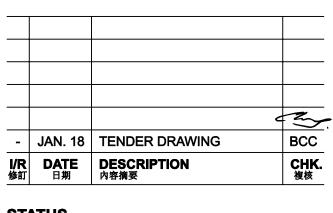
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## STATUS <sub>階段</sub>

# 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

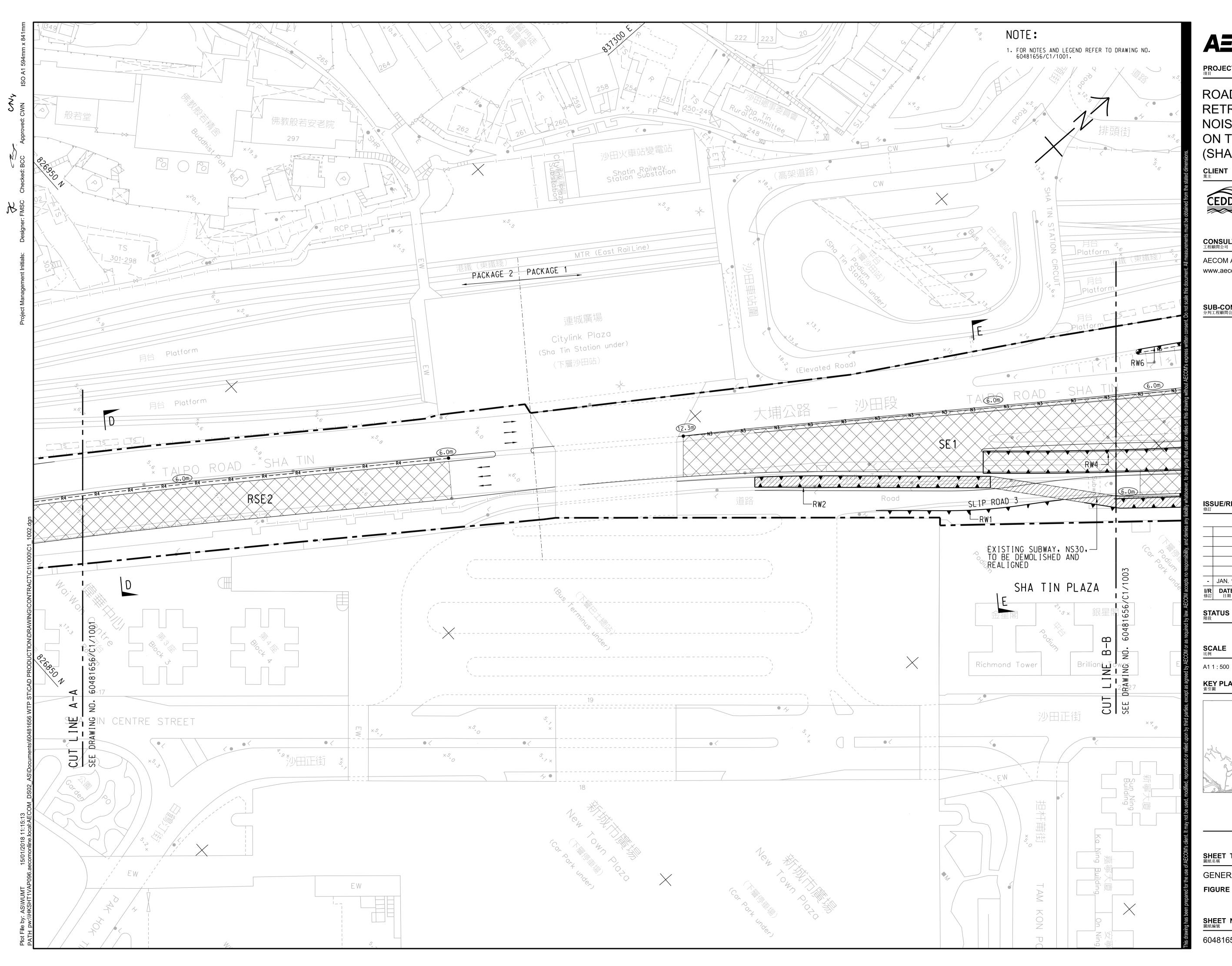
GENERAL LAYOUT PLAN FIGURE 1.1 b

## SHEET NUMBER <sup>圖紙編號</sup>

60481656/C1/1001

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

## CLIENT <sup>業主</sup>



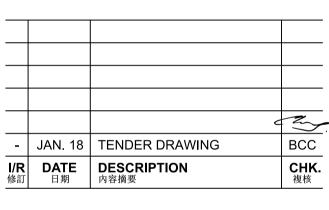
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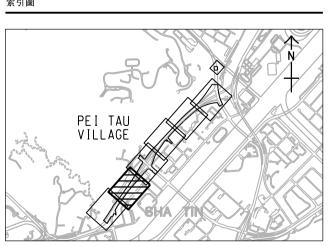
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# SCALE 比例

## 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

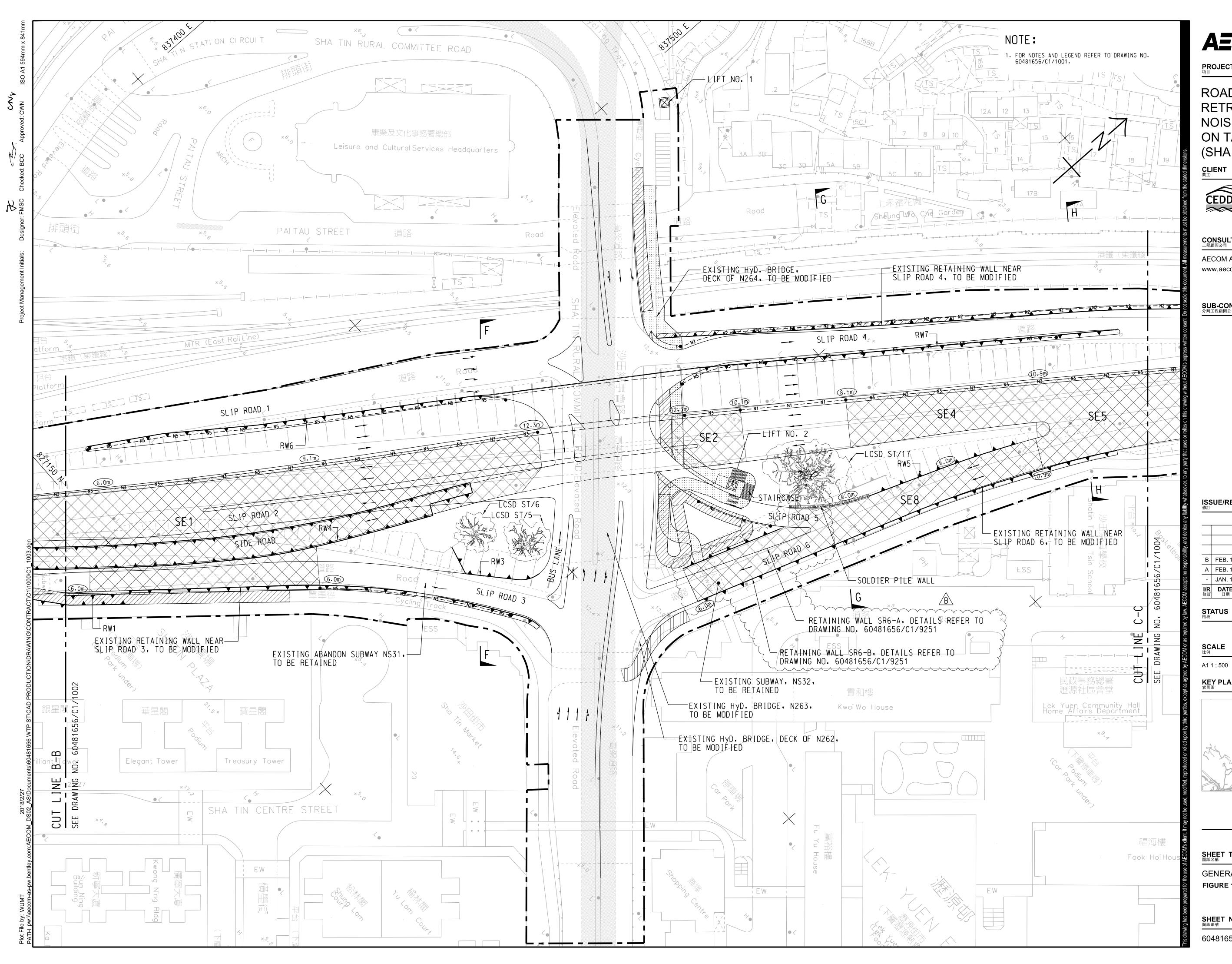
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GENERAL LAYOUT PLAN FIGURE 1.1b

## SHEET NUMBER <sup>圖紙編號</sup>

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SHEET 2 OF 6





PROJECT

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

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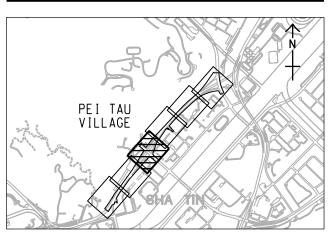
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SCALE 比例

## 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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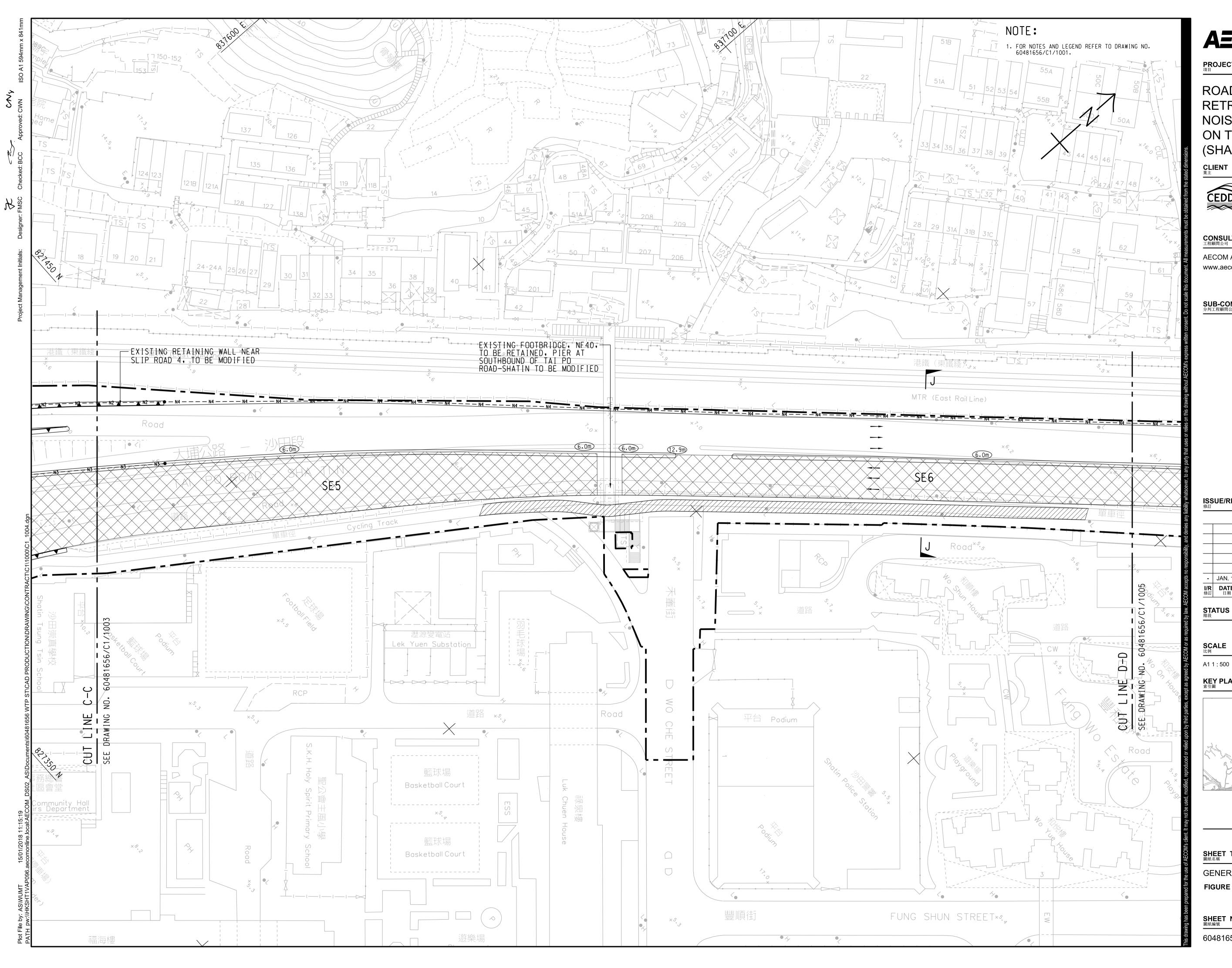
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GENERAL LAYOUT PLAN FIGURE 1.1 b

## SHEET NUMBER 圖紙編號

60481656/C1/1003B

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>



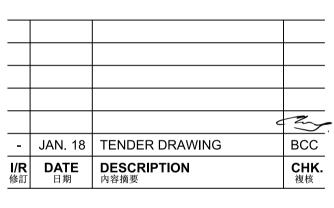
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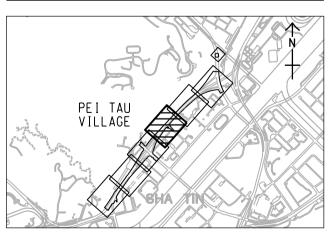
## **STATUS** 階段

# SCALE 比例

## DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



## CONTRACT NO. <sup>合約編號</sup>

NE/2017/05

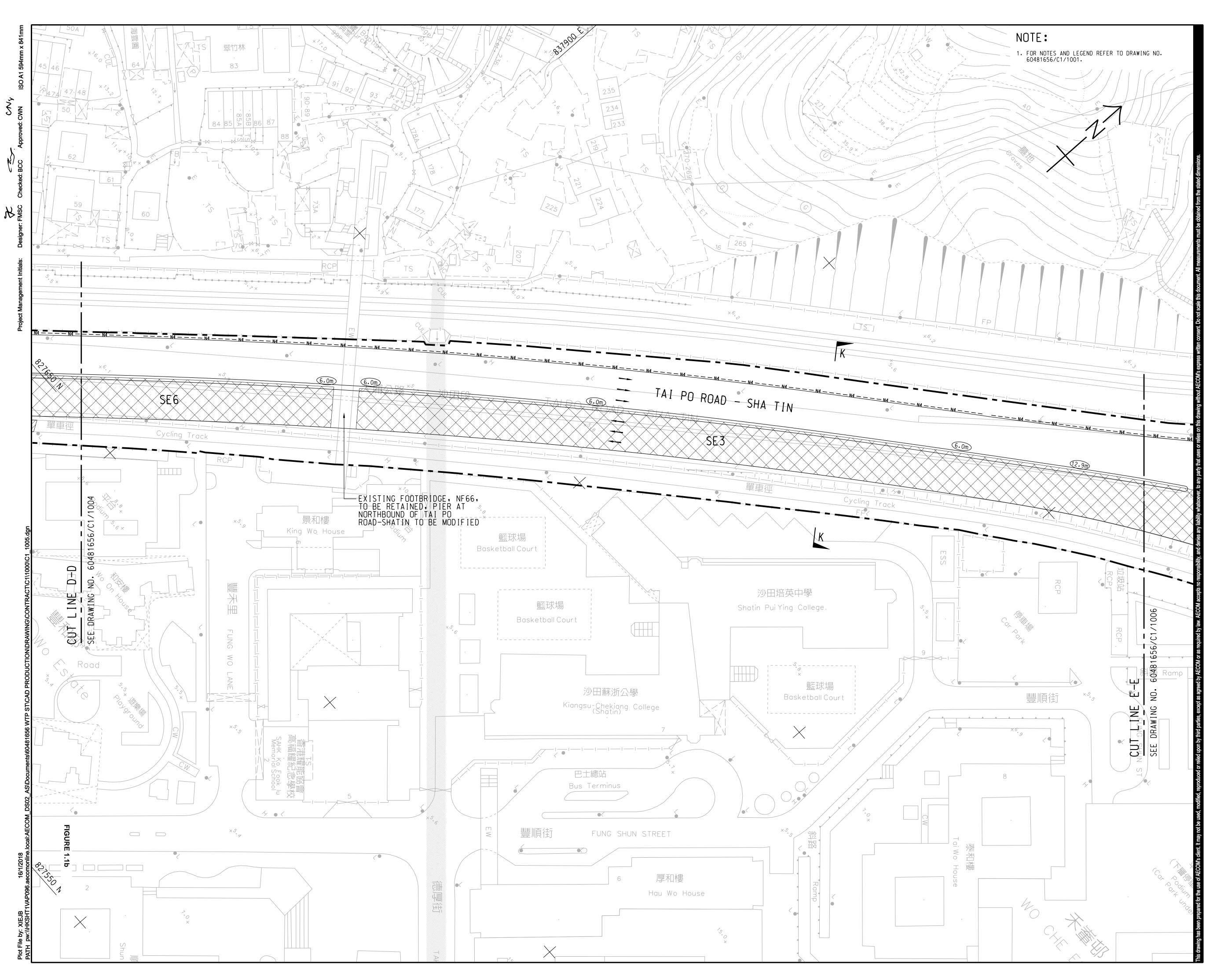
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET NUMBER <sup>圖紙編號</sup>

60481656/C1/1004

SHEET 4 OF 6





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

## CLIENT <sup>業主</sup>



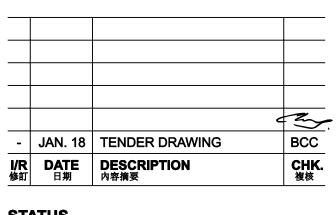
< 土木工程拓展署 CEDD CEDD Civil Engineering and Development Department

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## ISSUE/REVISION 修訂



## STATUS <sub>階段</sub>

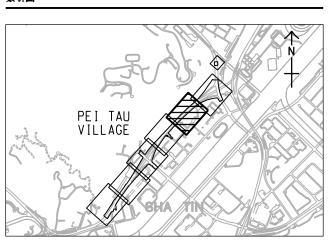
# SCALE <sup>比例</sup>

## DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 *案*引圖



## CONTRACT NO. <sup>合約編號</sup>

NE/2017/05

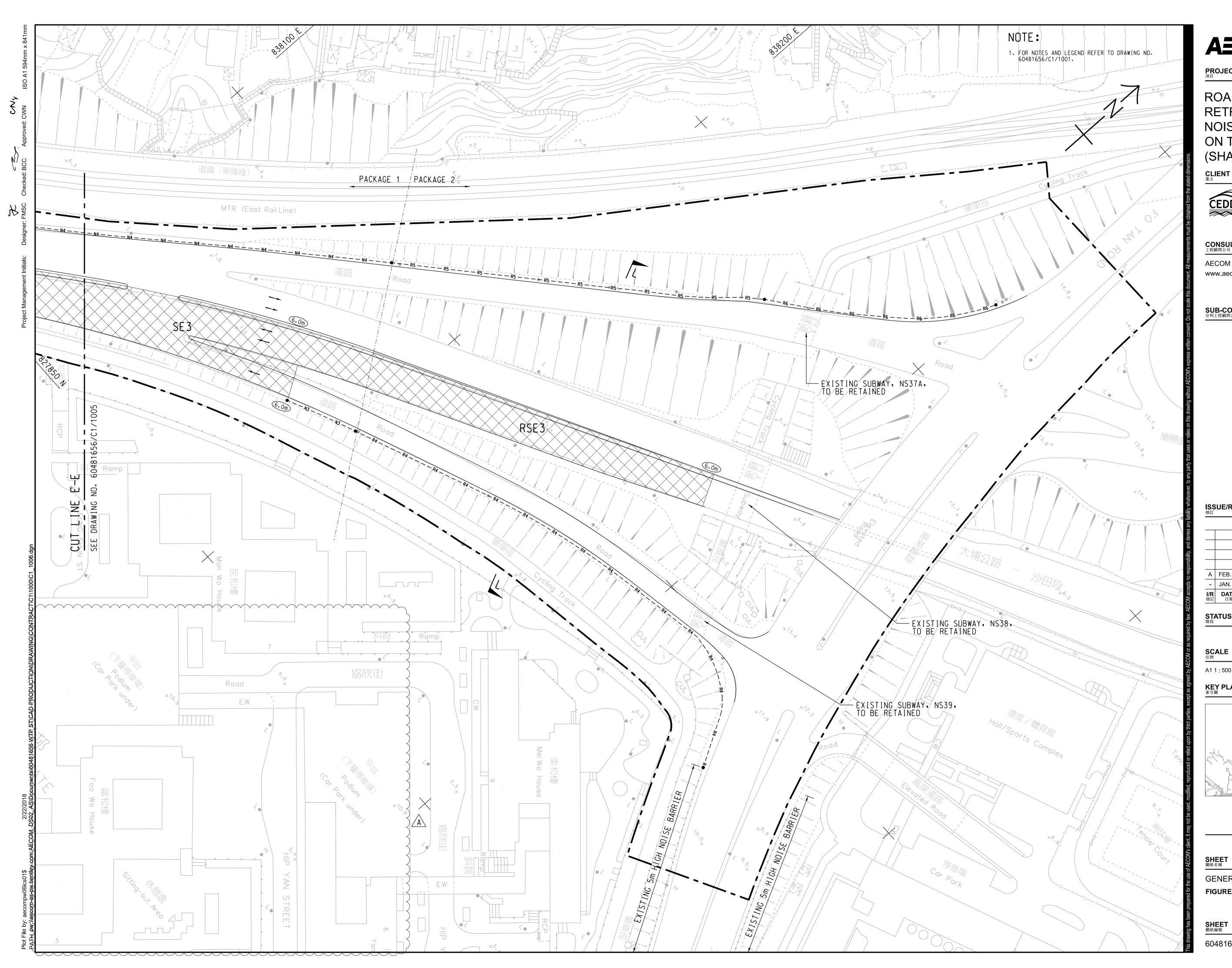
## SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

## SHEET NUMBER 圖紙編號

60481656/C1/1005

SHEET 5 OF 6





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

## CLIENT <sub>業主</sub>



CEDD
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## **ISSUE/REVISION**

		c	25
А	FEB. 18	TENDER ADDENDUM NO.2	BCC
-	JAN. 18	TENDER DRAWING	BCC
<b>I/R</b> 修訂	DATE 日期	<b>DESCRIPTION</b> 內容摘要	<b>CHK.</b> 複核
		-	

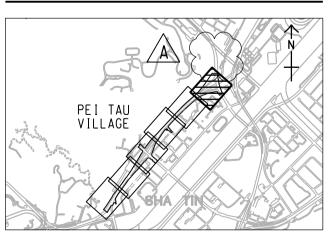
## **STATUS** 階段

# 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>

NE/2017/05

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET 6 OF 6

## SHEET NUMBER 圖紙編號

60481656/C1/1006A

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



Figure 2a

**Air Monitoring Locations** 

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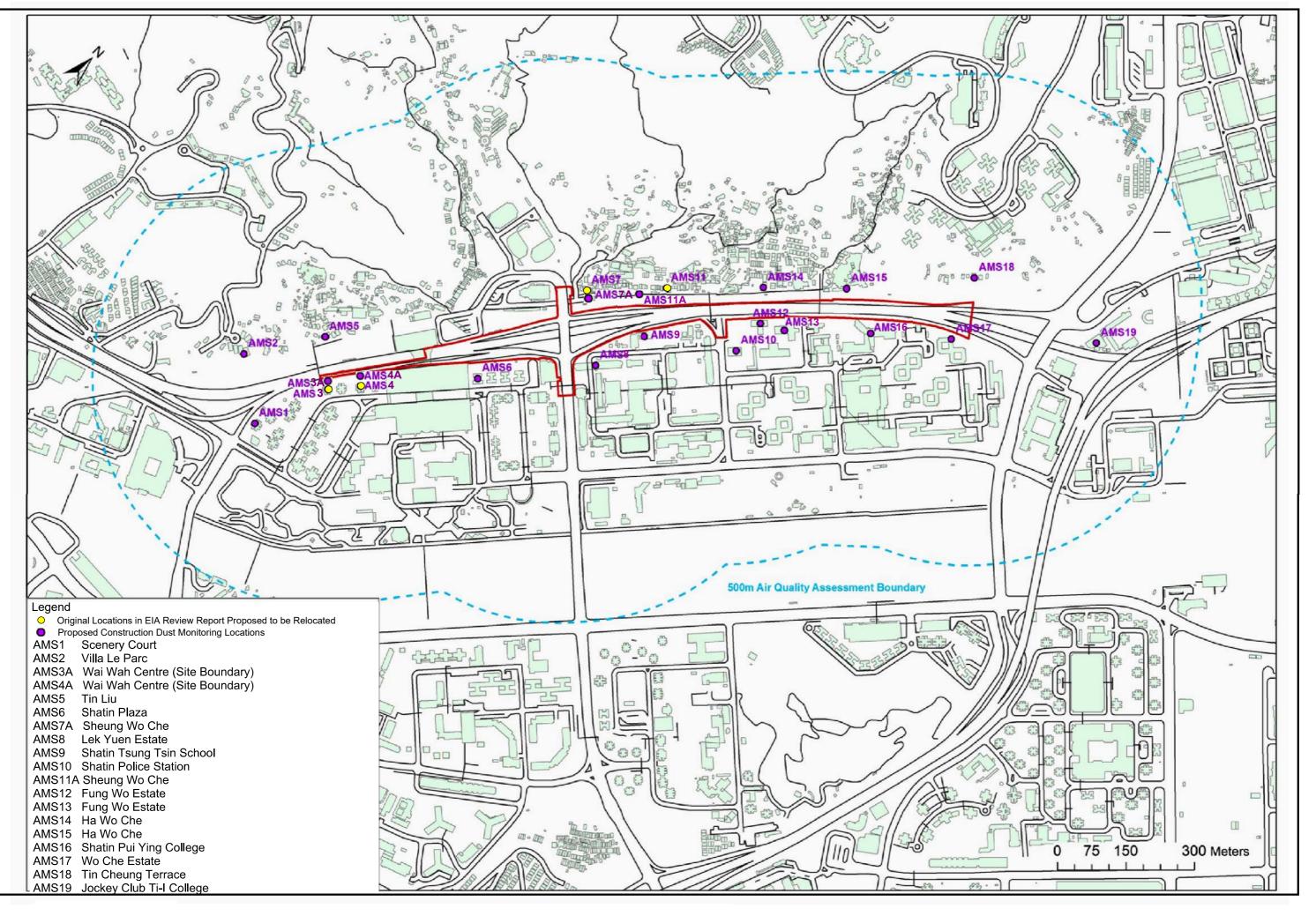


