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Report No.: 0064/18/ED/0689A

## MONTHLY EM&A REPORT

August 2022

**Client** : Civil Engineering and Development  
Department, HKSAR

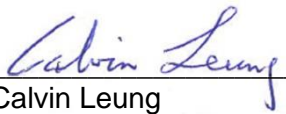
**Contract No.** : NDO 03/2018

**Contract Name** : Road Widening and Retrofitting Noise Barriers  
on Tai Po Road (Sha Tin Section)

**Report No.** : 0064/18/ED/0689A

**Prepared by** : Toby Wan

**Reviewed by** : Calvin Leung

**Certified by** :   
Calvin Leung  
Environmental Team Leader  
Fugro Technical Services Limited



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



Our ref: PL-202209035

Unit 2320, Level 23,  
Tower I, Metroplaza,  
223 Hing Fong Road, Kwai Fong,  
N.T., Hong Kong.

Attention: Mr. Joseph YAN

15 September 2022

Dear Joseph,

**NE/2017/05**

**Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)  
Monthly EM&A Report for August 2022**

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0689A, I 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,

A handwritten signature in black ink, appearing to be 'Li Wai Ming Kevin'.

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: jkcyang@cedd.gov.hk)

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**EXECUTIVE SUMMARY**

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 August 2022 and 31 August 2022. 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 style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Noise Barrier Foundation Works</li> <li>• Piling Construction Works</li> <li>• Slope Reinstatement and Drainage Works + Noise Barrier Erection Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Noise Barrier Erection Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Reinstatement of footpath and cycle track</li> <li>• Construction of Pump Room and Drainage Works</li> <li>• Construction of Retaining Wall and Erection of Parapet</li> <li>• Piling Construction Works</li> <li>• Staircase Construction Works for Lift no.2 + SR5 Foundation Works + Construction of [former staircase] Abutment Wall</li> <li>• Construction Works for N263 &amp; N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Central median + Road Diversion + Asphalt Works</li> <li>• Foundation Works for Lift no.1</li> <li>• Construction Works N262 Bridge Deck Widening</li> <li>• Demolition of Parapet</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Road surface Maintenance</li> <li>• Piling Construction Works</li> <li>• Road Drainage Works + Noise Barrier Erection Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Road surface Maintenance</li> <li>• NF66 Bridge Construction Works</li> <li>• Piling Construction Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope</li> <li>• Reinstatement Works for Slip</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</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, 11, 19 and 23 August 2022 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 case was received during the reporting period:
- A complaint was received by 1823 (ref: CASE#3-7328538008) on 5<sup>th</sup> August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works along Tai Po Road between 3 to 4 a.m.
  - A complaint was received by 1823 (ref: CASE#3-7333891394) on 5<sup>th</sup> August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Lucky Plaza.

#### **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 45<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 August 2022 and 31 August 2022.

**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**.

**Table 1.1 Contact Information of Key Personnel**

Party	Position	Name	Telephone
Project Proponent (CEDD)	Senior Engineer	Mr. Joseph Yan	3152 3551
Engineer’s Representative (AECOM)	Chief Resident Engineer	Mr. Albert Yu	2276 0618
IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture)	Independent Environmental Checker	Mr. Kevin Li	9779 2247
Main Contractor (CCZJV)	Site Agent	Mr. Anthony Poon	9811 5135
	Environmental Officer	Ms. Ymen Wong	5267 6087
ET (FTS)	Environmental Team Leader	Mr. Calvin Leung	3565 4441
	Environmental Team Member	Mr. Toby Wan	3656 4450



