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Report No.: 0064/18/ED/0569A

Hong Kong.

## **MONTHLY EM&A REPORT**

February 2021

Client :		Civil Engineering and Development Department, HKSAR	
Contract No.	:	NDO 03/2018	
Contract Name :		Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)	
Report No.	:	0064/18/ED/0569A	

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1

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



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



Our ref: PL-202103027

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

Attention: Miss FUNG Cannifer

12 March 2021

Dear Miss Fung,

## NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for February 2021

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0569A, 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)



Date 12 March 2021 Our Ref. MCL/ED/0121/2021/C

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

**BY HAND & E-MAIL** 

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 February 2021 (0064/18/ED/0569A)

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/0569A) for your retention. This monthly EM&A Report has been certified by ETL and verified by IEC accordingly.

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

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

David Hung **Environmental Team Leader** 

C.C.

IEC

Attn: Mr. Kevin Yip / Ms. Cannifer Fung (by E-mail) CEDD AECOM Attn: Mr. Albert Yu / Mr. Jacky Tse / Mr. Andrew Cheng / Mr. Matthew Ma (by E-mail) 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)

Encl.



### TABLE OF CONTENTS

3. NOISE94. LANDSCAPE AND VISUAL145. WASTE MANAGEMENT146. SITE INSPECTION167. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE178. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES199. FUTURE KEY ISSUES20	EXE	CUTIVE SUMMARY	<b>I</b>
3. NOISE94. LANDSCAPE AND VISUAL145. WASTE MANAGEMENT146. SITE INSPECTION167. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE178. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES199. FUTURE KEY ISSUES20	1.	INTRODUCTION	1
4.LANDSCAPE AND VISUAL145.WASTE MANAGEMENT146.SITE INSPECTION147.ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE148.IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES149.FUTURE KEY ISSUES24	2.	AIR QUALITY	5
5.WASTE MANAGEMENT146.SITE INSPECTION107.ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE178.IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES199.FUTURE KEY ISSUES20	3.	NOISE	9
6.SITE INSPECTION107.ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE118.IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES159.FUTURE KEY ISSUES20	4.	LANDSCAPE AND VISUAL	14
7.ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE18.IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES19.FUTURE KEY ISSUES2	5.	WASTE MANAGEMENT	15
<ul> <li>8. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES 19</li> <li>9. FUTURE KEY ISSUES 20</li> </ul>	6.	SITE INSPECTION	16
9. FUTURE KEY ISSUES 20	7.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE	17
	8.	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	19
10. CONCLUSIONS2°	9.	FUTURE KEY ISSUES	20
	10.	CONCLUSIONS	21

### FIGURES

Figure 1	Project General Layout
Figure 2a	Air Monitoring Locations
	Nistan Mantenium Langette

Figure 2b Noise Monitoring Locations

### LIST OF APPENDICES

Appendix A	Construction Programme
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- Appendix B Project Organization Chart
- Appendix C Action and Limit Levels for Air Quality and Noise
- Appendix D Calibration Certificates of Monitoring Equipment
- Appendix E Environmental Monitoring Schedules, Examination Schedules and Arrangements on Deferral of Class Resumption for All Schools
- Appendix F Air Quality Monitoring Data
- Appendix G Noise Monitoring Data
- Appendix H Event Action Plans
- Appendix I Waste Flow Table
- Appendix J Environmental Mitigation Implementation Schedule (EMIS)
- Appendix K Weather and Meteorological Conditions during Reporting Month
- Appendix L Cumulative statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions
- Appendix M Summary of Site Audit in the Reporting Month



### 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 February 2021 and 28 February 2021. 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>Noise barrier foundation works</li> <li>Trial pits excavation</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Noise barrier foundation works</li> <li>Trial pits excavation</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pier construction works</li> <li>Sign Gantry footing works</li> <li>Noise barrier foundation works</li> <li>Construction of Lagging wall and retaining wall</li> <li>Demolition of existing parapet</li> <li>Pre-drilling works</li> <li>Demolition works for existing central median and temporary highway guard installation</li> <li>Lane shifting works</li> </ul>	<ul> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Demolition works for existing central median</li> <li>Foundation works for Footbridge NF66 and NF40</li> <li>Mini Pile works</li> <li>Temporary road and site access construction works</li> <li>Lane shifting 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>Noise Barrier Foundation Works</li> <li>Soil replacement works on slopes</li> <li>Mini Pile works</li> <li>Construction for temporary haul road and site access</li> <li>Lane shifting works</li> <li>Pre-drilling 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 4, 10, 18 and 25 February 2021 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. Two complaint cases were referred by 1823 hotline concerning about the noise and dust nuisance to local residents on 19<sup>th</sup> to 20<sup>th</sup> February and 22<sup>nd</sup> February 2021 respectively.

### **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 27<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> February 2021 and 28<sup>th</sup> February 2021.

### 1.2 **Project Organization**

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

1	.2.3	

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		
Main Contractor (CCZIV)	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>Noise barrier foundation works</li> <li>Trial pits excavation</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities diversion</li> <li>Noise barrier foundation works</li> <li>Trial pits excavation</li> </ul>	<ul> <li>Tree Works (including Preservation / Felling / Pruning / Transplantation)</li> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Pier construction works</li> <li>Sign Gantry footing works</li> <li>Noise barrier foundation works</li> <li>Construction of Lagging wall and retaining wall</li> <li>Demolition of existing parapet</li> <li>Pre-drilling works</li> <li>Demolition works for existing central median and temporary highway guard installation</li> <li>Lane shifting works</li> </ul>	<ul> <li>Underground utilities detections</li> <li>Underground utilities diversion</li> <li>Demolition works for existing central median</li> <li>Foundation works for Footbridge NF66 and NF40</li> <li>Mini Pile works</li> <li>Temporary road and site access construction works</li> <li>Lane shifting 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>Noise Barrier Foundation Works</li> <li>Soil replacement works on slopes</li> <li>Mini Pile works</li> <li>Construction for temporary haul road and site access</li> <li>Lane shifting works</li> <li>Pre-drilling 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**.

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

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

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	06/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	09/11/2018	30/11/2023
Construction Noise Permit for Road Closure works at	GW-RN0917-20	20/1/2021	15/3/2021
restricted hours	GW-RN0798-20	12/11/2020	11/5/2021

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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 5	*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 12	*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 5	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 12	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.

5

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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  $\mu$ m 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 February 2021 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
AMS 5	Tin Liu	Village
AMS 8	Lek Yuen Estate	Residential
AMS 11A	Sheung Wo Che	Village
AMS 12	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 5, 8, 11A and 12 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.

Table 2.4	Summary of 24-hr TSP Monitoring Results						
Parameter	Monitoring Station						
	AMS 5	50	44 - 53	156			
24-hr TSP	AMS 8	52	44 - 69	161	260		
in µg/m³	AMS 11A	63	57 - 68	165	200		
	AMS 12	50	47 - 55	168			

Table 2.5

### Summary of 1-hr TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m <sup>3</sup> )	Limit Level (µg/ m <sup>3</sup> )
	AMS 5	62	50 - 73	340	
1-hr TSP	AMS 8	67	45 - 97	336	500
in µg/m³	AMS 11A	76	52 - 86	335	500
	AMS 12	65	52 - 70	296	

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.

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	1488271
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488272
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488314
4	Casella	CEL-120 Series	Calibrator	1677126
5	Casella	CEL-120 Series	Calibrator	2383207
6	Casella	CEL-120 Series	Calibrator	2383886
7	Casella	CEL-120 Series	Calibrator	4386289

### Table 3.1 Noise Monitoring Equipment

### 3.3 Monitoring Parameters and Frequency

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

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

Parameter	Frequency and Period
LAeq (30min)	At each station at 0700-1900 hours on normal weekdays at a frequency
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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Monitoring			Type of
Station	Location	Land Uses	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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Table 3.4         Summary of Day Time Noise Impact Monitoring Results				
Monitoring Station	L <sub>eq (30min)</sub> Range, dB(A) Construction Noise Level	L <sub>eq (30min)</sub> Limit Level, dB(A)		
NMS1	60.8 - 63.6	75		
NMS2	51.6 – 57.6	75		
NMS3	62.7 - 67.8	75		
NMS4	62.5 - 64.4	75		
NMS5A	64.9 - 69.8	75		
NMS6A	70.3 – 73.1	75		
NMS7	60.6 - 66.2	75		
NMS8	64.2 - 68.5	75		
NMS9	62.3 - 69.4	75		
NMS10A	62.2 - 69.5	70*		
NMS11	54.5 - 57.3	75		
NMS12	62.3 - 67.0	70*		
NMS13	60.9 - 70.0	75		
NMS14	57.4 - 60.4	75		
NMS15	60.8 - 66.1	75		
NMS16	58.8 - 62.4	75		
NMS17	60.6 - 66.8	70*		
NMS18	56.0 - 61.1	75		
NMS19	59.3 - 65.7	75		
NMS20	58.2 - 66.8	75		
NMS23	58.9 - 66.2	75		
NMS24	62.3 - 68.4	75		
NMS25A	60.2 - 66.5	75		
NMS26	67.3 - 68.4	75		
NMS27	64.3 - 69.8	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.

3. The examination schedule was provide in Appendix E.

3.7.6 Regular night time noise monitoring were conducted on 4, 10, 18 and 25 February 2021 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.** 

<sup>2. 70</sup> dB(A) for schools and 65 dB(A) for schools during examination period.

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Table 3.5	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	58.1 - 60.0	55	61.4		
NMS2	51.6 – 53.1	55	49.7		
NMS3	61.4 - 63.3	55	70.9		
NMS4	57.3 – 58.7	55	62.6		
NMS5A	59.4 - 62.4	55	67.9		
NMS6A	67.7 – 71.1	55	71.5		
NMS7	42.7 – 58.5 <sup>[2]</sup>	55	59.0		
NMS8	58.2 - 64.2	55	64.4		
NMS9	51.9 – 54.2 <sup>[2]</sup>	55	53.5		
NMS11	50.6 - 54.8 <sup>[2]</sup>	55	53.2		
NMS13	49.7 – 57.2 <sup>[2]</sup>	55	57.3		
NMS14	49.5 – 54.5 <sup>[2]</sup>	55	54.1		
NMS15	57.2 - 58.7	55	58.8		
NMS16	58.1 – 59.5	55	60.1		
NMS18	59.0 - 60.2	55	63.2		
NMS19	59.1 – 59.9	55	61.7		
NMS20	57.1 – 57.6	55	57.7		
NMS23	49.7 – 59.6 <sup>[2]</sup>	55	59.9		
NMS24	51.6 - 57.7 <sup>[2]</sup>	55	58.0		
NMS25A	57.4 - 58.7	55	59.7		
NMS26	57.1 – 61.0	55	61.2		
Noto: 1)	was measured at night time (2	200 0700)			

Table 3.5 Summary of Night Time Noise Impact Monitoring Results

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

When the Average Measured Noise Level is greater than Limit Level and baseline level, 2) 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.
- Day time construction noise monitoring was carried out in the reporting month, no Action / 3.7.7 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**.

15



### 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 4, 10, 18 and 25 February 2021. The site inspection held on 25 February 2021 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**.

16



### 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 4, 10, 18 and 25 February 2021 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 Two complaint cases were referred by 1823 hotline concerning about the noise and dust nuisance to local residents on 19th to 20th February and 22nd February 2021 respectively.
- A complainant who did not wish to disclose his identity called 1823 hotline on 22<sup>nd</sup> February 7.2.2 2021 regarding the dust nuisance at slip road to Fo Tan Road. A repetitive case with reference no. 3-6566315922 was referred to the Main Contractor of the captioned Project and ET on 23rd February 2021. According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in February 2021 was mini-piling works. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. The Main Contractor had maintained the frequency of water spraying on site at the haul roads and soil slope area, water spray time was recorded in the log book which had been kept on site for reminding and recording the mitigation activity. The Main Contractor had covered the soil slope to minimize the exposed surface area for reducing dust emission. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to minimize the dust impact. The Main Contractor proposed to reduce the exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.
- 7.2.3 The complaint was received via 1823 on 20th February 2021 01:00am concerning about the night-time construction works near Sha Tin Police Station at 19^20 February 2021. According to the Main Contractor, there was night-time construction works near Sha Tin Police Station (Zone 3 & 4) on 19^20 February 2021. The major construction works were lane shifting works conducted on 19/20 February 2021 at night-time under approved road closure setup with inforce Construction Noise Permit (CNP) no.GW-RN0798-020. According to the Main Contractor, since 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 concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. According to the Main Contractor, no concurrent operation of Power Mechanical Equipment (PME) and idling were switched off during the loading and unloading of materials and rubble by manual handling of road surface remedial works. According to the site record, electrical hand-held breaker and portable generator were used during the night works and the Main Contractor had provided acoustic enclosure with 4 side-panels and a top panel for them to operate inside the enclosure: Related road miller, asphalt paver and roller were installed with internal sound absorbing lining for engine compartments and engine doors closed during operation. The Main Contractor used a "SilentCUBE" (a product from Acoustic Innovation) as a movable acoustic enclosure for night road surface work. Environmental Team (ET) conduct a regular night-time

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noise monitoring at all monitoring stations between 23:00 25<sup>th</sup> February to 03:00 26<sup>th</sup> February 2021. The five noise monitoring stations close to the complaint receiving area of Zone 3 & 4 are NMS13, NMS14, NMS15, NMS16 & NMS26. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at five noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured result at NMS15, NMS16 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13 and NMS14 were lower than that of the limit level in 55 dB(A). The Main Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0798-20) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during the restricted hour.

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

- Increase the frequency of water spray to reduce the air impact (Zone 1, R1)
- Provide complete label of NRMM. (Zone 4, SB)
- Provide clear and complete label of NRMM. (Zone 5)

Construction Noise Impact

• No specific observation was identified in the reporting month.

Water Quality Impact

- The contractor is reminded to treat the waste water (e.g. by Wetsep) to ensure discharge quality standard before disposal (Zone 4 south bound).
- The contractor is reminded to clear the water ponding at the cycle track area (Zone 4).
- Sedimentation tank should be cleaned and desilted to maintain the efficiency. (Zone 4, SB)
- Mitigation measure shall be provided for site boundary to prevent soil leakage. (Zone 4)

#### Chemical and Waste Management

- Keep site area clean and tidy, housekeeping. (TKO, storage area)
- Provide mitigation facility (e.g. drip tray) for the chemicals to avoid spillage (Zone 3).
- Waste storage tank should be cleared regularly to maintain good site hygiene. (Zone 3)
- Provide drip tray for chemical storage to prevent chemical leakage. (Zone 4, SB)
- Drip tray shall be provided for chemicals to prevent chemical leakage. (Zone 4, NF40)
- Remove the general waste or provide storage area/ tank for waste storage. (Zone 4, NF40)
- Contaminated soil shall be treated as chemical waste. (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 4, 10, 18 and 25 February 2021 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 4, 10, 18 and 25 February 2021. 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 Two complaint cases were referred by 1823 hotline concerning about the noise and dust nuisance to local residents on 19th to 20th February and 22nd February 2021 respectively.

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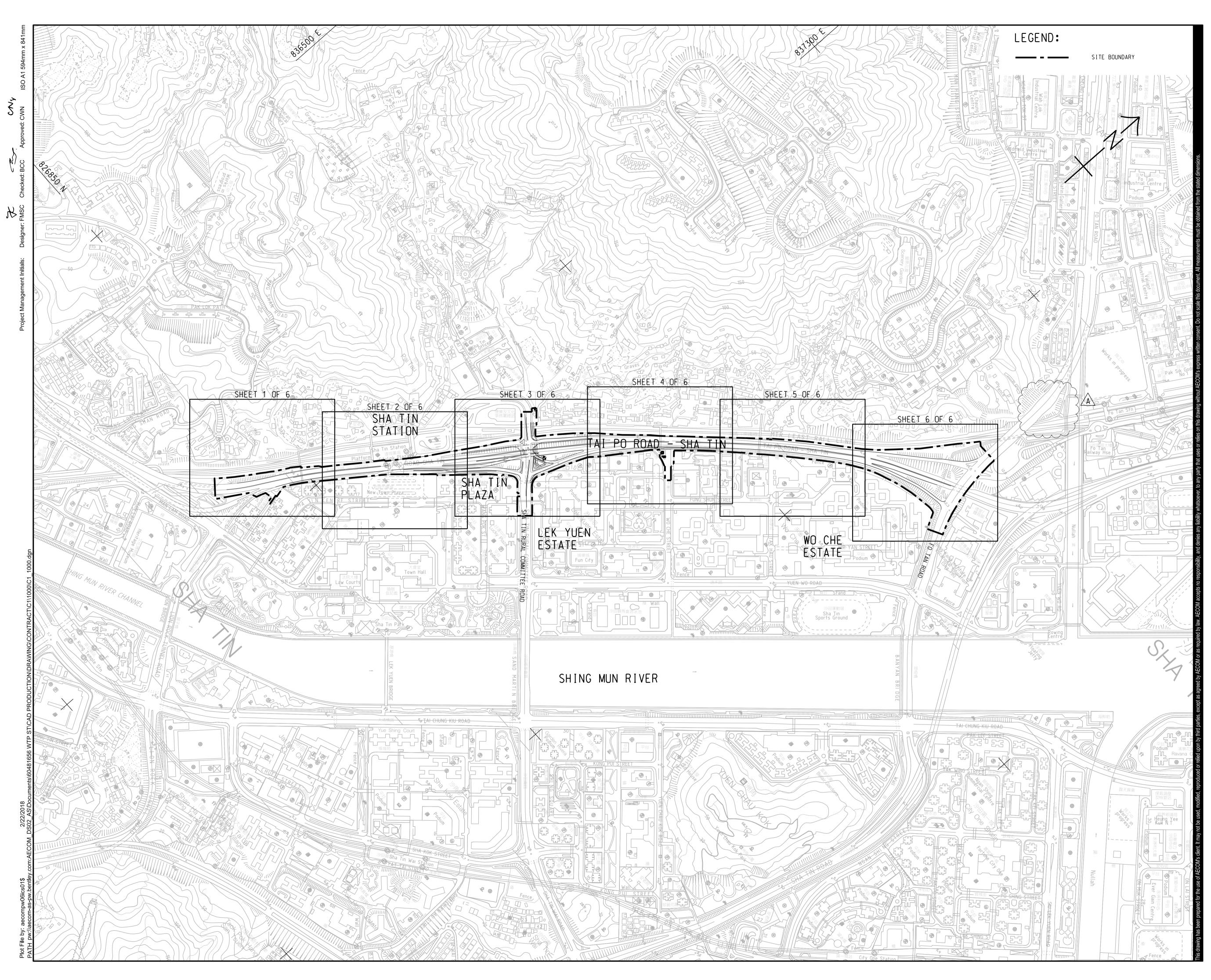
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Figure 1

**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>



CEDD
土木工程拓展署
Civil Engineering and
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		I	
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А	FEB. 18	TENDER ADDENDUM NO.2	BBC
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<b>I/R</b> 修訂	DATE 日期	<b>DESCRIPTION</b> 內容摘要	CHK. 複核

## **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>

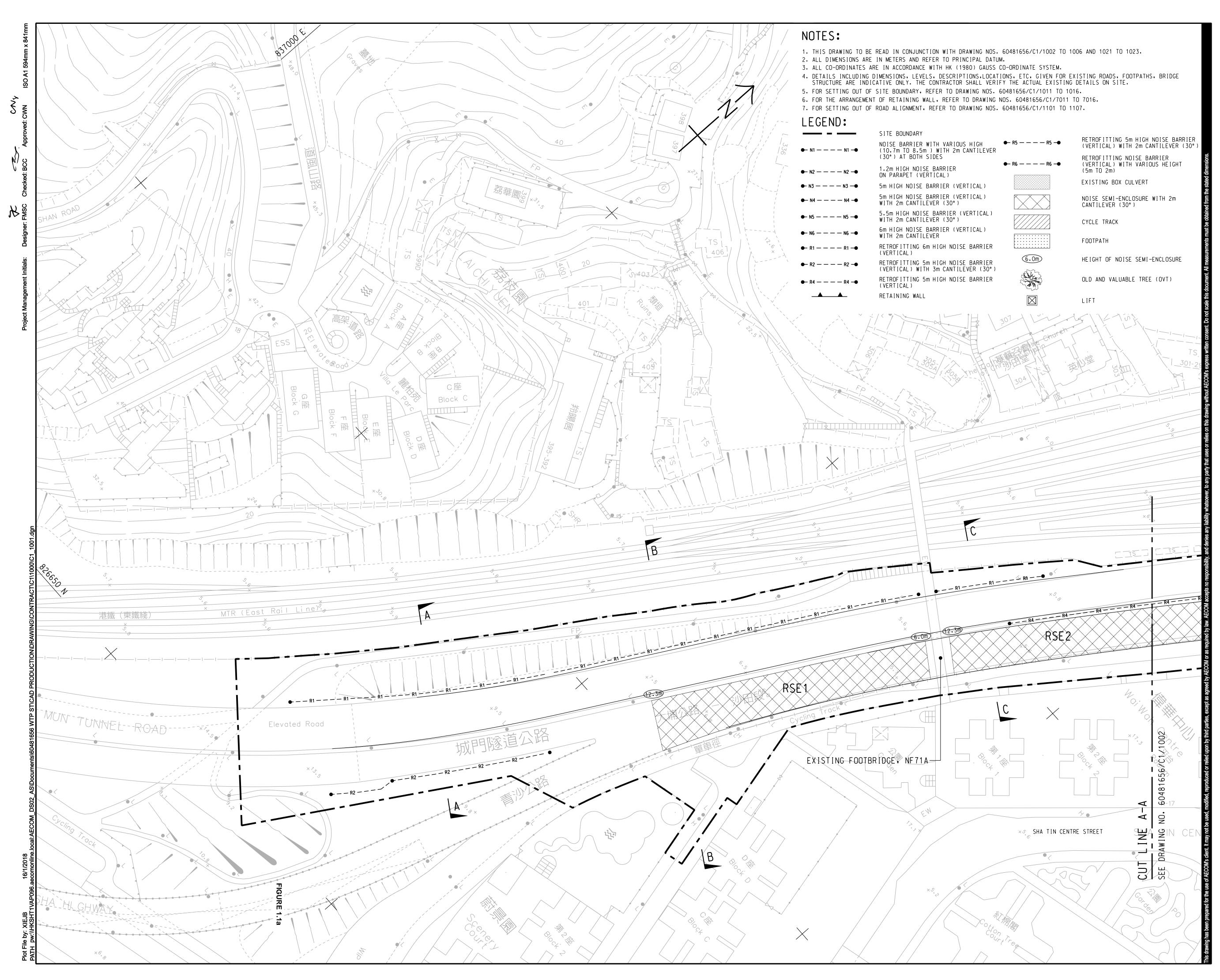
NE/2017/05

SHEET TITLE <sup>圖紙名稱</sup>

KEY PLAN FIGURE 1.1a

## SHEET NUMBER 圖紙編號

60481656/C1/1000A





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

## CLIENT <sub>業主</sub>



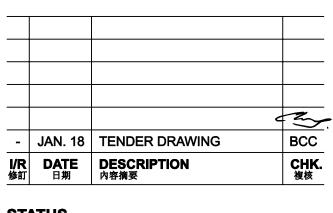
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## STATUS <sub>階段</sub>

# 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

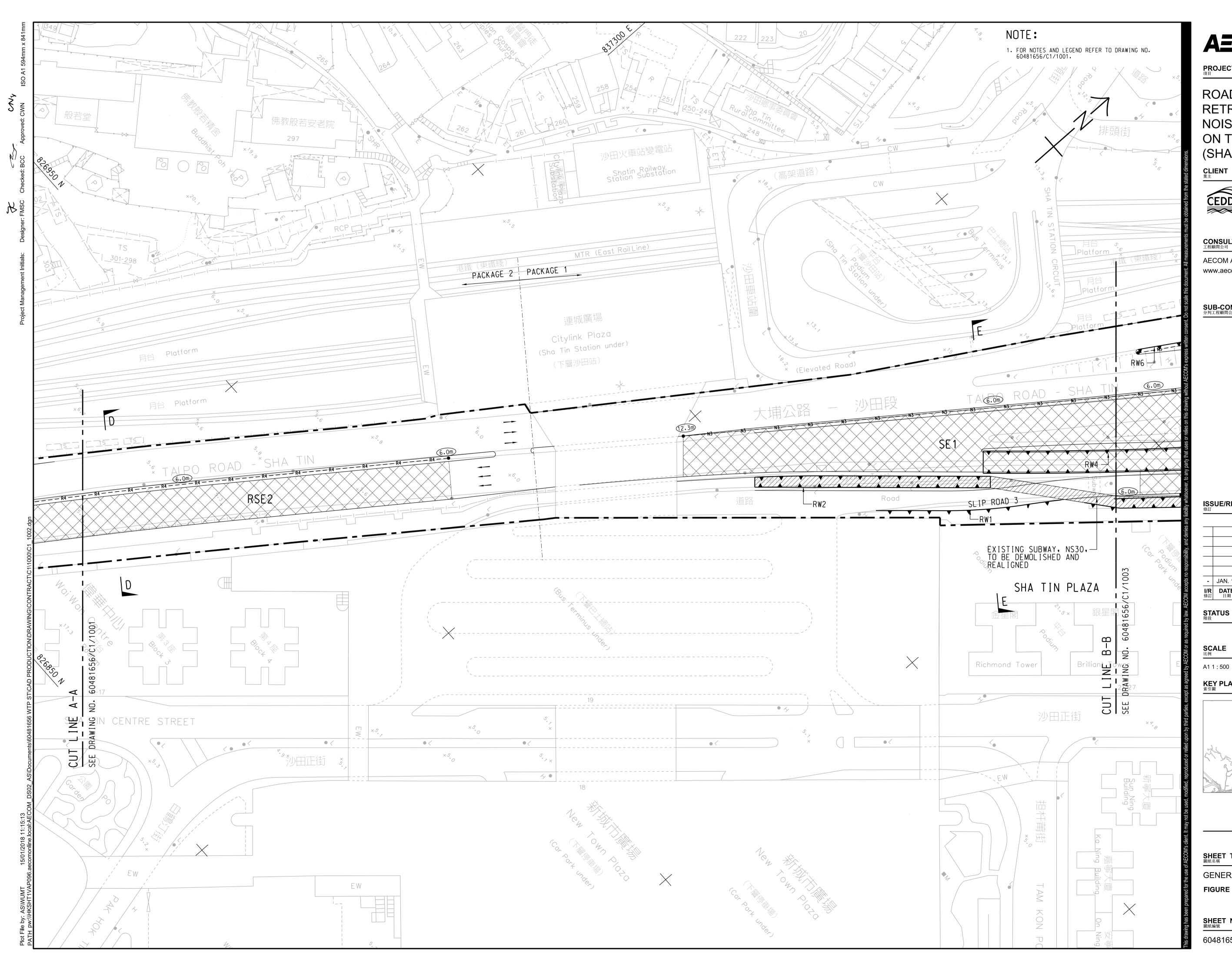
GENERAL LAYOUT PLAN FIGURE 1.1 b

## SHEET NUMBER <sup>圖紙編號</sup>

60481656/C1/1001

NE/2017/05

## SHEET 1 OF 6





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

## CLIENT <sup>業主</sup>



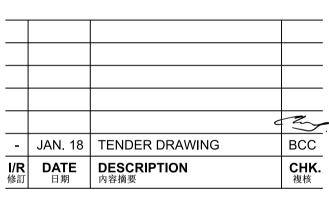
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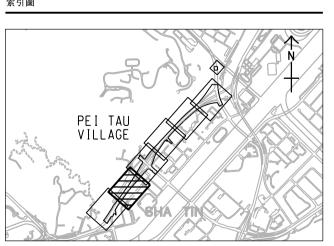
## STATUS <sub>階段</sub>