Figure 2a Air Quality Monitoring Locations



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

Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Figure 2b

**Noise Monitoring Locations** 

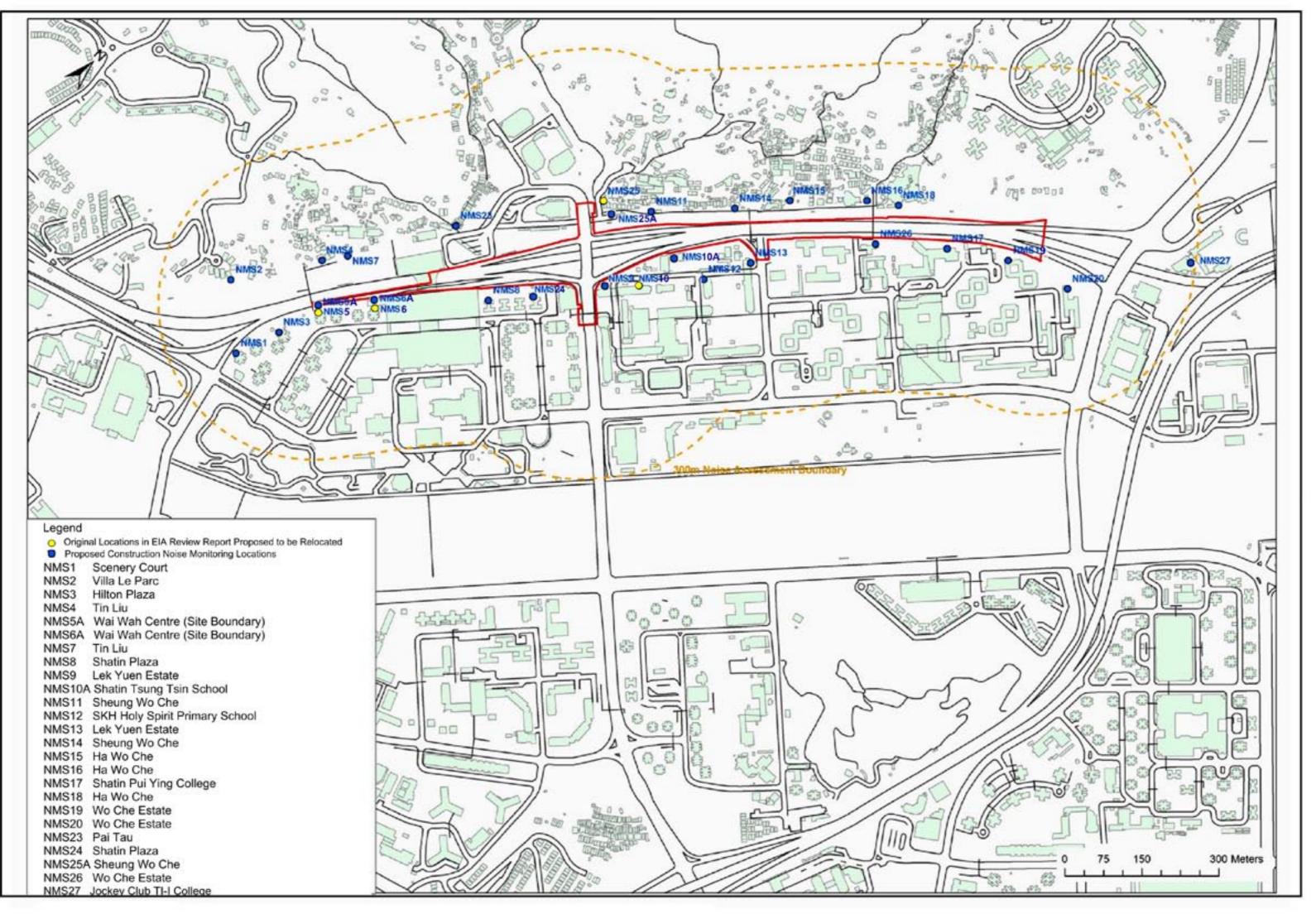


Figure 2b Noise Monitoring Locations



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



Appendix A

**Construction Programme** 

	Activity Name	Duration	Duration		AP 5 Sign	A a finiar	Oct 28	1 Nov	Dec	2021 Jan	T
ntract N	E/2017/05 Road Widening and Retrofitting Noise Ba	rriers o	1 Tai Po Road	I (Sha Tir	Section		10	20		31	
RELIMIN.	ARIES & GENERAL REQUIREMENT										
ENERAL	SUBMISSION										
UB1343	TCSS Configuration Management	0	0 31-Oct-20*		31-Jul-20			TCSS Configuration Management			1
UB1347	Lift installation - Design Data	0	0 31-Oct-20*		31-Jul-20			Litt Installation - Design Data			1
UB1403	ITP's for Lighting Luminaires and System	0	0 31-Oct-20*		31-Jui-20			TIP's for Lighting Luminaires and System			4
UB1405	All Lighting Designs	0	0 31-Oct-20*		31-Jul-20			All Lighting Designs	8	-	
UB1410	Cambined Services Drawings (CSD)	0	0 31-Oct-20"	_	31-Jul-20			Combined Services Drawings (CSD)		1	-
	UBMISSION										1
ES1150	ERCHANGE MODIFICATION WORKS (Alternative Design)										
	PM Consent for Construction	28	14 03-May-19 A	13-Nov-20	31-Jul-19	27-Aug-19		PM Consent for Construct	lion		
ES1230	IGATION MEASURES PM Consent for Construction	28	1 02-Jan-19 A	31-Oct-20	31-Jan-19	27-Feb-19					1
ES1250	PM review & comment	28	14 12-Jul-19 A	13-Nov-20	01-Sep-19	29-Sep-19		PM Concerts for Construction			
ES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design	23	23 15-Nov-20	07-Dec-20	15-Aug-20	00-Sep-20		PM review & comment	De a desis Francisco Decisione Maria		
ES1270	Certificate PM Consent for Construction	28	28 08-Dec-20	04-Jan-21	07-Sep-20	04-Oct-20			Re-submit Foundation Design of Noise	Mitigation Measures in Zone 3 w/Design Certificate	
E\$1290	PM review & commont	28	11 07-Aug-19 A	11-Nov-20	31-Aug-19	27-Sep-19		PM review & comment		PM Consent for Construction	
ES 1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20 12-Nov-20	02-Dec-20	15-Aug-20	03-Sep-20		Printeeview of Constient	Be-submit Superstructure Dasion of Noise Min	ation Measuros in Zone 1 & 2 w/Design Certificate	1
ES1310	PM Consent for Construction	28	28 02-Dec-20	30-Dec-20	04-Sep-20	01-Oct-20				PM Consent for Construction	
ES 1330	PM review & commont	28	20 07-Aug-19 A	19-Nov-20	31-//ug-19	27-Sep-19		PM review & co	mikent		
ES1340	Per submit Superatructum Design of Noise Malgation Measures in Zone 3 w/Design	21	21 20-Nov-20	11-Dec-20	20-Aug-20	10-Sep-20				n of Noise Mitigation Measures in Zone 3 w/Detiign (	Certificat
ES 1350	PM Consent for Construction	28	28 11-Dec-20	08-Jan-21	10-500-20	08-Oct-20				PM Concent for Construction	
ES1370	PM review & comment	28	20 07-Aug-19 A	19-Nov-20	31-Aug-19	27-Sep-19		PM review & co	aminent		
DES1380	Re-submit Superstructum Design of Noise Mitigation Measures in Zones 4 & 1 w/Design Certificate	20	20 20-Nov-20	10-Dec-20	20-Aug-20	09-Sep-20			Re-submit Superstructure Design	D Noise Mitigation Measures in Zones 4 & 5 w/Desi	ign Certif
DES 1390	PM Consent for Construction	28	28 10-Dec-20	07-Jan-21	09-Sep-20	07-Oct-20				PM Consent Ital Construction	
EMAININ	3 WORKS						8 8 8				
ES1470	PM Consent I ar Construction	28	1 11-Mar-19 A	01-Nov-20	31-Jul-19	27-Aug-19		PM Consent for Construction			
ES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramo & Sion Gantry w/Desion C	21	0 26-Nov-18 A	31-Oct-20	31-Dec-18	20-Jan-19		Prepare & submit Foundation Design of Pedestria	an Lift 1 & 2, Lift 2 Staircase, Cycle Tada Ramp & Sign	Cantry w/Design C	
ES1490	PM review & comment	28	1 25-Jan-19 A	31-Oct-20	04-Aug-19	01-Sep-19		PM review & comment			
DES1500	Re-submit Foundation Design of Pedestnian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramo & Sion Gantry w/Design Certific	35	1 13-Apr-20 A	03-Nov-20	02-Jun-20	07-Jul-20		💼 📻 Re-submit Foundation Design of Pedestrian	Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign G	an ny w/Design Certific	
DES1510	PM Concert for Construction	28	28 03-Nov-20	01-Dec-20	03-Aug-20	31-Aug-20			PM Consent for Construction		
E\$1530	PM review & comment	28	1 02-Jan-19 A	31-Oct-20	31-Jan-19	27-Feb-19		PM review & comment	4		
ES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1 02-Jan-19 A	31-Oct-20	02-Apr-19	03-May-19		Re-submit Design of Watermain & Irrigation System	emw/Design Certificate	1	
E51560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35 31-Oct-20	04-Dec-20	31-Jui-20	03-Sep-20			Propare & submit Design of E&M System (E		
ES1570	PM review & comment	28	28 05-Dec-20	01-Jan-21 03-Feb-21	04-Sep-20	01-Oct-20 03-Nov-20		1		PM review & comment	
DES 1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate PM Consent for Construction	32	28 04-Fub-21	03-Mar-21	04-Nov-20	01-Dec-20					-
			20 04190-61	0.549401421	044404-20	01-080-20		÷)			
	NG & PROCUREMENT SCHEDULE										
UBLETTI PS1000	Maintenance of Traffic Flow	20:	30 31-Oct-20	29-Nov-20	01-Aug-20	30-Aug-20			Maintenance of Traffic Flow		- 12
PS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30 31-Oct-20	25-Nov-20	31-Jul-20	29-Aug-20		:	Drainage (PC pipe, manhole & gully) and Duct		
PS1220	CCTV for Drainage Pipe	30	6 31-Mar-20 A	05-Nov-20	01-Jun-20	30-Jun-20		CCTV for Drainage Pipe	chanage (i o pare, manoie a gaily) == 2001		74
PS1290	Steelwork for NB and Lift Tower	30	6 31-Mar-20 A	05-Nov-20	31-May-20	29-Jun-20		Steelwork for MB and Lift Tower			
SPS1320	Tendon Works	30	0 25-Mar-20 A	21-Oct-20 A	31-May-20	29-Jun-20					
P\$1330	Road Lighting System (Excluding Noise Mitigation Measures)	30	27 31-Aug-20 A	03 Mar-21	02-Noi-20	01-Dec-20		-			
PS1370	Integration of TCSS System into existing system	30	11 29-May-20 A	03-Mar-21	12-Oct-20	31-Oct-20					·····
PS1390	E&M Works	30	27 31-Aug-20 A	03-Mar-21	02-Nov-20	01-Dec-20		-	-		
PS1420	Lighting System for Noise Mitigation Measures	90	30 31-Oct-20	29-Nov-20	31-Jul-20	29-Aug-20			Lighting System for Home Mitigation Measures		
PS1430	Panels for Noise Mitigation Measures	30	6 31-Mar-20 A	29-Nov-20	02-Aug-20	31-Aug-20			Panels for Noise Mitigation Measures		
	Drainage for Noise Mitigation Measures	30	30 31-Oct-20	29-Nov-20	01-Jul-20	29-Aug-20			Drainage for House Mitigation Measures		1

ORK BETWEE           PRELIMINATIES: V           SUMMARY PROCE           21501020           21501020           21501020           21501024           2015           21501034           2016           PILE FOUNDATION           21,1020           21,1020           PILE CAP AND FOOL           PILE CAP AND FOOL           NORTHBOUND           21,1080           R2           NORTHBOUND           X1,1080           R2           NORTHBOUND			Duration		1			NUP	Dec	Jali	
PRELIMINATIES /           SUMMARY PROCES           21501020           21501020           21501020           21501024           20152           COSE BARFILER /           PILE FOUNDATION           21,1520           R0THBOUND           21,1600           P2,1,1600           P0LE CAP AND FOCO           NORTHBOUND           NORTHBOUND           NORTHBOUND           NORTHBOUND	/aterproofing (Biturnen Paint)	30	30 31-Oct-20	29-Nov-20	31-Jul-20	29-Aug-20	28	29	30 Waterproofing (Bitumen Paint)	31	
SUMMARY PROCE           21501000         200           21501012         200           21501012         200           21501012         200           CISE BARHEELS         200           POLE FOUNDATION         NORTHBOUND           21-1520         R1           SOUTHBOUND         21,1000           21,1000         R2           PILE CONDUCTOR         PULE CAP AND FOOD           NORTHBOUND         NORTHBOUND	IN SHING MUN TUNNELS ROAD AND FOOT BRID	GE NF71	A (ZONE 1)	1. A							
21501030         200           21501034         200           21501034         200           COESE BARRIER 1         200           PILE FOUNDATION NORTHBOUND 21,1520         R1           SOUTHBOUND 21,1050         R2           PILE CAP AND FOOD NORTHBOUND         R00           NORTHBOUND         R1											1
215U1032         200           215U1034         200           COESE BARFIER         200           PILE FOUNDATION         000           NORTHBOUND         21           21,1060         62           PILE CAP AND FOO         000           NORTHBOUND         62           VILION         000	RAMME one 1 Stage 1 RSE1 CM foundation	328	199 28-Dec-19 A	07-Jul-21	31-Dec-19	05-Feb-21					*
Z15U1034         Za           COISE BARFILER         A           PILE FOUNDATION         NORTHBOUND           21_1520         R1           SOUTHBOUND         R2           21_1000         R2           PILE CAP AND FOOD         NORTHBOUND           NORTHBOUND         R2	one 1 Stage   R1 structure R1-01 to 08	268	265 19-Aug-19 A	22-Sep-21	31-Jul-20	26-Jun-21					
COISE BANNIER           PILE FOUNDATION           NORTHBOUND           21_1520           SOUTHBOUND           21,1060           R1           PILE CAP AND FOC           NORTHBOUND	bin 1 Stage 1 R1 structure R2	435	329 20-Feb-20 A	08-Dec-21	20-Mar-20	07-Sep-21		A CONTRACTOR OF A CONTRACTOR O	***************************************		*******
PILE FOUNDATION           NORTHBOUND           21_1520         R1           SOUTHBOUND           21,.1080         R2           PILE CAP AND FOO           NORTHBOUND	20120101021200		020 000 2011	00 000 1.1	20-1461-20	or oop Er			*******		
21_1520 R1 SOUTHBOUND 21,1060 R2 PILE CAP AND FOC NORTHBOUND											
SOUTHBOUND 21,.1060 R2 PILE CAP AND FOC NORTHBOUND	1 V J								(		
Z1, 1060 R2 PILE CAP AND FOC NORTHBOUND	n mini piles for R1-02P (Snr raking, 3nr ver)	40	0 03-Sep-20 A	20-Oct-20 A	31-Jui-20	15-Sep-20	Ri and play in	Ch. 02H /One miking, 3nr ver)			
PILE CAP AND FOO NORTHBOUND	n wiel alter for D0 02B to 02D (10 to relies, 10 to und	175		0014-01	10 0 00	and the second					1
NORTHBOUND	2 mini piles Igr R2-02P to 0SP (19nr raking, 16nr ver)	175	115 01-Jun-20 A	20-Mar-21	19-Oct-20	25-May-21					
						_					10
Z1_1000 R1	1_ELS for looting/cap construction R1-01 to R1-08 (110m_1 side)	30	30 30-Nov-20	06-Jan-21	16-Sep-20	22-Oct-20		• • • • • • • • • • • • • • • • • • • •		R1_ELS for footing/cap construct	tion A1-01 to f
CENTRAL BARRIER											
	ISE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46		12-Jan-21	31-Aug-20	24-Oct-20	5			RSE1_ELS for footing	construction P
	ISE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	105 30-Nov-20	10-Apr-21	26-Sep-20	02-Feb-21			Č.		
SOUTHBOUND 21_1070 F2	2_ELS for footing/cap construction R2-01 to R2-06P (Bam 2 side)	30	30 04-Sep-20 A	30-Apr-21	22-Mar-21	15-May-21				a	s
and the second se			10 04/3ep/20 X	apropriet	2219921-21	1 Shays21	And and a second se				
	EN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZO	DNE 2)									1
RELIMINARIES Y SUMMARY PROGR											1
	Construction Zone 2 Stage 1 RSET CM foundation	594	335 10-Jul-19 A	15-Dec-21	08-Aug-19	10-Aug-21					
Z2SU1010 Co	Construction Zone 2_Stage 2 RSE2 SB (oundation	254	572 24-Sep-20 A	06-Oct-22	28-Sep-21	09-Aug-22					
INISE BARRIER	AND SEMI-ENCLOSURE	-				-					
PILE FOUNDATION											1
CENTRAL BARRIER											
	ISE2_mini piles for RSE2-01P_03P to 15P (57nr raking, 59nr ver)	195	11 17-Jan-20 A	12-Nov-20	26-Mar-20	20-Nov-20		RSE2_mini pil	for RSE2-01P, 03P to 15P (57nr raking, 59nr ver)		in de la combra
PILE CAP AND FOO						-				1 N WERE 54 7	
Z2_1040 RS	INSE2_ELS for footing/cap construction RSE2-01 to RSE2-15P (174m_2 side)	96	86 08-Aug-20 A	17-Mar-21	31-Aug-20	23-Dec-20					
	ISE2 Jabiling/cap construction RSE2-01P to 15P (14nr)	147		16-Aug-21	27-Nov-20	01-Jun-21					
ORK BETWEE	EN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZOI	NE 3)									2
RELIMINARIES		VIII 0/									
SUMMARY PROGR	RAMME							10			
Z3SU5000 Zo	one 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	251 20-Nov-19 A	04-Sep-21	02-Sep-19	10-Nov-20					
23SU5030 Zo	one 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	241 20-May-19 A	24-Aug-21	31-Jul-19	23-Nov-20					
Z3SU5040 Zo	Ione 3b (SB near SR8) Stage 1 Construct Lift Tower 2	256	220 31-Mar-20 A	30-Jui-21	29-Jun-20	11-May-21					00000000
Z3SU5050 Zo	Ione 3b (near SR6) Stage 1 SE5, SE8, SR6 foundation and N262 bridge	323	420 21-Feb-20 A	31-Mar-22	29-Feb-20	31-Mar-21	-				
Z3SU5070 Zo	one 📷 (near SR6) Stage 3 Construct SR5 & remaining staircase & cycle track ramp	682	708 28-Oct-20 A	21-Mar-23	04-Sep-20	31-Dec-22	-	************************			AAAAAAAA
Z3SU5100 Zo	Cone 3c (near SR3) Stage 1a	92	02 01-Dec-20	25-Mar-21	16-Sep-20	21-Dec-20					******
	AND SEMI-ENCLOSURE										1
PILE FOUNDATION	NWORKS										
SOUTHBOUND Z3_1522 SE	SE1-5_site investigation for S1E5-51 (1nr)	6	3 02-Jul-20 A	03-Nov-20	91-Jul-20	05-Aug-20		SE1-5_site investigation for S1E5-51 (1nr)			
	3E1-5_mini piere for S1E5-51 (10nr ver)	40		22-Feb-21	17-Nov-20	05-Jan-21		and the standard standard (in)			
SOUTHBOUND SLI											
	5E8-1 _mini piles for 5P6 1-8 & 2-8 (6nr)	64	64 04-Jan-21	23-Mar-21	03-Nov-20	19-Jan-21				(	1
PILE CAP AND FO	OTING	-									
SOUTHBOUND			0.00 hrs 01	20. Jan 01	10 000 00	OF New 22			1		
	SE2_ELS for the construction S2E1-52P (10m_2 side)	6	6 22-Jan-21	29-Jan-21	30-Oct-20 06-Nov-20	05-Nov-20			-		SE2_S
	SE2_pile cap construction S2E1-52P (2nr)	21	21 29-Jan-21	20100-21	00-1400-20	30-Nov-20					
BRIDGE AND STR PRELIMINARIES W	RUCTURE WORKS										<u>s</u>
UTILITIES DIVERSI									25		
SOUTHBOUND			and the second second							L	
							_			to the second	
Remaining L	Level of Effort Actual Work 🔷 🔇	Mileston	e RC	AD WIDE	NING & RI	ETROFITTI	NG NOISE BARRIERS	ON TAI PO ROAD (SHA TIN SE	CTION) Date Revis		pproved
Actual Level	el of Effort Remaining Work	Baseline	Milestone			3 Mon	ths Rolling Programme	e (31/10/20)	UO-INOV-20 JSIMRP DWP	2010 [1100 ]	_
Primary Bas	seline Critical Remaining Work						Page 2 of 5				

	Activity Name	Duration	Duration	3MRF PILISD	AP9 Start	AP9 Pinish	2020		2021	
		Durajion	Duration				28 29	30 0	Jan 31	1 F0
Z3_2940	UU_CLP-slew 1 ikv cable for RW1 & 2 CH1500-1580 80m	9	9 15-Jan-21	26-Jan-21	31-Oct-20	10-Nov-20				UU_CLP-slew 1
Z3 2950	UU_CATV-slew cable for RW1 & 2 CH1500-1590 90m	11	11 02-Jan-21	15-Jan-21	17-Oct-20	30-Oct-20			UU_CATV-slew cabl	
23_2960	UL_HKBN-slew cable for RW1 & 2 CH1500-1580 80m	9	9 15-Jan-21	26-Jan-21	31-Oct-20	10-Nov-20		<u> </u>		UU_HKBN-slew
Z3_3100	UU_HKBN-slaw cable for N262 CH1800-1810 10m	1	1 31-Oct-20	31-Oct-20	12-Sep-20	12-Sep-20	UU_HKBN-slew coble for N262 CH1800-1810 10r		·	
Z3_4541	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	60 01-Dec-201	16-Feb-21	18-Sep-20	27-Nov-20				
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	26 08-Jun-20 A	01-Dec-20	31-Jul-20	29-Oc1-20				
ODIEIC ATION	OF BRIDGE N263	_						UU_Construct combine UU traugh between cycle	Wack and RW1 Stage 1	
and the second se	TION ABUTMENT WALL AT NHA				_	-		· • · · · · · · · · · · · · · · · · · ·		·····
Z3_4130	NAW-1 plu testing	14	14 31-Oct-20	13-Nov-20	19-Sep-20	03-Oc1-20	NAW-1_pile testing			
Z3_4140	NAW-1_pile cap construction	35	35 13-Nov-20*	24-Dec-20	02-Nov-20	12-Dec-20		BIAN 1		
Z3_4142	Demolish part of existing North Hollow Abutment wall for construction new wall	45	45 24-Dec-20*	22-Feb-21	12-Dec-20	06-Feb-21		TRATE I	Sile cap construction	
Z3_4180	NAW-2_pile cap construction	35	35 31-Oct-20*	10-Dec-20	03-Oct-20	13-Nov-20				_
23_4190	NAW_construct new abutment wall (North side)	45	45 11-Dec-20	04-Fob-21	14-Nov-20	08-Jan-21		NAW-2, pile cap construction		1.64.0
	EXISTING PIER WALL OF N263		10 11 000 10	04100.01	14-160-20	00-040-21				
Z3_3870	SAW-1, pling works for new south abutment wall (3nr 1 5m bored pile)	30	6 13-Aug-20 A	06-Nov-20	31-Jui-20	03-Sop-20				
Z3 3890	SAW-1_pile testing	28	28 07-Nov-20	04-Dec-20	04-Sep-20	01-Oct-20	SAW-1_piling works for new nouth ab			
23 3900	SAW-1_ELS & pile cap construction	20						SAW-1_ple testing	-	
5000			30 02-Jan-21	06-Feb-21	17-Nov-20	21-Dec-20		· · · · · · · · · · · · · · · · · · ·	t	
Z3_3930	SAW-2 & 1_ELS & pile cap construction	45	43 05-Oct-20 A	22-Jan-21	04-Sep-20	29-Oc1-20			SAW-2	2 & 3_ELS & pil
Z3_3940	SAW_Modily existing N263 pier wall (North side)	45	45 22-Jan-21	19-Mar-21	30-Oct-20	21-Dec-20				_
	EXISTING SOUTH HOLLOW ABUTMENT WALL			-			5 mm			
23_3950	SHA pilling works for plan SHA 9 nas . Sackat H-pile	48	## 02-Jan-21	00-Mar-21	17-Nov-20	14-Jan-21			<b>C</b>	-
	OF BRIDGE N262						-	N. N. N. G. WE X. 195		
23_3510	CO2, piling works 4nr mini pile	16	16 30-Nov-20	17-Dec-20	14-Oct-20	02-Nov-20		C02_piling works 4p	nini pile	
Z3 ,3540	C03 piling works 7nr mini pile	24	24 02-Nov-20'	28-Nov-20	14-Sep-20	13-Oct-20	C	C03_piling works 7nr mini pile		1
23_3590	C04_A-shape column construction	60	60 02-Nov-20	13-Jan-21	12-Dec-20	27-Feb-21				
IEW SLIP ROA	D 2									
Z3_5330	SR2-1_piling works 3nr 1_5m bored pile	.00	10 07-Sep-20 A	25-Nov-20	04-Sep-20	10-Oct-20	SR2	1 piling works 3nr 1.5m bored pile		1.00
23_5340	SR2-1_pile testing	28	28 25-Nov-20	23-Dec-20	11-Oct-20	07-Nov-20		Sft2-1_pi	pasting	
23 5412	SR2-2A/B_piling works 3nr 1 5m bared pile	30	30 25-Nov-20	02-Jan-21	12-Oct-20	16-Nov-20			SR2-2A/B pilling works 3nr 1.5m bored pild	a 1
Z3_5414	SR2-2A/B_pile testing	28	28 02-Jan-21	30-Jan-21	17-Nov-20	14-Dec-20				SF2-2
LIFT TOWER 2 8	& STAIRCASE									
Z3_3680	L2-PC1_ELS & pile can construction	30	30 08-Jan-21	16-Feb-21	29-Oct+20	02-Dec-20				-
Z3_3790	L2S-PC3_ELS & pile cap construction	30	30 01-Dec-20	08-Jan-21	21-Sep-20	28-Oct-20			L2S-PC3_ELS & pile cap constr	ruction
NEW SUP ROA	05									4
21_5482	SR5-2_piling works 3nr mini pile	12	11 28-Oct-20 A	12-Dec-20	04-Sep-20	17-Sep-20		SR5-2 piling works 3nr mini p	<u>22</u> ).	
ETAINING WA	LL SUBWAY				÷					19
RETAINING WAI	LL NO.1					-				
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45 01-Dec-20	26-Jan-21	16-Sep-20	10-Nov-20		4		RW 1_demotist
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	31 26-Jan-21	08-Mar-21	11-Nov+20	16-Dec-20	10			
23_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45 26-Jan-21	23-Mar-21	11-Nov-20	05-Jan-21				
RETAINING WA	LL NO.6							-		
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 606 (45m_2 side)	· 25	25 31-Oct-20	28-Nov-20	19-Sep-20	21-Oct-20	Ċ	RW6_ELS works for Bay 601 to Bay 606 (45m_2 side		
23_1218_1010	RW6_base slab construction for Bay 601 to Bay 606	48	48 16-Nov-20	13-Jan-21	07-Oct-20	03-Dec-20	÷ (*		FIW6 base slab const	ruction for Bay
23_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	72 14-Dec-20	13-Mar-21	05-Nov-20	01-Feb-21			L.	
23_1218_1050	RW6_base slab construction (or Bay 613 & Bay 614	16	16 14-Jan 21	01-Feb-21	03-Dec-20	22-Dec-20				E FOA
RETAINING WA										1
21_1218_2040	RW7_soldier pilo wall & ELS for Bay 701 to Bay 705 (62nr)	124	45 19-May-20 A	22-Doc-20	13-Jul-20	07-Dec-20		RW7_soldi	r wall & ELS for Bay 701 to Bay 705 (62m)	
Z3_1218_2050	HW7 base alab construction for Bay 701 & Bay 704	32	32 24-Nov-20	04-Jan-21	30-Oct-20	07-Dec-20			RW7 base slab construction for Bay	701 & Bay 704
Z3_1218_2060	BW7_retaining well construction for Bay 701 to Bay 704	48	46 04-Jan-21	04-Mar-21	07-Dec-20	04-Feb-21				
	ING RETAINING WALL SR3									1
Z3_4920	SRI_ELS works for Bay SR001 to Bay SR306 (67m_1 side)	19	17 24-Jul-20 A	20-Nov-20	05-Nov-20	26-Nov-20	si si	3 ELS works for Bay SR001 to Bay SR306 (67m 1 sit	e3	
23_4940	SR3_base slab construction for Bay SR301 to Bay SR306	24	24 20-Nov-20	18-Dec-20	21-Aug-20	18-Sep-20		C. Sandal International Arrows	struction for Bay SR001 to Bay SR006	
Z3_4950	SR3 retaining wall construction for Bay SR301 to SR306	36	38 18-Dec-20	02-Feb-21	18-Sep-20	03-Nov-20				s
23,4960	SR3_remove ELS & backfill for Bay SR301 to SR304	9	9 02-Feb-21	15-Feb-21	03-Nov-25	13-Nov-20				
Z3 5020	SR3_EL5 works for Bay SP007 to Bay SR311 (60m_1 side)	17		10-Dec-20	21-Aug-20	10-Sep-20		SR3_ELS works for Bay SR307 t	Bay 58311 (60m 1 side)	1
Z3_5040	SR3_base slab construction for Bay SR307 to Bay SR311	24		19-Jan-21	18-Sep-20	19-Oct-20		Grageco mena for any SH307 [		lab
23_3040	SH3_base side construction for bay Sh507 to bay Sh511	24		13-341-21	Tordeprize	19-001649			SH3_base s	lab construct
	ng Level of Effort Actual Work	♦ Milestone	a lec			TROFITT	IOISE BARRIERS ON TAI PO ROAD (SHA TIN SI	CTION) Date Rev	sion Checked App	proved
- Cindilli	-		, jnc	NO MOE	and a ni		TO BE DATIFIED ON TALEO ROAD (ONA TIN OF	06-Nov-20 3MRP DWI	2010 Tim	
<ul> <li>Actual Le</li> </ul>	evel of Effort Elfort 🖉 Remaining Work	Baseline	Milastana			0.84.	Rolling Programme (31/10/20)	100-1404-20 1014111 0441	2010 11111	