**1.3 Construction Programme and Activities**

1.3.1 This project was commenced on 29 November 2018 and the construction works is expected to be completed in year 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 style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Noise Barrier Foundation Works</li> <li>• Piling Construction Works</li> <li>• Slope Reinstatement and Drainage Works + Noise Barrier Erection Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Noise Barrier Erection Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (preservation / felling/ pruning/ transplantation)</li> <li>• Road surface Maintenance</li> <li>• Reinstatement of footpath and cycle track</li> <li>• Construction of Pump Room and Drainage Works</li> <li>• Construction of Retaining Wall and Erection of Parapet</li> <li>• Piling Construction Works</li> <li>• Staircase Construction Works for Lift no.2 + SR5 Foundation Works + Construction of [former staircase] Abutment Wall</li> <li>• Construction Works for N263 &amp; N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Central median + Road Diversion + Asphalt Works</li> <li>• Foundation Works for Lift no.1</li> <li>• Construction Works N262 Bridge Deck Widening</li> <li>• Demolition of Parapet</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Road surface Maintenance</li> <li>• Piling Construction Works</li> <li>• Road Drainage Works + Noise Barrier Erection Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</li> </ul>	<ul style="list-style-type: none"> <li>• Road surface Maintenance</li> <li>• NF66 Bridge Construction Works</li> <li>• Piling Construction Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope</li> <li>• Reinstatement Works for Slip</li> <li>• Relocation of Existing Fire Hydrants and relating Watermains</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**.

**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 – 5)	WT00032446-2018	09/11/2018	30/11/2023
Effluent Discharge License (Shui Chong Street)	WT00033829-2019	25/06/2019	30/06/2024
Construction Noise Permit for Road Closure, General Night Works (Zone 1 – 5)	GW-RN0476-22	29/06/2022	28/09/2022
Construction Noise Permit for the Operation of Water Pump (Zone 1 – 5)	GW-RN0241-22	01/04/2022	30/09/2022
Construction Noise Permit (Zone 3)	GW-RN0432-22	01/06/2022	31/08/2022



**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.

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

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS4A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	620407
2	AMS7A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	620408
3	AMS12	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	620480
4	AMS17	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	761105

\*Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 4A, 7A, 12 and 17 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**

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS4A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	620407
2	AMS7A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	620408
3	AMS12	Sibata	Model LD-5R	Sibata Portable TSP Monitors	620480
4	AMS17	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.



- 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  $\mu\text{m}$  diameter). A HOKLAS accredited laboratory (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  $\pm 3^\circ\text{C}$ ; 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  $\text{m}^3/\text{min}$  and 1.7  $\text{m}^3/\text{min}$ ) 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  $\pm 3^\circ\text{C}$ ; the relative humidity (RH) should be  $< 50\%$  and not vary by more than  $\pm 5\%$ . 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 1-hr TSP concentration, where the calculated 1-hr TSP concentration is given by the product of the direct reading and the K-factor based on the correlation results between the direct reading meter and high volume sampler.

### 2.3.3 1-hour TSP air quality monitoring

#### Operating / Analytical Procedures

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

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

## 2.4 Maintenance / Calibration

### 2.4.1 24-hour TSP air quality monitoring

The following maintenance / calibration are required for the HVS:

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



2.4.2 1-hour TSP air quality monitoring

- The portable TSP monitor should be calibrated at 1-year intervals.

**2.5 Monitoring Locations**

2.5.1 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 June 2022 was southwest. 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
AMS4A	Wai Wah Centre	Residential
AMS7A	Sheung Wo Che	Residential Village
AMS12	Fung Wo Estate	Residential
AMS17	Wo Che 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 4A, 7A, 12 and 17 in the reporting month.

2.6.3 During the reporting month, major dust sources included trial pits excavation, piling works, demolition of existing parapet, removal of existing staircase, road surface maintenance and ELS 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	Average ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
24-hr TSP in $\mu\text{g}/\text{m}^3$	AMS4A	41	37 – 43	200	260
	AMS7A	43	38 – 46	171	
	AMS12	42	40 – 44	168	
	AMS17	44	40 – 50	171	

**Table 2.5 Summary of 1-hr TSP Monitoring Results**

Parameter	Monitoring Station	Average ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
1-hr TSP in $\mu\text{g}/\text{m}^3$	AMS4A	48	37 – 57	348	500
	AMS7A	46	39 – 53	344	
	AMS12	46	46 – 49	296	
	AMS17	48	40 – 52	338	