# SCALE 比例

## DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



## CONTRACT NO. <sup>合約編號</sup>

NE/2017/05

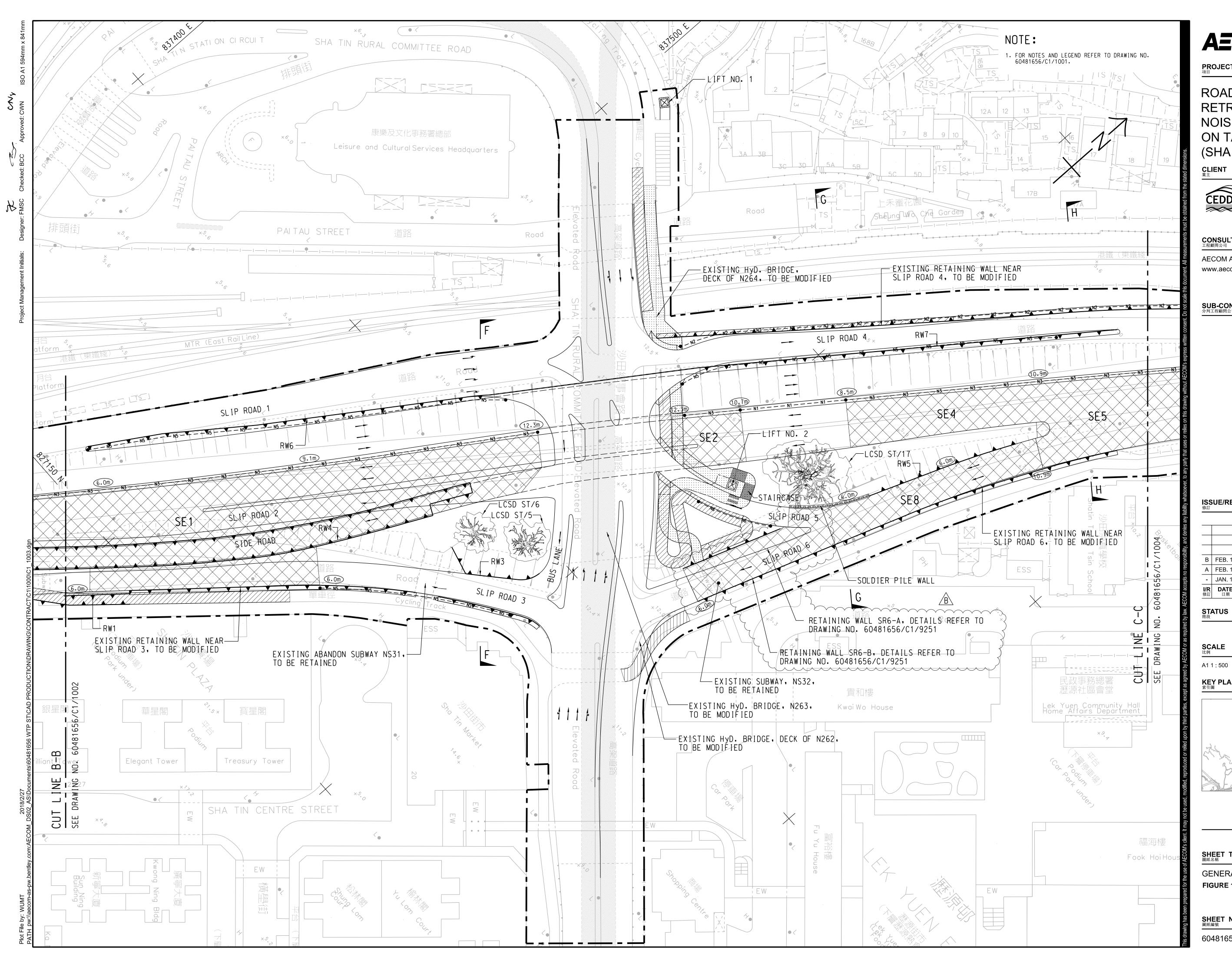
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

## SHEET NUMBER <sup>圖紙編號</sup>

60481656/C1/1002

SHEET 2 OF 6





PROJECT

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

## CLIENT <sub>業主</sub>



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-	JAN. 18	TENDER DRAWING	BCC
<b>I/R</b> 修訂	DATE 日期	<b>DESCRIPTION</b> 內容摘要	CHK. 複核
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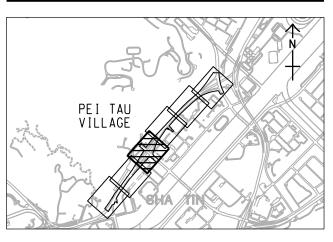
## STATUS 階段

SCALE 比例

## DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



## CONTRACT NO. <sub>合約編號</sub>

NE/2017/05

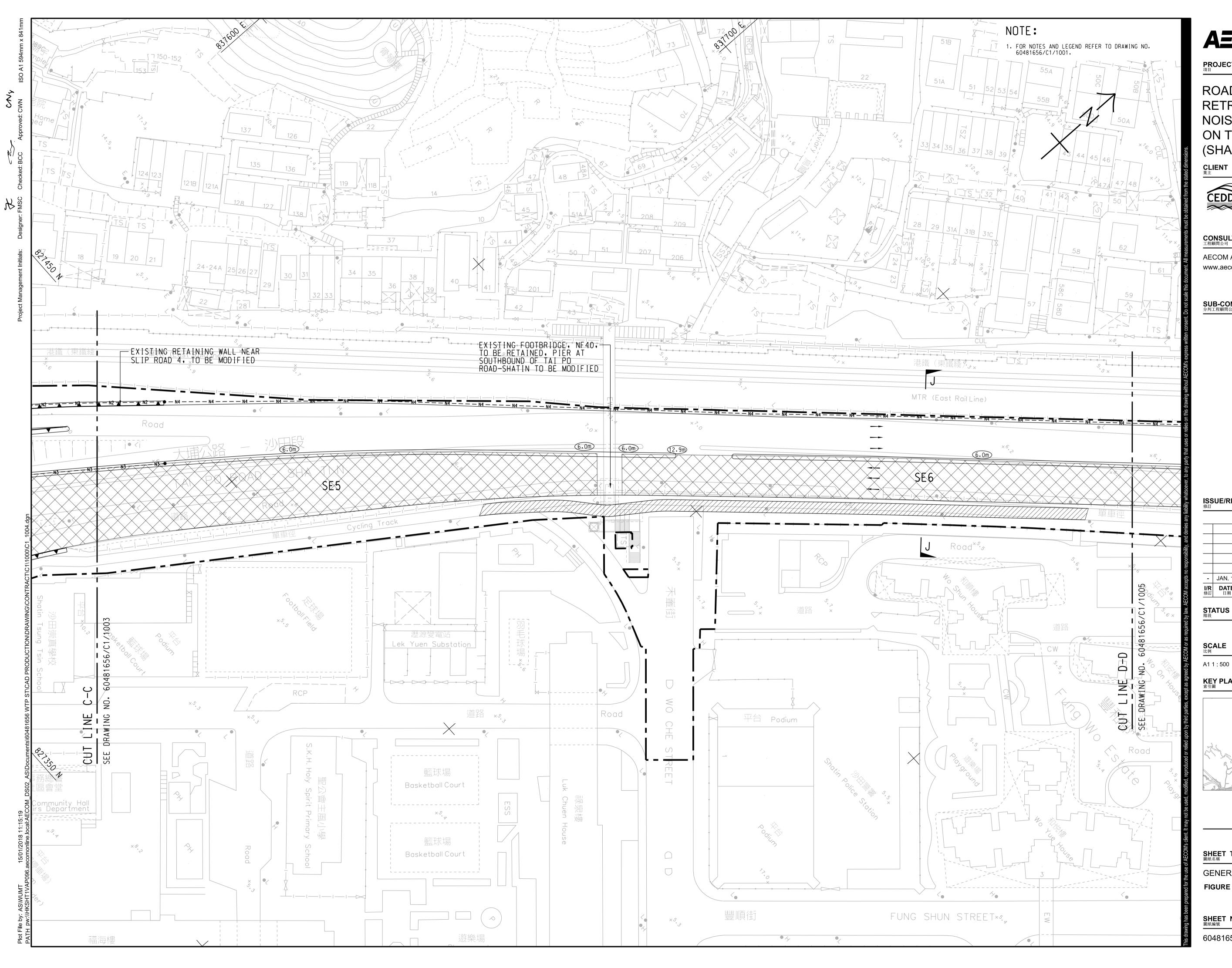
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1 b

## SHEET NUMBER 圖紙編號

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SHEET 3 OF 6





**PROJECT** <sup>項目</sup>

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

## CLIENT <sup>業主</sup>



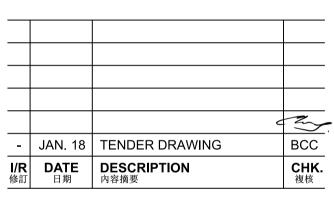
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Civil Engineering and
Development Department

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## **ISSUE/REVISION**



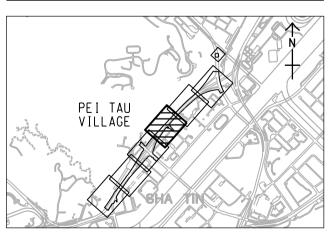
## **STATUS** 階段

# 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

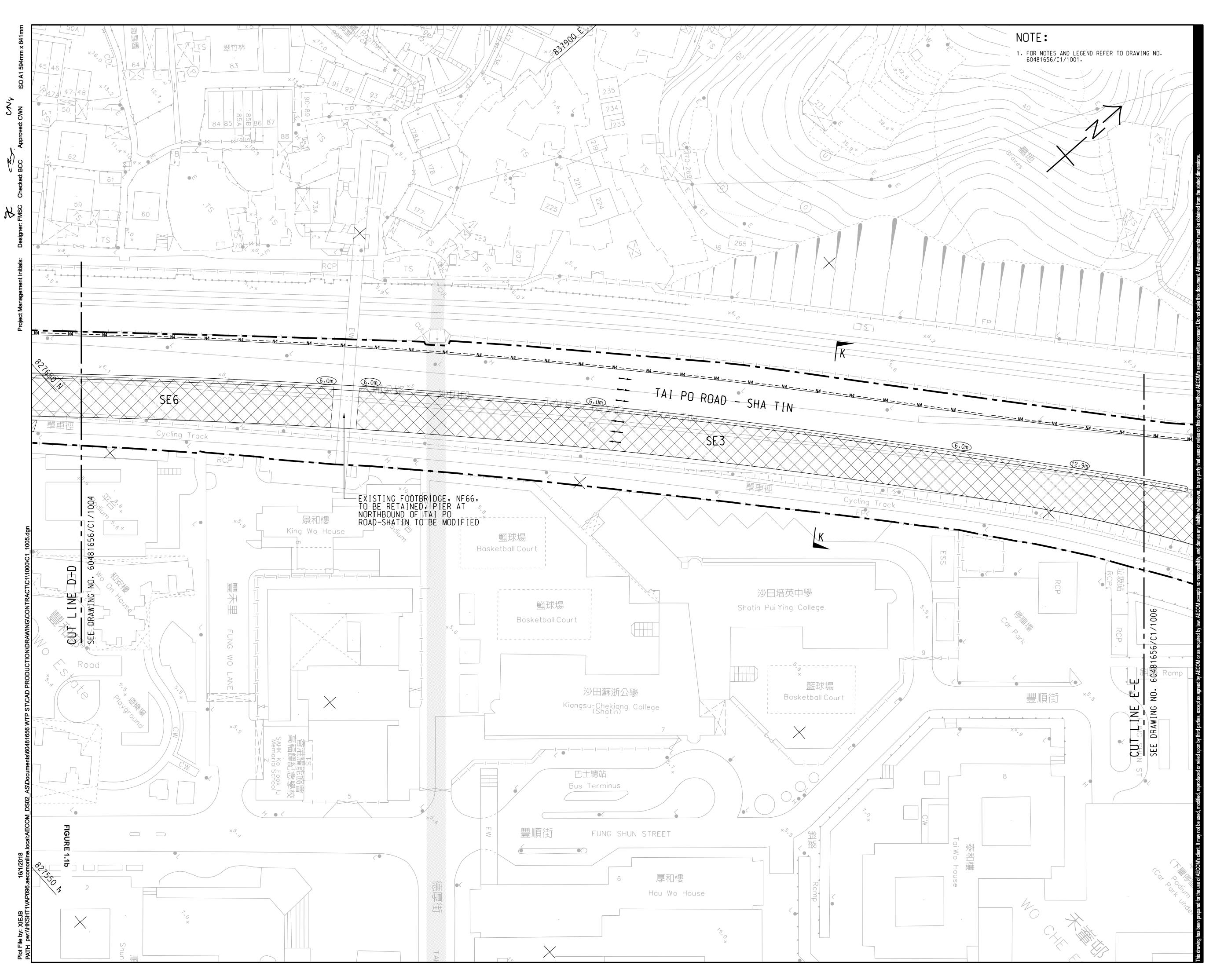
SHEET TITLE 圖紙名稱

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>



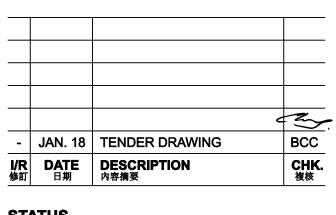
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## ISSUE/REVISION 修訂



## STATUS <sub>階段</sub>

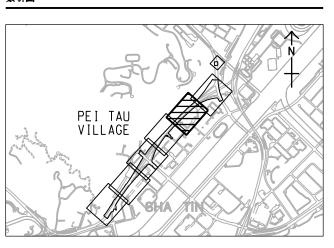
# SCALE <sup>比例</sup>

## 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

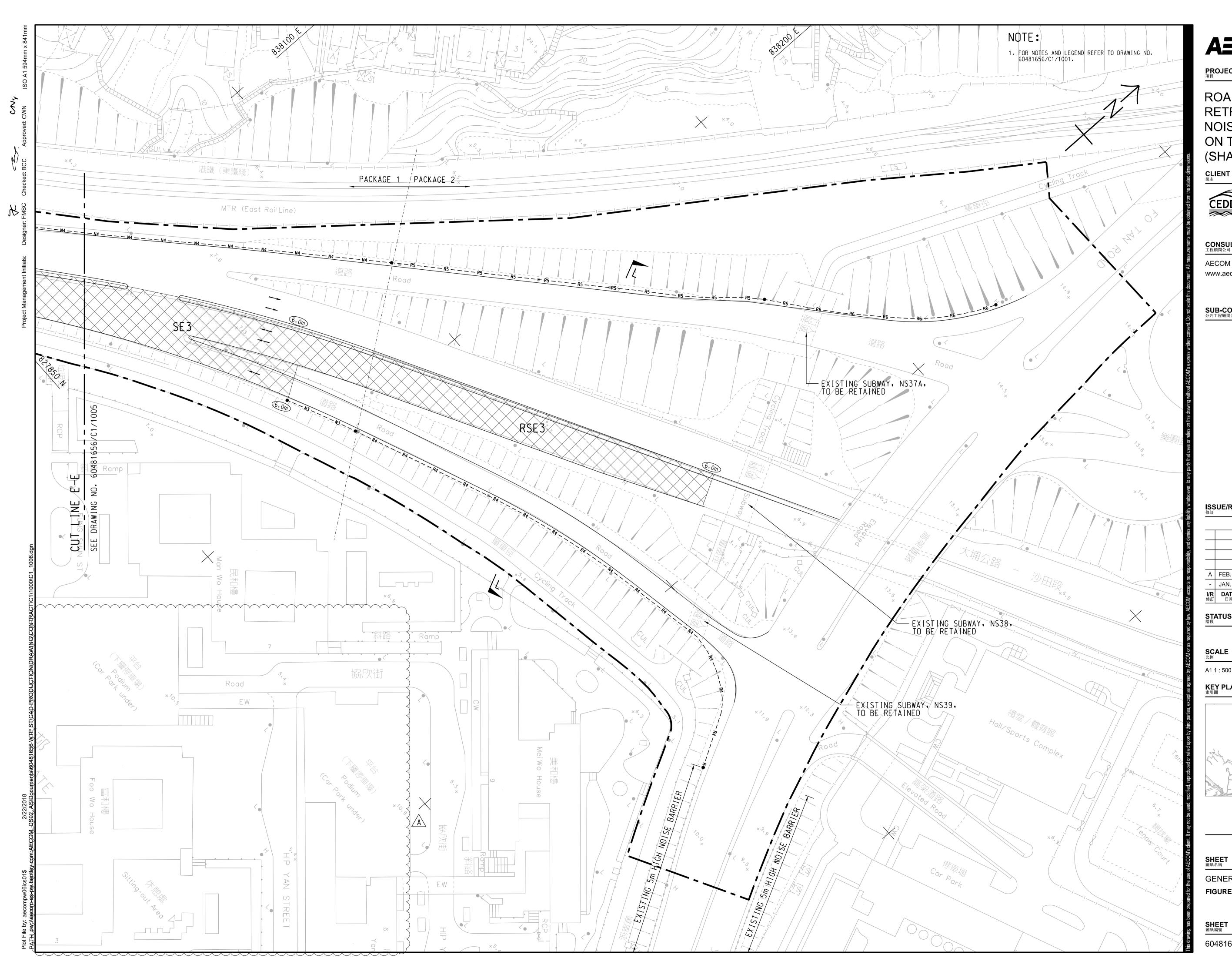
## SHEET TITLE 圖紙名稱

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>



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## **ISSUE/REVISION**

		c	2
А	FEB. 18	TENDER ADDENDUM NO.2	BCC
I	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
		-	

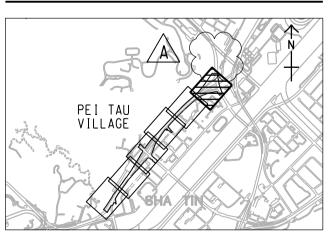
## **STATUS** 階段

## 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

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Figure 2a

**Air Monitoring Locations** 

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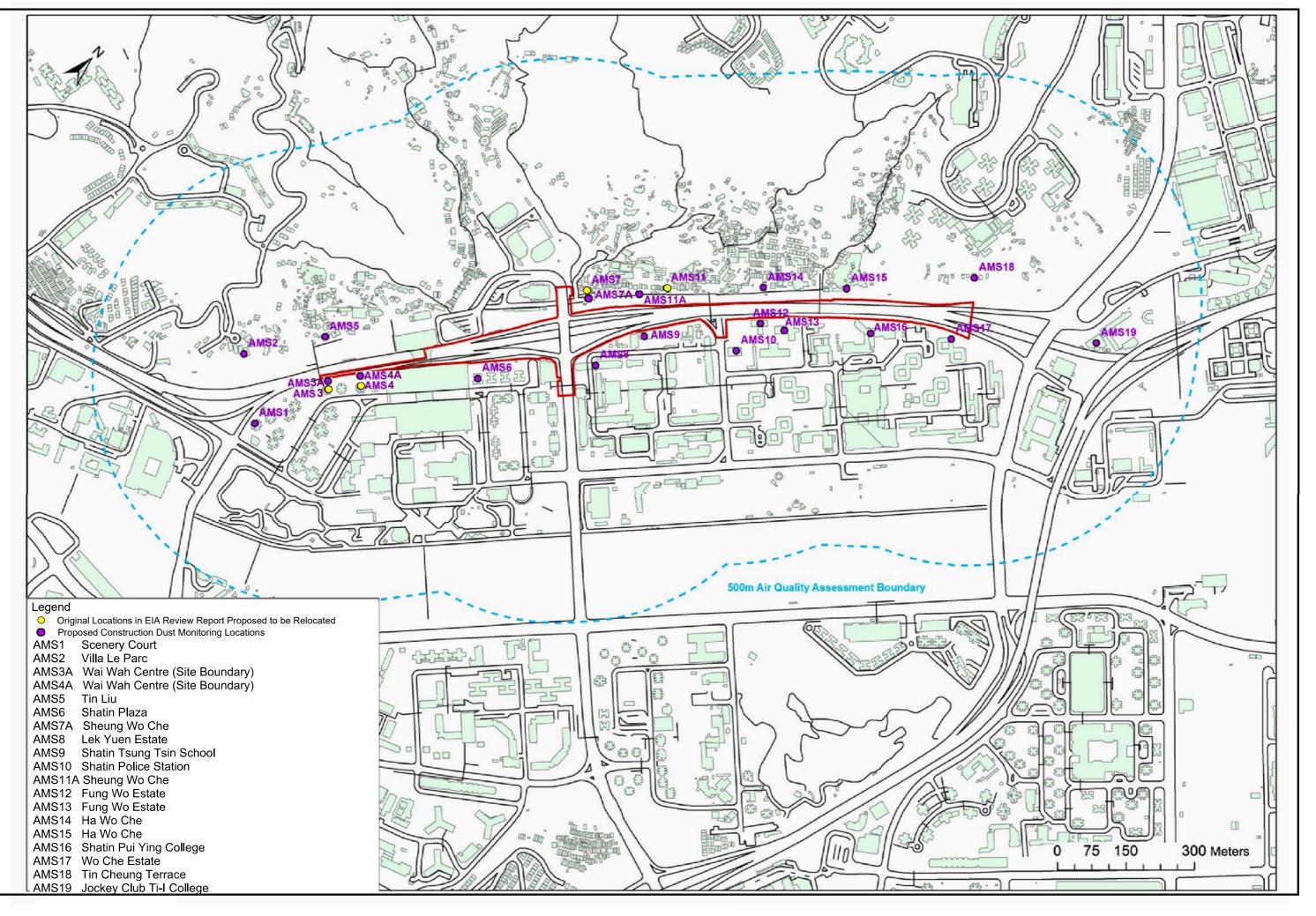