		Duration	Duration					28 29	30	31	
5050	SR3_retaining wall construction for Bay SR309 to SR311	36	36 02-	Feb-21	19-Mar-21	03-Nov-20	15-Dec-20			, , , , , , , , , , , , , , , , , , ,	-
DIFY EXISTI	IG RETAINING WALL SR4							action 1942 - 19			:
5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m, 1 side)	26	10 22-	Jun-20 A	13-Nov-20	26-Aug-20	24-Sep-20	SR4_ELS works for Bay SF	401 m Bay SR405 (90m 1 side)		
5080	SR4_base stab construction for Bay SR401 to Bay SR405	40	16 10-	A 02-81	19-Nov-20	31-Jul-20	10-Sep-20	SR4_base slab	onstruction for Bay SR401 to Bay SR405		
5090	SR4_retaining wall construction for Bay SR401 to SR405	60	54 31-	Oct-20 A	06-Jan-21	24-Aug-20	05-Nov-20			SR4_retaining wall construction for	Bay SR
5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10 06-	Jan-21	18-Jan-21	05-Nov-20	17-Nov-20			SR4 remove t	ELS & Ba
5110	SR4_ELS works for Bay SR406 to Bay SR409 (80m_1 side)	22	6 30-	Jun-20 A	19-Nov-20	25-Aug-20	19-Sep-20	SR4_ELS works	for Bay SR406 to Bay SR409 (80m, 1 side)		ter ei
5120	SR4_base slab construction for Bay SR406 to Bay SR409	12	16 10-	Aug-20 A	08-Dec-20	16-Sep-20	27-Oct-20		SIM_base slab construction for Bay 5	HAD to Bay SR409	
5130	SR4_retaining wall construction for Bay SR406 to SR409	48	48 06-	Jan-21	06-Mar-21	05-Nov-20	04-Jan-21			-	<u> </u>
DIFY EXISTI	NG SUBWAY NS30										-
4542	Demolish mainting subway & construct NS30	160	160 01-	Dec-20	21-Jun-21	16-Sep-20	31-Mar-21			i	-
K BETW	EEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)					1			1		
	IS WORKS										;
MARYPRO	GRAMME										1
J1 000	Zone 4 Stage 1 SE6 51 to 57	154	146 19-	Feb-20 A	30-Apr-21	25-Mar-20	30-Sep-20				000000
H 005	Zone 4 Stage 2 NB & SB foundation	434	336 06-	Mar-20 A	16-Dec-21	31-Mar-20	16-Sep-21				00000
J1100	Zone 4 NF66 Construction	220	185 20-	Jul-20 A	16-Jun-21	31-Jul-20	28-Apr-21				20002
U1110	Zone 4 NF40 Construction	387	258 12-	Oct-19 A	13-Sep-21	06-Jan-20	28-Apr-21				-
PARATORY	WORKS								•		1
	EXISTING ROAD/TEMPORARY ROAD										
1335	Zone 4 & 5_construct temporary road platform along Northbound	60	60 31-	Oct-20	12-Jan-21	15-Sep-20	27-Nov-20			Zone 4 & 5_construct to	mporary
TTES DIVE											
RTHBOUND		5	5.01	041.00	05-Nov-20	31-Jul-20	05 Aug 20				
,1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m			Oct-20			05-Aug-20	UU_HKT-siew cable for N4 & NF65 CH23			-
1310	UU_HKTstew cable for SEE CH2180-2300 120m	14	14 31-	Oct-20	16-Nov-20	08-Aug-20	25-Aug-20	UU_HKT-slew cable (	566 CH2180-2300 120m		
	R AND SEMI-ENCLOSURE										·····
	ION WORKS										1
RTHBOUND	N4_mini piles for N4-12 to M4-27 (108nr ver)	144	144 25	Nov-20	25-May-21	12-Oct-20	09-Apr-21				
UTHBOUND											-
_1120	SE6_mini piles for S6E1-51P (10nr var)	40	24 19	Aug-20 A	14-Dec-20	25-Aug-20	13-Oct-20	-	SEIL_mini piles for S6E1-5	P (10nr ver)	1
1540	SE6_mini piles for S6E1-58 to S6E1-69 (72nr ver)	96	67 05	Jun-20 A	08-Apt-21	28-Sep-20	23-Jan-21		·	· · · · · · · · · · · · · · · · · · ·	
E CAP AND	FOOTING										1
UTHBOUND		_		_							
1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	48 17	Nov-20	14-Jan-21	25-Aug-20	22-Oct-20			SE6_ELS for faating	/cap con
.1126	SE6_footing/tap construction S6E1-51P to S6E1-57 (7nr)	84	84 15	Jan-21	30-Apr-21	22-Oct-20	02-Feb-21			C	
DGE AND	TRUCTURE WORKS							in a second second			į.
CONTRACTOR AND A DESCRIPTION OF	WORKS FOR NF40										÷.
0_1010	Demolish existing staircase	45		-Oct-20 A	11-Dec-20	04-Aug-20	25-Sep-20		Demolish existing staircase		÷.
0_1080	Construct pile cap & part of new column	60	60 12	-Dec-20	26-Feb-21	25-Sep-20	08-Dec-20		(		-
	WORKS FOR NF66								<u>.</u>		·····-
6_1000	ELS & footing construction	40		-Jul-20 A	30-Oct-20 A	31-Jul-20	15-Sep-20	ELS & footing construction			1
6_1020	Construct the new column & columnhead	60		-Nov-20	18-Jan-21	16-Sep-20	27-Nov-20			Construct the	/ new cdl
6_1020	Erection temporary support tower	60	80 19	-Jan-21	01-Apr-21	26-Nov-20	09-Feb-21			£	
RK BETW	EEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE	5)									
LIMINARI	ES WORKS										
	DGRAMME				48.0						
U1000	Zone 5 Stage 1 SE3-2 SB foundation	291		-Feb-20 A	27-Sep-21	29-Feb-20	22-Feb-21	C			
01005	Zone 5 Stage 2 NB & SB foundation	467		-Feb-20 A	13-Jan-22	31-Mar-20	28-Oct-21	C			00000
U1907	Zone 5 Stage 2 SB slip road foundation	418	440 13	-Aug-20 A	29-Apr-22	23-Oct-20	14-Apr-22				00000
EPARATOR	YWORKS										
DIFICATION 1720	I EXISTING ROAD/TEMPORARY ROAD Zone 5-1 construct temporary road platform along Northbound	45	45 31	-Oct-20	22-Dec-20	31-Jui-20	21-Sep-20	·	Zone 5.1 cs	netruct temporary road platform along Northbour	nd
-	Zone 5-1 remove existing central barrier	21		-Dec-20	22-Jan-21	22-Sep-20	22-Oct-20				5-1_remò
_1730	enie o Cistutivas avisiund neuros	21	21 23				- Contraction			2016	
RTHBOUND	Inspirate and a second s									5 10 10 10 10 10	i
_1610	UU_CLP-slew 132kv cable for N4 CH2500-2550 50m	6	6 31	-Oct-20	06-Nov-20	31-Jul-20	06-Aug-20	UU_CLP-slew 132kv cable for N4 CH2			
. 1630	UU_HGC-slew sable for N4 CH0575-2650 75m	9	9 07	-Nov-20	17-Nov-20	29-Aug-20	08-Sep-20	UU_HGC-slaw cab	e for N4 CH2575-2650 75m	1	
		-		1				NOISE BARRIERS ON TAI PO ROAD (SHA TIN SE	Date Revi	sion Checked Apr	proved
	ng Level of Effort 🛛 🗖 Actual Work 🔷 🤇	Mileston	<b>`</b>	1 00		MIN/2 9 DI	FINIT			- PP	

iy ib	why Name	Duration	Bernaining 3MRP Start Duration	SAME PINSO	APS Start	Ara Filish	Oct	Y Nov	Dec	Jan	1
[							28	29	30	31	
Z5_1640 UU,	_NWT-slew cable for N4 CH2580-2650 70m	15	15 18-Nov-20	04-Dec-20	09-Sep-20	25-Sep-20		6	UU_NWT-slew cable for N4 CH2580-2650 70m		
Z5_1670 UU,	_HGC-slew cable for SE3 CH2450-2525 75m	9	9 31-Oct+20	10-Nov-20	13-Aug-20	22-Aug-20	1	UU_HGC-slew cable for SE3 CH2	450-2525 75m		
Z5_1680 LLL	HKT-slew cable for SE3 CH2675-2810 135m	16	16 11-Nov-20	28-Nov-20	24-Aug-20	10-Sep-20			U_HKT-slew cable for SE3 CH2675-2810 135m		
	AND SEMI-ENCLOSURE					_					
PILE FOUNDATION											
NORTHBOUND	WORKS	_									
	_mini piles for N4-29 &N4-30P (14nr ver)	56	56 05-Dec-20	11-Feb-21	26-Sep-20	03-Dec-20					_
SOUTHBOUND						_					
	3-1_site investigation for S3E1-51 to S3E1-69 (32nr)	80	36 05-May-20 A	13-Jan-21	15-Jul-20	17-Oct-20				SE3-1_site investigation	
	3-1_mini ples for 53E1-51 to S3E1-69 (122nr ver)	124	124 30-Nov-20	05-May-21	16-Sop-20	17-Feb-21				acon_site investigation	
							<u> </u>	L			
Z5_2000 SE	3-2_mini plan for S3E2-61P (8nr ver)	32	32 31-Oct-20'	07-Dec-20	07-Sep-20	15-Oc1-20		(	SE3-2_mini piles for S3E2-61P (8nr.ver)		
PILE CAP AND FOC	DTING										
NORTHBOUND		-	00 00 Dec 00		D0.000.05	11.1-0.1					
	ELS for footing/cap construction N4-29 to N4-55 (322m_2 side)	89	89 05-Dec-20	25-Mite-21	26-Sep-20	14-Jan-21					_
SOUTHBOUND				100.0							
	3-2_ELS for footing construction S3E2-51 to S3E2-00 (131m_2 side)	73		27-Jan-21	07-Sep-20	03-Dec-20		( <u> </u>			SE3-
-	3-2_looting/cap construction S3E2-51 to 61P (10nr)	210	210 14-Dec-20	31-Aug-21	22-Oct-20	10-Jul-21			0		
SOUTHBOUND SLIP											
Z5_1260 N3	ELS for looting construction N3-01 to N3-02 (30m_2 side)	17	9 01-Oct-20 A	08-Apr-21	15-Jan-21	03-Feb-21	11 11				
Z5_1270 N3	footing construction N3-01 to N3-02 (2nr)	-42	34 24-Oct-20 A	21-May-21	04-Feb-21	27-Mar-21					
Z5_1320 R4	footing construction R4-01 to R4-09 & R4-12 to R4-13 (11nr)	231	202 08-Oct-20 A	21-Jan-22	31-Mar-21	10-Jan-22					
PORTION E (ZOI	NE 5)		the second second second		-	a summer of the local division of the local					
PRELIMINARIES											
SUMMARYPROGR										17. 18. III. 199394	
TPR NORTHBOUND											
	methycrian Zone 5 Panion E. Northbound structure	336	272 11-May-20 A	30-Sep-21	31-Jul-20	16-Sep-21					
NOISE BARRIER	AND SEMI-ENCLOSURE	-									
PILE FOUNDATION											
NORTHBOUND SLI		_			_				····		•••••
	mini piles for R6-02P & R6-05P (Bre taking, 15rv ver)	96	94 27-Oct-20 A	06-Apr-21	17-Sep-20	14-Jan-21					-
PILE CAP AND FOR		_		-	_	and the owner where the party of the party o	_				
NORTHBOUND SLI											
	5_ELS for footing construction FIS-01 to PIS-09 (120m_1 side)	30	30 30-Nov-20	06-Jan-21	06-Oct-20	12-Nov-20				R5_ELS for footing construction R5-	01 to
DOADWORKS AN	D REMAINING WORKS	-								[	
GEOTECHNICAL W											
NORTHBOUND SLI											
	one 5 Portion E_IIII replacement by no-fines concrete 7SE-A/F163 (open excavation)	50	38 10-Sep-20 A	26-Feb-21	08-Oct-20	07-Dec-20					_
	5 Pontion E_III replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	50 09-Nov-20'	09-Jan-21	08-Aug-20	08-Oct-20		•		Zone 5 Portion E_fill replaceme	nt by
	s Portion =_III replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8 10-Feb-20 A	09-Nov-20	11-Sep-20	28-Oct-20		Zono 6 Partian E (ill racionament i	by no-lines concreto 7SE-A/F133 (open excavation)		••••
LOC_11/0 40	and a rorright =_intreplacement by nonnes concrete / 3c/w/r ro3 (open excevation)	30	o toned-20 X	00-1404-20	December	10000		Zone 5 Portion E_10 replacement I	of incluines concrete voe-vol-ies (oben exception)		_

A AND			0.15	DO AD MUDENING A DETROCITING NOIGE DARRIEDS ON TAL DO ROAD (SHA TAL SECTION)	Date	Revision	Checked	Approved
Remaining Level of Effort	Actual Work	0	Milestone	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)	06-Nov-20	3MRP DWP 2010	Tim I	
Actual Level of Effort	Remaining Work	٠	<ul> <li>Baseline Milestone</li> </ul>	3 Months Rolling Programme (31/10/20)		10.000 0.000		
		-						
Primary Baseline	Critical Remaining Work			Page 5 of 5				
					· · · · · · · · · · · · · · · · · · ·			

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

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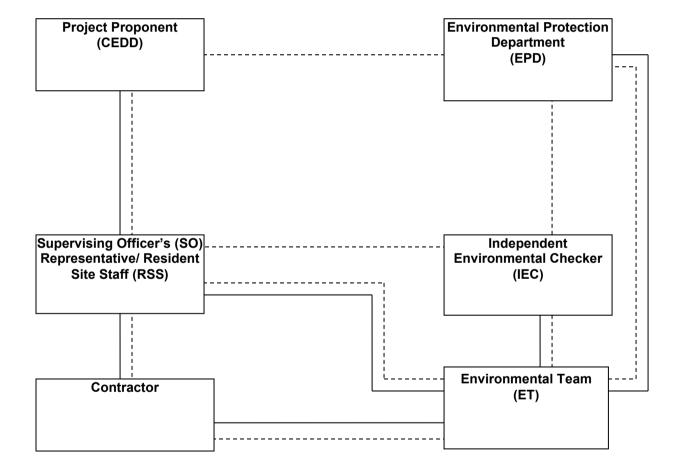


Appendix B

**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





Legend:								
Line of Reporting								
Line of Communication								

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



Appendix C

Action and Limit Levels for Air Quality and Noise

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



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

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)		
	AMS 6	165			
24-hr TSP	AMS 8	161	260		
(µg/m³)	AMS 11	165	200		
	AMS 13A	174			
	AMS 6	347			
1-hr TSP	AMS 8	336	500		
(µg/m³)	AMS 11	335	500		
	AMS 13A	303			

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

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1 NMS2 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS7 NMS10A* NMS10A* NMS10A* NMS10A* NMS10A* NMS12* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS15 NMS16 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS25A 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.

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



Appendix D

**Calibration Certificates of Monitoring Equipment** 



Report no.: 940891CA201915(2)

Page 1 of 1

# 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.	: 761106
Specification Limit	: NA
Next Calibration Date	: 13-Aug-2021

#### Laboratory Information

Description	:	Reference balance	
Equipment ID.	:	R-039-12	
Date of Calibration	÷	14-Aug-2020	Ambient Temperature : 33 °C
Calibration Location	·	Calibration Laboratory of FTS	5
Method Used	•	By direct comparison the wei	ght 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)
0.0632	1555	25.92
0.0687	1627	27.12
0.0543	1456	24.27

#### 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 = 0.002409
- 3. Correlation coefficient (r) : 0.9990

Checked by: Churry Date: lb - 9 - 2020 Certified by:  $c_1 - 7 - 2020$  Date: 2l - 9 - 2020CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

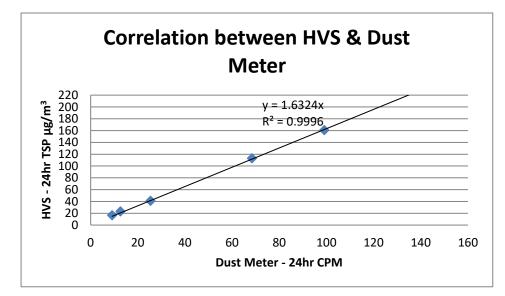
\*\* End of Report \*\*

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Correlation between HVS & Dust MeterModel:Sibata LD-5RSerial No:761106

HVS - 24hr TSP µg/m <sup>3</sup>	16.56	23.11	41.02	112.97	160.87	220.44
Dust Meter - 24hr CPM	9.1	12.6	25.4	68.4	99.1	135.2



K factor = 1.6324



Report no. : 940891CA201915

Page 1 of 1

# 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.	: 892187
Specification Limit	: NA
Next Calibration Date	: 13-Aug-2021

#### Laboratory Information

Description	:	TSP high volume air sample	r		
Serial no.	:	4350			
Date of Calibration	:	14-Aug-2020	Ambient Temperature : 33 °C		
Calibration Location	ŝ	Ma Wan A1 Site Boundary			
Method Used	3	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 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)
0.0632	1573	26.22
0.0687	1608	26.80
0.0543	1473	24.55

#### Remarks:

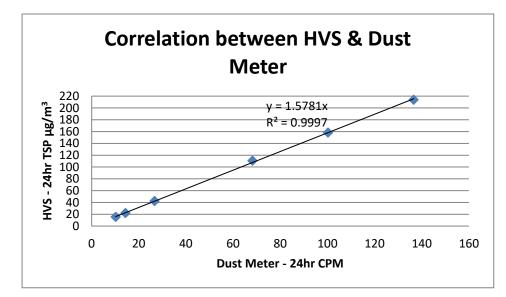
1. The equipment being used in this calibration is traceable to recognized National Standards.

- 2. The interpolation equation : Concentration (mg/m<sup>3</sup>) = K x [UUT reading (CPM)], where K = 0.002401
- 3. Correlation coefficient (r): 0.9908

Checked by :\_\_\_\_\_ Date :\_\_\_\_\_

Correlation between HVS & Dust MeterModel:Sibata LD-5RSerial No:892187

HVS - 24hr TSP µg/m <sup>3</sup>	15.66	22.08	42.33	110.54	158.23	213.93
Dust Meter - 24hr CPM	10.2	14.3	26.7	68.2	100.2	136.5



K factor = 1.5781



Report no.: 940891CA201915(1)

Page 1 of 1

# 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.	: 892189
Specification Limit	: NA
Next Calibration Date	: 13-Aug-2021

#### Laboratory Information

Description	:	TSP high volume air sample	r
Serial no.	:	4350	
Date of Calibration	:	14-Aug-2020	Ambient Temperature : 33 °C
Calibration Location	:	Ma Wan A1 Site Boundary	
Method Used	:	By direct comparison the wei	ght 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)		
0.0632	1507	25.12		
0.0687	1541	25.68		
0.0543	1458	24.30		

#### 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 = 0.002479
- 3. Correlation coefficient (r) : 0.9995

# Checked by :\_\_\_\_\_ Date :\_\_\_\_\_ Date :\_\_\_\_\_ Certified by :\_\_\_\_\_ K \_\_\_\_ Date :\_\_\_\_\_ Date :\_\_\_\_\_ Date :\_\_\_\_\_ Date :\_\_\_\_\_ Leung Kwok Tai (Assistant Manager)

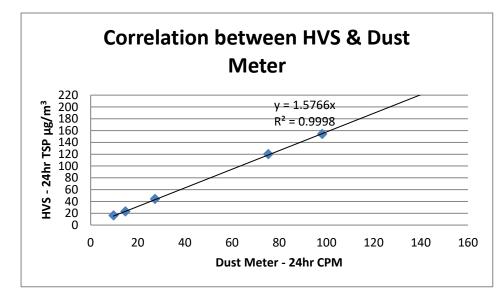
\*\* End of Report \*\*

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Correlation between HVS & Dust MeterModel:Sibata LD-5RSerial No:892189

HVS - 24hr TSP µg/m <sup>3</sup>	16.45	23.11	44.23	120.03	154.34	220.37
Dust Meter - 24hr CPM	9.7	14.7	27.3	75.3	98.2	140.2



K factor = 1.5766



Report no.: 940891CA196546(4)

Page 1 of 1

# 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	: 05-Dec-2020

## Laboratory Information

Description	1	Reference balance				
Equipment ID.	•	R-039-12				
Date of Calibration	:	06-Dec-2019	Ambient Temperature : 22 °C			
Calibration Location	:	Calibration Laboratory of FTS	3			
Method Used	:	By direct comparison the wei	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 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)		
0.0393	1260	21.00		
0.0681	1519	25.32		
0.0504	1327	22.12		

#### **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 = 0.002306

3. Correlation coefficient (r) : 0.9906

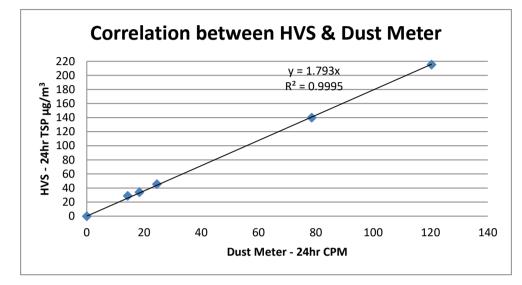
Checked by :	com	_ Date : 17 - 12 - 2019	_Certified by :	K T Loung	Date :	18-12-2019
CA-R-297 (22/07/20	09)		Leung Kw	ok Tai (Assistant I	Vanager)	

\*\* End of Report \*\*

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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



#### Report no.: 203258CA201298(4)

## 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	:	Casella		
		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488293	04064	004061
Equipment ID	:	N/A		
Next Calibration Date	:	14-Jul-2021		
Specification Limit EN 61672-1: 2003 Class 1				

#### Laboratory Information

#### **Details of Reference Equipment -**

Description :	B & K Acoustic Multifunction Calib	orator 4226 (Traditional free f	field setting)
Equipment ID.	R-108-1		
Date of Calibration :	15-Jul-2020		
Calibration Location :	Calibration Laboratory of FTS	Ambient Temperature :	20±2 °C
Method Used :	By direct comparison		

#### **Calibration Results :**

• wither a with the test in the second					
Paramet	ters	Mean Value (dB)	Specification Limit(d		
	4000Hz	0.9	2.6	to	-0.6
	2000Hz	1.1	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing	500Hz	-3.4	-1.8	to	-4.6
frequency response	250Hz	-8.7	-7.2	to	-10.0
reepenee	125Hz	-16.1	-14.6	to	-17.6
	63Hz	-26.1	-24.7	to	-27.7
	31.5Hz	-39.0	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	3
	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 UUT complies with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	hilliam	Date :	21-7-2020				
CA-R-297 (22/07/2009)				Leung I	Kwok Tai (Assista	nt Manager)	
			** E	and of Report **	$\sim$		

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#### Report no.: 183057CA196552(1)

## 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	Casella	

		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488271	02695	003527
Equipment ID	:	N-52		
Next Calibration Date	:	19-Dec-2020		
Specification Limit	:	EN 61672: 2003 Type 1		

#### Laboratory Information

#### **Details of Reference Equipment -**

Description	:	3 & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)					
Equipment ID.	:	R-108-1					
Date of Calibration :	:	20-Dec-2019					
Calibration Location	<b>i</b> :	Calibration Laboratory of FTS	Ambient Temperature :	22	°C		
Method Used	:	By direct comparison					

#### **Calibration Results :**

Parame	ters	Mean Value (dB)	Specification Limit		
	4000Hz	-0.3	2.6	to	-0.6
	2000Hz	0.5	2.8	to	-0.4
	1000Hz	-0.3	1.1	to	-1.1
A-weigthing frequency response	500Hz	-3.5	-1.8	to	-4.6
	250Hz	-8.9	-7.2	to	-10.0
	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.4	-24.7	to	-27.7
	31.5Hz	-39.3	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	;
	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 UUT complies 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 values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	Lulliam	Date :	30 - 12 - 2019 Certified by :	K J. Loung	Date :	30-12-2019
CA-R-297 (22/07/2009)		Leung	Kwok Tai (Assistan	t Manager	r)	
			** End of Report **			

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#### Report no.: 203258CA202302(3)

## **CALIBRATION CERTIFICATE OF SOUND LEVEL METER**

Page 1 of 1

# **Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description	: Sound Level Meter
	<b>o</b> "

Manufacturer	:	Casella		
		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	2451048	00995	003341
Equipment ID	:	N/A		
Next Calibration Date	:	29-Oct-2021		

Specification Limit : EN 61672-1: 2003 Class 1

#### Laboratory Information

Details of Reference Equipment -

Description :	:	B & K Acoustic Multifunction Calib	rator 4226 (Traditional fr	ree	field setting)
Equipment ID. :	:	R-108-1			
Date of Calibration	;	30-Oct-2020			
Calibration Location	:	Calibration Laboratory of FTS	Ambient Temperature	:	20±2 °C
Method Used	:	By direct comparison	Relative Humidity	:	<80% R.H.

#### Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB		Limit(dB)
	4000Hz	0.8	2.6	to	-0.6
	2000Hz	1.1	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing frequency response	500Hz	-3.3	-1.8	to	-4.6
	250Hz	-8.7	-7.2	to	-10.0
	125Hz	-16.1	-14.6	to	-17.6
	63Hz	-26.2	-24.7	to	-27.7
	31.5Hz	-39.1	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	6
	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 UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	Lelliam	Date :	4-11-2020	_ Certified by : _	K.T. Joung	_Date :	4-11-2020
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)							
** End of Report **							

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Report no.: 183057CA196552(2)

# CALIBRATION CERTIFICATE OF SOUND LEVEL METER

#### **Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

## Details of Unit Under Test, UUT

Sound Level Meter	Sound Level Meter				
Casella					
Meter	Microphone	Preamplifier			
CEL-63X	CE-251	CEL-495			
1488306	03999	002748			
N-56					
: 19-Dec-2020					
EN 61672: 2003 Type	1				
	Casella Meter CEL-63X 1488306 N-56 19-Dec-2020	Meter         Microphone           CEL-63X         CE-251           1488306         03999           N-56			

#### Laboratory Information

#### **Details of Reference Equipment -**

Description :	B & K Acoustic Multifunction Calib	orator 4226 (Traditional free fie	eld set	ting)
Equipment ID.	R-108-1			
Date of Calibration :	20-Dec-2019		100 Marcal	0
Calibration Location :	Calibration Laboratory of FTS	Ambient Temperature :	22	°C
Method Used	By direct comparison			

#### **Calibration Results :**

Parameters		Mean Value (dB)	Specification Limit(		
	4000Hz	1.3	2.6	to	-0.6
	2000Hz	1.3	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing frequency response	500Hz	-3.4	-1.8	to	-4.6
	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
	31.5Hz	-39.3	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	6
	104dB-114dB	0.0		± 0.6	6

#### **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 UUT complies 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 values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	Ullian [	Date : <u>30 -12 - 70(9</u>	_ Certified by : _	F J. Jeung	Date : _	30-12-2019
CA-R-297 (22/07/2009)			Leung I	Kwok Tai (Assistan	t Manager)	)
e		** E	nd of Report **			



# Certificate of Conformity and Calibration

Instrument Model:-	CEL-633A					
Serial Number Firmware revision	1488303 V006-03					
<u>Microphone Type:-</u> Serial Number	<b>CEL-251</b> 2849		nplifier Type:- I Number	CEL-495 003415		
Instrument Class/Type:-	1					
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)						
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.						
52.	5 °C 2 %RH 9 mBar	Test Engineer:- Date of Issue:-	Chris Chesney September 4, 202	20		

#### 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.

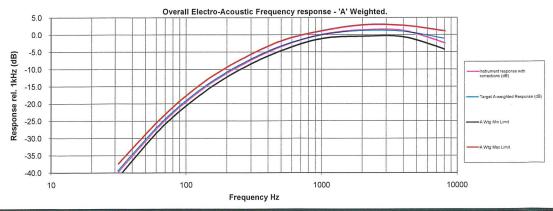
#### Test Summary:-

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.



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



5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA202302(1)

Page 1 of 1

# **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	:	Casella	
		Meter	
Model No.	:	CEL-63X	

		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488295	02795	003538
Equipment ID	:	N-54		

Next Calibration Date		29-Oct-2021
Specification Limit	:	EN 61672-1: 2003 Class 1

#### Laboratory Information

Details of Reference Equipment -

Description :		B & K Acoustic Multifunction Calib	rator 4226 (Traditional fr	ee	field setting)
Equipment ID. :		R-108-1			
Date of Calibration	;	30-Oct-2020			
Calibration Location	:	Calibration Laboratory of FTS	Ambient Temperature	:	20±2 °C
Method Used		By direct comparison	Relative Humidity	:	<80% R.H.

#### **Calibration Results :**

Paramet	ters	Mean Value (dB)	Specification Limit(dB)		
	4000Hz	1.0	2.6	to	-0.6
	2000Hz	-0.2	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing frequency	500Hz	-3.3	-1.8	to	-4.6
response	250Hz	-8.7	-7.2	to	-10.0
	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.1	-24.7	to	-27.7
	31.5Hz	-38.7	-37.4	to	-41.4
Differential level	94dB-104dB	0.0		± 0.6	6
linearity	104dB-114dB	0.1		± 0.6	6

#### **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 UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	Lilliam	Date :	4-11-2020	_ Certified by : _	K.T. Toung	_ Date : _	4.11.2020
CA-R-297 (22/07/2009	)			Leung	Kwok Tai (Assista	nt Manager	)
			** E	nd of Report **			



Page 1 of 1

Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA201566(2)

#### CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd.

## Project : Calibration Services

## **Client Supplied Information**

#### Details of Unit Under Test, UUT

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	4358251
Equipment ID	:	N/A
Next Calibration Date	:	12-Aug-2021
Specification Limit	;	EN 60942: 2003 Class 1

#### Laboratory Information

#### Details of Calibration Equipment

Description :	Reference Sound level meter	
Equipment ID.	R-119-1	
Date of Calibration :	13-Aug-2020	
Calibration Location :	Calibration Laboratory of FTS	Ambient Temperature : 20±2 °C
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	-0.2 dB	10.400

#### 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. Any uncertainties quoted 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 : Killiam	Date : <u>(8 - 8 -2020</u> Certified by : <u>K</u>	To Tenny Date: 20 - 8 - 2000
CA-R-297 (22/07/2009)	Leung Kwo	k Tai (Assistant Manager)



Report no.: 203258CA202146(1)

# **CALIBRATION CERTIFICATE OF SOUND CALIBRATOR**

Page 1 of 1

Client : Fugro Technical Services Ltd.

Project : Calibration Services

## **Client Supplied Information**

#### **Details of Unit Under Test, UUT**

Description		:	Sound Calibrator
Manufacturer		:	Casella (Model CEL-120/1)
Serial No.		:	2383852
Equipment ID		:	N/A
Next Calibration Date	:	14-	Oct-2021
Specification Limit	:	ΕN	60942: 2003 Class 1

## Laboratory Information

#### **Details of Calibration Equipment**

Description :	Reference Sound level meter	
Equipment ID. :	R-119-1	
Date of Calibration :	15-Oct-2020	
Calibration Location :	Calibration Laboratory of FTS	Ambient Temperature : 20±2 °C
Method Used :	By direct comparison	Relative Humidity : <80% R.H.

## Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	-0.2 dB	10.4dD	
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 unit under test complies 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. Any uncertainties quoted 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 :	Lilliam	Date :	19-10-2020	_Certified by :_	K Th Toung	Date :_	19-10-2020
CA-R-297 (22/07/2009	9)			Leung	g Kwok Tai (Assista	ant Manag	er)



Report no.: 203258CA201871(1)

# CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Page 1 of 1

Client : Fugro Technical Services Ltd.

Project : Calibration Services

#### **Client Supplied Information**

Details of Unit Under Test, UUT

Description		: Sound Calibrator
Manufacturer		: Casella (Model CEL-120/1)
Serial No.		: 5230736
Equipment ID		: N-18
Next Calibration Date	:	07-Sep-2021
Specification Limit	:	EN 60942: 2003 Class 1

#### Laboratory Information

#### Details of Calibration Equipment

Description	:	Reference Sound level meter	
Equipment ID.	:	R-119-1	
Calibration Date		08-Sep-2020	
Calibration Location	n :	Calibration Laboratory of FTS	Am
Method Used	:	By direct comparison	Rela

Ambient Temperature	: 20±2 °C
Relative Humidity	:: <80% R.H.

## Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	0.1 dB	±0.4dB	
114dB	0.2 dB	20.100	

#### 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 unit under test complies 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. Any uncertainties quoted 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 :	Lilliam	Date :	_ Certified by :_	K J. Joung	Date : 12-9-2020
CA-R-297 (22/07/2009	))		Leung	, Kwok Tai (Assista	ant Manager)



Page 1 of 1

Report no.: 183057CA200894(2)

## 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 CEL-120/1)
Serial No.	÷	4358289
Equipment ID	:	N/A
Next Calibration Date	;	14-Jun-2021
Specification Limit	:	EN 60942: 2003 Type 1

#### Laboratory Information

Description	:	Reference Sound level			
Equipment ID. : R-119-1					
Date of Calibrat	tion	: 15-Jun-2020	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	-0.3 dB	±0.4dB
114dB	-0.3 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.
- 4. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : Killiam	_ Date : 20-6-2020 Certified by : PL Leung Date : 20-6-2020
CA-R-297 (22/07/2009)	Leung Kwok Tai (Assistant Manager)
	** [] -5 [

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



Appendix E

Environmental Monitoring Schedules, Examination Schedules and Arrangements on Deferral of Class Resumption for All Schools

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6	7
				AMS6 Shatin Plaza			
				AMS8 Lek Yuen Estate			
				AMS11A Sheung Wo Che			
				AMS13 Fung Wo Estate			
			NMS 8, NMS9, NMS 10A, NMS 11, NMS	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,			
			12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
			NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27			
	8	9	10	11	12	13	14
			AMS6 Shatin Plaza				
			AMS8 Lek Yuen Estate				
			AMS11A Sheung Wo Che				
			AMS13 Fung Wo Estate				
		NMS 8, NMS9, NMS 10A, NMS 11, NMS	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,				
		12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 6A, NMS 7, NMS 15, NMS 16, NMS				
		NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27				
	15	16	17	18	19	20	21
		AMS6 Shatin Plaza					AMS6 Shatin Plaza
		AMS8 Lek Yuen Estate					AMS8 Lek Yuen Estate
Nov-20		AMS11A Sheung Wo Che					AMS11A Sheung Wo Che
1107-20		AMS13 Fung Wo Estate					AMS13 Fung Wo Estate
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,					
		NMS 6A, NMS 7, NMS 15, NMS 16, NMS					
			NMS 20, NMS 24, NMS 25A, NMS 26				
	22	23	24	25	26		28
						AMS6 Shatin Plaza	
						AMS8 Lek Yuen Estate	
						AMS11A Sheung Wo Che	
						AMS13 Fung Wo Estate	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	
						NMS 6A, NMS 7, NMS 15, NMS 16, NMS	
1					NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27	
	29	30					
1							
1							
			sofaty concern or advance weather condition				

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 Nov 2020 are north, north east and east.

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

(1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 2, 3, 4 & 5.

(4) Backfilling for underground utilities trench in Zone 1 & 2.

- (5) Pile Cap Construction Works in Zone 1, 2 & 3.
- (6) Trial Pits Excavation in Zone 3, 4 & 5.

(7) Underground utilities detections in Zone 3, 4 & 5.

(8) Noise Barrier Foundation Works in Zone 3 & 5.

(9) Lagging wall and Retaining wall in Zone 3.

(10) Construction/ Diversion of underground utilities in Zone 3.

(11) Relocation of Traffic Light in Zone 3.

(12) Soldier Pile Construction Works in Zone 3.

(13) Pre Bored H Pile Construction Works in Zone 3.

(14) Pier Construction Works in Zone 3.

(15) Demolition of Central Median, and T emporary Median Module Installation Works in Zone 3 & 4.

(16) Demolition of NF40 Footbridge Existing Staircases in Zone 4.

(17) NF66 Footbridge Footing Construction Works in Zone 4.

(18) Soil Replacement Works on Slope in Zone 5.

<sup>(2)</sup> Pre-drill works in Zone 1 & 2.

<sup>(3)</sup> Mini pile Works in Zone 1, 4 & 5.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4	5
					AMS4A Wai Wah Centre		
					AMS5 Tin Liu		
					AMS7A Sheung Wo Che		
					AMS12 Fung Wo Estate		
				NMS 8, NMS9, NMS 10A, NMS 11, NMS	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,		
				12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 6A, NMS 7, NMS 15, NMS 16, NMS		
				NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27		
	6	7	8	Nino 20, Nino 24, Nino 25A, Nino 20	10,11015 25, 11015 27	11	1'
	Ĭ	,		AMS4A Wai Wah Centre	10	**	
				AMS5 Tin Liu			
1				AMS7A Sheung Wo Che			
				AMS12 Fung Wo Estate			
			NMS 8, NMS9, NMS 10A, NMS 11, NMS				
			12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 1, NMS 2, NMS 5, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
			NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27			
Dec-20	13	14	10	16	17	18	-
			AMS4A Wai Wah Centre				AMS4A Wai Wah Centre
			AMS5 Tin Liu				AMS5 Tin Liu
			AMS7A Sheung Wo Che				AMS7A Sheung Wo Che
			AMS12 Fung Wo Estate				AMS12 Fung Wo Estate
		NMS 8, NMS9, NMS 10A, NMS 11, NMS					
		12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 6A, NMS 7, NMS 15, NMS 16, NMS				
		NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27				
	20	21	22	23		. 25	2
					AMS4A Wai Wah Centre		
					AMS5 Tin Liu		
					AMS7A Sheung Wo Che		
					AMS12 Fung Wo Estate		
				NMS 8, NMS9, NMS 10A, NMS 11, NMS			
				12, NMS 13, NMS 14, NMS17, NMS 19,	NMS 6A, NMS 7, NMS 15, NMS 16, NMS		
				NMS 20, NMS 24, NMS 25A, NMS 26	18,NMS 23, NMS 27		
	27	28	29		31		
				AMS4A Wai Wah Centre			
				AMS5 Tin Liu			
				AMS7A Sheung Wo Che			
				AMS12 Fung Wo Estate			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	NMS 8 NMS9 NMS 104 NMS 11 NMS		
				NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
					NMS 20, NMS 24, NMS 25A, NMS 26		
		nitoring may be subjected to change due to any		10,1110 23, 1110 27	INIVIS 20, INIVIS 24, INIVIS 25A, INIVIS 20		I

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 Dec 2020 are north, and north east.

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

- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 3, 4 & 5.
- (2) Mini Pile Works in Zone 1,2, 4 & 5.

(3) Noise Barrier Footing and Pile Cap Construction Worksin Zone 1, 2, 3 & 5.

(4) Trial Pits Excavation in Zone 3, 4 & 5.

(5) Construction / Diversion of Underground Utilities in Zone3, 4 & 5.

(6) Retaining Wall Construction Works and Demolition of Existing Parapet in Zone 3.

- (7) Bored Pile Construction Worksin Zone 3.
- (8) Lagging wall and Retaining wall in Zone 3.

(9) Relocation of Traffic Light in Zone 3.

(10) Soldier Pile Construction Works in Zone 3.

(11) Pre Bored H Pile Construction Works in Zone 3.

(12) Column Construction Works in Zone 3.

(13) NF66 Footbridge Column Construction Works in Zone 4.

(14) Demolition of Central Median, and Temporary Median Module Installation Works in Zone 3 & 4.

(15) Demolition of NF40 Footbridge Existing Staircases in Zone 4.

(16) Construction of temporary road in Zone 5.

(17) Soil Replacement Works on Slope in Zone 5.

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)

# **Regular Night Time Noise Monitoring Schedule (November 2020)**

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

#### Remarks

- 1. Due to safety concern, 2 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.

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 (December 2020)**

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

# Remarks

- 1. Due to safety concern, 2 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.

聖公會主風小學 2020-2021 年度上學期校曆表

週次	月份			屋	Ţ	期			行事要項	假 期 日
		日			<u> </u>	匹	Ŧ.	六		數
( <b>1</b> )	2020			1 <b>*</b>	2	3	4	5	1/9 上學期開學日	
(2)	九	6	7	8	9	10	11	12		
(3)	月	13	14	15	16	17	18	19		
( <b>4</b> )		20	21	22	23	24	25	26		
(5)		27	28	29	30					
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$						1	2	3	1/10 國慶日 2/10 中秋節翌日	2
(6)	+	4	5	6	7	8	9	10		
( <b>7</b> )	· 月	11	12	13	14	15	16	17		
8	/ 3	18	19	20	21	22	23	24		
(9)		25	26	27	<u>28</u>	<u></u> <u>29</u>	<u>30</u>	31	26/10 重陽節翌日 27/10-30/10 進展性評估	1
(10)		1	2	3	4	5	6	7		-
	+	8	9	10	11	12	13	, 14*	14/11 上學期家長日、J.6 家長會	
(12)		15	16	17	18	12	20	21		
13	月	22	23	24	25	26	20	21		
(14)	Л	22	<sup>23</sup> 30	24	23	20	<i>L</i>	20		
<b>U4</b>		29	30	1*	2	3	4	5		1
$\bigcirc$				-	2		-	-	<ul><li>1/12 第十四屆陸運會 2/12 陸運會翌日假期</li><li>9/12 教師專業發展日</li></ul>	
(15)	+	6	7	8	9*	<u>10</u>	<u>11</u>	12	10/12-15/12 上學期學期試 (J.6 呈分試)	
16)	1	13	<u>14</u>	<u>15</u>	16	17	18	19		
(17)	月	20	21	22	23	24	25	26	22/12/2020-2/1/2021 聖誕及新年假期	5
18)		27	28	29	30	31				5
	2021						1	2		2
(19)	<b></b>	3	4	5	6	7	8	9		
(20)	月	10	11	12	13	14	15	16*	16/1 四十五周年校慶開放日暨文娛匯演	
20 21		17	18	19	20	21	22	23	18/1 校慶開放日後假期	1
22		24	25	26	27	28	29	30		
$\smile$		31								1
	1		1*	2	3*	4 <b>*</b>	5*	6	1/2 下學期開始 3/2-5/2 教育營(J.6) 5/2 旅行日(J.1-J.5)	
	月	7	8	9	10	11	12	13	8/2-17/2 農曆新年假期	6
	, J	14	15	16	17	18	19	20		4
										1 -

# 本年度關注事項

1 完善校本課程規劃,促進學與教效能。 2 透過多元化策略,培養學生自律精神。 3 深化生命教育,培育學生正向人生觀。

2020-2021 年度校曆表

	周次	日	-	11	Щ	四	五	六	假 期 / 事 項
ゆー	1			1	2	3	4	5	上學期開始(1/9)
二零二零年九	1:	6	7	8	9	10	11	12	
零年	щ	13	14	15	16	17	18	19	
	四	20	21	22	23	24	25	26	
月	五	27	28	29	30				
						$\times$	X	3	國慶日(1/10) 中秋節翌日(2/10)
+	六	4	5	6	7	8	9	10	
	セ	11	12	13	14	15	16	17	零功課日(13/10)
月	へ	18	19	20	21	22	23	24	
	九	25	26	27	28	29	30	31	重陽節補假(26/10)
	+	1	2	3	4	5	6	7	
+	+-	8	9	10	11	12	13	14	
-	+=	15	16	17	(18)	(19)	20	21	一至六年級考試(18-20,23,24/11)
月	+三	22	23	24	25	26	27	28	
	十四	29	30						
				1	2	3	4	5	
+	十五	6	7	8	9	10	11	12	
-	十六	13	14	15	16	17	18	19	全方位學習日(18/12)
月	++	20	21)	22	23	24	25	26	聖誕崇拜(21/12) 聖誕及新年假期(22/12-3/1)
	十八	27	28	29	30	X			
11							$\times$	X	
零二	十九	X	Å	5	6	7	8	9	教師專業發展日(4/1) P.6家長日(9/1)
零二一年一	<u></u> +	10	11	12	13	14	15	16	P.1-5 家長日(16/1)
	<u> </u>	17	18	19	20	21	22	23	零功課日(20/1)
月	<u> </u>	24	25	26	27	28	29	30	學校籌款日(24/1) 學校假期(25/1)
	學校假	期		教師專	業發展	夷日,	學生不	用上言	课 〇半天上課

星期六不用上課

	周								
	次	日	-	-1	11	四	五	六	假期/事項
	ニナミ	31	1	2	3	4	5	6	跨學科活動日(4/2) 陸運會(5/2)
-	二十四	7	X	X	X	X	X	X	農曆新年假期(8/2-17/2)
	二十五	M	X	K	X	18	19	20	下學期開始(18/2)
月	二十六	21	22	23	24	25	26	27	
	ニキセ	28							
			1	2	3	4	5	6	六年級報分試(3-5,8,9/3)
Ξ	二十八	7	8	9	10	11	12	13	一至五年級主科考試(8-9/3)
	二十九	14	15	16	17	18	19	20	
月	三十	21	22	23	24	25	26	27	學校旅行(25/3)學校假期(26/3)
	三十一	28	29	30	X				福音周及復活節崇拜(29-30/3)
						$\times$	X	X	復活節及清明節假期(31/3-6//4)
四	三十二	$\left  \right\rangle$	X	X	7	8	9	10	六年級教育營(7/4-9/4) 一至五年級專題研習問(7-12/4)
	三十三	11	(12)	13	14	15	16	17	家長日(17/4)
月	三十四	18	19	20	21	22	23	24	
	三十五	25	26	27	28	29	30		<b>綵排日(29/4) 綜藝晚會(30/4)</b>
								$\times$	勞動節(1/5)
五	三十六	2	3	4	5	6	7	8	零功課日(7/5)
	三十七	9	10	11	12	13	14	15	
月	三十八	16	17	18	19	20	21	22	佛誕(19/5)
	三十九	23	24	25	26	27	28	29	教師專業發展日(28/5)
	四十	30	31						
				1	2	3	<u>(4)</u>	5	一至六年級考試(2-4,7,8/6)
六	四十一	6	7	8	9	10	(11)	12	全港性系統評估(10-11/6)
	四十二	13	$\mathbb{M}$	(15)	(16)	17	18	19	端午節(14/6)
月	四十三	20	21	22	23	24	25	26	
	四十四	27	28	29	30				畢業禮(30/6)
						$\times$	>	3	香港特區成立紀念日(1/7) 學校假期(2/7)
セ	四十五	4	5	6	(7)	8	9	10	
	四十六	11	12	X	$\bowtie$	X	X	$\mathbb{X}$	教師專業發展(12/7) 暑假(13/7-31/8)
月	四十七	18	X	20	X	X	23	24	
	四十八	25	26	$\mathbb{X}$	28	29	30	X	
	四十九	X	$\left \right\rangle$	X	$\left  \right\rangle$	$\nearrow$	X	$\nearrow$	
へ	五十	8	X	XQ	X	X	X	$\bowtie$	
	五十一	K	X	X	78	X	20	X	
月	五十二	22	23	24	25	26	X	28	
	五十三	29	30	X					