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



**3. NOISE**

**3.1 Monitoring Requirement**

3.1.1 In accordance with the updated EM&A Manuals,  $L_{eq}$  (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.

**Table 3.1 Noise Monitoring Equipment**

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	0873599
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488300
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488304
4	Casella	CEL-63X Series	Integrating Sound Level Meter	4181568
5	Casella	CEL-120 Series	Calibrator	3321858
6	Casella	CEL-120 Series	Calibrator	4358250
7	Casella	CEL-120 Series	Calibrator	4358251
8	Casella	CEL-120 Series	Calibrator	5230758

**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
$L_{Aeq}$ (30min) $L_{10}$ and $L_{90}$ will be recorded for reference	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week

### 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 2b**.



**Table 3.3 Location of Noise Monitoring Station**

Monitoring Station	Location	Land Uses	Type of Measurement
NMS1	Scenery Court	Residential	Façade
NMS2	Villa Le Parc	Residential	Façade
NMS3	Hilton Plaza	Residential	Façade
NMS4	Tin Liu	Residential Village	Façade
NMS5A	Wai Wah Centre (Site Boundary)	Residential	Façade
NMS6A	Wai Wah Centre (Site Boundary)	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

### 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 According to the onsite observation, no raining was observed and no wind speed over 5 m/s was measured during the noise monitoring. 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**.



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

Monitoring Station	Leq (30min) Range, dB(A)	Leq (30min) Limit Level, dB(A)
	Construction Noise Level	
NMS1	58.4 – 66.7	75
NMS2	52.4 – 56.9	75
NMS3	61.2 – 69.5	75
NMS4	64.4 – 67.0	75
NMS5A	69.1 – 71.6	75
NMS6A	69.9 – 73.1	75
NMS7	64.8 – 67.0	75
NMS8	64.3 – 66.7	75
NMS9	62.1 – 64.2	75
NMS10A	63.6 – 65.3	70 <sup>[2]</sup>
NMS11	56.3 – 62.3	75
NMS12	58.2 – 63.5	70 <sup>[2]</sup>
NMS13	59.9 – 63.2	75
NMS14	57.6 – 59.8	75
NMS15	55.8 – 62.2	75
NMS16	58.7 – 63.0	75
NMS17	62.3 – 64.0	70 <sup>[2]</sup>
NMS18	59.5 – 66.8	75
NMS19	63.8 – 65.2	75
NMS20	60.2 – 62.9	75
NMS23	62.2 – 66.6	75
NMS24	62.0 – 64.0	75
NMS25A	62.4 – 65.9	75
NMS26	68.9 – 70.5	75
NMS27	63.4 – 68.4	70 <sup>[2]</sup>

Note: 1.  $L_{eq(30min)}$  was measured at day-time (0700-1900) on normal weekdays.  
2. 70 dB (A) for schools and 65 dB (A) for schools during examination period. The school calendar are provided in **Appendix E**.

3.7.6 Regular night time noise monitoring were conducted on 4, 11, 19 and 24 August 2022 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G**.