Figure 2a Air Quality Monitoring Locations



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

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



Figure 2b

**Noise Monitoring Locations** 

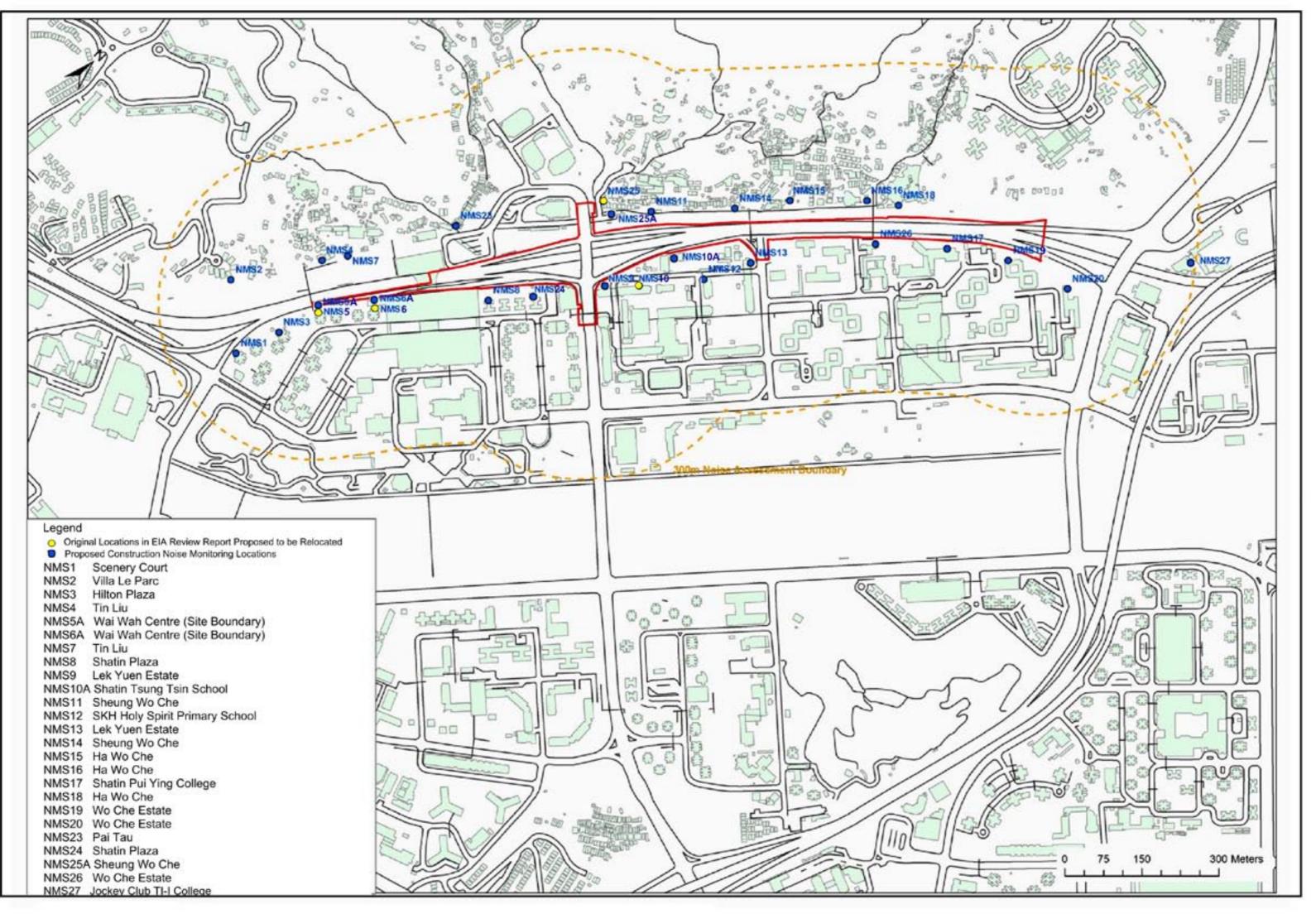


Figure 2b Noise Monitoring Locations



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** 

		Duration	Duration	awrise chiigh	APTO Stary	Artoriush	ເຮັນກ Fab	Ave Mar	Acr	1
ntract	NE/2017/05 Road Widenin	g and Re	etrofitting N	oise Bai	riers on	Tai Po	37 32	30	35	-
RELIMIN	IARIES & GENERAL REQUI	REMENT								1
SUB1403	SUBMISSION ITP's for Lighting Luminaires and System		0 31-Jan-2)*		31-Oct-20					
	All Lighting Designs		0 31-Jan-21*				ITP's for Lighting Luminaires and System			
	Combined Services Drawings (CSD)	0			31-Oc1-20		All Lighting Designs		6	
		U	0 31-Jan-21*	-	31-0c1-20		Combined Services Drawings (CSD)			
ESIGN	UBMISSION									
ES1260	Re-submit Foundation Design of Noise	23	23 31-Jan-21	22-Feb-21	01-Nov-20	23-Nov-20				
É\$1270	Mitigation Measures in Zone 3 w/Design PM Consent for Construction	28	28 23-Feb-21	22-Mar-21	24-Nov-20	21-Dec-20		Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate		-3
E\$1290	PM review & comment	28	11 07-Aug-19 A		31-Aug-19	27-Sep-19		PM Consent for Co	Istruction	
ES1300	Re-submit Superstructure Design of Noise	20	20 12-Feb-21	04-Mar-21	12-Nov-20	02-Dec-20	PM review & comment			
	Miligation Measures in Zone 1 & 2 wDesign PM Consent for Construction	28	28 04-Mar-21	01-Apr-21	02-Dec-20	30-Dec-20		Re-submit Superstructure Design of Noise Mitigation Measures in Zone	1 & 2 wDesign Certificate	
ES1330	PM review & comment	28						(	PM Consent for Construction	3
ES1330	Re-submit Superstructure Design of Noise		11 07-Aug-19 A		31-Aug-19	27-Sep-19	PMreview& comment			1
	Mitigation Measures in Zone 3 w/Design	21	21 12-Feb-21	05-Mar-21	20-Nov-20	11-Dec-20		Re-submit Superstructure Design of Noise Misgasan Mexsures in Zo	ne 3 w Design Certificate	
S1350	PM Consent for Construction	28	28 05-Mar-21	02-Apr-21	11-Dec-20	08-Jan-21			PMConsent for Construction	
S1370	PM review & comment	28	11 07-Aug-19 A	11-Feb-21	31-Aug-19	27-Sep-19	PM review & comment			
S1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20 12-Feb-21	04-Mar-21	20-Nov-20	10-Dec-20		Re-submit Superstructure Design of Noise Mitigation Measures in Zone	4 & 5 wDesign Certificate	1
S1390	PM Consent for Construction	28	28 04-Mar-21	01-Apr-21	10-Dec-20	07-Jan-21			PM Consent for Construction	
MAININ	G WORKS									
	PM Consent for Construction	28	0 11-Mar+19 A		31-Jul-19	27-Aug-19	PM Consent for Construction			4
S1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2. Lift 2 Staircase. Cycle	21	0 26-Nov-18 A	31-Jan-21	31-Dec-18	20-Jan-19	Prepare & submit Foundation Design of Pedestrian Lift 1 8	2, Lill 2 Staircase, Cycle Track Ramp & Sign Gantry wDesign C		
	PM review & comment	28	1 25-Jan-19 A	31-Jan-21	04-Aug-19	01-Sep-19	PM review& comment			14
S1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift2 Staircase, Cycle Track Ramp & Sign	35	1 13-Apr-20 A	03-Feb-21	02-Jun-20	07-Jul-20	Re-submit Foundation Design of Pedestrian Lift 1	8 2. Lilt 2 Staircase, Cycle Track Ramp & Sign Ganky wDesign Centile		3
\$1510	PM Consent for Construction	28	28 03-Feb-21	03-Mar-21	03-Nov-20	01-Dec-20		PM Consent for Construction		
S1530	PM review & comment	28	1 02-Jan-19 A	31-Jan-21	31-Jan-19	27-Feb-19	PM review & comment	5		
S1540	Re-submit Design of Watermain & Irrigation System w/Design Certilicate	32	1 02-Jan-19 A	31-Jan-21	02-Apr-19	03-May-19	Re-submit Design of Watermain & Irrigation System wDes	ign Certificate		
S1560	Prepare & submit Design of E&M System (E&M & Road Lighting) wDesign Certificate	35	35 31-Jan-21	06-Mar-21	31-Oci-20	04-Dec-20	1	Prepare & submit Design of E&M System (E&M & Road Lighting)	uDesign Certificate	1
S1570	PM review & comment	28	28 07-Mar-21	03-Apr-21	05-Dec-20	01-Jan-21			PM review & comment	
\$1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32 05-Apr-21	06-May-21	03-Jan-21	03-Feb-21				
S1590	PM Consent for Construction	28	28 07-May-21	03-Jun-21	04-Feb-21	03-Mar-21	······			
BLETT	NG & PROCUREMENT SCH	EDULE		1	-					1
BLETT	NG								5	1
	Drainage (PC pipe, monhole & gully) and Duct	30	30 31-Jan-21	01-Mar-21	31-Ocl-20	29-Nov-20	<b></b>	Drainage (PC pipe, manhole & gully) and Ducl		- 4
	CCTV for Drainage Pipe	30	5 31-Mar-20 A	04-Feb-21	01-Jun-20	30-Jun-20	CCTV for Drainage Pipe			
\$1330	Road Lighting System (Excluding Noise Milgation Measures)	30	25 31-Aug-20 A	03-Jun-21	02-Feb-21	03-Mar-21				A COMPANY
\$1390	E&M Works	30	25 31-Aug-20 A	03-Jun-21	02-Feb-21	03-Mar-21				
51410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30 21-Mar-21	20-Apr-21	11-Jan-21	. 10-Feb-21			Pedestrian Lift(Lift	Cars. E&M. Panel,
61420	Lighting System for Noise Mitigation Measures	30.	30 31-Jan-21	01-Mar-21	31-Oc1-20	29-Nov-20		Lighting System for Noise Miligation Measures		
51430	Panels for Noise Milgation Measures	30	5 31-Mar-20 A	01-Mar-21	02-Aug-20	31-Aug-20		Panels Ior Noise Mitigation Measures		
S1440	Drainage for Noise Mitigation Measures	30	30 31-Jan-21	01-Mar-21	31-Oc1-20	29-Nov-20		Drainage for Noise Mitgation Measures	0	
	Other Works (Mis, Metal Work - Finishing.	30	30 02-Mar-21	01-Apr-21	10-Feb-21	11-Mar-21			Other Works (Mis. Metal Work, Finshing, Brickwork, etc)	
DV DF	Brickwork, etc)	ELS ROA	D AND FOO	TBRIDG	E NE71A	ZONE.				
ELIMIN	ARIES WORKS									1
	PROGRAMME Zone 1 Stage 1 RSE1 CM foundation	328	124 28-Dec-19A	07-Jpt.21	31-Dec-19	05-Feb.21	and the second se		di mana	
	Zone I Stage I R I structure R1-01 to 08	268	127 28-Jul-20 A					***************************************	******	00000000
		~~0		10-03P21	01-241-20	AN-ONLINE				and the second

	Duration	Duration					nec	Fco	Mar		ha	1
1SU1034 Zone I Stage 1 R1 structure R2	435	201 20-	Feb-20 A DE	8-Oc1-21	20-Mar-20	07-Sep-21	31	32	33		34	
1SU1040 Zone 1 Stage 2 RES1 SB foundation	in 107	326 02-	Sep-20 A 10	0-Mar-22	05-Oct-21	15-Feb-22						A REAL PROPERTY AND
NSE BARRIER AND SEMI-EN	I OSUME	_	_	_		_						
LE FOUNDATION WORKS	a coordine									n an		
OUTHBOUND										-		1
Z1_1060 R2_mini piles for R2-02P to 06P (1 22nr ver)		21 01-	Jun-20 A 27	7-Feb-21	19-Oct-20	25-May-21						
Z1_1540 RSE1_mini piles for RSE1-STP to ver)	i6P (40nr 160	160 01-	Mar-21 11	1-Sep-21	20-Mar-21	05-Oci-21			The second s			
ILE CAP AND FOOTING			-			-						-
NORTHBOUND												
Z1_1000 R1_ELS for footing/cap construction R1-09 (110m_1 side)		18 19-	Oct-20 A 24	4-Feb-21	31-Ocl-20	04-Dec-20	And the second sec	R1_ELS	or fooling/cap construction R1-01 to R1-08 (110m_1 side)			÷.
Z1_1002 R1_footing construction R1-01, R1 (7nr)	03 16 17 1-08 147	88 27-	Nov-20 A 16	6-Jun-21	28-Nov-20	01-Jun-21						4
Z1_1004 R1_pile cap construction R1-02P	inr) 21	21 27-	Jan-21 A 10	0-Jul-21	02-Jun-21	26-Jun-21						1
CENTRAL BARRIER							10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		~		
Z1_1130 RSE1_ELS for footing construction RSE1-07 (83m_2 side)	ASE1-0110 46	35 02-	Sep-20 A 16	6-Mar-21	29-Oct-20	22-Dec-20			RSEI_ELSIG	r fooling construction RSE (-01 to RSE1-07 (83m_2 si	de)	-
Z1_1147 RSE1_fooling/cap construction RS RSE1-05 (5nr)	E3-01P to 105	79 02-	Nov-20 A 12	2-May-21	31-Ocl-20	09-Mar-21						
SOUTHBOUND												1
Z1_1070 R2_ELS for footing/cap constructs R2-06P (68m_2 side)	n R2-01 lo 38	30 04-	Sep-20 A U	I-Mar-21	08-May-21	24-Jun-21						
Z I_1092 R2_footing/cap construction R2-0 R2-06P(6nr)		101 23-	Dc1-20 A 16	6-Jul-21	20-Mar-21	24-Aug-21						_
Z1_1100 R2_backfill & remove ELS	12	11 15-1	Dec-20 A 29	9-Jul-21	24-Aug-21	07-Sep-21						
ORK RETWEEN FOOT PRI	OF NEWS AR	ID CITVE				_						
ORK BETWEEN FOOT BRID	GE NEVIA AN	ID CITYEI	VE PLAZ	CALLON	4E 2)							-
SUMMARY PROGRAMME								1				1
Z2SU1000 Construction Zone 2_Stage 1 RSE foundation	CM 594	219 21-	Nov-19 A 29	9-0c1-21	08-Aug-19	10-Aug-21						
Z2SU1010 Construction Zone 2_Stage 2 RSE foundation	SB 254	449 24-3	Sep-20 A 09	9-Aug-22	25-Nov-21	06-Ocl-22	ANTINI CONTRACTOR OF A CONTRACTOR OFTA CONTRAC	the second se				
FOUNDE BARMER AND SEMILEN		_	_	_	-	-				CHARLEN HER		CARGE COLOR
PILE CAP AND FOOTING	accesore:							uppe-				
CENTRAL BARRIER				_				2 · · · · · · · · · · · · · · · · · · ·		4		1
Z2_1040 ASE2_ELS for footing/bap constru ASE2-01 to RSE2-15P (174m_2 s	lion 96 je)	69 08-/	Aug-20 A 29	9-Apr-21	29-Oct-20	25-Feb-21						BSE2_ELS
Z2_1060 RSE2_footing/cap construction RS 15P (14nr)	E2-01P to 147	121 01-5	Sep-20 A 03	3-Jul-21	27-Jan-21	30-Jul-21			*****			
ORK BETWEEN CITYLINE F RELIMINARIES WORKS SUMMARY PROGRAMME 23SUSDO Zone 3a (TPR area) Slage I RW6			Nov-19 A 27			10-Nov-20						
Z3SU5030 Zone 3b (near SR6) Slage 1 Const		130 .094	eb-20 A 14	4. Jul 21	31-1-1-19	23-Nov-20						
14264100108001						1						******
Z3SU5040 Zone 3b (SB near SR6) Stage 1 Co Tower 2 & staircase	nstruct Lift 256		Mar-20 A 01		29-Jun-20	11-May-21			COCOLESCENT STREND STRENDS	**********************	***********	REAL PROPERTY AND
Z3SU5050 Zone 3b (near SR6) Stage 1 SE8 a foundation and N262 bridge	id SR6 344	413 02-	lun-20 A 27	7-Jun-22	26-Jan-21 🖌	25-Mar-22		le				
Z3SU5070 Zone 3b (near SR6) Stage 3 Const	uct SR5 682	417 28-0	Dc1-20 A 02	2-Jul-22	01-Dec-20	21-Mar-23						
Z3SU5100 Zone 3c (near SR3) Stage 1 constr SR3 & subway NS30	ict RW1, 162	218 24-	lui-20 A 28	3-Oct-21	01-Dec-20	22-Jun-21						-
Z3SU5110 Zone 3c (near SR3) Stage 1 SR2 1 RW4 410 to 414	undation & 106	384 07-5	Sep-20 A 23	3-May-22	30-Jan-21	15-Jun-21				······		
INISE BARRIER AND SEMI-EN			_	_	-							000000
PILE FOUNDATION WORKS												2
SOUTHBOUND								0				8
Z3_1522 SE1-5_sile investigation for S1E5-5		5 02-5	Iul-20 A 05	5-Feb-21	31-Aug-20	10-Sep-20		SE1-5_sile investigation for S1ES-51 (2nr)				
23_1524 SE1-5_mini piles for S1E5-51 (8nr	er) 40	40 01-4	kpr-21 24	4-May-21	24-Feb-21	16-Apr-21						
SOUTHBOUND SLIP ROAD												2
Z3_1765 SE8-1_mini piles for SR6 1-B & 2-8 9nr vernr)	(9nr raking. 72	72 24-1	Mar-21 23	Jun-21	26-Jan-21	27-Apr-21				0		1
PILE CAP AND FOOTING												P
SOUTHBOUND 73 5650 SE2 ELS for can construction S2E	.52P	6 13-4	(ar.2) 00	-Mar-21	08-Jan-21	15-Jan-21					1. IN	1
Z3_5650 SE2_ELS for cap construction S2E (10m_2 side)									SE	ELS for cap construction S2E1-S2P (10m_2 side)		1
23_5660 SE2_pile cap construction S2E1-5:	P (10/) 21	21 20-1	Aar-21 19	9-Apr-21	15-Jan-21	09-Feb-21			19		SE2_pile cap construction	S2E1-52P (1n
Z3_5670 SE2_back/iii & remove ELS	2	2 19-4	pr-21 21-	-Apr-21	09-Feb-21	11-Feb-21		-			SE2_backfill & remov	ve ELS
RIDGE AND STRUCTURE WOR	KS											194
PRELIMINARIES WORKS											5. W. 6763. 01. 2014	1
SOUTHBOUND												
Z3_2940 UU_CLP-slew 11kv cable for RW1 CH1500-1580 80m	82 9	9 14-4	pr-21 24-	-Apr-21	15-Jan-21	26-Jan-21					UU CLP-d	w 1 kv cable I
Gin 1909-1580 80m						- 19						14
Remaining Level of Effor Actual Level of Effort Actual Work		Critical Rem		– /ork ♦		Primary B Baseline M		DFITTING NOISE BARRIERS ON TAI PO 3 Months Rolling Programme (31/1/21)		Date Revision 08-Feb-21 3MRP DWP 2101	Checked Appr Tim	oved

210 0	some rearie	Original	nonwing Swith Stor	SMILL CHASH	AP TO Start	Artorinah		001
		Duration	Duration				Jan 31	50 1940 1940 1940 1940 1940 1940 1940 194
Z3_2950 U	JU_CATV-slew cable for RW1 & 2 CH1500-1590 90m	11	11 27-Mar-21	14-Apr-21	02-Jan-21	15-Jan-21		3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1
		9	9 14-Apr-21	24-Apr-21	15-Jan-21	26-Jan-21		
	UU_HKBN-slew cable for RW1 & 2 CH1500-1580 B0m							UU_HKBN-slew_cable tor AW & 2 CH
Z3_3100 L	JU_HKBN-slew cable for N262 CH1800-1810 10m		1 01-Feb-21	01-Feb-21	05-Dec-20	05-Dec-20	2 22 2 2 2 (F) 5 (F) 5	g UU_INKBN-steverable for N282 CH 1600-1810 10m
Z3_5660 U	JU_Construct combine UU trough between	75	26 08-Jun-20 A	06-Mar-21	31-Jul-20	29-Oct-20		
ç	cycle track and HWY Stage 1							UU_Construct combine UU Rough between cycle Pack and RW1 Stage 1
23_3665 C	JU_Construct combine UU trough between RW1 to SR3 Stage 2	60	60 06-Mar-21*	22-May-21	01-Dec-20	16-Feb-21		
MOOHRCAT	ION OF BRIDGE N203				1.00			
	UCTION ABUT MENT WALL AT NHA							
Z3_4140 M	VAW-1_ELS. excavation & pile cap construction	60	42 23-Oct-20 A	24-Mar-21	31-Oct-20	12-Jan-21		NAW-LELS, exclavition à pile cap construction
Z3_4142 C	Demolish part of existing North Hollow Abutment vall for construction new wall	45	45 25-Feb-21	22-Apr-21	12-Dec-20	05-Feb-21		
	vali for construction new wall VAW-2_ELS, excavation & pile cap construction	60	42 28-Sep-20 A	04 14++ 01	31-Oct-20	10 1 01		Demolish part of existing North Hollow Aturity
20_4100	The cap const being	00	42 20-3ep-20 A	24-1941-21	31-001-20	12-Jan-21		NAW#_ELS.excavation & pile cap construction
Z3_4190 N	AW_construct new abutment wall (N or this ide)	60	60 25-Mar-21	09-Jun-21	23-Dec-20	09-Mar-21		
Z3_4195 N	NAW_construct new abutment wail (Remaining)	100	100 25-Mar-21	28-Jul-21	13-Jan-21	18-May-21	-	
	ION EXISTING PIER WALL OF N263	28	A 11 Jan 21 A	01 las 01 4	07 May 00	04-Dec-20		
	SAW- 1_pile lesting	20	0 11-Jan-21 A	21-541-21 8	074409-20	04+D80-20	Barrier Barrister	
₹3_9900 S	SAW-1_ELS & pile cap construction	30	30 01-Feb-21	10-Mar-21	04-Dec-20	12-Jan-21		SAW-1_ELS & pile cap construction
Z3 3940 S	SAW_Modify existing N2.63 pierwall (North side)	60	60 01-Feb-21	19-Apr-21	19-Dec-20	06-Mar-21		
								SAW_Modily existing N2 (3 pirmal (1) or this ide)
23_3945 S	SAW_constructnew abutment wall (Remaining)	100	100 11-Mar-21	14-Jul-21	12-Jan-21	18-May-21		
MODIFICAT	ION EXISTING SOUTH HOLLOW AB	JTMENT	WALL					
Z3_3950 S	SHA_piling works for pier SHA 6 nos. So aket 1-pile	48	48 01-Feb-21	31-Mar-21	23-Dec-20	24-Feb-21		SPIA_piling works for pier SHA Br.oz. Sock et H-pile
	SHA_ELS & pile cap construction	45	45 01-Apr-21	29-May-21	24-Feb-21	22-Apr-21		
MOUNTCAT	ION OF BRIDGE N262							
23_3510 0	C02_piling works 4nr mini pile	16	16 05-Mar-21	23-Mar-21	07-Jan-21	25-Jan-21		C02_pilling works 4n innipile
Z3_3540 C	C03_pilling works 7nr mini pile	24	24 02-Feb-21*	04-Mar-21	07-Dec-20	06-Jan-21		COL_paing works 7rr min ple
73 3590 0	C04_A-shape column construction	60	0 09-Dec-20 A	14-100-21 4	07-Dec-20	20-Feb-21		
			0000000	14-builter H	07-0-00-20	204 00-21		C04_A-shape column construction
NEW SLIP H	IOAD 2			-				
Z3_5340 S	SR 2-1_pile lesting	28	0 15-Jan-21 A	21-Jan-21 A	19-Nov-20	16-Dec-20	SHS 1_pike to pilot	
Z3_5350 S	R2+1_ELS & pile cap construction	30	30 01-Feb-21	10-Mar-21	23-Dec-20	30-Jan-21		SR2-1_ELS & pile cap construction
70 5050			05 11 11 10					
Z3_5360 S	SR2-1_column construction	35	35 11-Mar-21	24-Apr-21	30-Jan-21	16-Mar-21		SR2-1_columnconstruction
Z3_5412 S	SR2-2A/B_piling works 3nr 1.5m bored pile	30	0 17-Dec-20 A	27-Jan-21 A	18-Nov-20	23-Dec-20	101.00	a D jaing works 3 nr 1.5m bored pile
Z3_5414 S	SR2-2A/B_pile lesting	28	28 31-Jan-21	28-Feb-21	24-Dec-20	20-Jan-21		
								SR2-2AB_pile testing
Z3_5416 S	SR 2-2A/B_ELS & pile cap construction	30	30 11-Mar-21	19-Apr-21	30-Jan-21	10-Mar-21		SR22A& ELS & pilo cap construction
LIFT TOWER	A 2 & STAINCASE				i i i i i i i i i i i i i i i i i i i			
Z3_3680 L	lift Tower 2_LT-PC4 ELS & pilec ap construction	30	9 29-Dec-20 A	13-Mar-21	01-Dec-20	08-Jan-21		
	ift Tower 2_erect skeel structure	28	28 13-Mar-21	20-Apr-21	08-Jan-21	10-Feb-21		
084526								Liii Tover 2, erectstel äugure
Z3_3700 L	.ift Tower 2_external finishing	45	45 20-Apr-21	15-Jun-21	10-Feb-21	10-Apr-21		
Z3_3710 L	ift Tower 2_lift installation	90	90 20-Apr-21	07-Aug-21	10-Feb-21	05-Jun-21		
Z3_3790 L	ill Tower 2_LT-PC2 ELS & pilec ap	30	9 29-Dec-20 A	13-Mar-21	01-Dec-20	08-Jan-21		
23_4044	construction	30	9 29-D00-20 A	romanz I	01-060-20	00-0411-21		LII Towr 2,17-PC2 BLS & pile op contraction
Z3_3800 L	.if1 Tower 2_Pier 3 column construction	21	21 13 <mark>-Ma</mark> r-21	10-Apr-21	08-Jan-21	02-Feb-21		Lil Towr 2, Pier 3 column construction
Z3_3007 L	ift Tower 2_Pier 2 column construction	21	21 21-Apr-21	17-May-21	11-Feb-21	11-Mar-21		
23_3804 L	if1Tower2_Pier1 column construction	21	21 21-Apr-21	17-May-21	11-Feb-21	11-Mar-21		
NEW SLIP	IDAD 5							
Z3_5490 S	SR5-3_piling works 21 nr mini pile	84	84 01-Feb-21	18-May-21	12-Dec-20	26-Mar-21		
RETARING	WALL& SUBWAY			-			- e - e - e - e - e - e - e - e - e - e	
the second se	WALL NO.1		-					a)
Z3_4550 F	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	38 02-Dec-20 A	24-Apr-21	01-Dec-20	26-Jan-21		RW L demotstavising retaining structu
	petween Bay 101 and Bay 104 RW1_ELS works for Bay 101 to Bay 104	31	31 24-Apr-21	02-Jun-21	26-Jan-21	06-Mar-21		
6	56m_2 side)	31	31 24040121	02/00/#21	201741121	00-20ai -2 1		
Z3_4600 F	RW I_demolish existing relaining structure between Bay 105 and Bay 107	45	45 24-Apr-21	19-Jun-21	26-Jan-21	23-Mar-21		
	WALL NO.4							
	RW4_ELS works for Bay 410 to 414 (12m_2	28	28 11-Mar-21	16-Apr-21	30-Jan-21	08-Mar-21		RW4_ELS worksfor Bay 410 to 414 (2m_2 side)
9	ide) RW4_base slab construction for Bay 410 to 414		45 08-Apr-21		27-Feb-21	26-Aor-21		
		40	45 00-Apr-21	Service1	277 60-21	20-00-21		
RETAINING	WALL NO.6			1.00				
23_1218_10 F	RW6_ELS works for Bay 601 to Bay 606 45m_2 side}	25	19 18-Nov-20 A	25-Feb-21	07-Dec-20	07-Jan-21		RW6_ELS works for Bay 6501 to Bay 6501 (45m_2 2 sico)
	maining Level of Effort		Inmaining Marth			Drimon: "		DELITING NOISE DARRIEDS ON TALING ROAD (CHA THUSECTION) Date Revision Checked Approved
			emaining Work		. –	Primary 8		(OFITTING NOISE BARRIERS ON TAI PO ROAD (SHA HIN SECTION)
Act	ual Level of Effort	C	ritical Remaining	Work	• •	Baseline	ilesto	3 Month's Rolling Programme (31/1/21)
Act	ual Work 🔷	O N	filestone					Page 3 of 5
	_							

	Ouration	Duration	Camer Losso	APID SIAT	APTO PINSI	Jan	Ť 50	20e1 Mar		AN	
3_1218_10 RW6_base slab construction for Bay 601 to Bay 606	48	42 09-Jan-21 A	24-Mar-21	22-Dec-20	22-Feb-21	л	32	33	RW6_base slab construction for Bay 6	34 01 to Bay 606	
3_1218_10 RW6_retaining wall construction for Bay 601 to Bay 606		72 06-Feb-21	10-May-21	22-Jan-21	23-Apr-21						
3_1218_10 RW6_base slab construction for Bay 613 & Bay 614		16 25-Mar-21	16-Apr-21	23-Feb-21	12-Mar-21					Ditte handlet and	
TAINING WALL NO.7										, Hwe_base stati const	truction for Bay 6 13 & Bay 6
DIFY EXISTING RETAINING WALL SR3	10	10 04 bit 00 A		of her 00					3		
_4920 SR3_ELS works for Bay SR3D1 to Bay SR306 (67m_1 side)		18 24-Jul-20 A					SR3	LELS works for Bay SR301 to Bay SR306 (67m_1 side)			
4940 SR3_base slab construction for Bay SR301 to Bay SR306	48	48 25-Feb-21		02-Dec-20							SR3_base slab cor
4950 SR3_retaining wall construction for Bay SR301 to SR306	72	72 25-Mar-21		02-Jan-21	30-Mar-21				(III)		
5020 SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)	17	16 18-Dec-20	A 16-Mar-21	02-Dec-20	21-Dec-20			SR3_ELS wor	ksforBaySR307 to BaySR311 (60m_1 side)		
5040 SR3_base slab construction for Bay SR307 to Bay SR311	40	40 27-Apr-21	16-Jun-21	30-Jan-21	20-Mar-21						-
DIFY EXISTING RETAINING WALL SR4	26	0 22-Jun-20 A	28-100-21.4	26.400.20	24-Sep-20				25 XX 1 XX 28 X	en al ave also de la	
5070         SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)         5080         SR4_base slab construction for Bay SR401 to           5080         SR4_base slab construction for Bay SR401 to         SR401 to	40		09-Feb-21		19-Oct-20		ELS works for Bay SR401 to Bay SR405 (90m_1 side)	6			
Bay SH405							SR4_base slab construction for Bay SR 401 to Ba	y \$R405			- and -
5090 SR4_retaining wall construction for Bay SR401 to SR405	60	48 31-OcI-20 A			13-Jan-21				SR4_relaining wall	construction for Bay SR401 to SR405	
5100 SR4_remove ELS & backfill for Bay SR401 to SR405	10	10 01-Apr-21			18-Jan-21			1	K-	SR4_remove ELS & b	ackfill for Bay SR401 to SP
5120 SR4_base slab construction for Bay SR406 to Bay SR409	32	0 10-Aug-207	A 15-Jan-21 A	19-Oc1-20	26-Nov-20	State and a state of the state	ay SR 409	2			1
5130 SR4_retaining wall construction for Bay SR406 to SR409	48	48 01-Apr-21	02-Jun-21	06-Jan-21	06-Mar-21			0	0		
1542 Demolish existing subway & construct N S30	160	136 02-Dec-20/	A 21 Avo 21	01 Day 20	21 6 - 01						
	-			01-0 60-20	21-5011-21						
K BETWEEN FOOTBRIDGE NF	40 AND 1	F66 (ZONE 4	1)			an a	4				
MARY PROGRAMME											
1005 Zone 4 Stage 1 NB & SB foundation	434	236 06-Mar-20 A	19-Nov-21	31-Mar-20	16-Sep-21						
1100 Zone 4 NF66 Construction	220	109 20-Jul-20 A	18-Jun-21	31-Aug-20	31-May-21						
1110 Zone 4 NF40 Construction	- 387	224 12-Oc1-19 A	05-Nov-21	06-Jan-20	28-Apr-21						:
ARATORY WORKS	_		_	_	-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
IFICATION EXISTING ROAD/TEMPORARY								Cest			4
1335 Zone 4 & 5_construct temporary road platform along Northbound	60	12 04-Jan-21 A	17-Feb-21	07-Dec-20	20-Feb-21		Zone 4 & 5_const	ruct temporary road platform along Northbound			
THES DIVERSION								840			
UU_CATV-slew cable for N4 CH2190-2400 210m	25	25 20-Apr-21	20-May-21	18-Mar-21	20-Apr-21						
1300 UU_HKT-slew cable for N4 & NF6 6 CH2320-2360 40m	5	5 01-Feb-21	05-Feb-21	31-Ocl-20	05-Nov-20		UU_HKT-slow cable for N4 & NF66C H2320-2360 40m	1		17 m	
E BARRIER AND SEMI-ENCLOSUI	IE.			-					12		1
FOUNDATION WORKS						1			0		
RTHBOUND 1520 N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128 01-Feb-21	12-Jul-21	04-Jan-21	11-Jun-21						
UTHBOUND								H-9 0			-
_1120 SE6_mini piles for S6E1-51P to 57P (48 nr ver)	192	0 19-Aug-20 A	19-Jan-21 A	16-Sep-20	13-May-21						
1540 SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	74 05-Jun-20 Å	07-May-21	28-Sep-20	19-Mar-21			<u>k</u> <u>*</u>			÷
CAP AND FOOTING										41	
ITHBOUND 1122 SE6 ELS for footing/cap construction	48	48 22-Apr-21	21-Jun-21	09-Mar-21	10-May-21						1
122 SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)											
GE AND STRUCTURE WORKS								22.5	Vi Vi		1
1010 Demolish existing staircase	45	2 28-Oc1-20 A	03-Feb-21	31-Oct-20	22-Dec-20		Demolish existing staircase				
1080 Construct pile cap & part of new column	60	60 03-Feb-21	22-Apr-21	22-Dec-20	09-Mar-21						nuctpile cap & part of new
21090 Construct lemporary support lower & jack up	60	60 22-Apr-21	06-Jul-21	09-Mar-21	25-May-21						
IFICATION WORKS FOR NEGS			-	0					6		1
1020 Construct the new column & columnhead	60	60 08-Feb-21 A	A 24-Apr-21	14-Dec-20	27-Feb-21						Construct the new column
1030 Erection temporary support lower	60	60 17-Mar-21	01-Jun-21	21-Jan-21	07-Apr-21						
1040 Remove existing column	60	60 06-Apr-21	18-Jun-21	06-Feb-21	24-Apr-21	· · · · · · · · · · · · · · · · · · ·					
K BETWEEN FOOTBRIDGE NF	66 AND F	O TAN ROAL	D (ZONE	5)							
IMINARIES WORKS									(1		
UNARY PROGRAMME U 1005 Zone 5 Stage 1 NB & SB foundation	467	295 10-Feb-20 /	29.Jan.29	31-Mar-20	28-Oct-21						
	407	255 10-Peo-207	· 23-J811-22	Strikter-20	20-001-21		<b>E</b>			·····	
EPARATORY WORKS			1000								-
Remaining Level of Effort		emaining Work			Primary 1	Baseline ROAD WIDENING & RETRO	OFITTING NOISE BARRIERS ON TAI P	O ROAD (SHA TIN SECTION)	Date Revision 08-Feb-21 3MRP DWP 210		Approved
Actual Level of Effort		itical Remainin	g Work	• •	Baseline	Milesto	3 Months Rolling Programme (31/1/2	1)	OUT OUT JOIVINE DWE ZIL		
Actual Work 🔷	O Mi	lestone					Page 4 of 5				