# 培英中學2020至2021年度校曆表

		H	1	=	Ξ	四	五	六	假期及注意事項
週		(16)	(17)	(18)	(19)	(20)	(21)	(22)	
次	へ	(10)	(17)	(10)	(19)	(20)	(21)	(22)	
	月	(23)	(24)	(25)	(26)	(27)	(28)	(29)	
		(-)	· ,		( -/	× · /	( - )		
		(20)	(21)	Sept					(1/9)開學禮
1	九	. ,	(31)	1	2	3	4		(2/9)正式上課
2		6 13	7 14	8 15	9 16	10 17	11		(9/9)各班拍攝學生相片 (14/0)中 五中一舉小問以做立用社
3	月	20	21	22	23	24	18 25		<ul><li>(14/9)中一至中四學生開始繳交周記</li><li>(21-25/9)國慶活動暨中國周</li></ul>
-		20	21	22	23	Oct	23	20	(21-23/9)國慶洛動暨平國局 (28-30/9)體育推廣
5	+	27	28	29	30	(1)	(2)	3	(1/10)國慶日假期 (2/10)中秋節翌日假期
			_						
6		4	5	6	7	8	9	10	
-		11	10	12	1.4	1.5	10	17	(12-16/10)科學周
7		11	12	13	14	15	16	17	(16/10)學生領袖就職典禮
8		18	19	20	21	22	23	24	
9	月	25	(26)	27	28 <sup>T</sup>	29 <sup>т</sup>	30 <sup>T</sup>	31	(26/10)重陽節翌日假期 (27/10)教師專業發展日(1)
		Nov		)					(28/10-3/11)中一至中六級統一測驗
10	+	1	2 <sup>т</sup>	3 <sup>T</sup>	4	5	6	7	
11	·	8	9	10	11	12	13	14	(9-13/11)數學周
12	-	$15^{\triangle}$	16	17	10	19	200	21	(15/11)南區中學巡禮 (20/11)全方位學習日
12		15-	16	17	18	19	$20^{ riangle}$	21	(21/11下午)家長教師會第二十三屆會員大會
13	月	22	23	24	25	26	27	28	
									(25-26/11)中一、二級護苗課程 (27/11)師生聯誼日
				Dec					(30/11-1/12)中一、二級護苗跟進課程
14	+	29	30	1	2	3△	(4)		(3/12)第六十二屆陸運會 (4/12)陸運會翌日假期
15		6	7	8	9	10	11	12	(7-11/12)科技周
	-								<ul><li>(8/12)拍攝畢業照及班相 (12/12)中西南區小學數學比賽</li><li>(17-21/12)中六級校外模擬考試</li></ul>
16		13	14	15	16	17	18		(17-21/12)年六級役外候擬考試 (14-18/12)福音周 (18/12)佈道會
10	月	15	14	15	10	17	10	17	(14-10/12)福自问 (10/12)师道曾 (18/12晚上)家長教師會聖誕聯歡會
17	~	20	21	22	(23)	(24)	(25)	(26)	(22/12)聖誕崇拜及慶祝會 (23/12-2/1)聖誕及新年假期共11天
							Jan		
18	-	(27)	(28)	( <b>29</b> )	(30)	(31)	(1)	(2)	(23,24,28,29,30/12)中六級補課
19		3	4	5	6 <sup>E</sup>	7 <sup>E</sup>	8 <sup>E</sup>	9	(6-15/1)中一至中五級上學期期考共8天 (6-19/1)中六級畢業試
20		10	11 <sup>e</sup>	12 <sup>E</sup>	13 <sup>e</sup>	14 <sup>E</sup>	15 <sup>E</sup>	16	
21		17	18 <sup>E</sup>	19 <sup>e</sup>	20	21	22	23	(18-20/1)中一至中五級試後回饋日 (20/1下午)中五級學習概覽講座
									(20/1-5/3)中六級試後上課日
22	月	24	25	26	27	28	29	30	
$\vdash$			FEB						(22-29/1)中一至中五級上學期溫習及補考 (1/2)工舉曲問以
23		31	гев 1	2	3	4	5		<ul><li>(1/2)下學期開始</li><li>(1-5/2)英語周</li><li>(3/2)中六級進行APASO問卷</li></ul>
24	-	7	1 (8)	2 (9)			( <b>12</b> )	(13)	(1-3/2) 共 結 同 (3/2) 十 六 級 進 行 APASO 同 卷 (8/2-20/2) 農 曆 新 年 假 期 共 13 天
25		(14)					(19)	(20)	
		. /							(26/2)教師專業發展日(2)
26	月	21	22	23	24	25	(26)	27	(22/2)中一至中四級學生開始繳交周記
							)		(24/2)中六級進行學生持份者問卷及教學評鑑
<u>ш</u>			1	1	I	ı	1	1	

()-假期 E-考試 △特別活動 教師發展日,學生不用上課

# 培英中學2020至2021年度校曆表

		日	-	1	Ξ	四	五	六	假期及注意事項
27			Mar						(5/3)中六級習禮及感恩惜別會 (6/3)家長日暨中三升中四選科講座
27	Ξ	28	1	2	3	4	5	6	(8/3)中六級開始溫習應付公開試
28		7	8	9	10	11	12	13	(8-12/3)中華文化周 (12/3)頒獎禮
29		14	15	16	17	18	19	20	(19-21/3)趁墟做老闆
30		21	22 <sup>T</sup>	23 <sup>T</sup>	24 <sup>T</sup>	25 <sup>T</sup>	26 <sup>T</sup>	27	(22-26/3)中一至中五級統一測驗
50		21	22	23	24	25	20	27	(23/3-18/5)香港中學文憑考試
	月					Apr			(31/3)復活節崇拜會
31		28	29	30	31	(1)	(2)	(3)	(1-10/4)清明節及復活節假期共10天
32	四	(4)	(5)	<b>(6</b> )	(7)	(8)	<b>(9</b> )	(10)	
33		11	12	13	14	15	16	17	<ul><li>(12/4)教師專業發展日(3)</li><li>(13-16/4)藝術周</li></ul>
34		18	19	20	21	22	23△	24	(23/4)校祖日感恩崇拜暨慶祝活動
									(24/4)區會模範生頒獎禮
35	月								(27/4或28/4)中三全港性系統評估口試 (30/4)TSA口試後備日
$\left  - \right $		25	26	27	28	<b>29</b> △	(30)	(1)	(29/4)全方位學習日 (30/4)全方位學習日翌日假期 (1/5)勞動節假期
36	五	2	3	4	5	6	7	8	(3-7/5)個人社會及人文領域周
37		9	10	11	12	13	14	15	
38	月	16	17	18△	( <b>19</b> )	20	21	22	<ul> <li>(18/5)水運同樂日</li> <li>(19/5)佛誕假期</li> <li>(21/5下午)畢業典禮</li> <li>(21/5晚上)歡送畢業生暨校友會迎新晚會</li> </ul>
39	~	23	24	25	26	27	28	29	(28/5)畢業禮後備日
				Jun					
40	六	30	31	1	2	3	4 <sup>E</sup>	5	(4-15/6)中三級下學期考試共7天
41		6	7 <sup>E</sup>	8 <sup>E</sup>	<b>Q</b> E	10 <sup>E</sup>	11 <sup>E</sup>	12	(4-18/6)中五級下學期考試共10天
		0	,	Ŭ	-	10	•••	12	(7-17/6)中一、二、四級下學期考試共8天
42		13	(14)	15 <sup>e</sup>	16 <sup>E</sup>	17 <sup>e</sup>	18 <sup>e</sup>	19	(14/6)端午節假期 (16-17/6)中三級全港性系統評估(中英數) (18-22/6)中一至中四級試後回饋日
									(21/6)中三級全港性系統評估(後備日)
43		20	21	22	23	24	25	26	<ul><li>(21/6-2/7)中五級試後上課周</li><li>(21/6下午)中五級學習概覽寫作工作坊</li><li>(23-25/6)中一至中五級溫習及補考</li></ul>
	月					Jul			(1/7)香港特別行政區成立紀念日假期
44		27	28	29	30	(1)	2	3	(28/6-9/7)暑期英語營
45	<b>н</b>	4	5	6	7	8	9	10	(7/7)中六級中學文憑考試放榜輔導講座
	Ţ			<u> </u>		<u> </u>		<u> </u>	(14/7)香港中學文憑考試放榜
46		11	12	13	14	15	(16)	(17)	<ul><li>(15/7)結業禮</li><li>(15/7)接見家長及學生</li><li>(16/7-31/8)暑假共47天</li></ul>
47	月	(18)	( <b>19</b> )	(20)	<b>(21</b> )	(22)	(23)	(24)	
48		(25)	(26)	(27)	(28)	( <b>29</b> )	(30)	<b>(31</b> )	
		Aug							
49	へ	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(0)(2) は と m n た n - 事 然 し m
50		(8)	<b>(9</b> )	(10)	(11)	(12)	(13)	(14)	<ul><li>(9/8)學生註冊及領取書籍校服 (9-20/8)升中導向課程</li><li>(9-20/8)中六級香港中學文憑考試備試課程</li></ul>
51	月	(15)	(16)	(17)	(18)	( <b>19</b> )	(20)	(21)	
52		(22)	(23)	(24)	(25)	(26)	(27)	(28)	
	九				Sept				(1/9)下學年開學禮
53	月	<b>(29</b> )	<b>(30</b> )	<b>(31</b> )	1	2	3	4	(2/9)正式上課

()-假期 <sup>E</sup>-考試 △特別活動 教師發展日,學生不用上課

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Appendix F

Air Quality Monitoring Data

# 1-hour TSP Impact Monitoring Result for

NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### AMS6 - Shatin Plaza

				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-20	12:36	51	52	50	51			Fine
10-Nov-20	11:38	68	69	64	67			Sunny
16-Nov-20	11:32	68	61	61	63	347	500	Fine
21-Nov-20	12:35	66	62	62	63			Fine
27-Nov-20	12:41	59	70	64	64			Fine
	Average		62					
	Max		70					
	Min		50					

#### AMS 8 - Lek Yuen Estate

				1-hour TSP (	μg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-20	17:46	61	65	64	63			Fine
10-Nov-20	17:49	68	72	70	70			Sunny
16-Nov-20	17:42	68	70	71	70	336	500	Fine
21-Nov-20	16:45	68	65	71	68			Fine
27-Nov-20	17:51	64	69	69	67			Fine
	Average		68					
	Max		72					
	Min		61					

### AMS 11A - Sheung Wo Che

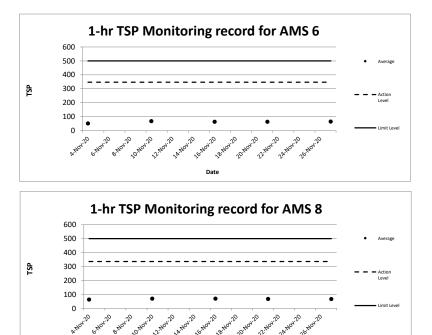
				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-20	17:03	59	59	57	58			Fine
10-Nov-20	17:08	65	63	62	63			Sunny
16-Nov-20	16:59	69	69	66	68	335	500	Fine
21-Nov-20	17:02	68	67	62	66			Fine
27-Nov-20	16:58	68	67	63	66			Fine
	Average		64					
	Max		69					
	Min		57					

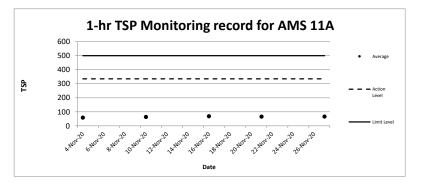
# AMS 13 - Fung Wo Estate

				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-20	17:18	56	61	59	59			Fine
10-Nov-20	18:22	74	70	71	72			Sunny
16-Nov-20	17:14	73	77	73	74	303	500	Fine
21-Nov-20	14:16	74	73	66	71			Fine
27-Nov-20	11:13	69	71	71	70			Fine
	Average		69					
	Max		77					
	Min		56					

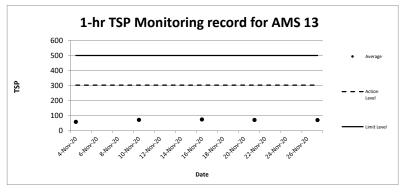
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

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



Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
4/11/2020 08:36	47	10/11/2020 08:38	64
4/11/2020 09:36	44	10/11/2020 09:38	62
4/11/2020 10:36	45	10/11/2020 10:38	54
4/11/2020 11:36	50	10/11/2020 11:38	68
4/11/2020 12:36	51	10/11/2020 12:38	69
4/11/2020 13:36	52	10/11/2020 13:38	64
4/11/2020 14:36	50	10/11/2020 14:38	59
4/11/2020 15:36	42	10/11/2020 15:38	59
4/11/2020 16:36	41	10/11/2020 16:38	56
4/11/2020 17:36	41	10/11/2020 17:38	56
4/11/2020 18:36	44	10/11/2020 18:38	55
4/11/2020 19:36	45	10/11/2020 19:38	58
4/11/2020 20:36	41	10/11/2020 20:38	49
4/11/2020 21:36	38	10/11/2020 21:38	50
4/11/2020 22:36	38	10/11/2020 22:38	56
4/11/2020 23:36	39	10/11/2020 23:38	56
5/11/2020 00:36	41	11/11/2020 00:38	59
5/11/2020 01:36	42	11/11/2020 01:38	53
5/11/2020 02:36	35	11/11/2020 02:38	45
5/11/2020 03:36	38	11/11/2020 03:38	50
5/11/2020 04:36	37	11/11/2020 04:38	46
5/11/2020 05:36	41	11/11/2020 05:38	49
5/11/2020 06:36	42	11/11/2020 06:38	61
5/11/2020 07:36	44	11/11/2020 07:38	61
Average	43	Average	57
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> )
21/11/2020 08:35	63	27/44/2020 00:44	61
		27/11/2020 08:41	
21/11/2020 09:35	55	27/11/2020 08:41	52
21/11/2020 09:35 21/11/2020 10:35			
	55	27/11/2020 09:41	52
21/11/2020 10:35	55 54	27/11/2020 09:41 27/11/2020 10:41	52 58
21/11/2020 10:35 21/11/2020 11:35	55 54 62	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41	52 58 63
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35	55 54 62 66	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41	52 58 63 59
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35	55 54 62 66 62	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41	52 58 63 59 70
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35	55 54 62 66 62 62 62	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 14:41	52 58 63 59 70 64
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35	55 54 62 66 62 62 62 49	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 13:41	52 58 63 59 70 64 51
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 16:35	55 54 62 66 62 62 62 49 56	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 14:41 27/11/2020 15:41 27/11/2020 16:41	52 58 63 59 70 64 51 56
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 16:35 21/11/2020 17:35	55 54 66 62 62 49 56 51	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 15:41 27/11/2020 17:41	52 58 63 59 70 64 51 56 60
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 16:35 21/11/2020 17:35 21/11/2020 18:35	55 54 62 66 62 62 49 56 51 51	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 14:41 27/11/2020 15:41 27/11/2020 17:41 27/11/2020 17:41 27/11/2020 18:41	52 58 63 59 70 64 51 56 60 58
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 16:35 21/11/2020 16:35 21/11/2020 18:35 21/11/2020 19:35	55 54 62 66 62 62 49 56 51 51 51 52	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 16:41 27/11/2020 18:41 27/11/2020 18:41 27/11/2020 19:41	52 58 63 59 70 64 51 56 60 58 58
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 15:35 21/11/2020 17:35 21/11/2020 19:35 21/11/2020 19:35	55 54 62 66 62 62 49 56 51 51 51 51 52 56	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 16:41 27/11/2020 16:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 19:41	52 58 63 59 70 64 51 56 60 58 58 48
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 14:35 21/11/2020 16:35 21/11/2020 16:35 21/11/2020 18:35 21/11/2020 19:35 21/11/2020 20:35 21/11/2020 21:35	55 54 62 62 62 49 56 51 51 51 52 56 48	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 15:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 19:41 27/11/2020 20:41 27/11/2020 21:41	52 58 63 59 70 64 51 56 60 58 58 58 48 55
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 15:35 21/11/2020 18:35 21/11/2020 19:35 21/11/2020 21:35 21/11/2020 21:35 21/11/2020 22:35	55 54 62 62 49 56 51 51 51 52 56 48 49	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 15:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41	52 58 63 59 70 64 51 56 60 58 58 58 48 55 46
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 12:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 16:35 21/11/2020 16:35 21/11/2020 16:35 21/11/2020 19:35 21/11/2020 20:35 21/11/2020 21:35 21/11/2020 23:35 21/11/2020 00:35	55 54 62 66 62 49 56 51 51 51 52 56 48 49 58	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 15:41 27/11/2020 16:41 27/11/2020 18:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 20:41 27/11/2020 22:41 27/11/2020 23:41 27/11/2020 23:41	52 58 63 59 70 64 51 56 60 58 58 58 48 55 46 50
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21/11/2020 10:35 21/11/2020 11:35 21/11/2020 13:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 19:35 21/11/2020 19:35 21/11/2020 20:35 21/11/2020 20:35 21/11/2020 20:35 22/11/2020 00:35 22/11/2020 00:35 22/11/2020 01:35 22/11/2020 01:35 22/11/2020 01:35 22/11/2020 01:35	55 54 62 62 49 56 51 51 52 56 48 49 58 55 58 44 49 58 55 58 44 42 52 47 52	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 12:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 16:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 19:41 27/11/2020 20:41 27/11/2020 22:41 27/11/2020 22:41 27/11/2020 23:41 28/11/2020 00:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41	52 58 63 59 70 64 51 56 60 58 58 48 48 55 46 50 53 59 51 57 53 48
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21/11/2020 10:35 21/11/2020 11:35 21/11/2020 13:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 16:35 21/11/2020 16:35 21/11/2020 19:35 21/11/2020 21:35 21/11/2020 02:35 22/11/2020 01:35 22/11/2020 01:35 22/11/2020 01:35 22/11/2020 03:35 22/11/2020 03:35 22/11/2020 05:35 22/11/2020 05:35 22/11/2020 05:35 22/11/2020 07:35 22/11/2020 07:35	55 54 62 66 62 49 56 51 51 51 52 56 48 49 58 55 58 58 55 58 44 42 52 47 52 56 48 49 58 55 58 58 55 58 58 55 55 55 55	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 15:41 27/11/2020 17:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41 28/11/2020 00:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 06:41 28/11/2020 06:41 28/11/2020 07:41	52 58 63 59 70 64 51 56 60 58 58 48 48 55 46 50 53 53 59 51 57 53 48 48 57 57 53 57 53 59 51 57 53 53 59 51 57 53 53 59 51 57 53 53 57 57 53 57
21/11/2020 10:35 21/11/2020 11:35 21/11/2020 13:35 21/11/2020 13:35 21/11/2020 14:35 21/11/2020 14:35 21/11/2020 15:35 21/11/2020 16:35 21/11/2020 19:35 21/11/2020 19:35 21/11/2020 21:35 21/11/2020 22:35 22/11/2020 00:35 22/11/2020 03:35 22/11/2020 04:35 22/11/2020 04:35 22/11/2020 06:35 22/11/2020 07:35	55 54 62 66 62 49 56 51 51 52 56 48 49 58 55 58 55 58 44 52 47 52 47 56 55	27/11/2020 09:41 27/11/2020 10:41 27/11/2020 11:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 13:41 27/11/2020 15:41 27/11/2020 16:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 19:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41 27/11/2020 21:41 28/11/2020 01:41 28/11/2020 01:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41 28/11/2020 03:41	52 58 63 59 70 64 51 56 60 58 58 48 55 46 50 53 59 51 57 57 53 48 48 48 55 59 51 57 57 53 48 48 57

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
16/11/2020 08:32	54
16/11/2020 09:32	62
16/11/2020 10:32	53
16/11/2020 11:32	68
16/11/2020 12:32	61
16/11/2020 13:32	61
16/11/2020 14:32	64
16/11/2020 15:32	58
16/11/2020 16:32	58
16/11/2020 17:32	53
16/11/2020 18:32	57
16/11/2020 19:32	60
16/11/2020 20:32	50
16/11/2020 21:32	53
16/11/2020 22:32	45
16/11/2020 23:32	52
17/11/2020 00:32	49
17/11/2020 01:32	62
17/11/2020 02:32	54
17/11/2020 03:32	49
17/11/2020 04:32	56
17/11/2020 05:32	54
17/11/2020 06:32	52
17/11/2020 07:32	63
Average	56
Action Level	165
Limit Level	260

AMS6 - Shatin Plaza

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

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.

ate and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concer
4/11/2020 08:46	39	10/11/2020 08:49	46	16/11/2020 08:42	
/11/2020 09:46	41	10/11/2020 09:49	46	16/11/2020 09:42	
/11/2020 10:46	43	10/11/2020 10:49	48	16/11/2020 10:42	
11/2020 11:46	44	10/11/2020 11:49	47	16/11/2020 11:42	
1/2020 12:46	46	10/11/2020 12:49	52	16/11/2020 12:42	
1/2020 13:46	49	10/11/2020 13:49	55	16/11/2020 13:42	
1/2020 14:46	52	10/11/2020 14:49	56	16/11/2020 14:42	
11/2020 15:46	56	10/11/2020 15:49	62	16/11/2020 15:42	
11/2020 16:46	61	10/11/2020 16:49	65	16/11/2020 16:42	
11/2020 17:46	61	10/11/2020 17:49	68	16/11/2020 17:42	
11/2020 18:46	65	10/11/2020 18:49	72	16/11/2020 18:42	
11/2020 19:46	64	10/11/2020 19:49	70	16/11/2020 19:42	
11/2020 20:46	55	10/11/2020 20:49	63	16/11/2020 20:42	
11/2020 21:46	51	10/11/2020 21:49	53	16/11/2020 21:42	
1/2020 22:46	46	10/11/2020 22:49	50	16/11/2020 22:42	
11/2020 23:46	46	10/11/2020 23:49	53	16/11/2020 23:42	
1/2020 00:46	48	11/11/2020 00:49	52	17/11/2020 00:42	
1/2020 01:46	43	11/11/2020 01:49	48	17/11/2020 01:42	
1/2020 02:46	52	11/11/2020 02:49	58	17/11/2020 02:42	
1/2020 03:46	49	11/11/2020 03:49	53	17/11/2020 03:42	
11/2020 04:46	45	11/11/2020 04:49	48	17/11/2020 04:42	
11/2020 05:46	41	11/11/2020 05:49	44	17/11/2020 05:42	
11/2020 06:46	39	11/11/2020 06:49	45	17/11/2020 06:42	
1/2020 07:46	42	11/11/2020 07:49	50	17/11/2020 07:42	
Average	49	Average	54	Average	
Action Level	161	Action Level	161	Action Level	
Limit Level	260	Limit Level	260	Limit Level	
e and Time	TSP Concentration (ug/m <sup>3</sup> )	Date and Time	TSP Concentration (ug/m <sup>3</sup> )	1	
	TSP Concentration (μg/m³) 45	Date and Time	TSP Concentration (μg/m³) 46	]	
11/2020 08:45	45	27/11/2020 08:51	46	]	
/11/2020 08:45 /11/2020 09:45	45 46	27/11/2020 08:51 27/11/2020 09:51	46 44	]	
(11/2020 08:45 (11/2020 09:45 (11/2020 10:45	45	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51	46 44 49		
11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45	45 46 47 48	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51	46 44 49 50		
/11/2020 08:45 /11/2020 09:45 /11/2020 10:45 /11/2020 11:45 /11/2020 12:45	45 46 47 48 49	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51	46 44 49 50 52		
(11/2020 08:45 (11/2020 09:45 (11/2020 10:45 (11/2020 11:45 (11/2020 12:45 (11/2020 13:45	45 46 47 48 49 57	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51	46 44 49 50 52 52 52		
11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 12:45 11/2020 13:45 11/2020 14:45	45 46 47 48 49	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51	46 44 49 50 52		
1/2020 08:45 1/2020 09:45 1/2020 10:45 1/2020 11:45 1/2020 12:45 1/2020 13:45 1/2020 14:45 1/2020 15:45	45 46 47 48 49 57 56	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51	46 44 49 50 52 52 52 56		
11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 12:45 11/2020 13:45 11/2020 14:45 11/2020 15:45	45 46 47 48 49 57 56 60	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51 27/11/2020 14:51 27/11/2020 15:51	46 44 49 50 52 52 52 56 63		
11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 12:45 11/2020 14:45 11/2020 15:45 11/2020 15:45 11/2020 17:45	45 46 47 48 49 57 56 60 60 68	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51	46 44 49 50 52 52 52 56 63 63 68		
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(11/2020 08:45 (11/2020 09:45 (11/2020 10:45 (11/2020 11:45 (11/2020 12:45 (11/2020 12:45 (11/2020 13:45 (11/2020 15:45 (11/2020 17:45 (11/2020 18:45 (11/2020 19:45	45 46 47 48 49 57 56 60 68 65 71	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51 27/11/2020 14:51 27/11/2020 16:51 27/11/2020 16:51 27/11/2020 16:51	46 44 49 50 52 52 56 63 68 68 64 69		
(11/2020 08:45) (11/2020 09:45) (11/2020 10:45) (11/2020 11:45) (11/2020 12:45) (11/2020 13:45) (11/2020 15:45) (11/2020 15:45) (11/2020 16:45) (11/2020 18:45) (11/2020 18:45) (11/2020 19:45) (11/2020 19:45) (11/2020 19:45)	45 46 47 48 49 57 56 60 68 65 65 71 70	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 12:51 27/11/2020 13:51 27/11/2020 15:51 27/11/2020 15:51 27/11/2020 16:51 27/11/2020 18:51 27/11/2020 19:51 27/11/2020 19:51	46 44 49 50 52 56 63 68 64 69 69 69		
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11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 12:45 11/2020 13:45 11/2020 15:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 18:45 11/2020 19:45 11/2020 20:45 11/2020 21:45	45 46 47 48 49 57 56 60 68 65 71 70 59 58	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51 27/11/2020 15:51 27/11/2020 16:51 27/11/2020 16:51 27/11/2020 16:51 27/11/2020 19:51 27/11/2020 19:51 27/11/2020 21:51 27/11/2020 21:51 27/11/2020 22:51	46 44 49 50 52 52 56 63 68 64 69 69 69 69 61 54		
11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 12:45 11/2020 13:45 11/2020 13:45 11/2020 15:45 11/2020 15:45 11/2020 19:45 11/2020 19:45 11/2020 21:45 11/2020 22:45	45 46 47 48 49 57 56 60 68 65 71 70 59 58 52	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 21:51 27/11/2020 21:51 27/11/2020 23:51	46 44 49 50 52 52 56 63 68 64 69 69 61 54 49		
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11/2020 08:45 11/2020 09:45 11/2020 10:45 11/2020 11:45 11/2020 11:45 11/2020 13:45 11/2020 13:45 11/2020 15:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 16:45 11/2020 01:45 11/2020 01:45 11/200	45 46 47 48 49 57 56 60 68 65 71 70 59 58 52 53 53 53 53 53 53 53 53 53 53 53 53 53	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 14:51 27/11/2020 16:51 27/11/2020 16:51 27/11/2020 18:51 27/11/2020 19:51 27/11/2020 20:51 27/11/2020 21:51 27/11/2020 21:51 27/11/2020 21:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 03:51	46 44 49 50 52 52 56 63 68 64 69 69 61 54 49 50 50 50 50 50 50 50 50 50 49 57 55 49 45 46		
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'11/2020 08:45           '11/2020 09:45           '11/2020 10:45           '11/2020 11:45           '11/2020 13:45           '11/2020 13:45           '11/2020 15:45           '11/2020 15:45           '11/2020 15:45           '11/2020 16:45           '11/2020 17:45           '11/2020 19:45           '11/2020 21:45           '11/2020 21:45           '11/2020 23:45           '11/2020 03:45	45 46 47 48 49 57 56 60 68 65 71 70 59 58 52 53 53 53 53 53 53 53 53 53 53 53 53 53	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51 27/11/2020 16:51 27/11/2020 17:51 27/11/2020 18:51 27/11/2020 19:51 27/11/2020 21:51 27/11/2020 21:51 27/11/2020 01:51 28/11/2020 01:51 28/11/2020 03:51 28/11/2020 03:51 28/11/2020 06:51 28/11/2020 06:51 28/11/2020 06:51 28/11/2020 06:51 28/11/2020 06:51 28/11/2020 06:51 28/11/2020 06:51	46 44 49 50 52 52 53 63 68 64 69 61 54 49 50 50 50 50 49 50 50 49 57 55 49 45 46 47 54		
11/2020 08:45           11/2020 09:45           11/2020 10:45           11/2020 11:45           11/2020 12:45           11/2020 13:45           11/2020 15:45           11/2020 15:45           11/2020 15:45           11/2020 15:45           11/2020 15:45           11/2020 15:45           11/2020 18:45           11/2020 19:45           11/2020 20:45           11/2020 21:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 01:45           11/2020 06:45           11/2020 06:45           11/2020 07:45	45 46 47 48 49 57 56 60 68 65 71 70 59 58 52 53 53 53 53 53 53 53 53 53 54 51 52 44 46 47	27/11/2020 08:51 27/11/2020 09:51 27/11/2020 10:51 27/11/2020 11:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 15:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 13:51 27/11/2020 21:51 27/11/2020 21:51 27/11/2020 02:51 28/11/2020 01:51 28/11/2020 03:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51 28/11/2020 05:51	46 44 49 50 52 52 53 63 68 64 69 69 61 54 49 50 50 50 50 49 57 55 49 45 46 47		