**Table 3.5 Summary of Night Time Noise Impact Monitoring Results**

Monitoring Station	$L_{eq}$ (15min) Range, dB(A)	$L_{eq}$ (15min) Limit Level, dB(A)	$L_{eq}$ (15min) Baseline, dB(A)
	Construction Noise Level		
NMS1	56.8 – 60.6	55	61.4
NMS2	51.2 – 54.9	55	49.7
NMS3	64.3 – 65.5	55	70.9
NMS4	54.2 – 60.1	55	62.6
NMS5A	66.6 – 67.3	55	67.9
NMS6A	66.5 – 70.9	55	71.5
NMS7	55.0 – 58.1	55	59.0
NMS8	60.6 – 63.7	55	64.4
NMS9	52.6 – 54.6 <sup>[2]</sup>	55	53.5
NMS11	51.6 – 54.1 <sup>[2]</sup>	55	53.2
NMS13	41.0 – 56.9 <sup>[2]</sup>	55	57.3
NMS14	51.5 – 53.9 <sup>[2]</sup>	55	54.1
NMS15	55.0 – 57.9	55	58.8
NMS16	54.2 – 56.8	55	60.1
NMS18	52.5 – 57.7	55	63.2
NMS19	55.7 – 60.9	55	61.7
NMS20	53.8 – 57.6	55	57.7
NMS23	56.7 – 59.4	55	59.9
NMS24	41.7 – 57.8 <sup>[2]</sup>	55	58.0
NMS25A	53.5 – 58.0	55	59.7
NMS26	58.0 – 60.0	55	61.2

Note: 1.  $L_{eq}$  (15min) was measured at night-time (2300-0700).  
2. If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

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

3.7.7 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. For night time noise monitoring, no exceedance case due to construction activity 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 is given in **Appendix M**.

4.2.2 No non-compliance of the landscape and visual impact was recorded in the reporting month.



## 5. WASTE MANAGEMENT

### 5.1 Audit Requirements

5.1.1 The effective management of waste arising during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor.

5.1.2 The audit should look at all aspects of on-site waste management practices including the waste generation, storage, recycling, transport and disposal. The aims of waste audit are:

- to ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner;
- verify the implementation status and evaluate the effectiveness of the mitigation measures; and
- to encourage the reuse and recycling of material.

### 5.2 Results and Observations

5.2.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.

5.2.2 The amount of wastes generated by the site activities in the reporting month is shown in **Appendix I**.



## 6. SITE INSPECTION

### 6.1 Site Inspection

- 6.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix J**.
- 6.1.2 In the reporting month, 4 site inspections were carried out on 4, 11, 15 and 26 August 2022. The site inspection held on 15 August 2022 were joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.
- 6.1.3 The follow-up actions requested by ET and IEC during the site inspections were completed as reported by the Contractor. All the rectifications during the reporting period were fulfilled with the requirement of Proposal of Site Inspection, Deficiency and Remedial Action. No outstanding issues were reported during the reporting month. Details of observations recorded during the site inspections are summarized in **Appendix M**.



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

### **7.1 Environmental Exceedance**

- 7.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 7.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. Regular night time noise monitoring was carried out on 4, 11, 19 and 23 August 2022 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 case was received during the reporting period:

- A complaint was received by 1823 (ref: CASE#3-7328538008) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works along Tai Po Road between 3 to 4 a.m.

The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone I, II & III) and within the site boundary listed in the CNP.

ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.

ET carried out regular night-time noise monitoring on 4th ^ 5th August 2022, no exceedance case was found.

- A complaint was received by 1823 (ref: CASE#3-7333891394) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Lucky Plaza.

The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP.

ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.

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ET carried out regular night-time noise monitoring on 4th ^ 5th August 2022, no exceedance case was found.

7.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L**.

## 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

- Dusty materials outside the construction site should be cleared. (Zone 3, SB)
- The stockpiles should be covered or removed. (Zone 3, KW7)
- Dusty material outside the construction site should be cleared. (Zone 5, Cycle track)
- Stockpile should be removed or covered. (Zone 5, Portion E)

#### Construction Noise Impact

- No specific observation was identified in the reporting month.

#### Water Quality Impact

- Discharge of untreated muddy water should be stopped. The contractor is reminded the muddy water should be treated in a sedimentation tank before discharge. (Zone 3, NHA)
- The contractor is reminded the U-channel should be cleared. (Zone 1, NB)
- The contractor is reminded the stagnant water should be removed. Also, muddy water should be pumped into the sedimentation tank.
- Sandbags should be replaced or provided along the water barrier. (Zone 3, S5E2)
- Sandbags should be replaced around the gullies to prevent soil from being washed by rain into it. (Zone 4, S6E1)
- Tarpaulin sheets and sandbags should be provided along the water barrier to prevent muddy water flow into the public areas. (Zone 5, Slope F166)