MODIFICATION EXUSTING ROAD/TEMPORARY BO           Cong 5.1_construct temporary read platform along to rothbound           25_1730         Zong 5.1_construct temporary read platform along to rothbound           25_1730         Zong 5.1_construct temporary read platform           WOTHTIES ONE HEADONE         NORTHBOUND           75_160         U_CLP-sev 132kv cable for N4           75_1610         U_UCLP-sev 132kv cable for N4           75_1610         U_UCLP-sev 132kv cable for N4           75_1610         U_UCLP-sev 132kv cable for N4	AD						0001		
25_1220       Zone 5-1_construct temporary read platform along Northbourd         25_1730       Zone 5-1_remove existing central barrier         UTILITIES ONEARCONE         NORTHBOUND         25_1610       U_CLP-siew 132hy cable forth 4         CALEDO So Colspan	AD		_		Jan	Fao	Mar	1 Por	I NBV
Z5_1730     Zone 5-1_remove existing central barrier       UTILITIES DIVERSION       NORTHBOUND       Z5_1610     UU_CLP-riser 152hy cable for h 4 CH2500 2530 50m			-			32		34	1 35
Z5_1730     Zone 5-1_remove existing central barrier       UTILITIES DIVERSION       NORTHBOUND       Z5_1610     UU_CLP-riser 152hy cable for h 4 CH2500 2530 50m	45 9 04-	Jan-21 A 10-Feb-21	31-Oct-20	22-Dec-20		Zone 5-1_construct temporary road platform along	ig Northbound		
UTILITIES DIVERSION           NORTHBOUND           Z5_1610         UU_CLP-siew 132kv cable for N4 CH2500-2550 50m	21 21 11-6	eb-21 15-Mar-21	23-Dec-20	22-Jan-21					
NORTHBOUND           Z\$_1610         UU_CLP-slew 132kv cable for N4 CH2500-2550 50m							Zone 5-1_remove existing central barrier	\$	
Z5_1610 UU_CLP-siew 132kv cable for N4 CH2500-2550 50m								ilan a an	lo 10 10
	6 6 01-	Feb-21 06-Feb-21	21 041 20	06-Nov-20					1
Z5_1630 UIU_HGC-slew cable for N4 CH2575-2650 75m	0 001-	00-21 00-7 60-21	31-001-20	08/1100-20		UU_CLP-slew132kv cable forN4 CH2500-2550 50m	6		
- Con-	9 9 08-	Feb-21 20-Feb-21	07-Nov-20	17-Nov-20		UU_HGC-slew cable	farN4 CH2575-2650 75m	• (	-
Z5_1640 UU_NWT-slew cable for N 4 C H2580-2650	15 15 22-	Feb-21 10-Mar-21	18-Nov-20	04-Dec-20				#; ))	
70m					1		UU_NWT-slew cable for N 4 C H2 580-26 50 70m		1
NOIGE BARRIER AND SEMPENCLOSURE						1960 - 1970 - 1970 - 1980 - 1971 - 1980 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 - 1987 -	an an and the control and the loss see		1
PILE FOUNDATION WORKS									N 22 V8
SOUTHBOUND 75 1170 SE3.1 site investigation for S3E1.51 to S3E1.72	55 26 05-	May-20 A 06-Mar-21	15, 141, 20	16-Sep-20				\$ ·	
25_1170 SE3-1_site investigation for S3E1-51 to S3E1-72 (21ar)	55 ×5 55.	ay-20 A 00-Mai-21	13-301-20	10-360-20			SE3-1_sile investigation for S3E1-51 to S3E1-72 (21nr)		
25_1180 SE3-1_mini piles for S3E1-51 to S3E1-72 (132nr ver)	132 132 16-	Mar-21 25-Aug-21	23-Jan-21	08-Jul-21					
25_2000 SE3-2_minipiles for S3E2-59P & 61 P (1 for ver)	64 32 27-	Nov-20 A 12-Mar-21	16-Nov-20	01-Feb-21	and a second				3
							SE3-2_mini piles for S3E2-59P & 61 P (1 6nr ver)		7. TA 18.
SOUTHBOUND SLIP ROAD	30 15 13-		01.01.00					49 S	
Z5_1290 R4_sile investigation for R4-10P & 12P (6nr)	30 15 13-	Aug-20 A 20-Feb-21	24-Dec-20	30-Jan-21		R4_site investigation	Jor R4-10P & 12P(enr)		
25_1300 R4_mini piles (or R4-10P (12nr raking, 11nr ver)	92 92 13-	Mar-21 07-Jul-21	02-Feb-21	29-May-21			1		-
FILE CAP AND FOOTING			_						
NORTHBOUND		_	_						
ZS_1020 N4_ELS for fooling/cap construction N4-29 to N4-53 (322m_2 side)	89 89 11-5	far-21* 30-Jun-21	21-Dec-20	14-Apr-21					
N4-53 (322m_2 side) SOUTHBOUND									
	73 73 13-	Mar-21 12-Jun-21	02-Feb-21	06-May-21					
21_1230 SE3-2_ELS for fooling construction S3E2-51 to S3E2-61P (131m_2 side)									
Z5_1245 SE3-2_footing/cap construction \$3E2-51 to 61P (9nr)	189 189 30-	pr-21 14-Dec-21	20-Mar-21	08-Nov-21			// · · · · · · · · · · · · · · · · · ·		
SOUTHBOUND SLIP ROAD					and the second se				
Z5_1260 N3_ELS for facting construction N3-01 to N3-02 (30m_2 side)	17 9 01-	DcI-20 A 10-Feb-21	26-Feb-21	17-Mar-21			N3_ELS for footing construction N3-	Q1 to N3-02 (30m_2 side)	1
Z5_1270 N3_footing construction N3-01 to N3-02 (2nr)	42 21 24-1	Dc1-20 A 10-Mar-21	08-Apr-21	31-May-21					
Z5_1280 N3_backfill & remove ELS	5 5 10-1	War-21 16-Mar-21	19-Dec-20	28-Dec-20			N3_backfill & remove ELS		
PORTION E (ZONE 5)	the state of the s	and the second second							
PRELIMINARIES WORKS					1		2		
SUMMARY PHOGHAMME								the state of the second s	bay ware
TPR NORTHBOUND									
PESU 1000 Construction Zone 5 Portion E_Northbound structure	336 279 11-1	May-20 A 11 - Jan-22	31-Jul-20	16-Sep-21					
NOISE BARRIER AND SEMI-ENCLOSURE			_						
PILE FOUNDATION WORKS									
NORTHBOUND SLIP ROAD		_	_			5 11 - 22 - 22 - 25 - 55 - 16 - 16 - 16 - 16	······································	ter min ter et i di gi carja gi	
Z5E_1010 R6_mini piles for R6-02P & R6-06P (25nr raking, 16nr ver)	164 134 27-	Dci-20 A 20-Jul-21	12-Dec-20	08-Jul-21					
	35 0 04-	Jan-21 A 22-Jan-21	A 01 ha 21	16-Feb-21					I
Z5E_1185 Temporary realgin existing slip road	35 0 044	BIPETA 22-04IPET	N 04/08/21	104 60-21		Temporary realgin existing slip re-	ed		
	25 25 16-	Feb-21* 16-Mar-21	17-Feb-21	17-Mar-21			N4 & R5_sile investigation for N4-54	Pib 85-02P (501)	
							20 V		÷
Z5E_1100. N4 & R5_site investigation for N4-54P to R5-02P (5nr)	128 128 31-	far-21 04-Sep-21	01-Apr-21	06-Sep-21 1					
ZSE_1190         N4 & R5_stile investigation for N4-54P to R5-02P (5n)           Z6E_1200         N4 & R5, min piles for N4-54P to R5-02P (16nr raking, 16nr ver)	128 128 31-	Mar-21 04-Sep-21	01-Apr-21	06-Sep-21					
ZSE_1100         N4 & R5_5/bit investigation for N4-54P to R5-02P (5m)           ZSE_1200         N4 & R5_m hit piles for N4-54P to R5-02P (16m raking). for two raking. To rest.           PILE         CAP AND FOOTPICE	128 128 31-	Var-21 04-Sep-21	01-Apr-21	06-Sep-21	· · · · · · · · · · · · · · · · · · ·				
ZSE_1100         N4 & R5_stle investigation for N4-S4P to R5-02P (Sm)           ZSE_1200         N4 & R5_min piles for N4-S4P to R5-02P (16m raking, 16m ve)           CAP AND CONTINUE         NORTHBOUND SLIP ROAD					· · · · · · · · · · · · · · · · · · ·				
ZSE_1130         N 4 8 A5_site investigation for N4-54P to R5-02P (5m)           ZSE_1200         N4 4 8 A5_min piles for N4-54P to R5-02P (16m raking, 16m ve)           PHILE_CAP_AND_FORCE         NORTHBOUND SLIP ROAD           NORTHBOUND SLIP ROAD         ZSE_11300           ZSE_1100         NSE_ELS for config construction R5-02 to R5-07 (15m_1 side)	30 30 09-	Feb-21 19-Mar-21	17-Feb-21	23-Mar-21			Rs_ELS for looing	construction R5-02 to R5-07(1/20m_1 side)	
ZSE_1100         N4 & R5_stle investigation for N4-S4P to R5-02P (Sn)           ZSE_200         N4 & R5_m in plass for N4-S4P to R5-02P (16m raking, icm vel)           PLECCAP AND FOOTPHO NORTHBOUND SLIP ROAD		Feb-21 19-Mar-21		23-Mar-21			R5_ELS for looking		
25E_1100         N4 8 R5_site investigation for N4-54P to R5-02P (5m)           25E_1200         N4 8 R5_min pilest or N4-54P to R5-02P (16m raking), for med) <b>PECCAP AND FOOTO</b> NORTHBOUND SLIP ROAD           25E_1100         N5_ELS for coding construction R5-02 to R5-07 (15m_1 side)	30 30 09-	Feb-21 19-Mar-21	17-Feb-21	23-Mar-21			Rs_ELS for looing		
ZSE_1100     N4 & R5_site investigation for N4-54P to R5-02P (SM)       ZSE_1200     N4 & R5_min piles for N4-54P to R5-02P (16m raking, 16m ve)       PHICE CAP AND FOOTBOOL NORTHBOUND SLIP ROAD       ZSE_1100     R5_ELS for rooms (no R5-02 to R5-07 (Sm)_1 stdg)       ZSE_1000     R5_footing construction R5-02 to R5-07 (Sm)	30 30 09-	Feb-21 19-Mar-21	17-Feb-21	23-Mar-21			R5_ELS for looing		
25E_1100 N4 8 A5_site investigation for N4-54P to R5-02P (54) 25E_1200 N4 8 A5_min piles for N4-54P to R5-02P (1647 ration; 1647 wt) 21E_CAP AND FOOTBO NORTHBOUND SLIP ROAD 25E_1100 R5_1004re construction R5-02 to R5-07 (1007 R5_1004 construction R5-02 to R5-07 (647) 25E_1030 R5_1004 construction R5-004 construction R5-07 (647) 25E_1030 R5_1004 construction R5-07	30 30 09-	Feb-21 19-Mar-21	17-Feb-21	23-Mar-21			Rs_ELS for looking		
25E_1100 N4 8 A5_site investigation for N4-54P to R5-02P (54) 25E_1200 N4 8 A5_min piles for N4-54P to R5-02P (1647 ration; 1647 wt) 21E_CAP AND FOOTBO NORTHBOUND SLIP ROAD 25E_1100 R5_1004re construction R5-02 to R5-07 (1007 R5_1004 construction R5-02 to R5-07 (647) 25E_1030 R5_1004 construction R5-004 construction R5-07 (647) 25E_1030 R5_1004 construction R5-07	30 30 09- 63 63 19-	Feb-21 19-Mar-21	17-Feb-21 24-Mar-21	23-Mar-21 11-Jun-21			Rs_ELS for looing		
25E_1100         N 4 8 A5_this investigation for N4-54P to R5-02P (54)           25E_1200         N 48 B5_this piles for N4-54P to R5-02P (16 or raking). for web           PHIC CAP AND FOOTBOOL         NORTHBOUND SLIP ROAD           25E_1100         R5_EL5 for footing construction R5-02 to R5-07 (57)           ROADWORKS         AND RESERVENCE           ROADWORKS </th <td>30 30 09- 63 63 19- 50 24 10-</td> <td>Feb-21 19-Mar-21 Mar-21 08-Jun-21 Sep-20 A 24-Dec-21</td> <td>17-Feb-21 24-Mar-21 1 09-Dec-20</td> <td>23-Mar-21 11-Jun-21</td> <td></td> <td></td> <td>Rs_ELS for looing</td> <td>construction R5-02 lo R5-07(120m_1 side)</td> <td>pullings converses 90</td>	30 30 09- 63 63 19- 50 24 10-	Feb-21 19-Mar-21 Mar-21 08-Jun-21 Sep-20 A 24-Dec-21	17-Feb-21 24-Mar-21 1 09-Dec-20	23-Mar-21 11-Jun-21			Rs_ELS for looing	construction R5-02 lo R5-07(120m_1 side)	pullings converses 90
25E_1100 N4 8 A5_site investigation for N4-54P to R5-02P (54) 25E_1200 N4 8 A5_min piles for N4-54P to R5-02P (1647 ration; 1647 wt) 21E_CAP AND FOOTBO NORTHBOUND SLIP ROAD 25E_1100 R5_1004re construction R5-02 to R5-07 (1007 R5_1004 construction R5-02 to R5-07 (647) 25E_1030 R5_1004 construction R5-004 construction R5-07 (647) 25E_1030 R5_1004 construction R5-07	30 30 09- 63 63 19- 50 24 10- 50 50 09-	Feb-21 19-Mar-21 Mar-21 08-Jun-21	17-Feb-21 24-Mar-21 9 09-Dec-20 09-Nov-20	23-Mar-21 11-Jun-21 09-Feb-21 09-Jan-21		2 Zone S Pedion E_MI replacement by no lines concer			p-lines concrete 7S

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

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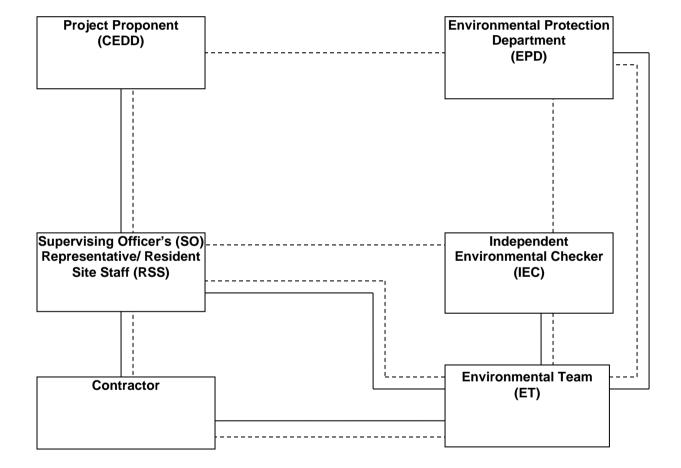


Appendix B

**Project Organization Chart** 

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L	Legend:							
	Line of Reporting							
	Line of Communication							

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Appendix C

Action and Limit Levels for Air Quality and Noise

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

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)
	AMS 5	156	
24-hr TSP	AMS 8	161	260
(µg/m³)	AMS 11A	165	200
	AMS 12	168	
	AMS 5	340	
1-hr TSP	AMS 8	336	500
(µg/m³)	AMS 11A	335	500
	AMS 12	296	

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

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

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

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Appendix D

**Calibration Certificates of Monitoring Equipment** 



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)

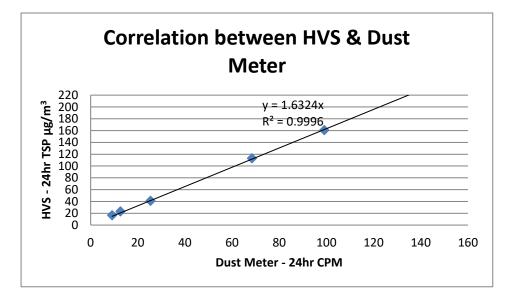
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Correlation between HVS & Dust MeterModel:Sibata LD-5RSerial No:761106

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 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	1573	26.22
0.0687	1608	26.80
0.0543	1473	24.55

#### Remarks:

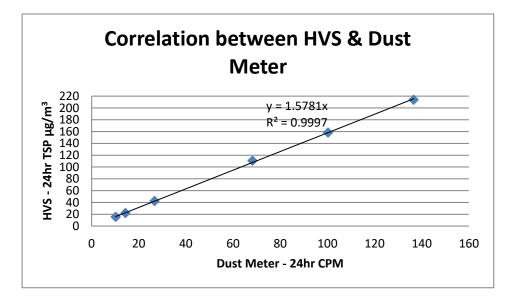
1. The equipment being used in this calibration is traceable to recognized National Standards.

- 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)

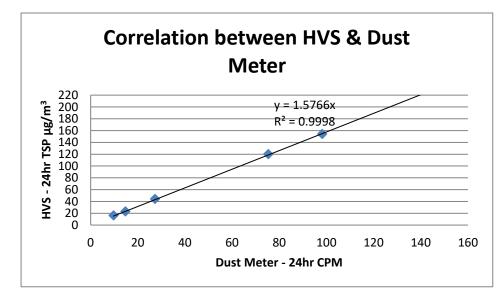
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Correlation between HVS & Dust MeterModel:Sibata LD-5RSerial No:892189

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.: 940891CA202730(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.	: 761105
Specification Limit	: NA
Next Calibration Date	: 22-Nov-2021

#### Laboratory Information

Description		: 1. Balance		2. TSP high volume air sampler
Equipment ID. / Seria	al I	no. : 1. C-065-9		2. 4350
Date of Calibration	:	23-Nov-2020	А	mbient Temperature : 25 ± 10 °C
Calibration Location	:	General Chemical L	abo	pratory of FTS and Ma Wan A1 Site Boundary
Method Used	į	By direct compariso	on th	ne weight of dust particle trapped in a filter paper using high
		volume sampler (TS	SP r	method) for a certain period, with the reading of the UUT. They
		should be placed at	the	e same 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)
0.0915	3647	60.78
0.0469	3027	50.45
0.1172	3861	64.35

#### **Remarks:**

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

- 2. The interpolation equation : Concentration (mg/m<sup>3</sup>) = K x [UUT reading (CPM)], where K = 0.001456
- 3. Correlation coefficient (r): 0.9928

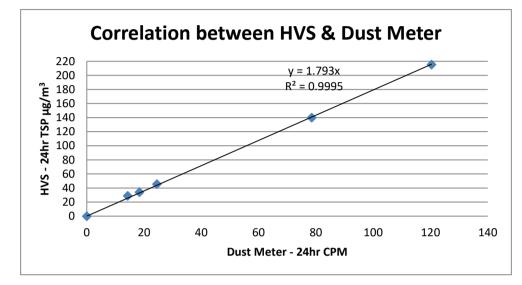
## Checked by : Chung Date : 15-12-2020 Certified by : K Joung Date : N-12-2020 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

\*\* 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.: 203258CA202751

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	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	÷	1488271	01910	004065
Equipment ID	:	N-52		
Next Calibration Date	:	21-Dec-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	:	22-Dec-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)		
	4000Hz	2.1	2.6	to	-0.6
	2000Hz	1.4	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing frequency response	500Hz	-3.5	-1.8	to	-4.6
	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
	31.5Hz	-39.2	-37.4	to	-41.4
Differential level linearity	94dB-104dB	0.0		± 0.6	5
	104dB-114dB	0.0		± 0.6	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 :	William	Date :	28-12-2020	Certified by : _	Fileung	Date :	28-12-2020
CA-R-297 (22/07/2009	<b>)</b> )			Leung k	Kwok Tai (Assistan	it Manage	r)
			** -	1 ( D 1 ++			



#### Report no.: 203258CA202083

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 Manufacturer	:	Sound Level Meter Casella	
Manalacturer	•	Casella	
		Meter	
Model No		CEL 63Y	

		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488272	03392	003921
Equipment ID	:	N/A		
Next Calibration Date	:	04-Oct-2021		

Specification Limit EN 61672-1: 2003 Class 1

#### Laboratory Information

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

Description :	& K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)						
Equipment ID. :		•					
Date of Calibration	05-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)		
	4000Hz	0.7	2.6	to	-0.6
	2000Hz	1.1	2.8	to	-0.4
	1000Hz	0.8	1.1	to	-1.1
A-weigthing frequency response	500Hz	-1.9	-1.8	to	-4.6
	250Hz	-7.2	-7.2	to	-10.0
	125Hz	-15.0	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
	31.5Hz	-41.4	-37.4	to	-41.4
Differential level	94dB-104dB	0.1		± 0.6	}
linearity	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 :	Killiam	Date :	7-10 - 2020	_ Certified by : _	K T. Tenna	Date : _	8-10-2020
CA-R-297 (22/07/2009)					Kwok Tai (Assistant	Manager	)
			** E	End of Report **			

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#### Report no.: 203258CA201298(2)

## CALIBRATION CERTIFICATE OF SOUND LEVEL METER

**Client Supplied Information** 

Client : Fugro Technical Services Ltd.

**Project : Calibration Services** 

#### Details of Unit Under Test, UUT

plifier
495
)46

#### Laboratory Information

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

Description :	B & K Acoustic Multifunction Calil	prator 4226 (Traditional free	field setting)
Equipment ID.	R-108-1		
Date of Calibration :	14-Jul-2020		_
Calibration Location :	Calibration Laboratory of FTS	Ambient Temperature :	20±2 °C
Method Used :	By direct comparison		

#### **Calibration Results :**

Paramet	ters	Mean Value (dB)	Mean Value (dB) Specification Limit(		Limit(dB)
	4000Hz	0.9	2.6	to	-0.6
			2.8		-0.4
	2000Hz	1.1		to	www.www.www.comparticipation.com
	1000Hz	0.0	1.1	to	-1.1
A-weigthing	500Hz	-3.3	-1.8	to	-4.6
frequency response	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.3	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
	31.5Hz	-39.4	-37.4	to	-41.4
Differential level	94dB-104dB	0.0		± 0.6	3
linearity	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 61672-1: 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 : 21-7 - 2070	_ Certified by : _	KT. Jourg	Date :	21-7-2020
CA-R-297 (22/07/2009			Leung	Kwok Tai (Assistan	t Manager	r)



Page 1 of 1

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

Report no.: 203258CA201368(1)

#### CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd.

Project : Calibration Services

#### **Client Supplied Information**

Details of Unit Under Test, UUT

Description	ć,	Sound Calibrator	
Manufacturer	;	Casella (Model CEL-120/1)	
Serial No.	:	1677126	
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 : $20\pm2$ °C
Method Used :	By direct comparison	

#### **Calibration Results :**

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	0.2 dB	±0.4dB
114dB	0.1 dB	10.40D

#### 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: \_\_\_\_\_\_ Date: 10-0-2020 Certified by: \_\_\_\_\_ Date: 20 - 8-2020 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)



Report no.: 203258CA202146(2)

## **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.		: 2	2383707
Equipment ID		: 1	N/A
Next Calibration Date	:	14-(	Oct-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 :	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	-0.1 dB	
114dB	-0.2 dB	±0.4dB

#### Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The 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 :	Lulliam	Date :	19-10-2020	_Certified by :	K.T. Teun (	Date :	19-10-2020
CA-R-297 (22/07/2009	))			Leung	Kwok Tai (Assist	ant Manag	jer)



Page 1 of 1

Report no.: 203258CA201298(1)

## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

#### **Client Supplied Information**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

#### Details of Unit Under Test, UUT

Description	;	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	2383886
Equipment ID	:	N/A
Next Calibration Date	:	13-Jul-2021
Specification Limit	:	EN 60942: 2003 Type 1

#### Laboratory Information

Description	:	Reference Sound level	meter	
Equipment ID.	:	R-119-1		
Date of Calibrat	tion	: 14-Jul-2020	Ambient Temperature : 20±2 $^{\circ}$ 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	-0.1 dB	±0.4dB
114dB	-0.1 dB	±0.40D

#### **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 :	Lilliam	Date : >1-7- 2020	Certified by :	FT. Tenng Date: 1-7-2020
CA-R-297 (22/07/2009)			Leung	Kwok Tai (Assistant Manager)
		**	End of Poport *	*

End of Report



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	meter		
Equipment ID.	;	R-119-1			
Date of Calibrat	tion	: 15-Jun-2020	Ambient Temperature :	22	°C
Calibration Loca	atio	n: Calibration Laborato	ry of FTS		
Method Used	;	By direct comparison			

#### Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.3 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
				AMS5 Tin Liu			
				AMS8 Lek Yuen Estate			
				AMS11A Sheung Wo Che			
				AMS12 Fung Wo Estate			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,			
				NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
				18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26		
	7	8	9	10	**	12	13
			AMS5 Tin Liu		AMS5 Tin Liu		
			AMS8 Lek Yuen Estate		AMS8 Lek Yuen Estate		
			AMS11A Sheung Wo Che		AMS11A Sheung Wo Che		
			AMS12 Fung Wo Estate		AMS12 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			
		15	16		18	19	20
				AMS5 Tin Liu			
				AMS8 Lek Yuen Estate			
Feb-21				AMS11A Sheung Wo Che			
100 21				AMS12 Fung Wo Estate			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,			
				NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
	01			18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26		
	21	22		24	25	26	27
			AMS5 Tin Liu				
			AMS8 Lek Yuen Estate				
			AMS11A Sheung Wo Che				
			AMS12 Fung Wo Estate NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	NIME 9 NIMEO NIME 10A NIME 11 NIME			
			NMS 6A, NMS 7, NMS 5, NMS 4, NMS 5A,				
				NMS 20, NMS 24, NMS 25A, NMS 26			
	28		16,ININIS 23, ININIS 27	INNIS 20, INNIS 24, INNIS 25A, INNIS 20			
							i
		nitoring may be subjected to change due to any	· · · · · · · · · · · · · · · · · · ·	1			1

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 Feb 2021 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, 3, 4 & 5.