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
16/11/2020 08:42	44
16/11/2020 09:42	45
16/11/2020 10:42	46
16/11/2020 11:42	50
16/11/2020 12:42	54
16/11/2020 13:42	55
16/11/2020 14:42	59
16/11/2020 15:42	60
16/11/2020 16:42	66
16/11/2020 17:42	68
16/11/2020 18:42	70
16/11/2020 19:42	71
16/11/2020 20:42	62
16/11/2020 21:42	55
16/11/2020 22:42	49
16/11/2020 23:42	50
17/11/2020 00:42	51
17/11/2020 01:42	47
17/11/2020 02:42	58
17/11/2020 03:42	55
17/11/2020 04:42	50
17/11/2020 05:42	47
17/11/2020 06:42	43
17/11/2020 07:42	49
Average	54
Action Level	161
Limit Level	260

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

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentra
4/11/2020 09:03	36	10/11/2020 09:08	42	16/11/2020 08:59	41
4/11/2020 10:03	38	10/11/2020 10:08	42	16/11/2020 09:59	43
4/11/2020 11:03	42	10/11/2020 11:08	53	16/11/2020 10:59	46
4/11/2020 12:03	44	10/11/2020 12:08	49	16/11/2020 11:59	48
4/11/2020 13:03	38	10/11/2020 13:08	44	16/11/2020 12:59	44
4/11/2020 14:03	48	10/11/2020 14:08	57	16/11/2020 13:59	54
4/11/2020 15:03	49	10/11/2020 15:08	58	16/11/2020 14:59	58
4/11/2020 16:03	53	10/11/2020 16:08	60	16/11/2020 15:59	58
4/11/2020 17:03	59	10/11/2020 17:08	65	16/11/2020 16:59	69
4/11/2020 18:03	59	10/11/2020 18:08	63	16/11/2020 17:59	69
4/11/2020 19:03	57	10/11/2020 19:08	62	16/11/2020 18:59	66
4/11/2020 20:03	51	10/11/2020 20:08	62	16/11/2020 19:59	61
4/11/2020 21:03	48	10/11/2020 21:08	55	16/11/2020 20:59	54
4/11/2020 22:03	49	10/11/2020 22:08	54	16/11/2020 21:59	53
4/11/2020 23:03	53	10/11/2020 23:08	57	16/11/2020 22:59	62
5/11/2020 00:03	49	11/11/2020 00:08	55	16/11/2020 23:59	56
5/11/2020 01:03	51	11/11/2020 01:08	61	17/11/2020 00:59	58
5/11/2020 02:03	60	11/11/2020 02:08	69	17/11/2020 01:59	64
5/11/2020 03:03	52	11/11/2020 03:08	60	17/11/2020 02:59	61
5/11/2020 04:03	61	11/11/2020 04:08	67	17/11/2020 03:59	71
5/11/2020 05:03	57	11/11/2020 05:08	65	17/11/2020 04:59	61
5/11/2020 06:03	53	11/11/2020 06:08	62	17/11/2020 05:59	63
5/11/2020 07:03	51	11/11/2020 07:08	55	17/11/2020 06:59	60
5/11/2020 08:03	49	11/11/2020 08:08	52	17/11/2020 07:59	53
Average	50	Average	57	Average	57
Action Level	165	Action Level	165	Action Level	16
		Line it Laural	200		26
Limit Level	260	Limit Level	260	Limit Level	20
Limit Level	260	Limit Level		Limit Level	20
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Limit Level	20
Date and Time 21/11/2020 09:02	TSP Concentration (μg/m <sup>3</sup> ) 40	Date and Time 27/11/2020 08:58	TSP Concentration (µg/m <sup>3</sup> ) 43	Limit Level	20
Date and Time 21/11/2020 09:02 21/11/2020 10:02	TSP Concentration (μg/m³) 40 47	Date and Time 27/11/2020 08:58 27/11/2020 09:58	TSP Concentration (µg/m³) 43 44	Limit Level	20
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02	TSP Concentration (μg/m <sup>*</sup> ) 40 47 50	Date and Time 27/11/2020 08:58 27/11/2020 09:58 27/11/2020 10:58	TSP Concentration (μg/m³) 43 44 51	Limit Level	20
<b>Date and Time</b> 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02	TSP Concentration (μg/m³) 40 47 50 48	<b>Date and Time</b> 27/11/2020 08:58 27/11/2020 09:58 27/11/2020 10:58 27/11/2020 11:58	TSP Concentration (µg/m <sup>3</sup> ) 43 44 51 53	Limit Level	20
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02	TSP Concentration (μg/m³) 40 47 50 48 48 47	Date and Time 27/11/2020 08:58 27/11/2020 09:58 27/11/2020 10:58 27/11/2020 11:58 27/11/2020 12:58	TSP Concentration (µg/m³) 43 44 51 53 49	Limit Level	
Date and Time 21/11/2020 09:02	TSP Concentration (μg/m³) 40 47 50 48	<b>Date and Time</b> 27/11/2020 08:58 27/11/2020 09:58 27/11/2020 10:58 27/11/2020 11:58	TSP Concentration (µg/m³) 43 44 51 53 49 53	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 14:02 21/11/2020 15:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 14:58	TSP Concentration (µg/m³)         43           43         44           51         53           49         53           58         58	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 53 59	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 14:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 59 68	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 14:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58	TSP Concentration (µg/m <sup>3</sup> ) 43 44 51 53 49 53 58 62 68	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 13:02 21/11/2020 13:02 21/11/2020 14:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 18:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 59 68 67	Date and Time 27/11/2020 08:58 27/11/2020 10:58 27/11/2020 10:58 27/11/2020 11:58 27/11/2020 12:58 27/11/2020 13:58 27/11/2020 15:58 27/11/2020 15:58 27/11/2020 15:58	TSP Concentration (µg/m³) 43 44 51 53 49 53 58 62 68 67	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 18:02 21/11/2020 19:02	TSP Concentration (μg/m*) 40 47 50 48 47 56 53 59 68 67 62	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 12:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 59 68 67 62 56	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 18:02 21/11/2020 19:02 21/11/2020 20:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 59 68 67 62 56 54	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 10:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58	TSP Concentration (μg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 22:02	TSP Concentration (μg/m <sup>*</sup> ) 40 47 50 48 47 56 53 59 68 67 62 56 54 55	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 14:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 21:58	TSP Concentration (µg/m³)         43           43         44           51         53           53         58           62         68           67         63           61         56           55         55		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 18:02 21/11/2020 19:02 21/11/2020 20:02	TSP Concentration (μg/m³) 40 47 50 48 47 56 53 59 68 67 62 56 54	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 10:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58	TSP Concentration (μg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 17:02 21/11/2020 17:02 21/11/2020 19:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 23:02 21/11/2020 23:02 22/11/2020 00:02	TSP Concentration (μg/m*) 40 47 50 48 47 56 53 59 68 67 62 56 54 55 60 54	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 21:58           27/11/2020 22:58           27/11/2020 23:58	TSP Concentration (µg/m³) 43 44 51 53 49 53 58 62 68 67 63 61 56 55 59 52	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 18:02 21/11/2020 01:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 00:02 22/11/2020 01:02	TSP Concentration (μg/m³)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 14:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 12:58           27/11/2020 21:58           27/11/2020 2	TSP Concentration (μg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 16:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02 21/11/2020 23:02 22/11/2020 01:02 22/11/2020 01:02 22/11/2020 02:02	TSP Concentration (μg/m <sup>*</sup> ) 40 47 50 48 47 56 53 59 68 67 62 56 54 55 60 54 60 65	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 20:58           27/11/2020 21:58           27/11/2020 22:58           27/11/2020 23:58           27/11/2020 23:58           27/11/2020 23:58           27/11/2020 01:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67		
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Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 16:02 21/11/2020 16:02 21/11/2020 16:02 21/11/2020 10:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 20:02 22/11/2020 01:02 22/11/2020 01:02 22/11/2020 03:02 22/11/2020 03:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           54           60           54           60           54           60           55           60           54           60           55           60           54           60           55           60           54           60           59           70	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 21:58           27/11/2020 23:58           28/11/2020 01:58           28/11/2020 0	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58           62	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02 21/11/2020 20:02 22/11/2020 00:02 22/11/2020 00:02 22/11/2020 03:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           59           70           64	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 12:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 23:58           28/11/2020 00:58           28/11/2020 01:58           28/11/2020 01:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 21:02 21/11/2020 23:02 22/11/2020 01:02 22/11/2020 03:02 22/11/2020 03:02 22/11/2020 05:02 22/11/2020 05:02 22/11/2020 06:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           59           70           64	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58           68           61           56           55           59           52           60           67           58           68           61           62		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 12:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 17:02 21/11/2020 17:02 21/11/2020 10:02 21/11/2020 20:02 21/11/2020 01:02 22/11/2020 01:02 22/11/2020 01:02 22/11/2020 03:02 22/11/2020 05:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           59           70           64	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 14:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 01:58           28/11/2020 0	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58           62           63           61           56           59           52           60           67           58           68           61	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02 21/11/2020 20:02 21/11/2020 02:02 22/11/2020 00:02 22/11/2020 03:02 22/11/2020 04:02 22/11/2020 06:02 22/11/2020 07:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           59           70           64           60           59           70           64           60           59           50           50	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58           62           63           61           56           55           59           52           60           67           58           68           61           62           56           57           58           68           61           62           56           54	Limit Level	
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 13:02 21/11/2020 14:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 18:02 21/11/2020 18:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02 21/11/2020 20:02 22/11/2020 00:02 22/11/2020 03:02 22/11/2020 04:02 22/11/2020 06:02 22/11/2020 07:02	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           59           70           64           60           59	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 12:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 17:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 20:58           27/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 00:58           28/11/2020 0	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           59           52           60           67           58           68           61           56           51           58           60           67           58           61           52           60           67           58           68           61           62           56		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 13:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 20:02 21/11/2020 02:02 22/11/2020 03:02 22/11/2020 07:02 22/11/2020 07:0	TSP Concentration (μg/m*)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           59           70           64           60           59           70           64           60           59           50           50	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 13:58           27/11/2020 15:58           27/11/2020 15:58           27/11/2020 17:58           27/11/2020 17:58           27/11/2020 18:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 23:58           28/11/2020 01:58           28/11/2020 0	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           56           55           59           52           60           67           58           62           63           61           56           55           59           52           60           67           58           68           61           62           56           57           58           68           61           62           56           54		
Date and Time 21/11/2020 09:02 21/11/2020 10:02 21/11/2020 11:02 21/11/2020 11:02 21/11/2020 13:02 21/11/2020 14:02 21/11/2020 15:02 21/11/2020 15:02 21/11/2020 16:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 19:02 21/11/2020 21:02 21/11/2020 21:02 21/11/2020 01:02 22/11/2020 01:02 22/11/2020 03:02 22/11/2020 03:02 22/11/2020 05:02 22/11/2020 05:02 22/11/2020 07:02 22/11/2020 07:02 22/11/2020 07:02 22/11/2020 08:02 22/11/2020 08:02 22/11/2020 08:02 22/11/2020 08:02	TSP Concentration (μg/m³)           40           47           50           48           47           56           53           59           68           67           62           56           54           55           60           54           60           55           60           54           60           55           60           55           60           55           60           55           60           55           50           52           53           54           60           55           59           70           64           60           59           56           57	Date and Time           27/11/2020 08:58           27/11/2020 10:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 11:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 16:58           27/11/2020 17:58           27/11/2020 19:58           27/11/2020 19:58           27/11/2020 20:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           27/11/2020 21:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 03:58           28/11/2020 0	TSP Concentration (µg/m³)           43           44           51           53           49           53           58           62           68           67           63           61           55           59           52           60           67           58           68           61           62           58           68           61           62           56           55           59           52           60           67           58           68           61           62           56           54           57		

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
16/11/2020 08:59	41
16/11/2020 09:59	43
16/11/2020 10:59	46
16/11/2020 11:59	48
16/11/2020 12:59	44
16/11/2020 13:59	54
16/11/2020 14:59	58
16/11/2020 15:59	58
16/11/2020 16:59	69
16/11/2020 17:59	69
16/11/2020 18:59	66
16/11/2020 19:59	61
16/11/2020 20:59	54
16/11/2020 21:59	53
16/11/2020 22:59	62
16/11/2020 23:59	56
17/11/2020 00:59	58
17/11/2020 01:59	64
17/11/2020 02:59	61
17/11/2020 03:59	71
17/11/2020 04:59	61
17/11/2020 05:59	63
17/11/2020 06:59	60
17/11/2020 07:59	53
Average	57
Action Level	165
Limit Level	260

AMS 11A - She ung Wo Ch

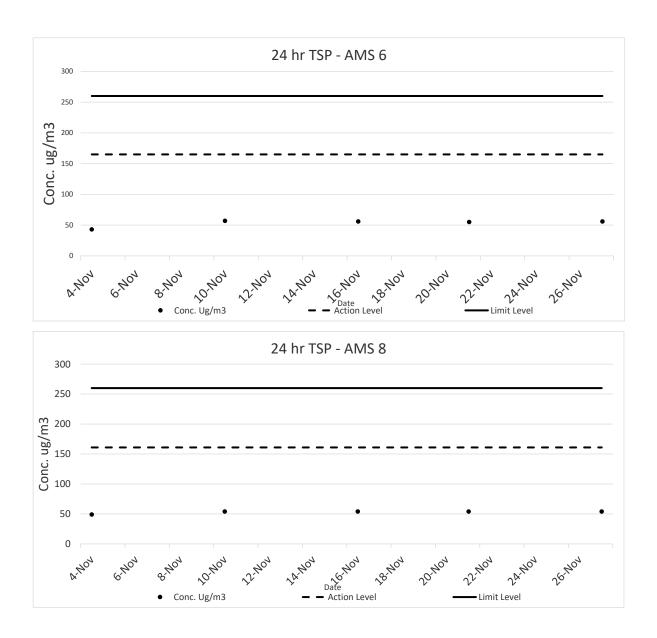
24-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

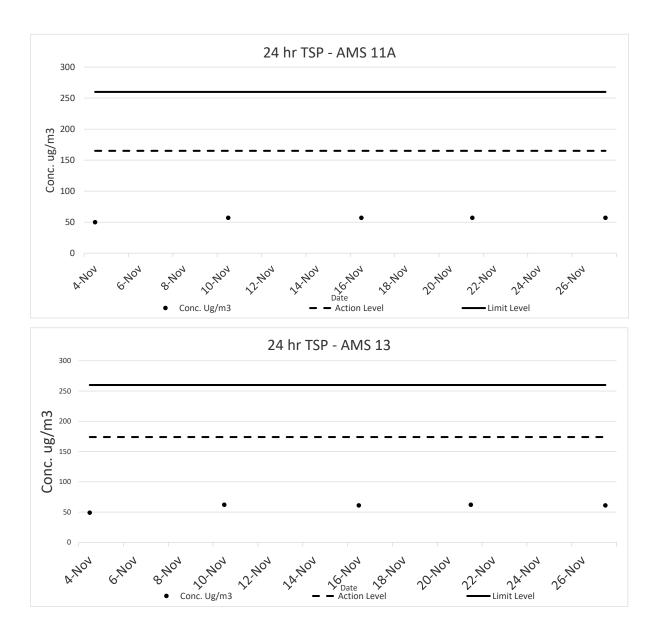
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
4/11/2020 09:18	43	10/11/2020 09:22	45
4/11/2020 10:18	44	10/11/2020 10:22	60
4/11/2020 11:18	50	10/11/2020 11:22	68
4/11/2020 12:18	52	10/11/2020 12:22	64
4/11/2020 13:18	53	10/11/2020 13:22	64
4/11/2020 14:18	56	10/11/2020 14:22	63
4/11/2020 15:18	54	10/11/2020 15:22	70
4/11/2020 16:18	54	10/11/2020 16:22	68
4/11/2020 17:18	56	10/11/2020 17:22	66
4/11/2020 18:18	61	10/11/2020 18:22	74
4/11/2020 19:18	59	10/11/2020 19:22	70
4/11/2020 20:18	52	10/11/2020 20:22	71
4/11/2020 21:18	47	10/11/2020 21:22	63
4/11/2020 22:18	47	10/11/2020 22:22	58
4/11/2020 23:18	40	10/11/2020 23:22	54
5/11/2020 00:18	38	11/11/2020 00:22	44
5/11/2020 00:18	43	11/11/2020 00:22	61
5/11/2020 02:18	45	11/11/2020 02:22	61
5/11/2020 02:18	44 41	11/11/2020 02:22	57
	41 47		64
5/11/2020 04:18	47 46	11/11/2020 04:22	
5/11/2020 05:18	46 52	11/11/2020 05:22	55
5/11/2020 06:18		11/11/2020 06:22	66
5/11/2020 07:18	52	11/11/2020 07:22	69
5/11/2020 08:18	53	11/11/2020 08:22	60
Average	49	Average	62
Action Level	174	Action Level	174
			262
Limit Level	260	Limit Level	260
		Limit Level Date and Time	260 TSP Concentration (μg/m³)
Limit Level	260		
Limit Level Date and Time 21/11/2020 09:16	260 TSP Concentration (µg/m³)	Date and Time	TSP Concentration (μg/m³)
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16	260 TSP Concentration (µg/m³) 51	Date and Time 27/11/2020 09:13	TSP Concentration (μg/m³) 45
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16	260 TSP Concentration (μg/m³) 51 58	Date and Time           27/11/2020 09:13           27/11/2020 10:13	TSP Concentration (μg/m³) 45 60
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16	260 TSP Concentration (μg/m³) 51 58 65	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13	TSP Concentration (μg/m³) 45 60 69
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16 21/11/2020 13:16	260 TSP Concentration (μg/m³) 51 58 65 68	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13	<b>TSP Concentration (μg/m³)</b> 45 60 69 71
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 12:16 21/11/2020 13:16 21/11/2020 14:16	260 TSP Concentration (μg/m³) 51 58 65 68 66	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13	TSP Concentration (µg/m³)           45           60           69           71           71
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16 21/11/2020 14:16 21/11/2020 14:16 21/11/2020 15:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13	TSP Concentration (µg/m³) 45 60 69 71 71 71 66
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 16:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13	TSP Concentration (μg/m³)           45           60           69           71           66           66
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16 21/11/2020 13:16 21/11/2020 14:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 17:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13	TSP Concentration (μg/m³)           45           60           69           71           66           66           63
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 18:13	TSP Concentration (µg/m³)           45           60           69           71           66           66           63
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 12:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 18:16 21/11/2020 18:16 21/11/2020 19:16	260 <b>TSP Concentration (μg/m³)</b> 51 58 65 68 66 74 73 66 67 73 68	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 19:13	TSP Concentration (µg/m³)           45           60           69           71           66           63           63           77
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 14:16 21/11/2020 15/100 21/100 21/100 21/100 21/100 21/100 21/100 21/100 21/100 21/100 2	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 66 67 73 68 62	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 0:13	TSP Concentration (μg/m³)           45           60           69           71           66           63           63           77           70           67
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 16:16 21/11/2020 16:16 21/11/2020 18:16 21/11/2020 18:16 21/11/2020 19:16 21/11/2020 20:16 21/11/2020 20:16 21/11/2020 21:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 66 67 73 68 62 66	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 12:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           63           77           70           67           59
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:17 21/11/2020 15:17 21/11/2020 15:17 21/11/2020 15:17 21/11/2020 15	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 11:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 22:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           63           77           70           67           59           54
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15/100 21/10/200 21/10/200 21/10/200 21/100 21/100 21/100 21/100 21/100	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 68 62 66 57 53	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:33           27/11/2020 23:13	TSP Concentration (μg/m³)           45           60           69           71           66           63           63           67           70           67           59           54           51
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 14:16 21/11/2020 16:16 21/11/2020 18:16 21/11/2020 18:16 21/11/2020 18:16 21/11/2020 19:16 21/11/2020 20:16 21/11/2020 20:16 21/11/2020 21/	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 66 67 73 68 62 66 57 53 48	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 22:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           27/11/2020 23:13           28/11/2020 00:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           63           77           70           67           59           54           51           53
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 16:16 21/11/2020 16:16 21/11/2020 17:16 21/11/2020 19:16 21/11/2020 20:16 21/11/2020 20:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 01:16 22/11/2020 01:16 22/11/2020 01:16 22/11/2020 01:16 21/11/2020 01:16 22/11/2020 22/11/2020 01:16 22/11/2020 22/11/202	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 66 67 73 68 62 66 57 53 48 55	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           28/11/2020 01:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           63           77           70           67           59           54           51           53           62
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 19:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 22/11/2020 01:16 21/11/2020 01:	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 20:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 01:13           27/11/2020 00:13           28/11/2020 00:13           28/11/2020 01:13	TSP Concentration (μg/m³)           45           60           69           71           66           63           63           67           59           54           51           53           62           51
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 22:16 21/11/2020 23:16 21/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13	TSP Concentration (μg/m³)           45           60           69           71           76           66           63           63           67           59           54           51           53           62           51           48
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 22/11/2020 05:	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           77           70           67           59           54           51           53           62           51           53           62           51           53           52           53           53           53           55
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 20:16 21/11/2020 20:16 21/11/2020 00:16 22/11/2020 00:	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60 56	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13	TSP Concentration (µg/m³)           45           60           69           71           71           66           63           63           77           70           67           59           54           51           53           62           51           48           57           64
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 01:16 22/11/2020 01:	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60 56 66	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 17:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 31:13           28/11/2020 00:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 0	TSP Concentration (μg/m <sup>3</sup> )           45           60           69           71           66           63           63           63           67           59           54           51           53           62           51           63           67           59           54           51           53           62           51           64
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 23:16 21/11/2020 23:16 21/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16 22/11/2020 03:16 22/11/2020 04:16 22/11/2020 05:16 22/11/2020 05:16 22/11/2020 07:16	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 55 62 56 60 56 66 63	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 17:13           27/11/2020 19:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 01:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13           28/11/2020 05:13	TSP Concentration (µg/m³)           45           60           69           71           76           66           63           67           59           54           51           53           62           51           48           57           64           63
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 12:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 19:16 21/11/2020 19:16 21/11/2020 19:16 21/11/2020 22:16 21/11/2020 22:16 21/11/2020 02:16 22/11/2020 00:16 22/11/2020 03:16 22/11/2020 05:16 22/11/2020 05:16 22/11/2020 07:16 22/11/2020 07:16 22	260 TSP Concentration (µg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60 56 60 56 66 63 67 73 53 48 55 62 56 60 57 53 48 55 62 56 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 53 48 55 66 66 57 53 48 55 66 66 57 53 48 55 66 66 57 53 48 55 66 66 67 53 48 55 66 66 57 53 48 55 66 66 67 53 48 55 66 66 67 53 48 55 66 66 67 53 48 55 66 60 57 53 48 55 66 60 56 60 57 53 48 55 66 60 56 66 63 67 67 67 67 67 67 67 67 67 67	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 13:13           28/11/2020 01:13           28/11/2020 0	TSP Concentration (µg/m³)           45           60           69           71           71           66           63           77           70           67           59           54           51           53           62           51           53           62           51           63           62           51           63           62           61           63           60
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 17:16 21/11/2020 17:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 01:16 22/11/2020 01:16 22/11/2020 01:16 22/11/2020 01:16 22/11/2020 05:	260 TSP Concentration (μg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60 56 66 63 67 62	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 14:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 18:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 01:13           28/11/2020 0	TSP Concentration (µg/m³)           45           60           69           71           71           66           63           63           67           59           54           51           53           62           51           53           62           51           64           63           60           61
Limit Level Date and Time 21/11/2020 09:16 21/11/2020 10:16 21/11/2020 11:16 21/11/2020 13:16 21/11/2020 13:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 15:16 21/11/2020 18:16 21/11/2020 18:16 21/11/2020 19:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 21/11/2020 21:16 22/11/2020 01:	260 TSP Concentration (µg/m³) 51 58 65 68 66 74 73 66 67 73 68 62 66 57 53 48 55 62 56 60 56 60 56 66 63 67 73 53 48 55 62 56 60 57 53 48 55 62 56 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 73 68 66 67 53 48 55 66 66 57 53 48 55 66 66 57 53 48 55 66 66 57 53 48 55 66 66 67 53 48 55 66 66 57 53 48 55 66 66 67 53 48 55 66 66 67 53 48 55 66 66 67 53 48 55 66 60 57 53 48 55 66 60 56 60 57 53 48 55 66 60 56 66 63 67 67 67 67 67 67 67 67 67 67	Date and Time           27/11/2020 09:13           27/11/2020 10:13           27/11/2020 11:13           27/11/2020 12:13           27/11/2020 13:13           27/11/2020 13:13           27/11/2020 15:13           27/11/2020 15:13           27/11/2020 16:13           27/11/2020 17:13           27/11/2020 18:13           27/11/2020 19:13           27/11/2020 19:13           27/11/2020 20:13           27/11/2020 21:13           27/11/2020 21:13           27/11/2020 13:13           28/11/2020 01:13           28/11/2020 0	TSP Concentration (μg/m*)           45           60           69           71           66           63           63           77           70           67           59           54           51           53           62           51           53           62           51           63           62           51           63           62           62           51           63           62           61           63           62           63           64           63           60

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
16/11/2020 09:14	44
16/11/2020 10:14	53
16/11/2020 11:14	57
16/11/2020 12:14	67
16/11/2020 13:14	64
16/11/2020 14:14	75
16/11/2020 15:14	72
16/11/2020 16:14	69
16/11/2020 17:14	73
16/11/2020 18:14	77
16/11/2020 19:14	73
16/11/2020 20:14	63
16/11/2020 21:14	54
16/11/2020 22:14	62
16/11/2020 23:14	51
17/11/2020 00:14	52
17/11/2020 01:14	50
17/11/2020 02:14	51
17/11/2020 03:14	56
17/11/2020 04:14	54
17/11/2020 05:14	60
17/11/2020 06:14	59
17/11/2020 07:14	59
17/11/2020 08:14	62
Average	61
Action Level	174
Limit Level	260

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

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** 

# Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Sect

#### **NMS 1 Scenery Court**

Date Start Time		Measured Noise Level			Limit Level	Construction Noise Level		Wind	
	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Emit Lever	Construction Noise Level	Weather	Speed	
				Unit	: dB(A) 30 Min	IS		(m/s)	
4-Nov-20	10:52	65.0	59.5	66.0		65.0	Fine	0.4	
10-Nov-20	16:38	66.2	67.0	63.0	75	66.2	Fine	0.6	
16-Nov-20	09:13	65.8	60.5	67.0	15	65.8	Fine	0.9	
27-Nov-20	08:30	61.6	59.0	63.0		61.6	Fine	0.7	

#### NMS 2 Villa Le Parc

		Measured Noise Level		Level	Limit Level	Construction Noise Level	Weather	Wind
Date Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Speed				
				Unit	t: dB(A) 30 Mir	IS	T	(m/s)
4-Nov-20	11:28	54.2	50.5	55.0		54.2	Fine	1
10-Nov-20	13:35	56.2	52.5	57.0	75	56.2	Fine	1.4
16-Nov-20	09:51	55.0	55.0         51.5         56.0         75         55.0					0.6
27-Nov-20	10:52	55.1	53.0	56.0	]	55.1	Fine	1.1

#### NMS 3 Hilton Plaza

		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 Mir	IS		(m/s)
4-Nov-20	10:16	70.6	66.0	72.0		70.6	Fine	0.6
10-Nov-20	15:57	70.6	68.0	73.5	75	70.6	Fine	0.7
16-Nov-20	08:35	71.3	67.0	73.0	75	71.3	Fine	0.7
27-Nov-20	09:06	70.4	67.5	73.0		70.4	Fine	1.2

# NMS 4 Tin Liu

		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 Lever		Weather	Speed
				Unit	t: dB(A) 30 Mir	IS		(m/s)
4-Nov-20	13:00	66.0	63.5	67.0		66.0	Fine	0.6
10-Nov-20	13:00	66.0	63.5	67.0	75	66.0	Fine	1
16-Nov-20	10:26	67.4	66.0	69.5	15	67.4	Fine	1.2
27-Nov-20	11:30	66.4	63.0	68.0		66.4	Fine	0.7

#### NMS 5A Wai Wah Centre

		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	t: dB(A) 30 Mir	IS		(m/s)
4-Nov-20	09:40	73.2	67.0	75.5		73.2	Fine	0.7
10-Nov-20	14:48	73.0	69.5	76.0	75	73.0	Fine	0.8
16-Nov-20	11:34	73.8	70.0	75.5	15	73.8	Fine	1.2
27-Nov-20	09:41	67.8	64.0	70.0		67.8	Fine	0.8

#### NMS 6A Wai Wah Centre

		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
				(m/s)				
4-Nov-20	08:35	71.1	66.5	73.0		71.1	Fine	0.4
10-Nov-20	15:22	72.2	69.0	75.0	75	72.2	Fine	1.1
16-Nov-20	13:00	72.0	69.0	74.5	15	72.0	Fine	1.4
27-Nov-20	10:16	69.2	64.5	72.0		69.2	Fine	0.6

Calculated CNL = Measured Noise Level during operation - Baseline ( dB(A)).