#### Chemical and Waste Management

- Temporary waste containers should be provided for good housekeeping. (Zone 2, SB)
- Waste generated at the site should be cleared regularly. (Zone 3, SR4)
- Stagnant water in the drip tray should be cleared to prevent chemical leakage. (Zone 1, NB)
- Waste generated at the site should be removed regularly for good housekeeping. (Zone 4, NF40)

#### Land Contamination

- The rock breaker should be placed on a tarpaulin sheet to prevent soil contamination. (Zone 3, SB & Zone 1, NB)
- Tarpaulin sheets should be padded under the rock breaker to prevent soil contamination. (Zone 4, NF40)

#### 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

- NRMMs label should be provided to replace the substandard label. (Zone 3, N4)





## **9. FUTURE KEY ISSUES**

### **9.1 Construction Programme for the Next Month**

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

- (1) Trial pits excavation in Zone 1 and Zone 2
- (2) Tree Works (including preservation / felling/ pruning/ transplantation) in Zone 1, Zone 2 and Zone 3
- (3) Road surface Maintenance in Zone 1, Zone 2, Zone 3, Zone 4 and Zone 5
- (4) Noise Barrier Foundation Works in Zone 1, Zone 4 and Zone 5
- (5) Piling Construction Works in Zone 1, Zone 3, Zone 4 and Zone 5
- (6) Slope Reinstatement and Drainage Works in Zone 1
- (7) Noise Barrier Erection Works in Zone 1, Zone 2, Zone 4 and Zone 5
- (8) Relocation of Existing Fire Hydrants and relating Watermains in Zone 1, Zone 2, Zone 3, Zone 4 and Zone 5
- (9) Reinstatement of footpath and cycle track in Zone 3
- (10) Construction of Pump Room and Drainage Works in Zone 3
- (11) Construction of Retaining Wall and Erection of Parapet in Zone 3
- (12) Staircase Construction Works for Lift no.2 + SR5 Foundation Works + Construction of [former staircase] Abutment Wall in Zone 3
- (13) Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Central median + Road Diversion + Asphalt Works in Zone 3
- (14) Foundation Works for Lift no.1 in Zone 3
- (15) Construction Works N262 Bridge Deck Widening in Zone 3
- (16) Demolition of Parapet in Zone 3
- (17) Removal of Sign Gantries in Zone 3
- (18) Cut and Removal of Existing Beam of STRCR in Zone 3
- (19) Road Drainage Works in Zone 4
- (20) NF66 Bridge Construction Works in Zone 5
- (21) Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope in Zone 5
- (22) Reinstatement Works for Slip Road 7 in Zone 5
- (23) ELS and Drainage Works 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, 11, 19 and 23 August 2022, 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, 11, 15 and 26 August 2022. Recommendations on mitigation measures on air quality, water quality, chemical and waste management and land contamination were given to the Contractor for remediating the deficiencies identified during the site inspections.

10.1.5 Two complaint case was received during the reporting period:

- A complaint was received by 1823 (ref: CASE#3-7328538008) on 5<sup>th</sup> August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works along Tai Po Road between 3 to 4 a.m.
- A complaint was received by 1823 (ref: CASE#3-7333891394) on 5<sup>th</sup> August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Lucky Plaza.