- (2) Mini Pile Construction Works in Zone 1,2, 4 & 5.
- (3) Noise Barrier Foundation Works in Zone 1, 2, 3, 4 & 5.
- (4) Construction / Diversion of Underground Utilities in Zone1, 2, and 3.
- (5) Sheet Pile Removal in Zone 2.
- (6) Trial pits excavation in Zone 3, 4 & 5.
- (7) Retaining Wall Construction Works and Demolition of Existing Parapet in Zone 3.
- (8) Bored Pile Construction Works and Pre Drilling Works in Zone 3.
- (9) Lagging wall and Retaining wall in Zone 3.
- (10) Sheet Piling Works in Zone 3.
- (11) Superstructure Works for N262 widening in Zone 3.(12) Pre Drilling Works in Zone 3.
- (13) Mini Pile Works / Pre Bore H Pile Works in Zone 3.

(14) NF40 Footbridge Pile Cap and Column Construction Works in Zone 4.

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

- (16) Soil Replacement Works on Slope in Zone 5.
- (17) Lane Shifting Works in Zone 4 & 5.
- (18) Temporary Road Construction Works in Zone 5.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	. 3	4	5	
		AMS2 Villa Le Parc					AMS2 Villa Le Parc
		AMS5 Tin Liu					AMS5 Tin Liu
		AMS7A Sheung Wo Che					AMS7A Sheung Wo Che
		AMS14 Ha Wo Che					AMS14 Ha Wo Che
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	NMS 8, NMS9, NMS 10A, NMS 11, NMS				
		NMS 6A, NMS 7, NMS 15, NMS 16, NMS					
		18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26				
		7 8	9	10	11	12	1:
						AMS2 Villa Le Parc	
						AMS5 Tin Liu	
						AMS7A Sheung Wo Che	
						AMS14 Ha Wo Che	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	NMS 8, NMS9, NMS 10A, NMS 11,
						NMS 6A, NMS 7, NMS 15, NMS 16, NMS	
						18,NMS 23, NMS 27	NMS 19, NMS 20, NMS 24, NMS 25A,
	1	4 15	16	17	18		
		-			AMS2 Villa Le Parc		-
					AMS5 Tin Liu		
					AMS7A Sheung Wo Che		
Mar-21					AMS14 Ha Wo Che		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A,	NMS 8 NMS9 NMS 10A NMS 11 NMS	
					NMS 6A, NMS 7, NMS 15, NMS 16, NMS		
					18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26	
	2	1 22	23	24			27
				AMS2 Villa Le Parc			
				AMS5 Tin Liu			
				AMS7A Sheung Wo Che			
				AMS14 Ha Wo Che			
					NMS 8, NMS9, NMS 10A, NMS 11, NMS		
				NMS 6A, NMS 7, NMS 15, NMS 16, NMS			
				18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26		
	2	8 29	30				
		<i>U</i> /	AMS2 Villa Le Parc	51			
			AMS5 Tin Liu				
			AMS7A Sheung Wo Che				
			AMS14 Ha Wo Che				
				NMS 8, NMS9, NMS 10A, NMS 11, NMS			
			NMS 6A, NMS 7, NMS 15, NMS 16, NMS				
			18,NMS 23, NMS 27	NMS 20, NMS 24, NMS 25A, NMS 26			
	<u> </u>	pritoring may be subjected to change due to any		INIVIS 20, INIVIS 24, INIVIS 25A, INIVIS 20			

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 Mar 2021 are 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, 3, 4 & 5.

(2) Construction / Diversion of Underground Utilities in Zone1, 2, 3 and 4.

(3) Noise Barrier Foundation Works in Zone 1, 2, 3, 4 & 5.

(4) Mini Pile Construction Works in Zone 1, 3, 4 & 5.

(5) Trial pits excavation in Zone 3, 4 & 5.

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

(7) Lagging Wall Construction Works and Pre Drilling Works in Zone 3.

(8) Superstructure Works for N262 widenin in Zone 3.

(9) Lane Shifting Works in Zone 3, 4 & 5.

(10) Pre Bored Pile Construction Works and Pre Drilling Works in Zone 3.

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

(12) NF40 Footbridge Pile Cap and Column Construction Works in Zone 4.

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

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

(15) Temporary Road Construction Works in Zone 4 & 5.

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
$\sim$		H			<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		
$\mathbf{\overline{4}}$		20	21	22	23	24	25	26		
(5)		27	28	29	30					
Ŭ						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)		18	19	20	21	22	23	24		
( <b>9</b> )		25	26	27	<u>28</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		
(11)	+	8	9	10	11	12	13	14*	14/11 上學期家長日、J.6 家長會	
(12)	<u> </u>	15	16	17	18	19	20	21		
(13)	月	22	23	24	25	26	27	28		
(14)		29	30							
$\sim$				1*	2	3	4	5	1/12 第十四屆陸運會 2/12 陸運會翌日假期	1
(15)	+	6	7	8	9*	<u>10</u>	<u>11</u>	12	9/12 教師專業發展日	
(16)	· 	13	<u>14</u>	<u>15</u>	16	17	18	19	10/12-15/12 上學期學期試 (J.6 呈分試)	
17)	一月	20	<u>14</u> 21	<u>13</u> 22	23		25	26	22/12/2020-2/1/2021 聖誕及新年假期	5
(18)	11	20	28		30		23	20		5
$\smile$	2021	21	20		50	51	1	2		2
(19)		3	4	5	6	7	8	2 9		
$\sim$	月	10	- 11	12	13	, 14	-	16 <b>*</b>	16/1 四十五周年校慶開放日暨文娛匯演	
20 21	L \	17	18	12	20	21	13 22	23	18/1 校慶開放日後假期	1
22		24	25	26	20	21	29	30		
		31		_0	_ /	_0	_/			4
	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
	L \	, 14	15	16	17	18	12	20		4
			10	10	1	10				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	
	t	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)	<u>(19</u>	20	21	一至六年級考試(18-20,23,24/11)
月	+Ξ	22	<u>23</u>	<u>24</u>	25	26	27	28	
	十四	29	30						
				1	2	3	4	5	
+	十五	6	7	8	9	10	11	12	
-	<b>十</b> 六	13	14	15	16	17	18	19	全方位學習日(18/12)
月	++	20	21)	X	23	×	25	26	聖誕崇拜(21/12) 聖誕及新年假期(22/12-3/1)
	+八	27	28	29	X	X			
11							X	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	<i>二</i> +	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	聂日,	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)
						$\times$	$\left  \right\rangle$	X	復活節及清明節假期(31/3-6//4)
四	三十二	X	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	$\left \right\rangle$	$\left \right\rangle$	$\left  \right\rangle$	$\nearrow$	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

	[	日	١	=	Ξ	四	五	六	假期及注意事項
週		(16)	(17)	(18)	(19)	(20)	(21)	(22)	
次	へ	(10)	(17)	(18)	(19)	(20)	(21)	(22)	
	月	(23)	(24)	(25)	(26)	(27)	(28)	(29)	
		(-)	· /		( -/	< · /	< - <i>/</i>	( . ,	
				Sept				_	(1/9)開學禮
1	九	(30)			2	3	4		(2/9)正式上課
2		6	7	8	9	10	11		(9/9)各班拍攝學生相片
3	月	13	14	15	16	17	18		(14/9)中一至中四學生開始繳交周記
4		20	21	22	23	24	25	26	(21-25/9)國慶活動暨中國周 (22-20/0)時本地度
5	+	27	28	29	30	Oct	( <b>2</b> )	3	(28-30/9)體育推廣 (1/10) 國連口短期 (2/10) 由46 第四口短期
5	'	21	20	29	50	(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	
	·								(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			0	28 <sup>T</sup>	29 <sup>T</sup>		21	(26/10)重陽節翌日假期 (27/10)教師專業發展日(1)
9		25	(26)	(27)	28.	29.	30.	31	(28/10-3/11)中一至中六級統一測驗
	,	Nov	-7	-7		-	-	_	
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	-	$15^{ riangle}$	16	17	18	19	$20^{ riangle}$	21	<ul><li>(15/11)南區中學巡禮</li><li>(20/11)全方位學習日</li><li>(21/11下午)家長教師會第二十三屆會員大會</li></ul>
	ы								(21/11下十)豕衣教師曾弟一十二佔曾貝入曾
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)	5	(3/12)第六十二屆陸運會 (4/12)陸運會翌日假期
									(7-11/12)科技周
15		6	7	8	9	10	11	12	(8/12)拍攝畢業照及班相 (12/12)中西南區小學數學比賽
	-								(17-21/12)中六級校外模擬考試
16		13	14	15	16	17	18	19	(14-18/12)福音周 (18/12)佈道會
	月								(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	-						(1)		(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	$18^{\text{E}}$	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
$\left  - \right $	_								(20/1-5/3)中六級試後上課日
22	月	24	25	26	27	28	29	30	(22.20/1) 十. 五十十四) 復世 四四 2 1 2 4
$\left  - \right $			FEB						<ul><li>(22-29/1)中一至中五級上學期溫習及補考</li><li>(1/2)下學期開始</li></ul>
23		31	ге <b>б</b> 1	2	3	4	5	6	(1/2)下字期開始 (1-5/2)英語周 (3/2)中六級進行APASO問卷
24	=	7	1 (8)	2 (9)		4 (11)		(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
24		-	(15)			(11)		(13)	
		()	()		()	()	()	()	(26/2)教師專業發展日(2)
26	я	21	22	23	24	25	(26)	27	(22/2)中一至中四級學生開始繳交周記
	~•	-	-				Ú		(24/2)中六級進行學生持份者問卷及教學評鑑
<u>ш</u>				I	I	I	I	I	X = y + y + y = x + y + y + y + y + y + y + y + y + y +

()-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	-		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> )	(30)	<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)

#### AMS5 - Tin Liu

				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
3-Feb-21	14:00	51	50	50	50			Sunny
9-Feb-21	11:45	60	64	66	63			Overcast
11-Feb-21	14:20	70	73	66	70	340	500	Sunny
17-Feb-21	09:30	66	61	64	64			Sunny
23-Feb-21	07:30	61	64	60	62			Sunny
	Average		62					
	Max		73					
	Min		50					

#### AMS8 - Lek Yuen Estate

				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
3-Feb-21	12:45	55	45	45	48			Sunny
9-Feb-21	09:55	61	64	64	63			Overcast
11-Feb-21	12:00	94	97	90	94	336	500	Sunny
17-Feb-21	08:45	59	62	68	63			Sunny
23-Feb-21	11:45	62	68	68	66			Sunny
	Average		67					
	Max		97					
	Min		45					

#### AMS 11A - Sheung Wo Che

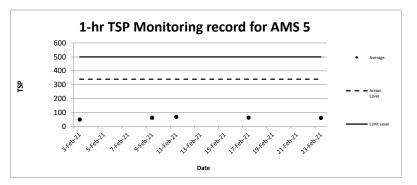
				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
3-Feb-21	10:40	77	67	73	72			Sunny
9-Feb-21	10:00	52	65	73	63			Overcast
11-Feb-21	16:41	78	80	83	80	335	500	Sunny
17-Feb-21	11:00	80	84	82	82			Sunny
23-Feb-21	10:00	84	86	82	84			Sunny
	Average		76					
	Max		86					
	Min		52					

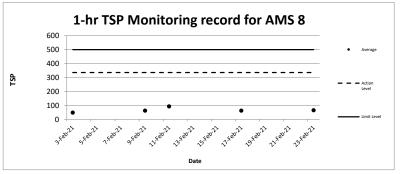
#### AMS 12 - Fung Wo Estate

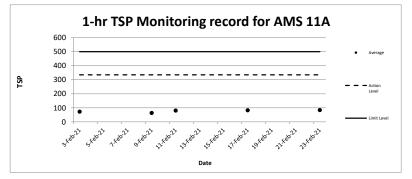
				1-hour TSP (	µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
3-Feb-21	07:30	60	63	52	58			Sunny
9-Feb-21	12:10	63	63	60	62			Overcast
11-Feb-21	16:26	70	68	67	68	296	500	Sunny
17-Feb-21	10:20	67	70	69	69			Sunny
23-Feb-21	12:15	63	66	67	65			Sunny
	Average		65					
	Max		70					
	Min		52					

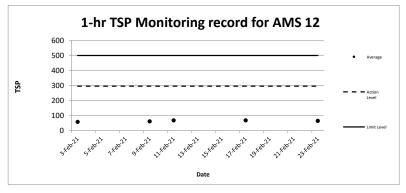
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

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









Date and Time	TSP Concentration (μg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
3/2/2021 08:00	57	9/2/2021 07:45	48
3/2/2021 09:00	45	9/2/2021 08:45	51
3/2/2021 10:00	36	9/2/2021 09:45	55
3/2/2021 11:00	38	9/2/2021 10:45	55
3/2/2021 12:00	44	9/2/2021 11:45	60
3/2/2021 13:00	41	9/2/2021 12:45	64
3/2/2021 14:00	51	9/2/2021 13:45	66
3/2/2021 15:00	50	9/2/2021 14:45	57
3/2/2021 16:00	50	9/2/2021 15:45	48
3/2/2021 17:00	47	9/2/2021 16:45	48
3/2/2021 18:00	41	9/2/2021 17:45	52
3/2/2021 19:00	44	9/2/2021 18:45	52
3/2/2021 20:00	39	9/2/2021 19:45	35
3/2/2021 21:00	41	9/2/2021 20:45	42
3/2/2021 22:00	41	9/2/2021 21:45	38
3/2/2021 23:00	50	9/2/2021 22:45	41
4/2/2021 00:00	44	9/2/2021 23:45	64
4/2/2021 01:00	39	10/2/2021 00:45	51
4/2/2021 02:00	41	10/2/2021 01:45	50
4/2/2021 03:00	41	10/2/2021 02:45	60
4/2/2021 03:00	47	10/2/2021 03:45	52
4/2/2021 04:00	47	10/2/2021 03:45	51
4/2/2021 05:00	47	10/2/2021 04:45	54
4/2/2021 08:00	42 48	10/2/2021 05:45	58
4/2/202107.00 Average	48	10/2/2021 00:43 Average	52
Action Level	156	Action Level	156
Limit Level	260	Limit Level	260
		••	
ate and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
17/2/2021 07.20		23/2/2021 07:30	
17/2/2021 07:30	54	., ,	61
	54 35	23/2/2021 08:30	61 36
17/2/2021 08:30			
17/2/2021 08:30 17/2/2021 09:30	35	23/2/2021 08:30	36
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30	35 66	23/2/2021 08:30 23/2/2021 09:30	36 60
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30	35 66 61	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30	36 60 38
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30	35 66 61 55	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30	36 60 38 51
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30	35 66 61 55 32	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30	36 60 38 51 44
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30	35 66 61 55 32 61	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30	36 60 38 51 44 51
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 15:30	35 66 61 55 32 61 55	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 14:30	36 60 38 51 44 51 48
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 16:30	35 66 61 55 32 61 55 39	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 14:30 23/2/2021 15:30	36 60 38 51 44 51 48 64
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 16:30 17/2/2021 17:30	35 66 61 55 32 61 55 39 54	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 15:30 23/2/2021 15:30	36 60 38 51 44 51 48 64 45
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 11:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 16:30 17/2/2021 17:30 17/2/2021 18:30	35 66 61 55 32 61 55 39 54 47	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 14:30 23/2/2021 16:30 23/2/2021 16:30	36 60 38 51 44 51 48 64 45 50
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 14:30 17/2/2021 16:30 17/2/2021 18:30 17/2/2021 19:30	35 66 61 55 32 61 55 39 54 47 64	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 18:30	36 60 38 51 44 51 48 64 45 50 39
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 16:30 17/2/2021 16:30 17/2/2021 18:30 17/2/2021 19:30 17/2/2021 20:30	35 66 61 55 32 61 55 39 54 47 64 60	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 18:30 23/2/2021 18:30	36 60 38 51 44 51 48 64 45 50 39 35
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 00:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 14:30 17/2/2021 14:30 17/2/2021 18:30 17/2/2021 19:30 17/2/2021 20:30	35 66 61 55 32 61 55 39 54 47 64 60 60 64	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 15:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30	36 60 38 51 44 51 48 64 45 50 39 35 61
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 16:30 17/2/2021 18:30 17/2/2021 19:30 17/2/2021 21:30 17/2/2021 21:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 21:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 21:30 17/2/2021 22:30	35 66 61 55 32 61 55 39 54 47 64 64 60 64 60 64 60 52	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 17:30 23/2/2021 18:30 23/2/2021 19:30 23/2/2021 20:30 23/2/2021 20:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 16:30 17/2/2021 16:30 17/2/2021 19:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 22:30 17/2/2021 22:30 17/2/2021 22:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 52 47 38	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 15:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 20:30 23/2/2021 21:30 23/2/2021 22:30 23/2/2021 23:30 24/2/2021 00:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 10:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 15:30 17/2/2021 19:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 21:30 17/2/2021 22:30 17/2/2021 22:30 17/2/2021 23:30 18/2/2021 01:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 52 47 38 55	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 43:0 23/2/2021 43:0 23/2/2021 43:0 23/2/2021 15:30 23/2/2021 15:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 21:30 23/2/2021 22:30 23/2/2021 22:30 23/2/2021 23:30 23/2/2021 23:30 23/2/2021 23:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 16:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 20:30 17/2/2021 22:30 17/2/2021 20:30 18/2/2021 01:30 18/2/2021 01:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 52 47 38 55 51	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 11:30 23/2/2021 13:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 16:30 23/2/2021 18:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 20:30 23/2/2021 22:30 23/2/2021 22:30 23/2/2021 02:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33 33 33
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 16:30 17/2/2021 16:30 17/2/2021 18:30 17/2/2021 18:30 17/2/2021 18:30 17/2/2021 20:30 17/2/2021 20:30 18/2/2021 00:30 18/2/2021 00:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 64 60 52 47 38 52 47 38 52 47	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 15:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 20:30 23/2/2021 22:30 23/2/2021 23:30 24/2/2021 00:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33 42 57
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 03:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 14:30 17/2/2021 14:30 17/2/2021 19:30 17/2/2021 21:30 17/2/2021 21:30 17/2/2021 22:30 18/2/2021 03:30 18/2/2021 03:30 18/2/2021 04:30	35 66 61 55 32 61 55 39 54 47 64 60 60 64 60 52 47 38 52 47 38 58 51 47 61	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 18:30 23/2/2021 19:30 23/2/2021 21:30 23/2/2021 22:30 23/2/2021 22:30 23/2/2021 23:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 38 42 57 35
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 15:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 20:30 17/2/2021 21:30 17/2/2021 02:30 18/2/2021 01:30 18/2/2021 02:30 18/2/2021 02:30 18/2/2021 04:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 52 47 38 55 51 47 38 55	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 21:30 23/2/2021 21:30 23/2/2021 21:30 23/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33 33 33 55 50
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 01:30 17/2/2021 11:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 13:30 17/2/2021 14:30 17/2/2021 15:30 17/2/2021 15:30 17/2/2021 13:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 22:30 17/2/2021 22:30 17/2/2021 22:30 18/2/2021 01:30 18/2/2021 01:30 18/2/2021 02:30 18/2/2021 05:30 18/2/2021 05:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 64 60 52 47 38 51 47 38 51 47 61 55 48	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 18:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 20:30 23/2/2021 22:30 23/2/2021 22:30 23/2/2021 22:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 02:30 24/2/2021 02:30 24/2/2021 05:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33 33 55 61 54 57 35 50 63
17/2/2021 08:30 17/2/2021 09:30 17/2/2021 10:30 17/2/2021 11:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 12:30 17/2/2021 16:30 17/2/2021 16:30 17/2/2021 19:30 17/2/2021 20:30 17/2/2021 20:30 17/2/2021 22:30	35 66 61 55 32 61 55 39 54 47 64 60 64 60 64 60 52 47 38 55 51 47 38 55	23/2/2021 08:30 23/2/2021 09:30 23/2/2021 10:30 23/2/2021 11:30 23/2/2021 12:30 23/2/2021 13:30 23/2/2021 14:30 23/2/2021 14:30 23/2/2021 15:30 23/2/2021 16:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 19:30 23/2/2021 21:30 23/2/2021 21:30 23/2/2021 21:30 23/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30 24/2/2021 01:30	36 60 38 51 44 51 48 64 45 50 39 35 61 54 47 33 33 33 33 33 33 33 55 50

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
11/2/2021 08:20	35
11/2/2021 09:20	38
11/2/2021 10:20	43
11/2/2021 11:20	43
11/2/2021 12:20	44
11/2/2021 13:20	46
11/2/2021 14:20	51
11/2/2021 15:20	54
11/2/2021 16:20	55
11/2/2021 17:20	49
11/2/2021 18:20	47
11/2/2021 19:20	51
11/2/2021 20:20	60
11/2/2021 21:20	65
11/2/2021 22:20	63
11/2/2021 23:20	70
12/2/2021 00:20	73
12/2/2021 01:20	66
12/2/2021 02:20	52
12/2/2021 03:20	57
12/2/2021 04:20	54
12/2/2021 05:20	52
12/2/2021 06:20	47
12/2/2021 07:20	46
Average	52
Action Level	156
Limit Level	260

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.