#### NMS 7 Tin Liu

		Meas	ured Noise		Wind			
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Limit Level	Construction Noise Level	Weather	Speed
					(m/s)			
4-Nov-20	13:36	73.2	71.0	76.0		73.2	Fine	0.8
10-Nov-20	11:26	69.7	68.0	73.0	75	69.7	Fine	0.7
16-Nov-20	10:59	72.2	68.0	74.0	75	72.2	Fine	0.4
27-Nov-20	13:00	72.1	69.5	75.0		72.1	Fine	1.1

### NMS 8 Shatin Plaza

		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
					(m/s)			
3-Nov-20	08:30	71.0	66.5	72.5		71.0	Fine	1.3
9-Nov-20	16:33	67.0	64.5	68.0	75	67.0	Fine	1.1
17-Nov-20	09:35	65.8	62.0	68.5	75	65.8	Fine	0.6
26-Nov-20	16:04	66.6	64.0	68.0		66.6	Fine	0.7

#### 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>	Linin Lever	Construction Noise Level	Weather	Speed
					(m/s)			
3-Nov-20	10:18	68.5	64.5	70.5		68.5	Fine	0.7
9-Nov-20	13:34	66.7	65.0	69.5	75	66.7	Fine	0.9
17-Nov-20	10:12	61.3	57.5	63.5	15	61.3	Fine	0.1
26-Nov-20	14:44	71.6	67.0	72.5		71.6	Fine	1.4

# 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>	Linin Lever	Construction Noise Level	Weather	Speed
					(m/s)			
3-Nov-20	09:42	64.1	60.5	65.0		64.1	Fine	0.9
9-Nov-20	11:07	63.8	60.0	65.0	70	63.8	Fine	0.7
17-Nov-20	09:57	59.3	56.5	61.5	70	59.3	Fine	0.2
26-Nov-20	14:18	63.1	57.5	65.0		63.1	Fine	1.6

\*Note: The school calendar was provide in Appendix E.

# NMS 11 Sheung Wo Che

		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>			Weather	Speed
					(m/s)			
3-Nov-20	15:26	64.2	60.5	65.5		64.2	Fine	0.6
9-Nov-20	14:46	63.5	58.5	65.0	75	63.5	Fine	0.5
17-Nov-20	10:49	63.1	58.0	65.5	] '3	63.1	Fine	0.3
26-Nov-20	09:07	64.5	61.0	65.5		64.5	Fine	1.4

# 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>	Linit Level	Construction Noise Level	Weather	Speed
		Unit: dB(A) 30 Mins						(m/s)
3-Nov-20	10:55	63.3	58.5	64.5		63.3	Fine	1
9-Nov-20	10:29	64.3	59.0	66.0	70	64.3	Fine	0.7
17-Nov-20	11:28	60.2	56.0	63.0	70	60.2	Fine	0.2
26-Nov-20	13:40	62.6	57.0	64.5		62.6	Fine	0.8

\*Note: The school calendar was provide in Appendix E.

Calculated CNL = Measured Noise Level during operation - Baseline ( dB(A)).

### NMS 13 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Date Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
3-Nov-20	11:32	67.7	65.0	69.0		67.7	Fine	0.7
9-Nov-20	13:00	65.2	62.0	66.0	75	65.2	Fine	0.8
17-Nov-20	13:05	57.7	55.0	60.0	75	57.7	Fine	0.8
26-Nov-20	13:00	70.1	60.0	73.0		70.1	Fine	1.1

# 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		Weather	Speed
				Unit	: dB(A) 30 Min		(m/s)	
3-Nov-20	14:49	65.0	62.5	66.0		65.0	Fine	0.3
9-Nov-20	14:10	64.0	62.0	65.0	75	64.0	Fine	0.3
17-Nov-20	10:34	57.2	53.0	59.5	15	57.2	Fine	0.1
26-Nov-20	09:42	66.2	62.5	67.5		66.2	Fine	0.7

# NMS 15 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Date Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>			Weather	Speed
				Unit: dB(A) 30 Mins				(m/s)
4-Nov-20	16:14	63.6	58.0	65.0		63.6	Fine	0.7
10-Nov-20	08:32	64.0	60.0	65.5	75	64.0	Fine	0.6
16-Nov-20	15:57	66.4	63.0	67.5	, , , , , , , , , , , , , , , , , , , ,	66.4	Fine	1.3
27-Nov-20	15:15	63.1	60.5	64.5		63.1	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		Weather	Speed	
				Unit	: dB(A) 30 Min	IS		(m/s)
4-Nov-20	15:39	63.0	58.5	64.5		63.0	Fine	0.3
10-Nov-20	09:05	65.2	61.0	66.0	75	65.2	Fine	1.5
16-Nov-20	15:22	64.2	62.0	65.0	75	64.2	Fine	0.7
27-Nov-20	15:48	65.0	62.0	66.0		65.0	Fine	1.2

# NMS 17 Shatin Pui Ying College

		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		Weather	Speed	
			-	Unit: dB(A) 30 Mins				(m/s)
3-Nov-20	14:11	64.4	61.0	66.0		64.4	Fine	0.8
9-Nov-20	09:48	62.9	59.0	64.0	70	62.9	Fine	1.2
17-Nov-20	13:08	59.1	55.0	62.0	70	59.1	Fine	0.3
26-Nov-20	11:32	63.6	58.5	65.0		63.6	Fine	0.6

\*Note: The school calendar was provide in Appendix E.

#### 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 Level	Weather	Speed
			-		(m/s)			
4-Nov-20	15:02	61.8	57.5	63.0		61.8	Fine	0.7
10-Nov-20	09:42	62.6	59.5	63.5	75	62.6	Fine	1.2
16-Nov-20	14:37	62.2	58.0	63.0	75	62.2	Fine	1.1
27-Nov-20	16:23	63.8	60.0	64.5		63.8	Fine	0.8

Calculated CNL = Measured Noise Level during operation – Baseline (dB(A)).

#### 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>	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
3-Nov-20	13:00	68.0	65.0	70.0		68.0	Fine	0.4
9-Nov-20	09:07	68.2	65.5	71.0	75	68.2	Fine	1.6
17-Nov-20	13:45	58.6	54.0	61.0	15	58.6	Fine	0.3
26-Nov-20	10:54	68.4	66.5	70.0		68.4	Fine	0.8

#### NMS 20 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>			Weather	Speed
				(m/s)				
3-Nov-20	13:34	64.4	61.0	66.0		64.4	Fine	0.8
9-Nov-20	08:30	69.6	66.0	72.5	75	69.6	Fine	1.6
17-Nov-20	14:21	60.3	56.5	63.0	15	60.3	Fine	0.2
26-Nov-20	10:20	69.6	66.0	72.0		69.6	Fine	1

# NMS 23 Pai Tau

		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		Weather	Speed
				Unit		(m/s)		
4-Nov-20	16:53	66.2	64.0	69.0		66.2	Fine	1.3
10-Nov-20	14:12	67.5	64.5	69.0	75	67.5	Fine	0.6
16-Nov-20	16:36	67.7	63.5	69.5	10	67.7	Fine	0.5
27-Nov-20	08:30	67.0	66.0	69.5		67.0	Fine	0.6

#### NMS 24 Shatin Plaza

		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 Lever		Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
3-Nov-20	09:04	69.2	65.5	71.0		69.2	Fine	0.7
9-Nov-20	15:59	66.2	64.0	67.5	75	66.2	Fine	0.8
17-Nov-20	09:01	58.2	55.5	61.5	75	58.2	Fine	0.3
26-Nov-20	15:26	65.9	63.0	67.0		65.9	Fine	0.8

# NMS 25A 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 Lover		Weather	Speed (m/s)	
			Unit: dB(A) 30 Mins						
3-Nov-20	16:00	69.7	67.0	72.0		69.7	Fine	1.1	
9-Nov-20	15:23	68.8	66.0	70.5	75	68.8	Fine	0.4	
17-Nov-20	09:16	64.6	61.0	67.0	75	64.6	Fine	0.5	
26-Nov-20	14:38	71.5	67.0	73.0		71.5	Fine	0.6	

#### NMS 26 Wo Che Estate

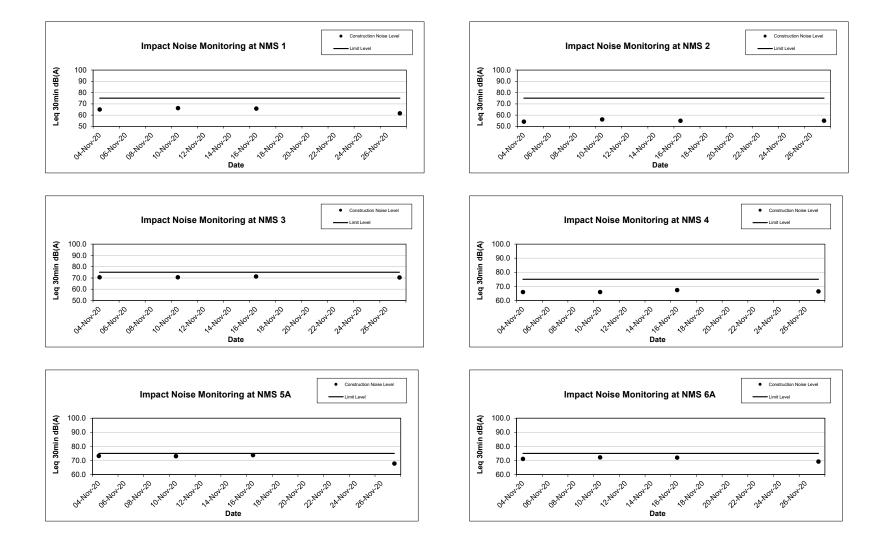
		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins		IS		(m/s)	
3-Nov-20	16:34	68.1	64.5	71.0		68.1	Fine	0.3
9-Nov-20	17:02	67.5	65.0	70.5	75	67.5	Fine	0.5
17-Nov-20	11:13	67.4	64.5	70.5	10	67.4	Fine	0.2
26-Nov-20	16:41	67.4	65.0	71.0		67.4	Fine	0.7

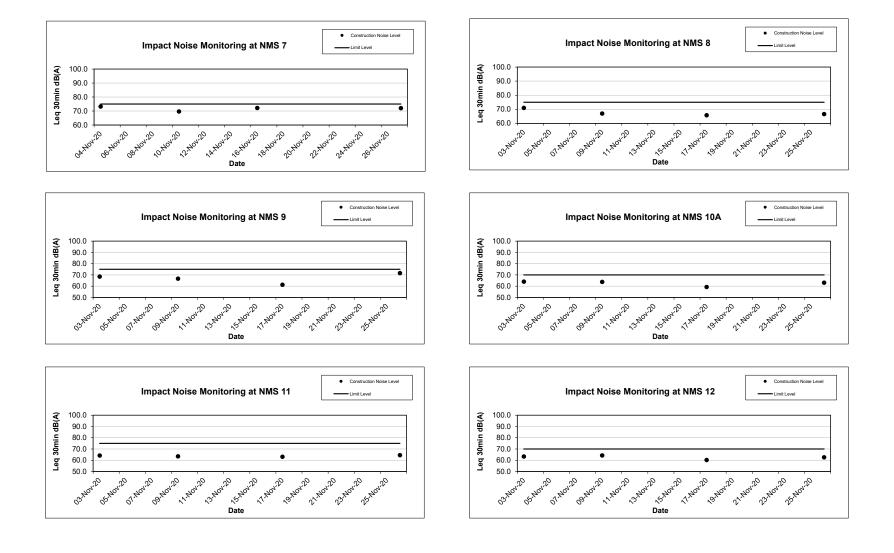
# NMS 27 Jockey Club Ti-I College

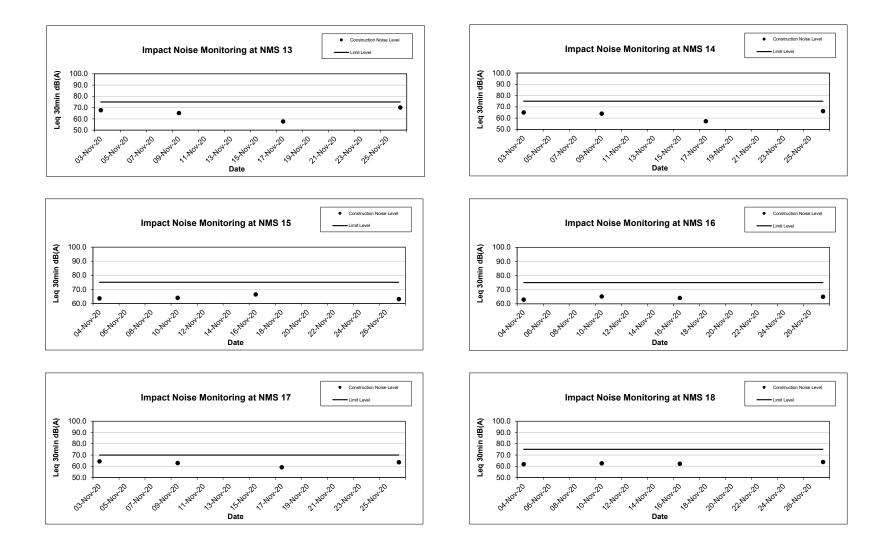
_		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>			Weather	Speed
				Unit		(m/s)		
4-Nov-20	14:20	64.5	61.5	66.5		64.5	Fine	0.8
10-Nov-20	10:31	63.9	60.5	65.0	70	63.9	Fine	1.6
16-Nov-20	13:52	64.0	60.0	65.5	70	64.0	Fine	0.8
27-Nov-20	13:52	64.0	62.0	66.0		64.0	Fine	1.4

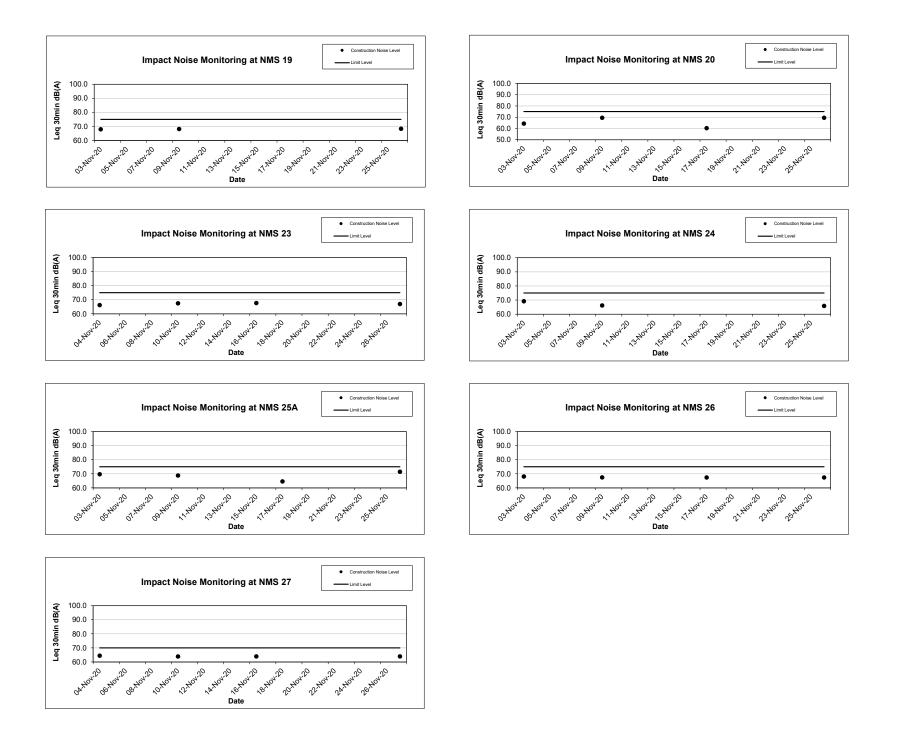
\*Note: The school calendar was provide in Appendix E.

Calculated CNL = Measured Noise Level during operation - Baseline ( dB(A)).









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

#### NMS 1 Scenery Court

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Nov-20	23:00	55.4			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
12-Nov-20	23:00	55.9	61.4	52.8 - 66.3	55	5 Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
19-Nov-20	23:00	55.5	01.4	52.8 - 00.5	55 Measured Noise Level <baseline< td=""><td>Measured Noise Level<baseline< td=""><td>Fine</td><td>0.6</td></baseline<></td></baseline<>	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
26-Nov-20	23:00	57.2			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<>	Fine	0.9

### NMS 2 Villa Le Parc

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	02:41	49.6			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.7</td></limit>	Fine	0.7
13-Nov-20	02:40	51.6	49.7	40.1 - 58.2	55         Measured Noise Level <limit level<="" th="">           55         Measured Noise Level<limit level<="" td=""></limit></limit>	Fine	0.6	
20-Nov-20	02:41	52.2	49.7	40.1 - 30.2		Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
27-Nov-20	02:46	51.3			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8

#### NMS 3 Hilton Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Nov-20	23:00	62.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
12-Nov-20	23:00	62.4	70.9	60.2 - 78.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
19-Nov-20	23:00	62.8	70.9	00.2 - 70.9	55 Measured Noise Level <baseline< td=""><td>Measured Noise Level<baseline< td=""><td>Fine</td><td>0.6</td></baseline<></td></baseline<>	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
26-Nov-20	23:00	62.7			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

#### NMS 4 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	02:20	57.1			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	02:18	57.5	62.6	53.1 - 68.1	55	55 Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	02:23	57.3	02.0	55.1 - 66.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	02:22	57.2			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

#### NMS 5A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Nov-20	23:32	60.9			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
12-Nov-20	23:33	60.8	67.9	62.0 - 75.2	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
19-Nov-20	23:30	60.8	07.5	02.0 - 7 5.2	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
26-Nov-20	23:35	59.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

# NMS 6A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Nov-20	23:28	67.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
12-Nov-20	23:27	69.1	71.5	65.0 - 85.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
19-Nov-20	23:28	67.8	71.5	05.0 - 85.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
26-Nov-20	23:31	68.6		55	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

#### NMS 7 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	02:30	58.9		51.4 - 65.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	02:24	59.1	59.0	51.4 - 65.5	55	43.3*	Fine	0.6
20-Nov-20	02:31	60.4	33.0	51.4 - 65.5	55	54.9*	Fine	0.6
27-Nov-20	02:31	59.0		51.4 - 65.5	55	38.1*	Fine	0.8

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

# NMS 8 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Nov-20	23:53	58.2		55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
12-Nov-20	23:52	58.1	64.4	55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
19-Nov-20	23:53	58.1	04.4	55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
26-Nov-20	23:47	57.9		55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

# NMS 9 Lek Yuen Estate

D	ate	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-No	ov-20	00:25	54.2		39.5 - 63.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
13-N	lov-20	00:24	54.2	53.5	39.5 - 63.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
20-N	lov-20	00:25	54.2	55.5	39.5 - 63.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
27-N	lov-20	00:26	55.0		39.5 - 63.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8

# NMS 11 Sheung Wo Che

	Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
Ī	6-Nov-20	01:51	54.8		46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
	13-Nov-20	01:55	54.8	52.0	46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
-	20-Nov-20	01:57	56.2	53.2	46.1 - 62.8	55	53.1*	Fine	0.6
	27-Nov-20	01:56	56.9		46.1 - 62.8	55	54.5*	Fine	0.3

Note:

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

#### NMS 13 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	00:24	57.7		45.4 - 72.5	55	47.6*	Fine	0.6
13-Nov-20	00:26	56.6	57.3	45.4 - 72.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	00:24	56.5	57.5	45.4 - 72.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	00:29	57.8		45.4 - 72.5	55	48.6*	Fine	0.8

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

### NMS 14 Sheung Wo Che

	(dB(A))	Range (dB(A))	(dB(A))	Corrected Noise Level (dB(A))	Weather	Speed (m/s)
56.8		46.1 - 62.8	55	53.4*	Fine	0.6
54.8	54 1	46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
56.2	34.1	46.1 - 62.8	55	52.0*	Fine	0.6
7 54.1		46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
1	51         54.8           52         56.2           47         54.1	51         54.8         54.1           52         56.2         54.1           47         54.1         54.1	51         54.8         54.1         46.1 - 62.8	51         54.8         54.1         46.1 - 62.8         55           52         56.2         46.1 - 62.8         55           47         54.1         46.1 - 62.8         55	51         54.8         54.1         46.1 - 62.8         55         Measured Noise Level <limit level<="" th="">           52         56.2         56.2         55         55         52.0*</limit>	51         54.8         54.1         46.1 - 62.8         55         Measured Noise Level <limit level<="" th="">         Fine           52         56.2         46.1 - 62.8         55         52.0*         Fine           47         54.1         46.1 - 62.8         55         Measured Noise Level<limit level<="" td="">         Fine           46.1 - 62.8         55         Measured Noise Level<limit level<="" td="">         Fine</limit></limit></limit>

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

#### NMS 15 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	01:44	58.6		48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	01:47	58.8	58.8	48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	01:48	58.7	50.0	48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	01:48	60.1		48.4 - 69.7	55	54.3*	Fine	0.8

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

#### NMS 16 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	01:26	57.2		51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	01:25	59.3	60.1	51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	01:26	58.9	00.1	51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	01:26	58.4		51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

# NMS 18 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	01:08	61.0		56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	01:07	59.6	63.2	56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	01:08	60.3	03.2	56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	01:11	57.1		56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

#### NMS 19 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	01:27	58.9		53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	01:24	58.2	61.7	53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
20-Nov-20	01:27	58.8	01.7	53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	01:29	59.8		53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

### NMS 20 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	01:22	59.5	57.7	48.6 - 71.7	55	54.9*	Fine	0.6
13-Nov-20	01:44	59.1		48.6 - 71.7	55	53.5*	Fine	0.0
20-Nov-20	01:46	59.2	51.1	48.6 - 71.7	55	53.8*	Fine	0.6
27-Nov-20	01:46	59.1		48.6 - 71.7	55	53.5*	Fine	0.8
Note:	Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).							