AS 8 - Lek Yuen Estate Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
3/2/2021 07:45	47	9/2/2021 07:55	44
3/2/2021 08:45	44	9/2/2021 08:55	42
3/2/2021 09:45	44	9/2/2021 09:55	61
3/2/2021 10:45	41	9/2/2021 10:55	64
3/2/2021 11:45	38	9/2/2021 11:55	39
3/2/2021 12:45	55	9/2/2021 12:55	47
3/2/2021 13:45	45	9/2/2021 13:55	38
3/2/2021 14:45	45	9/2/2021 14:55	47
3/2/2021 15:45	38	9/2/2021 15:55	38
3/2/2021 16:45	39	9/2/2021 16:55	44
3/2/2021 17:45	38	9/2/2021 17:55	56
3/2/2021 18:45	42	9/2/2021 18:55	38
3/2/2021 19:45	39	9/2/2021 19:55	42
3/2/2021 20:45	44	9/2/2021 20:55	64
3/2/2021 21:45	45	9/2/2021 21:55	41
3/2/2021 22:45	45	9/2/2021 22:55	47
3/2/2021 23:45	44	9/2/2021 23:55	64
4/2/2021 00:45	50	10/2/2021 00:55	44
4/2/2021 00:45	45	10/2/2021 01:55	48
4/2/2021 02:45	42	10/2/2021 02:55	47
4/2/2021 03:45	53	10/2/2021 03:55	55
4/2/2021 03:45	42	10/2/2021 03:55	36
4/2/2021 04:45	42	10/2/2021 04:55	39
4/2/2021 06:45	41	10/2/2021 05:55	59
Average	41	Average	48
Action Level	161	Action Level	161
Limit Level	260	Limit Level	260
Limit Level	260	Limit Level	260
Limit Level Date and Time	260 TSP Concentration (μg/m³)	Limit Level Date and Time	260 TSP Concentration (μg/m³)
Limit Level Date and Time 17/2/2021 07:45	260 TSP Concentration (μg/m³) 58	Limit Level Date and Time 23/2/2021 07:45	260 TSP Concentration (μg/m <sup>3</sup> ) 39
Limit Level Date and Time 17/2/2021 07:45 17/2/2021 08:45	260 TSP Concentration (μg/m³) 58 59	Limit Level Date and Time 23/2/2021 07:45 23/2/2021 08:45	260 TSP Concentration (μg/m <sup>3</sup> ) 39 48
Limit Level Date and Time 17/2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45	260 TSP Concentration (µg/m <sup>3</sup> ) 58 59 45	Limit Level Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45	260 TSP Concentration (µg/m <sup>8</sup> ) 39 48 38
Limit Level <b>Date and Time</b> 17/2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45 17/2/2021 10:45	260 TSP Concentration (μg/m³) 58 59 45 58	Limit Level           Date and Time           23/2/2021 07:45           23/2/2021 08:45           23/2/2021 09:45           23/2/2021 10:45	260 TSP Concentration (µg/m³) 39 48 38 41
Limit Level Date and Time 17/2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45	260 TSP Concentration (µg/m³) 58 59 45 58 44	Limit Level           Date and Time           23/2/2021 07:45           23/2/2021 08:45           23/2/2021 09:45           23/2/2021 10:45           23/2/2021 11:45	260 TSP Concentration (µg/m³) 39 48 38 41 62
Limit Level Date and Time 17/2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45 17/2/2021 12:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56	Limit Level <b>Date and Time</b> 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44	Limit Level Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 56 44 35	Limit Level           Date and Time           23/2/2021 07:45           23/2/2021 08:45           23/2/2021 09:45           23/2/2021 10:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59
Limit Level           Date and Time           17/2/2021 07:45           17/2/2021 08:45           17/2/2021 09:45           17/2/2021 10:45           17/2/2021 11:45           17/2/2021 12:45           17/2/2021 13:45           17/2/2021 14:45           17/2/2021 15:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 56 44 35 42	Limit Level           Date and Time           23/2/2021 07:45           23/2/2021 08:45           23/2/2021 09:45           23/2/2021 10:45           23/2/2021 11:45           23/2/2021 12:45           23/2/2021 13:45           23/2/2021 13:45           23/2/2021 13:45           23/2/2021 13:45           23/2/2021 14:45           23/2/2021 15:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58	Limit Level Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 16:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65	Limit Level Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 17:45	260 TSP Concentration (μg/m <sup>®</sup> ) 39 48 38 41 62 42 68 59 47 47 55
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47	Limit Level           Date and Time           23/2/2021 07:45           23/2/2021 08:45           23/2/2021 09:45           23/2/2021 10:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 11:45           23/2/2021 15:45           23/2/2021 16:45           23/2/2021 17:45           23/2/2021 17:45           23/2/2021 18:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 47 55 36
Limit Level	260 TSP Concentration (μg/m³) 58 59 45 58 44 56 44 56 44 35 42 58 65 47 62	Limit Level  Date and Time  23/2/2021 07:45  23/2/2021 08:45  23/2/2021 09:45  23/2/2021 10:45  23/2/2021 11:45  23/2/2021 12:45  23/2/2021 14:45  23/2/2021 14:45  23/2/2021 15:45  23/2/2021 15:45  23/2/2021 17:45  23/2/2021 17:45  23/2/2021 18:45  23/2/2021 24/2 24/2 24/2 24/2 24/2 24/2 24/2 24	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 55 36 45
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 21:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 55 36 45 53
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 07:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 11:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 16:45 23/2/2021 16:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 20:45 23/2/2021 21:45 23/	260 TSP Concentration (µg/m <sup>®</sup> ) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41
Limit Level  Date and Time 17/2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45 17/2/2021 13:45 17/2/2021 13:45 17/2/2021 13:45 17/2/2021 15:45 17/2/2021 13:45 17/2/2021 23:45 17/2/2021 23:45 17/2/2021 23:45 17/2/2021 23:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 48	Limit Level  Date and Time  23/2/2021 07:45  23/2/2021 08:45  23/2/2021 09:45  23/2/2021 10:45  23/2/2021 11:45  23/2/2021 13:45  23/2/2021 13:45  23/2/2021 15:45  23/2/2021 15:45  23/2/2021 16:45  23/2/2021 18:45  23/2/2021 18:45  23/2/2021 19:45  23/2/2021 19:45  23/2/2021 21:45  23/2/2021 21:45  23/2/2021 21:45  23/2/2021 22:45  23/2/2021 22:45  23/2/2021 23:45	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 55 36 45 53 41 68 48
Limit Level  Date and Time  17/2/2021 07:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 19:45 17/2/2021 20:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 18/2/2021 00:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58	Limit Level	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 47 55 36 45 53 36 45 53 41 68
Limit Level  Date and Time 17/2/2021 07:45 17/2/2021 07:45 17/2/2021 01:45 17/2/2021 10:45 17/2/2021 10:45 17/2/2021 12:45 17/2/2021 12:45 17/2/2021 13:45 17/2/2021 16:45 17/2/2021 16:45 17/2/2021 16:45 17/2/2021 10:45 17/2/2021 20:45 17/2/2021 20:45 17/2/2021 20:45 17/2/2021 20:45 17/2/2021 20:45 17/2/2021 20:45 17/2/2021 20:45 18/2/2021 00:45 18/2/2021 00:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 43 33 38	Limit Level	260 TSP Concentration (µg/m <sup>*</sup> ) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41 68 45 53 41 68 48 56 42
Limit Level  T//2/2021 07:45 17/2/2021 08:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 12:45 17/2/2021 12:45 17/2/2021 12:45 17/2/2021 13:45 17/2/2021 13:45 17/2/2021 16:45 17/2/2021 16:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 18/2/2021 01:45 18/2/2021 01:45 18/2/2021 01:45 18/2/2021 01:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 47 62 68 41 58 48 33 38 59	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 16:45 23/2/2021 16:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 24/2/2021 00:45 23/2/2021 20:45 23/	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 36 45 53 41 68 48 56 48 53 41 68 48 53 41 62 36 42 36 42 36 42 36 42 36 43 43 44 55 36 43 43 44 55 36 43 43 44 55 36 43 44 55 36 43 44 55 36 43 44 55 36 42 42 42 47 55 36 42 47 55 36 41 47 55 36 41 47 55 36 41 42 42 47 55 36 41 42 42 47 55 36 41 42 42 47 55 36 41 42 42 42 47 55 36 42 42 42 42 47 55 36 41 42 42 42 43 55 36 42 42 43 43 53 41 42 42 43 55 36 43 43 53 41 43 53 41 43 53 41 43 53 41 42 42 53 41 42 53 41 42 42 53 41 42 42 43 53 41 43 53 41 68 43 53 41 42 53 41 68 42 36
Limit Level  T/2/2021 07:45 17/2/2021 07:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 16:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 29:45 17/2/2021 29:45 18/2/2021 02:45 18/2/2021 02:45 18/2/2021 02:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 56 44 56 42 58 65 47 62 68 41 58 48 33 38 59 61	Limit Level  Date and Time  23/2/2021 07:45  23/2/2021 08:45  23/2/2021 09:45  23/2/2021 10:45  23/2/2021 11:45  23/2/2021 13:45  23/2/2021 13:45  23/2/2021 15:45  23/2/2021 15:45  23/2/2021 16:45  23/2/2021 17:45  23/2/2021 19:45  23/2/2021 19:45  23/2/2021 21:45  23/2/2021 21:45  23/2/2021 21:45  23/2/2021 22:45  23/2/2021 22:45  23/2/2021 22:45  23/2/2021 22:45  23/2/2021 23:45  24/2/2021 01	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 55 36 45 53 41 68 48 58 45 53 41 68 48 56 42 36 65
Limit Level  Date and Time  17/2/2021 07:45 17/2/2021 07:45 17/2/2021 03:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 20:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 17/2/2021 21:45 18/2/2021 03:45 18/2/2021 03:45 18/2/2021 03:45 18/2/2021 03:45	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 48 33 38 59 61 58	Limit Level	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41 68 45 53 41 68 45 53 41 68 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 62 45 53 41 65 45 53 41 65 45 53 41 65 45 53 41 65 45 53 41 65 45 53 41 65 53 41 65 53 41 65 53 41 65 53 41 66 53 41 66 53 41 66 53 41 66 53 41 66 53 41 66 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 68 53 41 66 45 53 41 66 45 55 53 41 66 45 55 53 41 56 56 45 55 56 45 56 56 55 45 56 56 56 55 45 55 55 55 55 56 55 55 55 55 5
Limit Level	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 68 41 58 48 33 38 59 61 58 58	Limit Level	260 TSP Concentration (µg/m <sup>*</sup> ) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41 68 48 53 41 68 48 56 42 36 65 45 64
Limit Level  Date and Time  T/7/2021 07:45  17/2/2021 09:45  17/2/2021 10:45  17/2/2021 10:45  17/2/2021 12:45  17/2/2021 12:45  17/2/2021 13:45  17/2/2021 16:45  17/2/2021 16:45  17/2/2021 16:45  17/2/2021 16:45  17/2/2021 16:45  17/2/2021 10:45  17/2/2021 10:45  17/2/2021 21:45  17/2/2021 21:45  17/2/2021 21:45  17/2/2021 01:45  18/2/2021 01:	260 TSP Concentration (μg/m <sup>3</sup> ) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 48 33 38 59 61 58 58 58 58 38	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 00:45 24/	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41 68 48 56 45 53 41 68 48 56 45 53 41 68 48 56 45 53 41 68 48 56 45 53 41 68 53 41 68 53 41 68 53 53 53 53 53 53 53 53 53 53
Limit Level  Date and Time  17/2/2021 07:45 17/2/2021 09:45 17/2/2021 10:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 11:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 15:45 17/2/2021 16:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 17/2/2021 19:45 18/2/2021 00:45 18	260 TSP Concentration (µg/m³) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 48 33 38 59 61 58 58 58 58 58 58 58 59 51	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 11:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 17:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 21:45 23/2/2021 10:45 24/2/2021 01:45 24/2/2021 01:45 24/2/2021 03:45 24/2/2021 06:45 24/	260 TSP Concentration (µg/m³) 39 48 38 41 62 42 68 59 47 47 47 55 36 45 53 41 68 48 59 45 53 41 68 48 56 42 36 65 45 53 41 53 53 53 50
Limit Level  Date and Time  17/2/2021 07:45  17/2/2021 08:45  17/2/2021 09:45  17/2/2021 10:45  17/2/2021 11:45  17/2/2021 13:45  17/2/2021 13:45  17/2/2021 15:45  17/2/2021 16:45  17/2/2021 18:45  17/2/2021 18:45  17/2/2021 20:45  17/2/2021 20:45  18/2/2021 00:45  18/2/2021 00:45  18/2/2021 03	260 TSP Concentration (μg/m <sup>3</sup> ) 58 59 45 58 44 56 44 35 42 58 65 47 62 68 41 58 48 33 38 59 61 58 58 58 58 38	Limit Level  Date and Time 23/2/2021 07:45 23/2/2021 08:45 23/2/2021 09:45 23/2/2021 10:45 23/2/2021 11:45 23/2/2021 12:45 23/2/2021 13:45 23/2/2021 15:45 23/2/2021 15:45 23/2/2021 16:45 23/2/2021 19:45 23/2/2021 19:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 20:45 23/2/2021 00:45 24/	260 TSP Concentration (μg/m <sup>8</sup> ) 39 48 38 41 62 42 68 59 47 47 55 36 45 53 41 68 48 53 41 68 48 56 64 55 45 64 53

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
11/2/2021 09:00	39
11/2/2021 10:00	41
11/2/2021 11:00	49
11/2/2021 12:00	52
11/2/2021 13:00	54
11/2/2021 14:00	58
11/2/2021 15:00	60
11/2/2021 16:00	64
11/2/2021 17:00	67
11/2/2021 18:00	71
11/2/2021 19:00	75
11/2/2021 20:00	71
11/2/2021 21:00	86
11/2/2021 22:00	94
11/2/2021 23:00	97
12/2/2021 00:00	90
12/2/2021 01:00	86
12/2/2021 02:00	82
12/2/2021 03:00	79
12/2/2021 04:00	75
12/2/2021 05:00	71
12/2/2021 06:00	67
12/2/2021 07:00	69
12/2/2021 08:00	64
Average	69
Action Level	161
Limit Level	260

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.

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> )
3/2/2021 07:40	49	9/2/2021 08:00	52
3/2/2021 08:40	50	9/2/2021 09:00	56
3/2/2021 09:40	58	9/2/2021 10:00	52
3/2/2021 10:40	77	9/2/2021 11:00	65
3/2/2021 11:40	67	9/2/2021 12:00	73
3/2/2021 12:40	73	9/2/2021 13:00	62
3/2/2021 13:40	73	9/2/2021 14:00	58
3/2/2021 14:40	50	9/2/2021 15:00	45
3/2/2021 15:40	75	9/2/2021 16:00	62
3/2/2021 16:40	77	9/2/2021 17:00	49
3/2/2021 17:40	52	9/2/2021 18:00	64
3/2/2021 18:40	45	9/2/2021 19:00	50
3/2/2021 19:40	45	9/2/2021 20:00	52
3/2/2021 20:40	69	9/2/2021 21:00	60
3/2/2021 20:40	50	9/2/2021 22:00	75
3/2/2021 22:40	49	9/2/2021 22:00	47
3/2/2021 22:40	54	10/2/2021 23:00	47 54
4/2/2021 23:40	54	10/2/2021 00:00	54 47
4/2/2021 00:40	58	10/2/2021 01:00	58
4/2/2021 02:40 4/2/2021 03:40	62 62	10/2/2021 03:00 10/2/2021 04:00	47 56
4/2/2021 04:40	56 77	10/2/2021 05:00	65
4/2/2021 05:40		10/2/2021 06:00	67
4/2/2021 06:40	45 59	10/2/2021 07:00	56 57
Average		Average	
Action Level Limit Level	165 260	Action Level Limit Level	165 260
Linne Lever	200	Linit Level	200
Date and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
17/2/2021 08:00	75	23/2/2021 08:00	49
17/2/2021 09:00	77	23/2/2021 09:00	64
17/2/2021 10:00	65	23/2/2021 10:00	
17/2/2021 11:00			41
11/2/2021 11.00	80	23/2/2021 11:00	41 52
		23/2/2021 11:00 23/2/2021 12:00	
17/2/2021 12:00	80	23/2/2021 12:00	52
17/2/2021 12:00 17/2/2021 13:00	80 64	23/2/2021 12:00 23/2/2021 13:00	52 82
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00	80 64 58 54	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00	52 82 77 41
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00	80 64 58	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00	52 82 77
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00	80 64 58 54 62	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00	52 82 77 41 52
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00	80 64 58 54 62 78	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00	52 82 77 41 52 47
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00 17/2/2021 17:00 17/2/2021 18:00	80 64 58 54 62 78 58	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 18:00	52 82 77 41 52 47 65
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00 17/2/2021 17:00 17/2/2021 18:00 17/2/2021 19:00	80 64 58 54 62 78 58 86	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 19:00	52 82 77 41 52 47 65 77 84
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 17:00 17/2/2021 18:00 17/2/2021 19:00 17/2/2021 20:00	80 64 58 62 78 58 86 56 67	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 18:00 23/2/2021 20:00	52 82 77 41 52 47 65 77 84 84
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00 17/2/2021 18:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 21:00	80 64 58 54 62 78 58 86 56 67 80	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 13:00 23/2/2021 15:00 23/2/2021 15:00 23/2/2021 17:00 23/2/2021 19:00 23/2/2021 19:00 23/2/2021 21:00	52 82 77 41 52 47 65 77 84 86 47
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00 17/2/2021 17:00 17/2/2021 18:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 22:00	80 64 58 54 62 78 58 86 56 67 80 52	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 13:00 23/2/2021 15:00 23/2/2021 15:00 23/2/2021 17:00 23/2/2021 19:00 23/2/2021 19:00 23/2/2021 20:00 23/2/2021 22:00	52 82 77 41 52 47 65 77 84 86 47 71
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 18:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 22:00 17/2/2021 23:00	80 64 58 54 62 78 58 86 56 67 80 52 84	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 19:00 23/2/2021 20:00 23/2/2021 20:00 23/2/2021 20:00	52 82 77 41 52 47 65 77 84 86 47 71 71
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 13:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 22:00 17/2/2021 23:00 17/2/2021 23:00	80 64 58 62 78 58 86 56 67 80 52 84 82	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 18:00 23/2/2021 20:00 23/2/2021 20:00 23/2/2021 22:00 23/2/2021 22:00 23/2/2021 22:00	52 82 77 41 52 47 65 77 84 86 47 71 71 50
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 17:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 00:00 18/2/2021 01:00	80 64 58 54 62 78 58 86 56 67 80 52 80 52 84 84 82 62	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 13:00 23/2/2021 15:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 19:00 23/2/2021 20:00 23/2/2021 21:00 23/2/2021 21:00 23/2/2021 23:00 23/2/2021 23:00 24/2/2021 01:00	52 82 77 41 52 47 65 77 84 86 47 71 71 50 49
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 14:00 17/2/2021 15:00 17/2/2021 16:00 17/2/2021 19:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 22:00 17/2/2021 00:00 18/2/2021 01:00 18/2/2021 02:00	80 64 58 54 62 78 58 86 56 67 80 52 84 82 62 73	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 13:00 23/2/2021 15:00 23/2/2021 15:00 23/2/2021 17:00 23/2/2021 19:00 23/2/2021 20:00 23/2/2021 21:00 23/2/2021 22:00 23/2/2021 22:00 23/2/2021 22:00 23/2/2021 02:00	52 82 77 41 52 47 65 77 84 86 47 71 71 71 50 49 67
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 18:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 23:00 18/2/2021 00:00 18/2/2021 03:00	80 64 58 54 62 78 58 86 56 67 80 52 84 84 82 62 73 78	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 19:00 23/2/2021 20:00 23/2/2021 20:00 23/2/2021 22:00 23/2/2021 23:00 24/2/2021 00:00 24/2/2021 01:00	52 82 77 41 52 47 65 77 84 86 47 71 71 71 50 49 67 78
17/2/2021 12:00 17/2/2021 13:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 15:00 17/2/2021 13:00 17/2/2021 19:00 17/2/2021 20:00 17/2/2021 20:00 17/2/2021 20:00 18/2/2021 00:00 18/2/2021 00:00 18/2/2021 00:00 18/2/2021 00:00	80 64 58 54 62 78 58 86 56 67 80 52 84 84 82 62 73 78 50	23/2/2021 12:00 23/2/2021 13:00 23/2/2021 14:00 23/2/2021 15:00 23/2/2021 16:00 23/2/2021 16:00 23/2/2021 18:00 23/2/2021 18:00 23/2/2021 20:00 23/2/2021 20:00 23/2/2021 22:00 23/2/2021 22:00 24/2/2021 00:00 24/2/2021 00:00 24/2/2021 02:00 24/2/2021 04:00	52 82 77 41 52 47 65 77 84 86 47 71 71 50 49 67 78 50
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Date and Time	TSP Concentration (µg/m <sup>3</sup> )
11/2/2021 09:41	52
11/2/2021 10:41	55
11/2/2021 10:41	60
11/2/2021 11:41	64
11/2/2021 12:41	67
11/2/2021 13:41	72
11/2/2021 14:41	72
11/2/2021 15:41	73 64
11/2/2021 17:41	61
11/2/2021 18:41	72
11/2/2021 19:41	78
11/2/2021 20:41	80
11/2/2021 21:41	83
11/2/2021 22:41	77
11/2/2021 23:41	77
12/2/2021 00:41	73
12/2/2021 01:41	72
12/2/2021 02:41	64
12/2/2021 03:41	66
12/2/2021 04:41	70
12/2/2021 05:41	73
12/2/2021 06:41	64
12/2/2021 07:41	63
12/2/2021 08:41	61
Average	68
Action Level	165
Limit Level	260

20
 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.

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

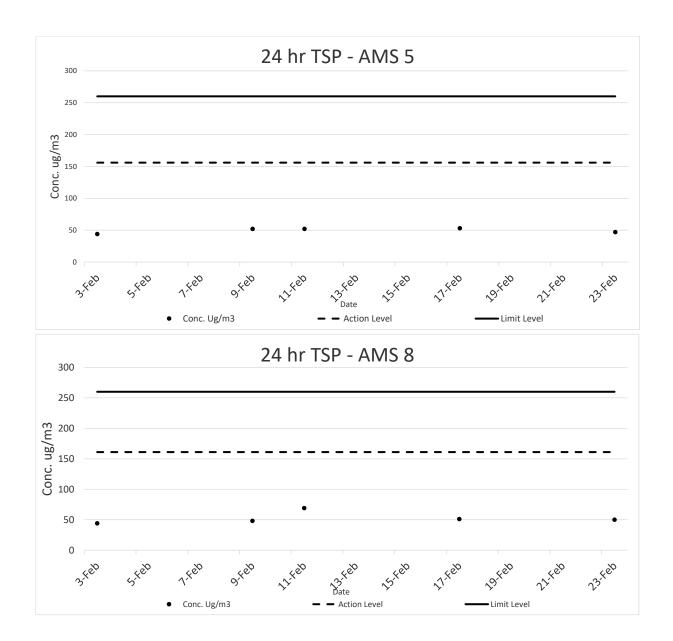
MS 12 - Fung Wo Estate	1	_		
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	[	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
3/2/2021 07:30	60		9/2/2021 08:10	57
3/2/2021 08:30	63		9/2/2021 09:10	41
3/2/2021 09:30	52		9/2/2021 10:10	37
3/2/2021 10:30	43		9/2/2021 11:10	37
3/2/2021 11:30	37		9/2/2021 12:10	50
3/2/2021 12:30	44		9/2/2021 13:10	46
3/2/2021 13:30	57		9/2/2021 14:10	60
3/2/2021 14:30	37		9/2/2021 15:10	41
3/2/2021 15:30	60		9/2/2021 16:10	43
3/2/2021 16:30	54		9/2/2021 17:10	43
3/2/2021 17:30	52		9/2/2021 18:10	57
3/2/2021 18:30	37		9/2/2021 19:10	41
3/2/2021 19:30	54		9/2/2021 20:10	46
3/2/2021 20:30	55		9/2/2021 21:10	38
3/2/2021 21:30	58		9/2/2021 22:10	54
3/2/2021 22:30	54		9/2/2021 23:10	55
3/2/2021 23:30	57		10/2/2021 00:10	37
4/2/2021 00:30	37		10/2/2021 01:10	50
4/2/2021 01:30	55		10/2/2021 02:10	37
4/2/2021 02:30	47		10/2/2021 03:10	50
4/2/2021 03:30	55		10/2/2021 04:10	41
4/2/2021 04:30	52		10/2/2021 05:10	63
4/2/2021 05:30	43		10/2/2021 05:10	44
4/2/2021 06:30	61		10/2/2021 07:10	63
Average	51		Average	47
-			-	
Action Level	168		Action Level	168
Action Level	168 260		Action Level	168 260
Action Level Limit Level	168 260		Action Level Limit Level	168 260
Limit Level	260		Limit Level	260
Limit Level Date and Time	260 TSP Concentration (µg/m³)		Limit Level Date and Time	260 TSP Concentration (µg/m³)
Limit Level Date and Time 17/2/2021 08:20	260 TSP Concentration (μg/m³) 43		Limit Level Date and Time 23/2/2021 08:15	260 TSP Concentration (μg/m³) 35
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20	260 <b>TSP Concentration (µg/m³)</b> 43 58		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15	260 TSP Concentration (μg/m³) 35 54
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20	260 TSP Concentration (µg/m <sup>3</sup> ) 43 58 44		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15	260 TSP Concentration (µg/m <sup>®</sup> ) 35 54 37
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20	260 TSP Concentration (µg/m³) 43 58 44 37		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15	260 TSP Concentration (µg/m <sup>®</sup> ) 35 54 37 57
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 11:20	260 TSP Concentration (µg/m³) 43 58 44 37 35		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15	260 TSP Concentration (µg/m³) 35 54 37 57 63
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 37
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 37 35
Limit Level  Date and Time  17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 12:20 17/2/2021 13:20 17/2/2021 14:20 17/2/2021 14:20 17/2/2021 15:20	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 11:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 14:15 23/2/2021 15:15	260 TSP Concentration (μg/m³) 35 54 37 57 63 37 35 49
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 14:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 16:20	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50		Limit Level Date and Time 23/2/021 08:15 23/2/021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 16:15	260 TSP Concentration (µg/m*) 35 54 37 57 63 37 35 49 66
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 17:15 23/2/2021 15:15 23/2/2021 17:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 17:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 15 23/2/2021 15:15 23/2/20	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52
Limit Level  Date and Time  17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 12:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 17:20 17/2/2021 18:20 17/2/2021 18:20 17/2/2021 18:20 17/2/2021 19:20	260 TSP Concentration (µg/m <sup>3</sup> ) 43 58 44 37 35 50 54 57 50 57 43		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 17:15 23/2/2021 18:15 23/2/2021 19:15 23/2/2021 19:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 50 57 43 44		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 01:5 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 13:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 9:15 23/2/2021 9:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66
Limit Level           Date and Time           17/2/2021 08:20           17/2/2021 09:20           17/2/2021 10:20           17/2/2021 11:20           17/2/2021 12:20           17/2/2021 13:20           17/2/2021 13:20           17/2/2021 13:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 15:20           17/2/2021 19:20	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 50 57 43 44 34		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 17:15 23/2/2021 18:15 23/2/2021 19:15 23/2/2021 19:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 52 37 66 49
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 34 39		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 17:15 23/2/2021 18:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 21:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 52 37 66 49 67
Limit Level	260 TSP Concentration (µg/m <sup>3</sup> ) 43 58 44 37 35 50 54 57 50 57 43 44 34 39 46		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 18:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 21 21 21 21 21 21 21 21 21 21 21 21 2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 66 49 67 40
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 19:20 17/2/2021 19:20 17/2/2021 19:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 22:20 17/2/2021 23:20 18/2/2021 00:20	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 34 39 46 67 70		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 15:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 23:15 23/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 66 49 67 40 57 64
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 34 39 46 67 70 69		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 21:15 23/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 67 49 67 40 57 64 69
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 39 46 67 70 69 40		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 18:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 22:15 23/2/2021 02:15 24/2/2021 00:15 24/2/2021 02:15	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 66 49 67 40 57 64 69 40
Limit Level  Date and Time  17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 11:20 17/2/2021 13:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 19:20 17/2/2021 19:20 17/2/2021 20:20 17/2/2021 20:20 17/2/2021 20:20 17/2/2021 20:20 18/2/2021 00:20 18/2/2021 00:20 18/2/2021 00:20 18/2/2021 00:20	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 34 44 39 46 67 70 69 40 38		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 12:15 23/2/2021 14:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 17:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 01:15 23/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 67 40 57 64 69 40 40 41
Limit Level Date and Time 17/2/2021 08:20 17/2/2021 09:20 17/2/2021 10:20 17/2/2021 11:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 13:20 17/2/2021 15:20 17/2/2021 15:20 17/2/2021 18:20 17/2/2021 19:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 17/2/2021 21:20 18/2/2021 00:20 18/2/2021 00:20 18/2/2021 01:20 18/2	260 TSP Concentration (µg/m³) 43 58 44 37 35 50 54 57 50 57 43 44 34 39 46 67 70 69 40 38 46		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 11:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 15:15 23/2/2021 15:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 20:15 23/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 52 37 66 49 67 49 66 52 37 57 63 37 57 57 57 57 57 57 57 57 57 5
Limit Level	260 TSP Concentration (µg/m³) 43 58 44 37 50 54 57 50 57 43 44 34 39 46 67 70 69 40 38 46 50		Limit Level  Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 19:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 02:15 24/2/2021 01:15 24/2/2021 01:15 24/2/2021 02:15 24/2/2021 04:15 24/	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 67 49 67 49 67 49 67 40 57 64 69 40 41 37 66 40 57 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 52 37 66 66 52 37 66 52 37 66 66 52 37 66 67 60 52 37 66 67 60 52 37 66 52 37 66 67 60 52 37 66 52 37 66 67 49 67 60 57 66 52 37 66 67 49 67 60 57 66 52 37 66 67 49 67 60 57 66 52 37 66 67 60 57 66 67 49 67 66 57 66 67 49 67 66 52 37 66 67 66 67 66 57 66 67 66 67 66 67 66 67 66 67 66 67 66 66
Limit Level	260 TSP Concentration (µg/m <sup>3</sup> ) 43 58 44 37 35 50 54 57 50 57 43 44 39 46 67 70 69 40 38 46 50 70 69 40 38 46 50 70 69 40 38 46 50 70 69 40 38 46 50 70 70 69 40 38 40 50 70 70 69 40 50 70 50 50 57 57 57 57 57 57 57 57 57 57		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 02:15 24/2/2021 00:15 24/2/2021 00:15 24/2/2021 03:15 24/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 66 52 37 66 49 67 40 57 64 69 40 41 37 60 38
Limit Level	260 TSP Concentration (µg/m <sup>8</sup> ) 43 58 44 37 35 50 54 57 50 57 43 44 39 46 67 70 69 40 38 46 50 70 40		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 12:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 17:15 23/2/2021 18:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 21:15 23/2/2021 01:15 24/2	260 TSP Concentration (μg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 67 40 57 64 69 40 57 64 69 40 41 37 60 38 40
Limit Level	260 TSP Concentration (µg/m <sup>3</sup> ) 43 58 44 37 35 50 54 57 50 57 43 44 39 46 67 70 69 40 38 46 50 70 69 40 38 46 50 70 69 40 38 46 50 70 69 40 38 46 50 70 70 69 40 38 40 50 70 70 69 40 50 70 50 50 57 57 57 57 57 57 57 57 57 57		Limit Level Date and Time 23/2/2021 08:15 23/2/2021 09:15 23/2/2021 10:15 23/2/2021 10:15 23/2/2021 12:15 23/2/2021 13:15 23/2/2021 14:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 16:15 23/2/2021 19:15 23/2/2021 20:15 23/2/2021 20:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 22:15 23/2/2021 02:15 24/2/2021 00:15 24/2/2021 00:15 24/2/2021 03:15 24/2	260 TSP Concentration (µg/m³) 35 54 37 57 63 37 35 49 66 52 37 66 49 67 40 57 64 69 40 57 64 69 40 41 37 60 38

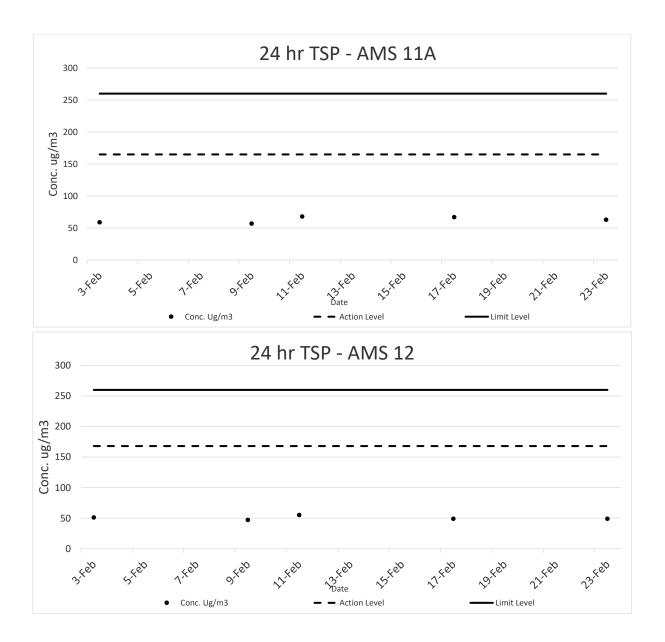
24-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
11/2/2021 09:26	34
11/2/2021 10:26	36
11/2/2021 11:26	42
11/2/2021 12:26	55
11/2/2021 13:26	49
11/2/2021 14:26	41
11/2/2021 15:26	44
11/2/2021 16:26	48
11/2/2021 17:26	53
11/2/2021 18:26	49
11/2/2021 19:26	63
11/2/2021 20:26	63
11/2/2021 21:26	61
11/2/2021 22:26	49
11/2/2021 23:26	53
12/2/2021 00:26	53
12/2/2021 01:26	63
12/2/2021 02:26	65
12/2/2021 03:26	68
12/2/2021 04:26	61
12/2/2021 05:26	61
12/2/2021 06:26	70
12/2/2021 07:26	68
12/2/2021 08:26	67
Average	55
Action Level	168
Limit Level	260

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.