#### NMS 23 Pai Tau

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	02:18	59.5		47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	02:17	59.5	59.9	47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	02:18	58.4	59.9	47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	02:19	59.9		47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8

# NMS 24 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	00:45	57.4		50.2 - 66.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	00:48	58.6	58.0	50.2 - 66.7	55	49.3*	Fine	0.6
20-Nov-20	00:51	58.5	50.0	50.2 - 66.7	55	48.8*	Fine	0.6
27-Nov-20	00:46	59.6		50.2 - 66.7	55	54.4*	Fine	0.8

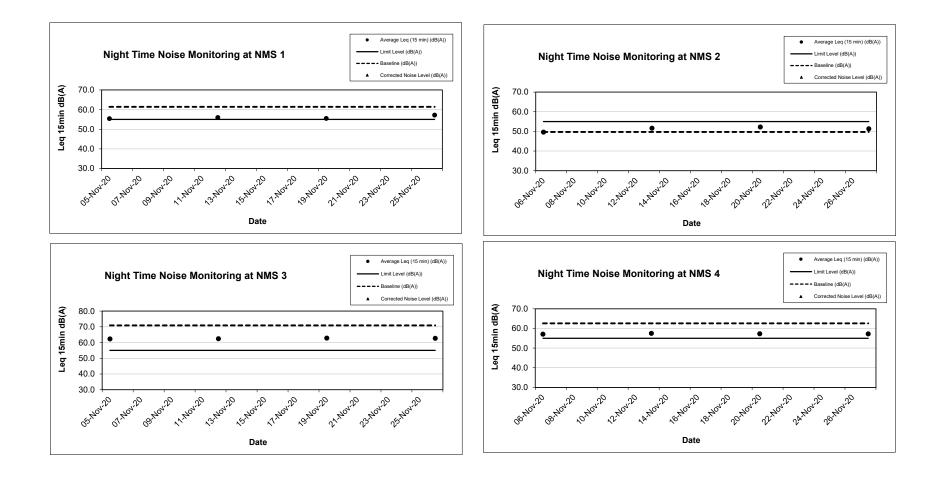
\*Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A). Note:

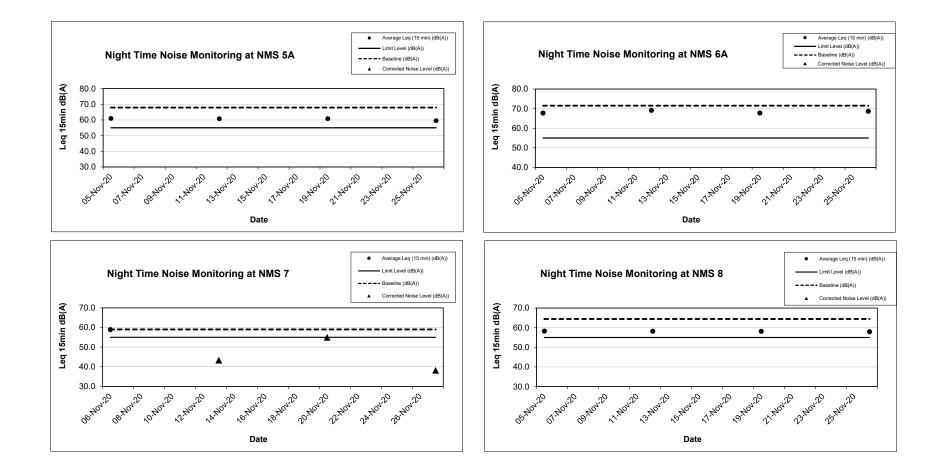
# NMS 25A Sheung Wo Che

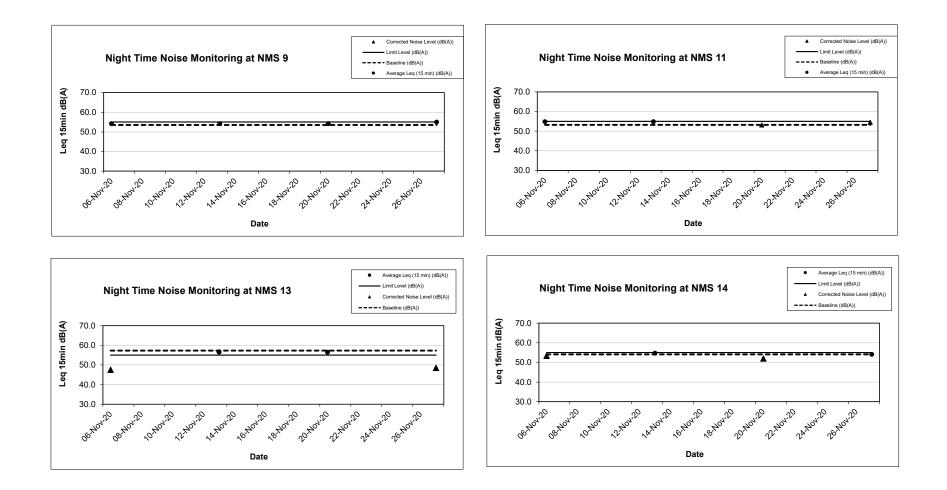
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	02:00	59.1		50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	02:02	58.8	59.7	50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	02:03	58.7	00.1	50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	02:06	59.2		50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<>	Fine	0.4

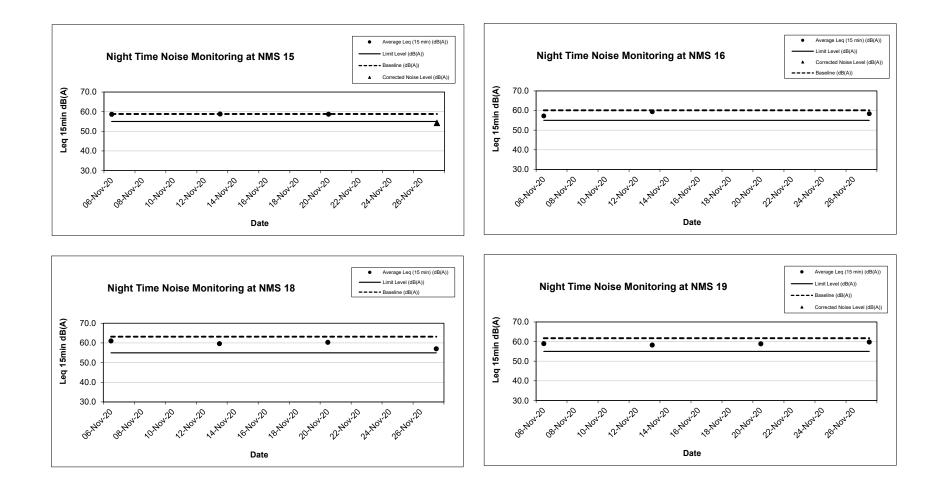
# NMS 26 Wo Che Estate

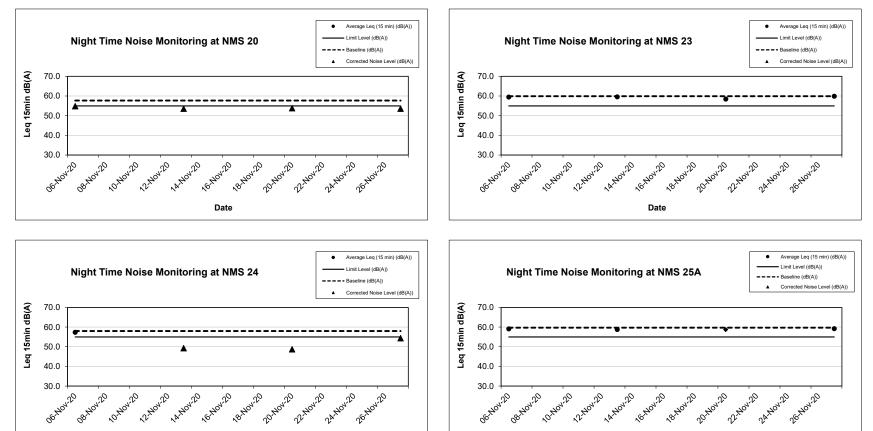
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Nov-20	00:49	60.2		45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	00:48	60.2	61.2	45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
20-Nov-20	00:49	60.2	01.2	45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
27-Nov-20	00:56	60.0		45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8



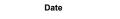


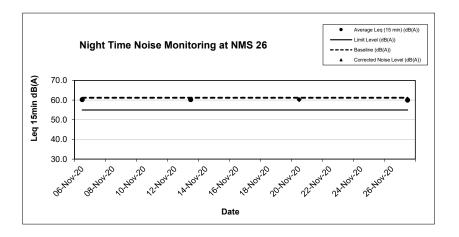






Date





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Appendix H

**Events and Action Plan** 

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



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	<ol> <li>Notify the IEC, the SO and the EPD and the</li> </ol>	<ol> <li>Discuss amongst the SO, ET</li> </ol>	1. Confirm receipt of	1. Take immediate action to avoid			

# Event and Action Plan for Construction Dust Monitoring

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EVENT				
	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.

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

EVENT		ACTION	1	
	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>
		3. Discuss remedial actions with the SO and the Contractor; and	properly implemented.	any necessary replacement.
		actions until rectification has been completed		
Repeated conformity	Non-	<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>
		3. Increase monitoring frequency;	properly implemented.	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>If exceedance stops, cease additional monitoring.</li> </ol>		

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Appendix I

Waste Flow Table

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Waste Flow	/ Table for Ye	ear 2018									
		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual	Quantities of Non-	-inert C&D Wast	es Generated M	onthly
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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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

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Waste Flow	Table for Year 2	2019									
		Actual Qua	antities of Inert C&	D Materials Genera	ted Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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	0.712	0.000	0.223	0.000	0.489	0.297	0.000	0.000	0.000	0.000	0.046
2019 Oct	0.663	0.000	0.306	0.000	0.357	1.085	0.001	0.027	0.009	0.000	0.027
2019 Nov	1.154	0.000	0.143	0.000	1.011	0.428	0.000	0.019	0.000	0.000	0.095
2019 Dec	0.849	0.000	0.023	0.000	0.826	0.074	0.000	0.014	0.001	0.000	0.034
Total	4.200	0.000	0.916	0.000	3.284	1.884	0.001	0.060	0.010	0.000	0.889

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Waste Flow	Table for Year 2										
		Actual Qua	intities of Inert C&I	D Materials Genera	ited Monthly		Act	ual Quantities of Non	-inert C&D Wast	es Generated Mont	hly
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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2020 Jan	0.584	0.000	0.027	0.000	0.557	0.040	0.001	0.030	0.001	0.000	0.039
2020 Feb	1.072	0.000	0.042	0.000	1.030	0.000	0.001	0.026	0.003	0.000	0.013
2020 Mar	0.422	0.000	0.006	0.000	0.416	0.062	0.000	0.000	0.000	0.000	0.054
2020 Apr	0.450	0.000	0.000	0.000	0.450	0.000	0.002	0.085	0.003	0.000	0.025
2020 May	1.144	0.000	0.000	0.000	1.144	0.319	0.001	0.021	0.005	0.000	0.027
2020 Jun	3.660	0.000	0.000	0.000	3.660	0.077	0.001	0.027	0.004	0.000	0.048
Sub-Total	7.332	0.000	0.075	0.000	7.257	0.498	0.006	0.189	0.016	0.000	0.206
2020 Jul	2.008	0.000	0.014	0.000	1.994	0.000	0.002	0.047	0.006	0.000	0.067
2020 Aug	2.215	0.000	0.018	0.000	2.197	0.000	0.001	0.040	0.006	0.000	0.014
2020 Sep	4.305	0.000	0.000	0.000	4.305	0.000	0.002	0.042	0.009	0.000	0.044
2020 Oct	3.073	0.000	0.002	0.000	3.071	0.000	0.001	0.019	0.005	0.000	0.029
2020 Nov	1.670	0.000	0.000	0.000	1.670	0.000	0.001	0.030	0.006	0.000	0.036
2020 Dec											
Total	20.603	0.000	0.109	0.000	20.494	0.498	0.013	0.367	0.048	0.000	0.396

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>.

4) Updated data for previous month.

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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
		<ul> <li>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).</li> </ul>	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
	\ A /:41= : 41= -	Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented
	Within the boundaries of all construction	<ul> <li>Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.</li> </ul>	Contractor	Implemented
		<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.</li> </ul>	Contractor	Not Applicable
	sites.	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
		<ul> <li>Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.</li> </ul>	Contractor	Implemented
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>		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>	Contractor	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		<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
		<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.		
		<ul> <li>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.</li> </ul>	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		<ul> <li>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.</li> </ul>		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	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
4.12.1, 4.13.1 and		•Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.	Contractor	Implemented
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		Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	Implemented
		• 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.	Contractor	Partially 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>	Contractor	Implemented
	Within the	• 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.	Contractor	Implemented
5.7	all	<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	Partially Implemented
	sites.	• 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.	Contractor	Implemented
		• 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 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.	Contractor	Implemented
		• The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained	Contractor	Partially Implementedwork

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		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.		
		<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	Partially 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
		<ul> <li>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.</li> </ul>	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>	Contractor	Not Applicable
		<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.</li> </ul>		Implemented

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		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.		
		<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>		Implemented
		<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	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	Partially 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		
		Construction Phase		
Table 6.5	within the	• 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
	Project Boundary.	<ul> <li>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.</li> </ul>	Contractor	Implemented

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		<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
		• Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.	Contractor	Not Applicable
		<ul> <li>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.</li> </ul>		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.		Not Applicable
	During construction	<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
		Waste Management Measures		
7.6.2 to 7.6.4	all	• 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	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
	sites.	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.		
		<ul> <li>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.</li> </ul>	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	Partially 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	• 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
	construction	<ul> <li>The contractor's environmental performance shall be monitored and controlled through the weekly en environmental walks shall include:</li> </ul>	vironmental walks	. The items after the
		• A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;	Contractor	Implemented
	n routes to	<ul> <li>The environmental performance of the contractor and his sub-contractors;</li> </ul>	Contractor	Implemented
		<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
7.6.8 to 7.6.9	of	<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
	materials/Pri or to and during construction activities.	<ul> <li>Waste shall only be disposed of at licensed sites and the WMP should include procedures to 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&amp;D materials and non-inert C&amp;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</li> </ul>	Contractor	Implemented

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		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>		Partially 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>	Contractor	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
		• Paving bricks arising from existing pavement should be recycled on site as much as possible.	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
		<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
7.6.15 to		<ul> <li>Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handli as follows. Containers used for the storage of chemical wastes should:</li> </ul>	ing and Storage	of Chemical Wastes
7.6.17		<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

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		<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
		<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>		Partially Implemented
		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
		be arranged so that incompatible materials are adequately separated.	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 impacts. The burning of refuse on construction sites is prohibited by law.</li> </ul>		Implemented
		Separate labelled bins should be provided if feasible.	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	Implemented
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

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		<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		<u>General Condition</u>		
N.A	During construction within the Project Boundary.	<ul> <li>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).</li> </ul>	Contractor	Implemented

Implementation status: Implemented / 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)	
			November 2020				
1	1015.9	27.8	24	21.9	72	-	
2	1015.2	29.5	25.3	22.6	64	_	
3	1017	26.4	23.6	21.5	69	0.1	
4	1017.5	26.1	23	21.2	69	0.4	
5	1017.7	25.6	22.9	21.2	69	_	
6	1016	28.6	24.7	21.3	68	_	
7	1015.5	30.2	26.8	23.6	56	-	
8	1017.2	27.5	25.7	23.9	59	-	
9	1017.9	26.1	23.7	22.1	60	Trace	
10	1019.3	24.5	22.9	21.6	61	-	
11	1020.8	25.3	22.5	21.2	68	-	
12	1018.9	25.9	22.2	19.9	66	-	
13	1016.8	25.7	22.9	21	62	0.4	
14	1017.5	25	23.3	22.5	65	-	
15	1019.2	24.7	23	21.7	77	Trace	
16	1017.9	27.7	24	21.9	75	-	
17	1015.4	26.4	24.2	22.7	78	Trace	
18	1013.1	28.5	24.9	23.4	81	1	
19	1011.9	28.7	25.3	23.4	86	Trace	
20	1012.6	29.5	25.9	24.2	84	-	
21	1014.8	25.2	23.5	22.7	88	2	
22	1017.2	28.2	24.8	22.6	83	1.1	
23	1019.6	24	23	22.4	84	Trace	
24	1019.4	25.9	23.3	22.2	79	_	
25	1018.9	26.6	23.5	21.7	77	-	
26	1019.3	28	24	21.9	77	-	
27	1020.6	25.8	22.8	20.8	70	-	
28	1022.1	22.7	20.4	18.4	68	-	
29	1021.8	23	20	18	64	-	
30	1015.9	27.8	24	21.9	72	-	

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	2/2/2019	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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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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	30/7/2019

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						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. 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 is related to the project. 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 should strictly follow the use of acoustic enclosure as in condition 3.d.5. of the CNP during the operation of breaker, hand-held, mass <=10kg (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	19/9/2019

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COM-2019- 0056	9/10/2019	Project Hotline of NE/2017/05 and EPD	CCZJV	Noise	19/10/2019	The complaint of the construction noise especially the breaker noise is project related. Due to the concern of road safety, the Contractor conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 issued by Highways Department (HyD). The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. For construction works covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.	4/11/2019
COM-2019- 0057	9/10/2019	EPD	CCZJV	Noise	18/10/2019	The complaint of the generator noise nuisance is related to the project. The concerned portable generator is supplying electric power for the Variable Message Sign (VMS) showing the speed limit in 50 km/hr. It is switched on and off manually by manpower, and would only be operated between daytime 07:00-19:00. No construction noise permit (CNP) should be	21/10/2019

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						required as the portable generator is not operating in restricted hours. The main contractor was reminded to strictly follow the use of their proposed semi-enclosure as the mitigation measures for the portable generator and the generator operates in daytime 07:00-19:00 only.	
COM-2019- 0066	6/11/2019	EPD	CCZJV	Noise	7/11/2019	The complaint of the emergency road repair work is related to the project. The works on on 5 <sup>th</sup> November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise.	12/11/2019
COM-2020- 0083	29/02/2020	Project email of NE/2017/05	CCZJV	Noise and Dust	29/02/2020	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. The construction works at zone 2 was the mini-piling operation during the day time was same as the complaint. Thus, the complaint in daytime is related to the project. Furthermore, loading and unloading works was carried in night time. Contractor was reminded to enhance the water spray frequency on the construction site for mitigation measures on dust control. Also, Contractor should provide green tarpaulin curtain and additional acoustic Sound Proof Canvas as a secondary layer at the bottom of the mini-pile drilling machine to secure the total enclose condition to minimize the visual and noise impacts	19/03/2020

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						to nearby NSRs. ET checked the regular impact air and noise monitoring data between day time and night-time regular noise monitoring data, no exceedance case was found on both regular impact air and noise monitoring measurement. The main contractor should carry out further review the effectiveness of the enclosure or noise barrier with their mitigation measure and propose alternative noise mitigation measures to enhance the noise reduction on similar day works or night works in restricted hours.	
COM-2020- 0089	24/03/2020	Project hotline	CCZJV	Noise	24/03/2020	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. According to the Contractor's information, loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24 <sup>th</sup> Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PMEs and works activities. Three sides with top cover enclosure and additional acoustic comprised with 50 mm sound absorbing lining were used for night works activities. ET analysed that the complaint noise source should not be project-related construction noise.	07/04/2020

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COM-2020- 0090	27/03/2020	Project hotline	CCZJV	Noise	27/03/2020	Both complaint cases were concerning about the noise nuisance generated from the construction work activities at night time disturbing the nearby Wai Wah Centre residence. According to the Main Contractor, similar nature of major construction works carried out between 03:00 a.m. and 04:00 a.m. on 27th & 28th March 2020 was the asphalt compaction for the road surface remedial works at zone 2 south lane adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0002-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 <sup>th</sup> March 2020 to 04:00 27 <sup>th</sup> March 2020, and between 23:00 2 <sup>nd</sup> April 2020 to 04:00 3 <sup>rd</sup> April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark onsite any noise related to construction works at above noise monitoring nights for which the results were lower than baseline noise level. Hence, ET analysed that the dominant noise source should be road traffic noise but not the	04/05/2020
COM-2020- 0091	28/03/2020	Project hotline	CCZJV	Noise	28/03/2020		04/03/2020
COM-2020- 0093	06/04/2020	Project hotline	CCZJV	Noise	06/04/2020	project-related construction noise. The complaint case on 6 <sup>th</sup> Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 <sup>th</sup> April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work	28/04/2020

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						at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152- 20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night time limit 55dB (A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0096	20/04/2020	Project hotline	CCZJV	Noise	20/04/2020	A continues complaint were received on 20 Apr and 21 Apr 2020. A resident of Wai Wah Centre	
COM-2020- 0097	20/04/2020	Project Email	CCZJV	Noise	20/04/2020	filed three complaints about the noise nuisance generated by the nearby construction activities	
COM-2020- 0098	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	during daytime. Two complaints were made through project hotline on 20 <sup>th</sup> Apr 2020 at 10:57 a.m. and 21 <sup>st</sup> Apr 2020 at 9:03 a.m., while the other one was through project email on 20 <sup>th</sup> Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period	19/05/2020

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						should be mini piling works, which is opposite to Wai Wah Centre. According to the contractor's work schedule, major day work activity was mini- piling operation since early Feb 2020 at zone 2 in central median at non-restricted hours, from Mondays to Saturdays between 0800 and 1800 not including General Holidays. The mini piling operation on 20 <sup>th</sup> & 21 <sup>st</sup> Apr 2020 was carried out at non restricted hours. The limited level of noise generated by the construction of the Project during the non-restricted daytime hours will be 75 dB (A) for dwelling. The mini piling operation on 20 <sup>th</sup> and 21 <sup>st</sup> Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22 <sup>nd</sup> Apr 2020 were 73.5 dB (A) and 72.6 dB (A) respectively. No noise exceedance was occurred at NMS 5A and NMS 6A. The construction activity on 22 <sup>nd</sup> Apr 2020 was similar to 20 <sup>th</sup> and 21 <sup>st</sup> Apr 2020. Therefore, ET's day-time monitoring result on 22 <sup>nd</sup> April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20 <sup>th</sup> and 21 <sup>st</sup> April 2020. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0099	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	The complaint cases on 21 <sup>st</sup> Apr 2020 was received by project hotline from Police. According to the complainant who is the local resident at Wai Wah Centre, the noise source(s) of the concerned	05/05/2020

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						nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15 <sup>th</sup> April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23 <sup>rd</sup> April 2020 to 04:00 24 <sup>th</sup> April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0100	23/04/2020	Project hotline	CCZJV	Noise	23/04/2020	The complaint was received via project hotline on 23 <sup>rd</sup> April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines	11/05/2020

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						disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23 <sup>rd</sup> April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22 <sup>nd</sup> April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 <sup>rd</sup> April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road	

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						traffic noise but not the project-related construction noise.	
COM-2020- 0101	28/04/2020	1823	CCZJV	Noise	28/04/2020	The complainant on via ICC1823 on 28 <sup>th</sup> April 2020 complained about the noise and odor nuisance generated from the night-time asphalt laying construction works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. The major construction works was road surface remedial work surface remedial work since 15 <sup>th</sup> April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road surface remedial works on 27^28 April 2020. The Main Contractor complied with CNP No.: GW-RN0152-20 that allowed PME used in Group C or Group F. According to the Main Contractor, advance "Notice to Affected Residents" had been issued and distributed on	15/05/2020

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						26 <sup>th</sup> March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2 <sup>nd</sup> and 28 <sup>th</sup> April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0151	10/11/2020	EPD	CCZJV	Water	10/11/2020	The complainant on 10 <sup>th</sup> November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00. The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road	27/11/2020

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						or traffic lanes. ET conducted ad-hoc site inspection on 17 <sup>th</sup> November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been provided at the site boundary of Zone 3. ET analyzed that released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes.	
COM-2020- 0153	20/11/2020	1823	CCZJV	Noise	20/11/2020	The complainant on via ICC1823 on 20 <sup>th</sup> November 2020 complained about the noise generated from the night-time asphalt laying construction works between Sha Tin Station and nearby Wo Che Estate. Although the main contractor no work at zone 5, but the major night- time construction works was road surface remedial work which was related to the complainant concerned. According to the Main Contractor, the major construction works was road surface remedial work since 19 <sup>th</sup> November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. 3.20 No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure	7/12/2020

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						"SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night- time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.	
COM-2020- 153	24/11/2020	EPD	CCZJV	Water	24/11/2020	The complaint case is still under ET's investigation.	-
COM- 2020154	30/11/2020	1823	CCZJV	Noise	30/11/2020	The complaint case is still under ET's investigation.	-
COM- 2020155	30/11/2020	1823	CCZJV	Dust	30/11/2020	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	1	1
Noise	19	2	21
Water	0	2	2
Waste	0	0	0
Total	19	0	24

#### 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

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Parameters	Date	Observations and Recommendations	Follow-up		
		Observation:	-		
	5 Nov 2020	1. NRMM label should be shown on machine at Zone 1 to fulfill requirement of APO.	1. NRMM label has been affixed. (Zone 1)		
Air Quality	17 Nov 2020 (ad hoc)	<b>Reminder:</b> 1. The frequency of water spray shall be increased for unpaved area to reduce the dust impact. (Zone 1)	-		
Noise	No specific obs	ervation was identified in the reporting month.	<u></u>		
	5 Nov 2020	<b>Observation:</b> 1. Stagnant water should be cleared at Zone 1.	1. Stagnant water was cleared. (Zone 1).		
	12 Nov 2020	<b>Observation:</b> 1. Drainage shall be cleaned regularly to prevent sludge leakage. (Zone 4, NF40)	1. Drainage has been cleared. (Zone 1)		
Water Quality	19 Nov 2020	<ul> <li>Observation:</li> <li>1. Sediment of Sedimentation rank should be cleared regularly to ensure the quality of treated water at Zone 3.</li> <li>Reminder:</li> <li>1. Contractor was reminded to prevent water leakage outside site boundary at Zone 2.</li> </ul>	<ol> <li>Sedimentation Tank has been cleared. (Zone 3).</li> </ol>		
	5 Nov 2020	<b>Observations:</b> 1. General waste should be cleared to maintain good site practice at works area B.	1. Debris has been removed (Works Area B)		
		2. Drip tray should be provided under chemical containers at Zone 1 to prevent chemical pollution to environment if there any leakage.	2. Container has been provided to prevent leakage. (Zone 1)		
	19 Nov 2020	<b>Observations:</b> 1. Drip Tray should be provided for chemical containers to prevent chemical pollution when leakage occur at Zone 3.	<ol> <li>Chemical drums have been removed.</li> <li>Prevention measures</li> </ol>		
Chemical and Waste		2. Sand bags or border should be provided to prevent sludge leakage outside to the site boundary at Zone 3.	(cover) have been provided to avoid leakage of stockpile. (Zone 3).		
Management			1. Chemical Drums have		
		<b>Observations:</b> 1. Provide mitigation measure, such as drip tray, for the chemicals containers to prevent spillage.	been removed. (Zone 4) 2. Broken sandbag has been replaced. (Zone 4)		
	26 Nov 2020	2. Replace the broken sandbags and enhance mitigation measures to prevent leakage of silty material outside boundary (Zone 4).	3. Prevention measures (border) have been		
	26 NOV 2020	3. Remove the stack of excavated material to avoid leakage out of boundary (Zone 4).	provided to avoid leakage of stockpile. (Zone 4)		
		4. Remove the stagnant water mixed with oil inside the drip tray and provide a plug for the tray as circled (Zone 3).	4. Stagnant Oily water was cleared and a plug has been provided. (Zone 3)		
Land Contamination		No deficiency was found during the reporting m	onth.		
Landscape and Visual		No specific observation was identified in the reporting	ıg month.		

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