Remark





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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

111110 1 0000								
		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		Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
3-Feb-21	10:15	62.8	61.0	63.5		62.8	Sunny	0.5
9-Feb-21	08:22	62.4	61.5	63.5	75	62.4	Overcast	0.6
17-Feb-21	08:30	60.8	59.0	63.0	15	60.8	Sunny	0.4
23-Feb-21	08:53	63.6	61.5	65.5		63.6	Fine	0.6

#### NMS 2 Villa Le Parc

		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 Min	IS		(m/s)
3-Feb-21	13:02	51.6	50.5	52.5		51.6	Sunny	0.2
9-Feb-21	11:28	53.1	52.0	55.0	75	53.1	Overcast	0.7
17-Feb-21	09:05	52.0	51.0	53.0	75	52.0	Sunny	0.2
23-Feb-21	08:16	57.6	53.0	58.3		57.6	Fine	0.7

#### NMS 3 Hilton Plaza

		Meas	ured Noise	Level	Limit Level Construction Noi	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)
3-Feb-21	09:33	63.9	61.5	65.5		63.9	Sunny	0.8
9-Feb-21	08:58	66.6	63.0	68.5	75	66.6	Overcast	0.3
17-Feb-21	13:05	62.7	60.5	64.0	15	62.7	Sunny	0.5
23-Feb-21	09:28	67.8	64.0	70.5		67.8	Fine	0.8

#### 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>	Linit Level		Weather	Speed	
				Unit	t: dB(A) 30 Min	IS		(m/s)
3-Feb-21	10:57	62.5	61.0	64.0		62.5	Sunny	0.7
9-Feb-21	10:45	62.7	60.5	63.5	75	62.7	Overcast	0.4
17-Feb-21	11:12	63.2	61.0	65.5	75	63.2	Sunny	0.9
23-Feb-21	16:52	64.4	61.0	66.0		64.4	Fine	0.6

#### NMS 5A 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
				Unit	: dB(A) 30 Mir	IS		(m/s)
3-Feb-21	09:00	66.3	63.0	68.0		66.3	Sunny	0.7
9-Feb-21	09:30	67.8	65.0	69.0	75	67.8	Overcast	0.8
17-Feb-21	13:38	64.9	60.5	67.0	15	64.9	Sunny	0.7
23-Feb-21	10:05	69.8	66.0	72.5		69.8	Fine	1.1

#### NMS 6A Wai Wah Centre

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Speed					
				Unit	:: dB(A) 30 Min	IS		(m/s)
3-Feb-21	08:16	73.1	71.5	74.5		73.1	Sunny	0.9
9-Feb-21	10:04	70.3	68.0	71.5	75	70.3	Overcast	0.2
17-Feb-21	14:20	71.3	70.0	72.5	75	71.3	Sunny	0.5
23-Feb-21	10:38	71.6	67.5	73.5		71.6	Fine	0.9

#### NMS 7 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	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Mir	IS		(m/s)
3-Feb-21	11:32	63.6	60.5	64.5		63.6	Sunny	0.7
9-Feb-21	12:40	65.1	58.5	67.0	75	65.1	Overcast	0.6
17-Feb-21	10:40	60.6	59.0	62.0	75	60.6	Sunny	0.7
23-Feb-21	16:18	66.2	62.5	68.0		66.2	Fine	0.9

#### 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
				Unit	:: dB(A) 30 Min	IS		(m/s)
4-Feb-21	08:30	68.5	65.0	70.0		68.5	Sunny	0.4
10-Feb-21	08:29	66.0	64.5	67.5	75	66.0	Overcast	0.5
18-Feb-21	09:07	64.2	61.5	66.0	15	64.2	Fine	0.4
24-Feb-21	09:00	67.0	64.5	69.5		67.0	Sunny	0.3

#### 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>90</sub> L <sub>10</sub> Weather S	Speed			
				Unit	:: dB(A) 30 Mir	IS		(m/s)
4-Feb-21	09:41	69.4	65.0	71.0		69.4	Sunny	0.5
10-Feb-21	09:50	62.3	59.0	66.0	75	62.3	Overcast	0.5
18-Feb-21	12:03	62.7	58.5	64.5	15	62.7	Fine	0.4
24-Feb-21	10:15	63.3	59.5	66.0		63.3	Sunny	0.8

#### NMS 10A Shatin Tsung Tsin School

		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-Feb-21	10:18	69.5	65.0	72.0		69.5	Sunny	0.6
10-Feb-21	10:31	63.8	59.5	67.0	70	63.8	Overcast	0.3
18-Feb-21	09:12	62.2	60.5	64.0	10	62.2	Fine	1.1
24-Feb-21	10:56	64.9	59.5	67.5		64.9	Sunny	0.2

\*Note: The examination schedule 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>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Mir	IS		(m/s)
4-Feb-21	09:48	54.5	60.0	57.0		54.5	Sunny	0.5
10-Feb-21	10:06	56.2	51.5	59.0	75	56.2	Overcast	0.5
18-Feb-21	10:41	57.3	54.5	61.0	75	57.3	Fine	0.4
24-Feb-21	14:59	55.3	52.0	59.5		55.3	Sunny	0.5

#### NMS 12 SKH Holy Spirit Primary School

	Measured Noise Level			l imit l evel	Construction Noise Level		Wind
Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				(m/s)			
10:58	67.0	60.0	69.0		67.0	Sunny	0.7
11:06	65.7	60.5	66.0	70	65.7	Overcast	0.8
09:49	64.1	61.5	66.0	70	64.1	Fine	1.6
11:30	62.3	57.5	64.5		62.3	Sunny	0.3
	10:58 11:06 09:49	Start Time         Leq           10:58         67.0           11:06         65.7           09:49         64.1	Start Time         L <sub>eq</sub> L <sub>go</sub> 10:58         67.0         60.0           11:06         65.7         60.5           09:49         64.1         61.5	Start Time         Leq         L90         L10           Unit           10:58         67.0         60.0         69.0           11:06         65.7         60.5         66.0           09:49         64.1         61.5         66.0	Start Time         Leq         L90         L10           Unit: dB(A) 30 Mir           10:58         67.0         60.0         69.0           11:06         65.7         60.5         66.0           09:49         64.1         61.5         66.0	Start Time         Leq         L90         L10         Limit Level         Construction Noise Level           10:58         67.0         60.0         69.0         67.0         67.0           11:06         65.7         60.5         66.0         70         65.7           09:49         64.1         61.5         66.0         70         64.1	Start Time         L <sub>eq</sub> L <sub>g0</sub> L <sub>10</sub> Limit Level         Construction Noise Level         Weather           10:58         67.0         60.0         69.0         67.0         60.0         Sunny           11:06         65.7         60.5         66.0         70         65.7         Overcast           09:49         64.1         61.5         66.0         70         64.1         Fine

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 Start Ti	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
					(m/s)			
4-Feb-21	11:35	70.0	63.0	72.0		70.0	Sunny	0.6
10-Feb-21	11:44	60.9	58.0	64.5	75	60.9	Overcast	0.6
18-Feb-21	08:30	61.6	59.0	64.0	75	61.6	Fine	0.7
24-Feb-21	13:05	62.0	58.5	64.5		62.0	Sunny	0.7

#### NMS 14 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Sta	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level		Weather	Speed
				Unit	:: dB(A) 30 Mir	IS		(m/s)
4-Feb-21	10:21	58.0	54.5	59.5		58.0	Sunny	0.4
10-Feb-21	10:39	57.4	54.0	59.5	75	57.4	Overcast	0.6
18-Feb-21	11:22	60.4	56.0	63.5	75	60.4	Fine	0.4
24-Feb-21	14:28	59.2	55.5	61.5		59.2	Sunny	0.6

#### NMS 15 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 (m/s)	
			Unit: dB(A) 30 Mins					
3-Feb-21	13:12	66.1	60.0	69.0		66.1	Sunny	0.4
9-Feb-21	11:28	61.7	53.5	64.5	75	61.7	Overcast	0.7
17-Feb-21	09:58	60.8	58.0	63.0	10	60.8	Sunny	0.3
23-Feb-21	15:41	62.6	60.5	64.0		62.6	Fine	0.6

#### NMS 16 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Start Tir	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
			-	1	(m/s)			
3-Feb-21	13:50	58.8	55.5	60.5		58.8	Sunny	0.6
9-Feb-21	12:03	62.4	58.0	64.5	75	62.4	Overcast	0.9
17-Feb-21	09:20	61.0	57.5	63.5	75	61.0	Sunny	0.4
23-Feb-21	15:04	62.1	59.5	63.5		62.1	Fine	0.8

#### 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>	Emili Level		Weather	Speed	
					(m/s)			
4-Feb-21	14:00	66.0	62.0	70.0		66.0	Sunny	0.6
10-Feb-21	13:07	66.7	64.0	68.5	70	66.7	Overcast	0.7
18-Feb-21	10:29	60.6	58.0	62.0	70	60.6	Fine	0.6
24-Feb-21	15:39	66.8	64.5	70.0		66.8	Sunny	0.4

\*Note: The examination schedule was provide in Appendix E.

#### NMS 18 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind		
Date Start	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed (m/s)		
			Unit: dB(A) 30 Mins							
3-Feb-21	13:50	56.8	52.5	59.5		56.8	Sunny	0.7		
9-Feb-21	13:43	59.6	53.5	62.0	75	59.6	Overcast	0.6		
17-Feb-21	10:00	56.0	52.5	60.1	75	56.0	Sunny	0.6		
23-Feb-21	14:30	61.1	56.5	62.5		61.1	Fine	0.6		

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	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed (m/s)		
			Unit: dB(A) 30 Mins						
4-Feb-21	11:24	61.8	59.5	63.5		61.8	Sunny	0	
10-Feb-21	13:08	63.1	61.0	64.5	75	63.1	Overcast	0.8	
18-Feb-21	11:07	65.7	62.5	67.0	,5	65.7	Fine	1.3	
24-Feb-21	16:15	59.3	56.5	61.0		59.3	Sunny	0.5	

#### NMS 20 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date S	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Emit Lever		Weather	Speed
				Unit	: dB(A) 30 Mir	IS		(m/s)
4-Feb-21	13:11	58.2	56.0	60.0		58.2	Sunny	0.6
10-Feb-21	13:45	60.0	57.0	62.0	75	60.0	Overcast	0.7
18-Feb-21	11:41	66.8	63.5	68.5	15	66.8	Fine	0.9
24-Feb-21	16:45	62.1	59.5	64.0		62.1	Sunny	0.2

#### 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>		Weather	Speed		
					(m/s)			
3-Feb-21	11:28	63.6	59.0	65.5		63.6	Sunny	0.5
9-Feb-21	10:36	58.9	57.0	61.0	75	58.9	Overcast	0.8
17-Feb-21	10:39	61.7	58.0	64.5	10	61.7	Sunny	0.6
23-Feb-21	11:14	66.2	62.0	67.5		66.2	Fine	0.8

#### NMS 24 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date Start Time	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linit Level		Weather	Speed
					(m/s)			
4-Feb-21	09:03	68.4	65.5	70.0		68.4	Sunny	0.4
10-Feb-21	09:06	67.5	64.5	69.0	75	67.5	Overcast	0.4
18-Feb-21	09:34	62.3	60.0	64.5	15	62.3	Fine	0.4
24-Feb-21	09:37	66.5	64.5	68.5		66.5	Sunny	0.5

#### NMS 25A Sheung Wo Che

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date Start Tim	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>		Weather	Speed	
					(m/s)			
4-Feb-21	09:14	65.2	57.0	67.5		65.2	Sunny	0.5
10-Feb-21	09:33	60.5	54.0	61.5	75	60.5	Overcast	0.5
18-Feb-21	10:07	66.5	67.0	69.0	15	66.5	Fine	0.5
24-Feb-21	13:50	60.2	56.0	61.0		60.2	Sunny	0.6

#### NMS 26 Wo Che Estate

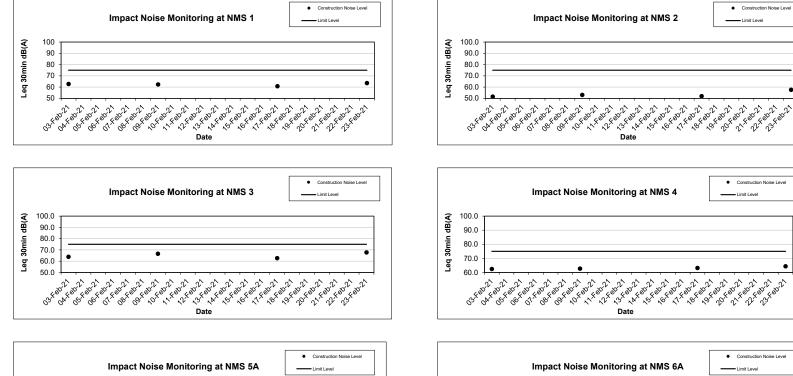
		Meas	ured Noise	Level	Limit Level	evel Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	15	Weather	Speed
					(m/s)			
4-Feb-21	13:52	68.4	65.5	71.0		68.4	Sunny	0.5
10-Feb-21	14:27	67.3	65.5	71.0	75	67.3	Overcast	0.6
18-Feb-21	12:48	67.5	65.0	70.5	10	67.5	Fine	0.6
24-Feb-21	17:25	67.6	64.5	69.0		67.6	Sunny	0.7

#### NMS 27 Jockey Club Ti-I College

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	$L_{eq}$	L <sub>90</sub>	L <sub>10</sub>	Linin Level	15	Weather	Speed
					(m/s)			
3-Feb-21	14:41	69.8	62.0	71.0		69.8	Sunny	0.8
9-Feb-21	13:31	68.6	62.5	70.0	70	68.6	Overcast	0.5
17-Feb-21	11:25	69.5	67.0	72.0	70	69.5	Sunny	0.6
23-Feb-21	13:38	64.3	62.0	67.0		64.3	Fine	0.6

\*Note: The examination schedule was provide in Appendix E.

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



**Ped 30min dB (A)** 100.0 **Ped 30min dB (A)** 0.00 **Ped 30min dB (A)** 0.00 **Ped 40** 

60.0

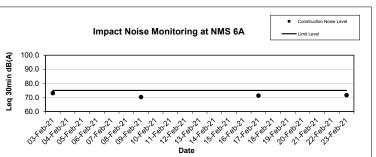
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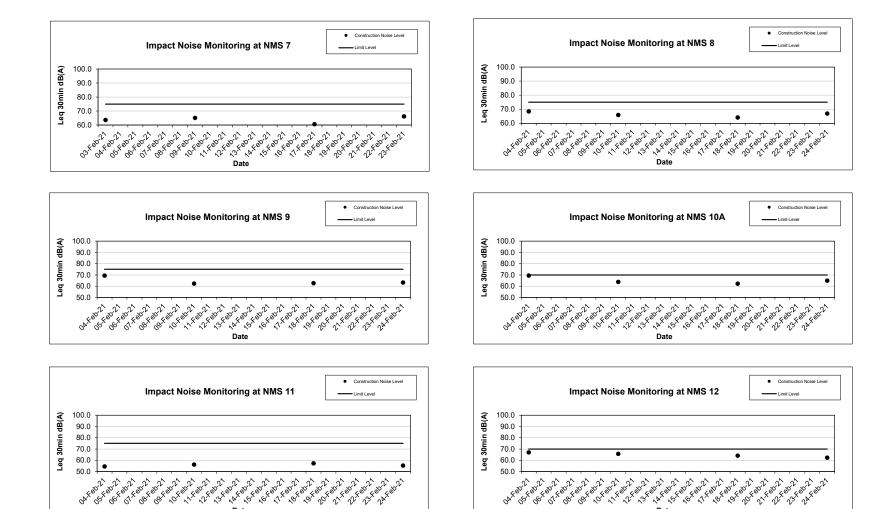
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Date

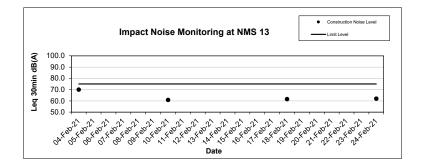


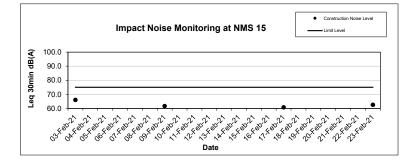
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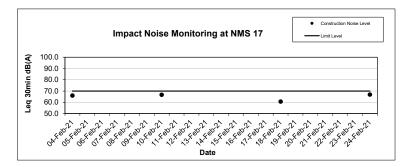


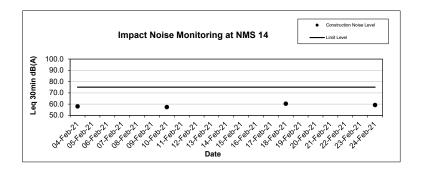
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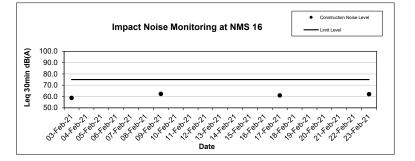
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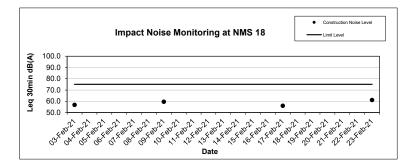


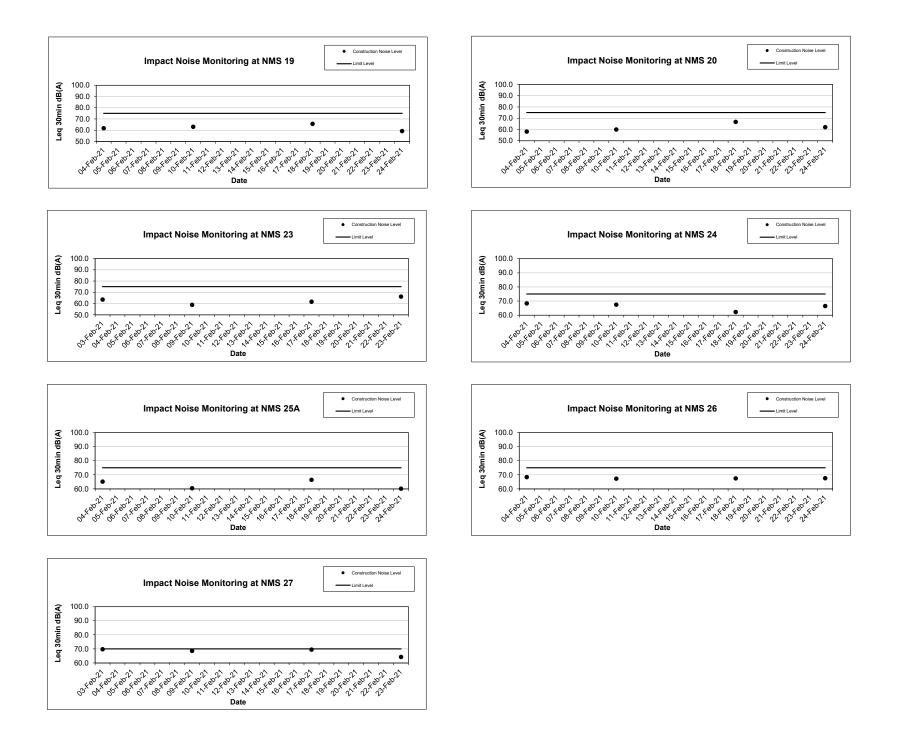












### Night Time Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### 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)
4-Feb-21	23:02	60.0		52.8 - 66.3	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:00	59.3	61.4		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
18-Feb-21	23:00	58.1	01.4		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
25-Feb-21	23:00	58.6			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.4</td></baseline<>	Fine	1.4

#### 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)
5-Feb-21	02:41	51.6		40.1 - 58.2	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.7</td></limit>	Fine	0.7
11-Feb-21	02:35	53.1	49.7		55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
19-Feb-21	02:30	52.7	49.7		55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.3</td></limit>	Fine	1.3
26-Feb-21	02:38	52.0			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.6</td></limit>	Fine	1.6

#### 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)
4-Feb-21	23:00	62.4		60.2 - 78.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:06	62.7	70.9		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
18-Feb-21	23:00	61.4	70.9		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
25-Feb-21	23:00	63.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<>	Fine	1.5

#### 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)
5-Feb-21	03:06	57.9		53.1 - 68.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	03:02	58.7	62.6		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	02:51	58.0	02.0		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
26-Feb-21	02:50	57.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.4</td></baseline<>	Fine	1.4

#### 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)
4-Feb-21	23:28	61.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:32	62.4	67.9	62.0 - 75.2	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
18-Feb-21	23:30	60.5	07.5		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
25-Feb-21	23:26	59.4			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

#### 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)
4-Feb-21	23:27	69.1			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:32	71.1	71.5	65.0 - 85.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
18-Feb-21	23:42	69.9	71.5		55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
25-Feb-21	23:25	67.7			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<>	Fine	1.5

#### 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)
5-Feb-21	03:02	57.5		51.4 - 65.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-20	03:00	59.1	59.0	51.4 - 65.5	55	42.7*	Fine	0.8
19-Feb-21	02:50	58.5	59.0	51.4 - 65.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
26-Feb-21	02:42	58.0		51.4 - 65.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6
NI-4-	*O a mana atta al Nila ita a I a	1.1.45.1.			11 J 55 ID			

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)
4-Feb-21	23:48	64.2		55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:47	59.2	64.4	55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
18-Feb-21	23:42	59.2	04.4	55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
25-Feb-21	23:49	58.2		55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<>	Fine	1.5

#### NMS 9 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)
5-Feb-21	00:23	54.2		39.5 - 63.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
11-Feb-21	00:26	56.1	53.5	39.5 - 63.1	55	52.6*	Fine	0.8
19-Feb-21	00:22	56.2	55.5	39.5 - 63.1	55	52.9*	Fine	1.1
26-Feb-21	00:22	55.8		39.5 - 63.1	55	51.9*	Fine	1.6

Note:

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

#### 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)
1	5-Feb-21	02:16	55.2		46.1 - 62.8	55	50.9*	Fine	0.6
ſ	11-Feb-21	02:22	55.1	52.0	46.1 - 62.8	55	50.6*	Fine	0.6
	19-Feb-21	02:20	54.8	53.2	46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
	26-Feb-21	02:23	55.7		46.1 - 62.8	55	52.1*	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)
5-Feb-21	00:13	58.8		45.4 - 72.5	55	53.5*	Fine	0.6
11-Feb-21	00:18	58.9	57.3	45.4 - 72.5	55	53.8*	Fine	0.8
19-Feb-21	00:14	57.2	57.5	45.4 - 72.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
26-Feb-21	00:13	58.0		45.4 - 72.5	55	49.7*	Fine	1.6

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

#### NMS 14 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)
5-Feb-21	01:50	56.2		46.1 - 62.8	55	52.0*	Fine	0.6
11-Feb-21	01:56	55.4	54.1	46.1 - 62.8	55	49.5*	Fine	0.8
19-Feb-21	01:54	55.5	54.1	46.1 - 62.8	55	49.9*	Fine	1.1
26-Feb-21	01:49	57.3		46.1 - 62.8	55	54.5*	Fine	1.6
Note: *Corrected Noice Level in Leg (15min) dB(A) was/ware lower than Limit level: 55 dB(A)								

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)
5-Feb-21	01:32	57.3		48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	01:30	58.7	58.8	48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	01:23	57.4	50.0	48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	01:20	57.2		48.4 - 69.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.0</td></baseline<>	Fine	1.0

#### 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)
5-Feb-21	01:23	59.3		51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	01:22	58.7	60.1	51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	01:20	58.1	00.1	51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
26-Feb-21	01:24	59.5		51.4 - 69.5	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

#### 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)
5-Feb-21	01:06	59.6		56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	01:12	60.2	63.2	56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	01:13	59.3	00.2	56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	01:05	59.0		56.0 - 72.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

#### 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)
5-Feb-21	00:32	59.3		53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
13-Nov-20	00:36	59.1	61.7	53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
19-Feb-21	00:30	59.9	01.7	53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	00:22	59.2		53.8 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

#### 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)
5-Feb-21	01:03	57.1		48.6 - 71.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	01:09	57.6	57.7	48.6 - 71.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
19-Feb-21	01:04	57.6	57.7	48.6 - 71.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	01:00	57.5		48.6 - 71.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

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-Feb-21	02:16	59.5		47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	02:18	60.3	59.9	47.8 - 69.8	55	49.7*	Fine	0.8
19-Feb-21	02:14	59.6	59.9	47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	02:16	59.4		47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<>	Fine	1.5

Note:

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

#### 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)
4-Feb-21	23:35	57.7		50.2 - 66.7	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
10-Feb-21	23:30	59.6	58.0	50.2 - 66.7	55	54.5*	Fine	0.8
18-Feb-21	23:33	58.9	50.0	50.2 - 66.7	55	51.6*	Fine	1.3
25-Feb-21	23:30	58.9		50.2 - 66.7	55	51.6*	Fine	1.3

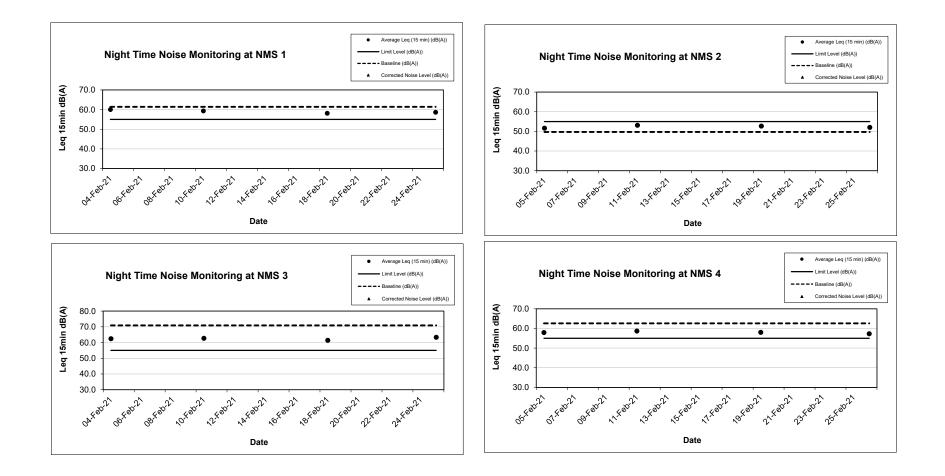
Note: \*Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

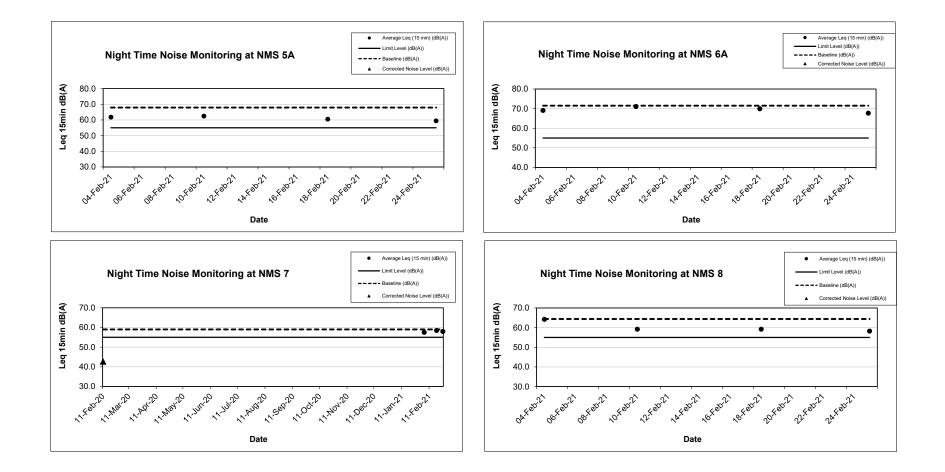
#### NMS 25A Sheung Wo Che

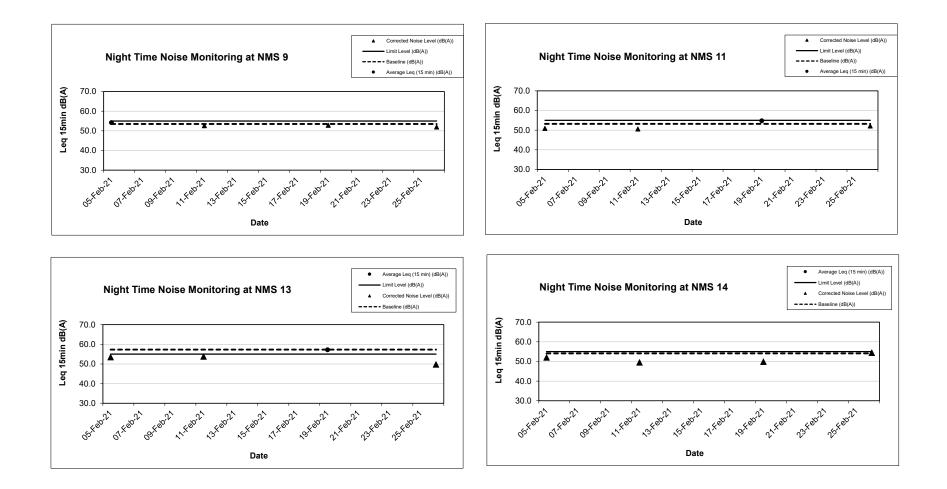
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Feb-21	02:40	58.3		50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	02:49	58.7	59.7	50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	02:52	57.4	00.1	50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	02:43	57.6		50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<>	Fine	0.4

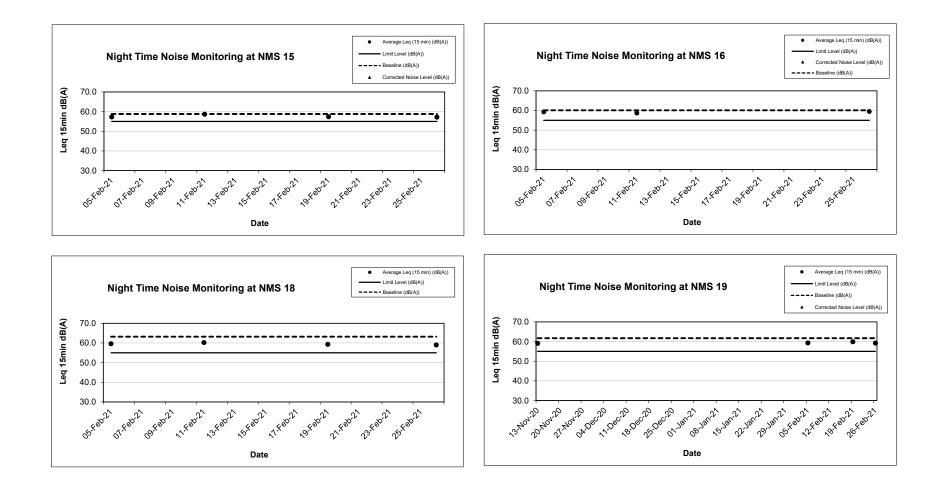
#### NMS 26 Wo Che Estate

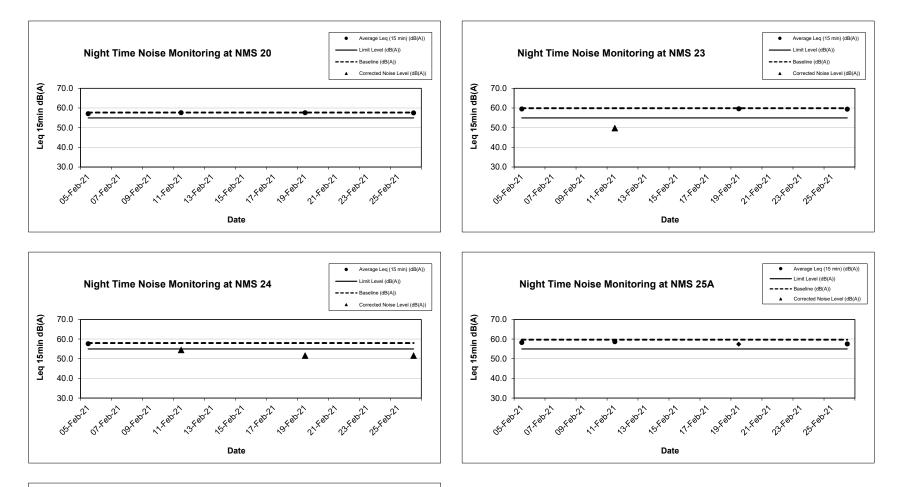
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Feb-21	00:47	60.2		45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
11-Feb-21	00:53	61.0	61.2	45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<>	Fine	0.8
19-Feb-21	00:51	59.3	01.2	45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
26-Feb-21	00:47	57.1		45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<>	Fine	1.6

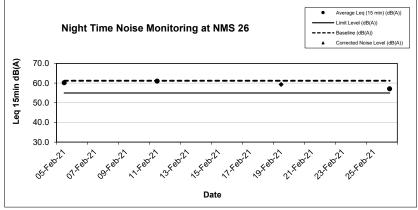












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Appendix H

**Events and Action Plan** 

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

#### Event and Action Plan for Construction Dust Monitoring

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

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

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

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### Event and Action Plan for Landscape and Visual Impact

Event		Action							
Event		ET	SO	Contractor					
Non-conformity one occasion	on	<ol> <li>Identify Source;</li> <li>Inform the Contractor and the SO;</li> </ol>	<ol> <li>Notify Contractor; and</li> <li>Ensure remedial measures are</li> </ol>	<ol> <li>Amend working methods;</li> <li>Rectify damage and undertake</li> </ol>					
		<ol> <li>Discuss remedial actions with the SO and the Contractor; and</li> <li>Monitor remedial actions until rectification has</li> </ol>	properly implemented.	any necessary replacement.					
		been completed							
Repeated N 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>					
		<ul> <li>3. Increase monitoring frequency;</li> </ul>	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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Monthly Ending		Actual Quant	ities of Inert C&I	D Materials Gene	rated Monthly	Actual Quantities of Non-inert C&D Wastes Generated Monthly					
	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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Monthly Ending	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	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	2020									
		Actual Quantities of Inert C&D Materials Generated 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)
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	3.498	0.000	0.000	0.000	3.498	0.000	24.751	0.036	0.006	0.000	0.042
Total	24.101	0.000	0.109	0.000	23.992	0.498	24.764	0.403	0.054	0.000	0.438

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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Waste Flow	Table for Year	2021									
		Actual Quantities of Inert C&D Materials Generated Monthly						ual Quantities of Non-	-inert C&D Wast	es Generated Mon	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)
2021 Jan	3.196	0.000	0.000	0.000	3.196	0.000	0.001	0.048	0.855	0.000	0.053
2021 Feb	3.877	0.000	0.000	0.000	3.877	0.032	0.000	0.010	1.642	0.000	0.013
2021 Mar											
2021 Apr											
2021 May											
2021 Jun											
Sub-Total	7.073	0.000	0.000	0.000	7.073	0.032	0.001	0.058	2.497	0.000	0.066
2021 Jul											
2021 Aug											
2021 Sep											
2021 Oct											
2021 Nov											
2021 Dec											
Total	7.073	0.000	0.000	0.000	7.073	0.032	0.001	0.058	2.497	0.000	0.066

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 m3.

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		
		Noise Measures				
		<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	Within the boundaries of all construction	<ul> <li>Use of well-maintained and regularly-serviced plant during the works.</li> </ul>	Contractor	Implemented		
		Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented		
		boundaries of	boundaries of	<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>	Contractor	Not Applicable		
		<ul> <li>These temporary noise barriers should be located immediately adjacent to working area.</li> </ul>	Contractor	Not Applicable		

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		<ul> <li>The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient.</li> </ul>		Not Applicable
		<ul> <li>For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Barrier material of surface density of at least 14 kg/m<sup>2</sup> is recommended in order to achieve the necessary screening effect.</li> </ul>	Contractor	Not Applicable
3.10.10		<ul> <li>Full noise enclosures should cover the PME or fixed plants such as air compressor.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;</li> </ul>	Contractor	Not Applicable
3.10.3		<ul> <li>Where possible fixed plants should be sited away from NSRs; and</li> </ul>	Contractor	Not Applicable
		<ul> <li>Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.</li> </ul>	Contractor	Not Applicable
		Air Quality Measures		
		<ul> <li>The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites.</li> </ul>	Contractor	Implemented
	Within the boundaries of all	<ul> <li>The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives.</li> </ul>	Contractor	Partially Implemented
	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
	5105.	<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	Partially Implemented

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		complete coverage of active construction area eight times a day.		
		• Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather.	Contractor	Implemented
		<ul> <li>Stockpiles of sand, aggregate or any other dusty materials greater than 20m<sup>3</sup> shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile.</li> </ul>	Contractor	Implemented
		• Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion.	Contractor	Not Observed
		• 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.	Contractor	Implemented
		• 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.		Implemented
		<ul> <li>Construction working areas should be restricted to a minimum practicable size.</li> </ul>	Contractor	Implemented
		• 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.	Contractor	Implemented
4.12.1		• The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month.		Not Applicable
		• 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.	Contractor	Not Applicable
		• 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.	Contractor	Not Applicable
		• If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.	Contractor	Implemented
		• 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.		Implemented

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4.12.1, 4.13.1 and		<ul> <li>Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.</li> </ul>	Contractor	Implemented
Table 8.2		<ul> <li>Path for complaints and handling procedures should be set up and implement.</li> </ul>	Contractor	Implemented
		<ul> <li>Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.</li> </ul>	Contractor	Implemented
NA		<ul> <li>Plant and equipment should be well maintained to prevent dark smoke emission.</li> </ul>	Contractor	Implemented
		<ul> <li>Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.</li> </ul>	Contractor	Implemented
		Water Quality Measures		
		<ul> <li>Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94:</li> </ul>	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	Implemented
	sites.	<ul> <li>Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.</li> </ul>	Contractor	Partially Implemented
		<ul> <li>The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit 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.</li> </ul>	Contractor	Implemented
		• The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained	Contractor	Partially Implemented

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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.		
		• 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.		Implemented
		<ul> <li>Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.</li> </ul>	Contractor	Implemented
		• 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. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.	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
		• 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.	Contractor	Not Applicable
		• 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.	Contractor	Not Applicable
		• 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.	Contractor	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>	Contractor	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 m	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	During construction 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.	Contractor	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
		<ul> <li>Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.</li> </ul>	Contractor	Not Applicable
		<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>	Contractor	Not Applicable
		Operation Phase		
		• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015.	Contractor	Not Applicable
	During 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
		<ul> <li>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.</li> </ul>	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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	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
	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
	as transportatio	• 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
	designed areas for off-	<ul> <li>The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and</li> </ul>	Contractor	Implemented
	of	<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>	Contractor	Implemented
		<ul> <li>In order to minimize the impact resulting from collection and transportation of C&amp;D material for off- site disposal, the excavated fill materials should be reused on site as backfill material as far as possible.</li> </ul>	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>		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>		Implemented
		<ul> <li>Paving bricks arising from existing pavement should be recycled on site as much as possible.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible,</li> </ul>	Contractor	Not Applicable
		<ul> <li>Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible</li> </ul>	Contractor	Not Applicable
		<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>	ng 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
		• 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).	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
		• 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;		Implemented
		have adequate ventilation;	Contractor	Implemented
		• be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and	Contractor	Implemented
		<ul> <li>be arranged so that incompatible materials are adequately separated.</li> </ul>	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemica (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require Appropriate means include disposal:		
		<ul> <li>via a licensed waste collector; and</li> </ul>	Contractor	Implemented
		• 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		Implemented
		• to a reuser of the waste, under approval from EPD.	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>	Contractor	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		• 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.	Contractor	Partially 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		General Condition		
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	9	Mean Relative	Total
Date	Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Rainfall (mm)
			February 2021			
1	1019.4	25.1	20.3	17.2	76	-
2	1019.7	27.6	20.9	17.7	76	-
3	1022	21.7	18.4	16.7	69	-
4	1021.7	23.8	19.4	16.8	68	-
5	1019.8	23.9	19.9	17.3	72	-
6	1017.4	25.7	20.7	17.5	73	-
7	1017.6	24.1	20.3	18.1	74	-
8	1018.9	22.7	19.9	18.2	79	-
9	1017.5	19.7	18.5	17.3	76	Trace
10	1013.5	17.4	16.5	15.8	89	32.2
11	1014.7	19.9	17.4	15.3	78	-
12	1016.3	22.3	18.4	15.5	69	-
13	1017.3	23.8	19.2	16.5	76	-
14	1016.1	22.8	19.9	17.4	75	-
15	1015	26.2	21.1	17.8	70	-
16	1016.1	24.2	20.3	18.2	71	-
17	1019.6	24.6	20.4	18.3	70	-
18	1024.5	22.9	18.5	16.7	65	-
19	1023.4	22.9	18.5	15.8	66	-
20	1019.9	23.9	19.6	16.7	73	-
21	1017.5	24.9	20.4	17.3	74	-
22	1015.8	26	21.4	18.4	78	-
23	1015	26.4	21.7	18.8	74	-
24	1014.3	22.9	20.3	18.9	79	Trace
25	1011.2	22.7	20.2	18.8	85	1.8
26	1009.8	25.1	22.3	20.4	86	14.7
27	1014	20.8	18.8	18.1	89	13.4
28	1015.7	22.8	19.9	18.1	83	Trace

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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						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	04/05/2020
COM-2020- 0091	28/03/2020	Project hotline	CCZJV	Noise	28/03/2020	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 on- site 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 project-related construction noise.	04/03/2020
COM-2020- 0093	06/04/2020	Project hotline	CCZJV	Noise	06/04/2020	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	
						23rd 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 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 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- 0152	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	26/11/2020	EPD	CCZJV	Water	24/11/2020	According to EPD Mr. Bryan Kwok, EPD carried out a site inspection on 24 November 2020, revealing that muddy effluent was discharged from an outfall at Fo Tan near Jockey Club Ti-I College while construction work of the abovementioned project site at Zone 5 opposite to Wo Che Estate was in progress. EPD team inspected the condition of waste water treatment facilities on site (slope F133) and observed that the water in the first and second sedimentation tanks was muddy; muddy water was observed at the outlet level of the Wetsep (waste water treatment plant) though there was no discharge and piling works at the time. EPD team reminded the Main Contractor that effluent does not complied with the discharge license standard should NOT be allowed to discharge. The waste	23/12/2020

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						water treatment system should be improved and maintained to ensure the effluent discharge standard. EPD team requested in both works area of Slope F133 and Slope F163 the Main Contractor to locate the network of drainage, connecting manhole(s) and downstream manhole, check if any presence of muddy materials and clear-out. The main contractor was reminded to strictly follow and fully comply with the water discharge license (WT00032446-2018) conditions and the mitigation measures stipulated in the EM&A Manual for effluent discharge on the wastewater treatment system.	
COM- 2020154	27/11/2020	1823	CCZJV	Noise	30/11/2020	The complaint was received via ICC1823 on 27 <sup>th</sup> November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27 <sup>th</sup> November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26^27 November 2020. The major construction works were works related to removal of central median (at night-time) under the approved road closure with CNP no.GW-RN0799- 20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 <sup>th</sup> November 2020 through logging in the webpage of EPD before the commencement of the construction work in relation to the CNP GW- RN0799-20 (conditions 3.d.11 and 4.d.8). The Main Contractor provided photo records showing that mitigation measures of the movable acoustic	14/12/2020

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						enclosure "SilentCUBE" with four sides and a top cover were implemented for night work on removal of existing central median: drill hole with percussive drill for temporary steel module spiral installation, drill hole at existing central median with concrete corer and asphalt compaction with portable roller. Main Contractor was reminded to strictly follow and fully comply with the CNP No.: GW-RN0799-20 conditions. 5.11 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- 2020155	26/11/2020	1823	CCZJV	Dust	30/11/2020	According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Lok King Street near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in November were mini-piling works and slope works of soil replacement. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring in November 2020 and on the 3rd December 2020 at selected air monitoring stations AMS6, 8, 11A & 13 and AMS5, 4A, 7A & 12 respectively. The two air quality monitoring stations closed to the works area at zone 5 (where the complainant concerned of dust nuisance) were AMS12 and	5/1/2021

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						AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12 in November 2020 and on the 3rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to enhance the mitigation measures in dust control such as increase the water spray frequency at the construction site to suppress dust emission. The Main Contractor proposed to properly maintain the coverings on exposed slopes and keep them in good condition for minimizing dust impact. The Main Contractor proposed to frequently spraying of haul road especially at area where active movement of vehicles and pave the haul road where necessary to reduce dust impact.	
COM- 2020157	7/12/2020	STDC	CCZJV	Dust	7/12/2020	According to the complainant, the dust nuisance concerned at day time was generated from the construction works area of the Tai Po Road Widening project at Zone 5. According to the Main Contractor, major day time construction works of mini-piling and soil replacement at slopes were carried out at Zone 5 works area in December 2020. There was also regular movement of vehicle for transportation within the works area. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring (Appendix C) on the 3rd, 9th & 15th December 2020 respectively which was	29/12/2020

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						close to the date of complaint, at selected air monitoring stations AMS5, AMS4A, AMS7A & AMS12. ET regular day-time air quality monitoring measurement results at air quality monitoring stations AMS12, closest to Zone 5. The ET regular air quality results measured at AM12 on 3rd, 9th & 15th December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact. The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur.	
COM- 2020161	18/12/2020	EPD	CCZJV	Noise	18/12/2020	The complaint was received via email notification by EPD on 18th December 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate during night-time on 7^8 & 8^9 December 2020. According to the Main Contractor, the major construction works was removal of central median works since 7^8 & 8^9 December 2020 conducted at restricted hours along Zone 4 central median of Tai Po Road Sha Tin section. Thus, the complaint is considered to be related to the project. 3.4 According to the Main Contractor, portable generator with hand-	5/1/2021

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						held breaker had been used for breaking of asphalt (on existing central median edge); lorry with crane, portable generator and concrete corer had been used for remove (lifting) the existing central median and coring of central median joint; dump truck with grab had been used for loading and unloading of rubble; portable roller had been used in asphalt compaction; lorry with crane, percussive and hand-held drill and portable generator had been used for installation of temporary steel module between 00:30 to 04:30 am on 7^8 December 2020. The Main Contractor complied with CNP No.: GW-RN0799-20 that allowed the usage of PMEs. The noise emanated from the concrete corer for drilling hole at existing central median and portable roller for asphalt compaction might cause a noise nuisance. To further alleviate the noise nuisance, the Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at removal of existing central median and asphalt compaction works to mitigate as shown in the site condition photo record. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations, especially measured at six noise monitoring stations mentioned in above section 3.15 where locate close to the works area (Sha Tin station to nearby Fung Wo Estate in Zone 4), the measured result at NMS16, NMS18 and NMS26 were lower than that of measured in	

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						the baseline. Besides, the measured result after correction of baseline at NMS13, NMS14 and NMS15 were lower than that of the limit level. The Main Contractor was reminded to re-arrange their proposed night-time construction activities especially in quiet construction works to minimize the noise nuisance to nearby residences. 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 night sleeping time.	
COM- 2020167	22/02/2021	1823	CCZJV	Dust	22/02/2021	A complainant who did not wish to disclose his identity called 1823 hotline on 22nd February 2021 regarding the dust nuisance at slip road to Fo Tan Road. A repetitive case with reference no. 3-6566315922 was referred to the Main Contractor of the captioned Project and ET on 23rd February 2021. According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in February 2021 was mini- piling works. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to minimize the dust impact.	5/3/2021

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						The Main Contractor proposed to reduce the exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.	
COM- 2020168	<mark>20</mark> /02/2021	1823	CCZJV	Noise	23/02/2021	The complaint was received via 1823 on 20 <sup>th</sup> February 2021 01:00am concerning about the night-time construction works near Sha Tin Police Station at 19^20 February 2021. According to the Main Contractor, there was night-time construction works near Sha Tin Police Station (Zone 3 & 4) on 19^20 February 2021. The major construction works were lane shifting works conducted on 19^20 February 2021 at night-time under approved road closure setup with in-force Construction Noise Permit (CNP) no.GW- RN0798-020. According to the Main Contractor, since 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 concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. According to the Main Contractor, no concurrent operation of Power Mechanical Equipment (PME) and idling were switched off during the loading and unloading of materials and rubble by manual handling of road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 25th	8/3/2021

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						February to 03:00 26th February 2021. 3.13 The five noise monitoring stations close to the complaint receiving area of Zone 3 & 4 are NMS13, NMS14, NMS15, NMS16 & NMS26. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at five noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured result at NMS15, NMS16 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13 and NMS14 were lower than that of the limit level in 55 dB(A). The Main Contractor was reminded to strictly follow and fully comply with the CNP (GW- RN0798-20) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during the restricted hour.	

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#### **Cumulative Statistics on Complaints**

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project- to-Date
Air	2	1	3
Noise	22	1	23
Water	2	0	2
Waste	0	0	0
Total	26	2	28

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

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

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Appendix M

Summary of Site Audit in the Reporting Month

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#### Summary of Site Audit in the Reporting Month

Parameters	Date	Observations and Recommendations	Follow-up		
		Observation:	1. (Zone 1) Water		
	4 Feb 2021	1. Please increase the frequency of water spray to reduce the air impact. (Zone 1, R1)	spraying has been provided.		
Air Quality	18 Feb 2021	Observation: 1. Please provide complete label of NRMM. (Zone 4, SB)	1. (Zone 4) NRMM label has been replaced.		
	25 Feb 2021	<b>Observation:</b> 1. Please provide clear and complete label of NRMM. (Zone 5)	1. (Zone 5) NRMM label has been replaced.		
Noise	No specific obs				
Water Quality	10 Feb 2021	<ul> <li>Reminders:</li> <li>1. The contractor is reminded to treat the waste water (e.g. by Wetsep) to ensure discharge quality standard before disposal (Zone 4 south bound).</li> <li>2. The contractor is reminded to clear the water ponding at the cycle track area (Zone 4).</li> </ul>			
	18 Feb 2021	<b>Observation:</b> 1. Sedimentation tank should be cleaned and desilted to maintain the efficiency. (Zone 4, SB)	1. (Zone 4) Sedimentation tank has been cleared		
	25 Feb 2021	<b>Observation:</b> 1. Mitigation measure shall be provided for site boundary to prevent soil leakage. (Zone 4)	1. (Zone 4) Mitigation measure provided to prevent soil leakage.		
	4 Feb 2021	<b>Observation:</b> 1. Please keep site area clean and tidy, housekeeping. (TKO, storage area)	1. (Work Area B) Debris has been removed.		
	10 Feb 2021	<b>Observation:</b> 1. Provide mitigation facility (e.g. drip tray) for the chemicals to avoid spillage (Zone 3).	1. (Zone 3) Chemical drums have been removed.		
	18 Feb 2021	<b>Observations:</b> 1. Waste storage tank should be cleared regularly to maintain good site hygiene. (Zone 3)	1. (Zone 3) Accumulated waste has been removed.		
Chemical and Waste		2. Please provide drip tray for chemical storage to prevent chemical leakage. (Zone 4, SB)	2. (Zone 4) Chemicals have been removed.		
Management	25 Feb 2021	<b>Observations:</b> 1. Please provide drip tray for chemical storage to prevent chemical leakage. (Zone 4, SB)	1. (Zone 4) Chemicals have been removed.		
		<ol> <li>Please remove the general waste or provide storage area/ tank for waste storage. (Zone 4, NF40)</li> </ol>	<ol> <li>(Zone 4) Accumulated waste has been removed.</li> <li>(Zone 4)</li> </ol>		
		3. Contained soil shall be treated as chemical waste. (Zone 4)	Contaminated soil has been removed and stored properly.		
Land Contamination		No deficiency was found during the reporting m	onth.		
Landscape and Visual Impact	No specific observation was identified in the reporting month.				
General Condition		No specific observation was identified in the reporting	ng month.		
<u>Permit /</u> <u>Licenses</u>		No specific observation was identified in the reportir	ng month.		