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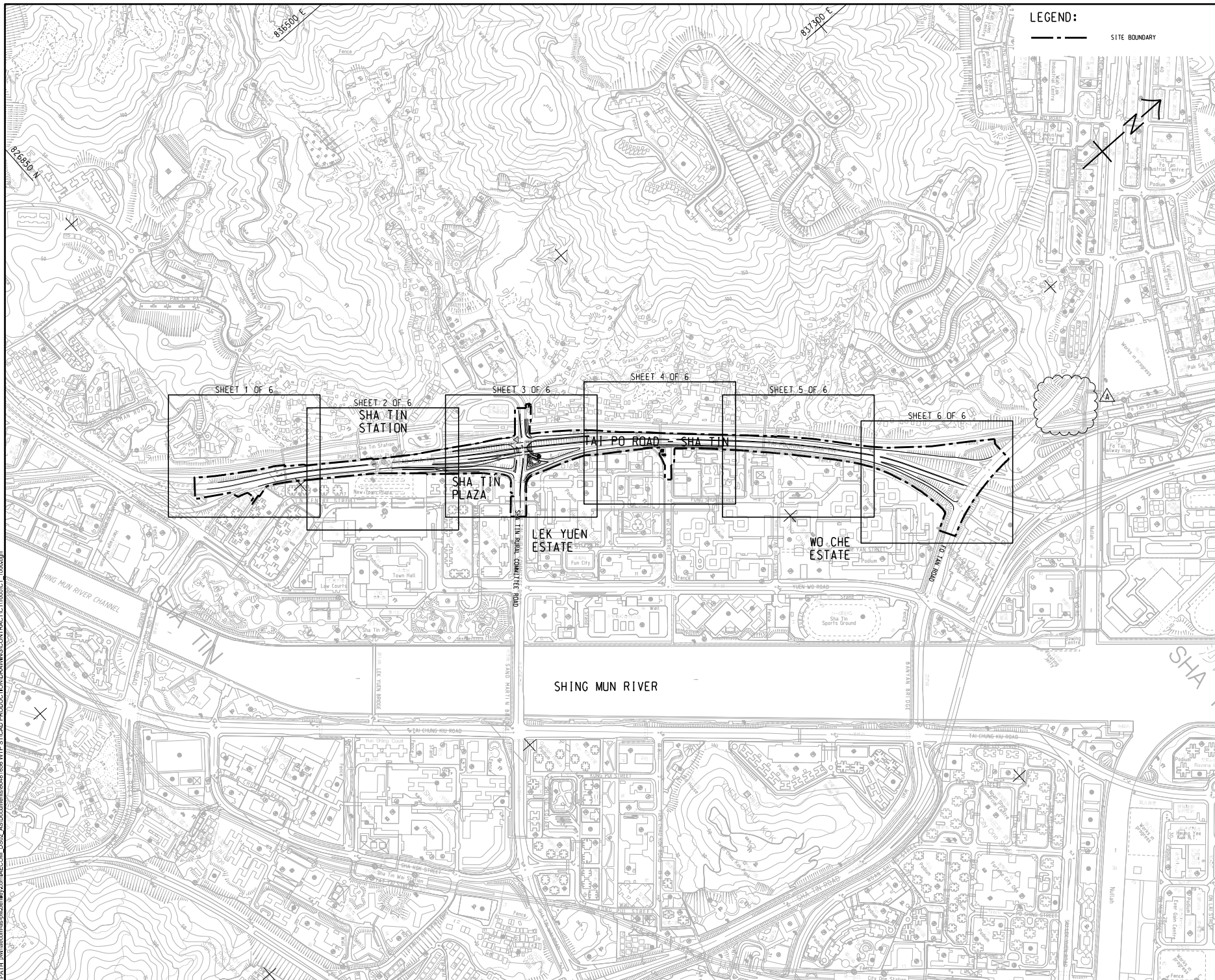


## Figure 1

### Project General Layout

Project Management **Habitat** Design: FMSD, Cheuk-wai BCC, Approved CDDN

2/27/2018  
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LEGEND:  
 --- SITE BOUNDARY



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

CLIENT  
 CEDD 土木工程拓展署  
 Civil Engineering and  
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NO.	DATE	DESCRIPTION	CHK.
A	FEB. 18	TENDER ADDENDUM NO.2	BBC
B	JAN. 18	TENDER DRAWING	BCC
IR	DATE	DESCRIPTION	CHK.
	日期	內容變更	核核

STATUS  
 現狀

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DIMENSION UNIT  
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KEY PLAN  
 索引圖: FIGURE 1.1a

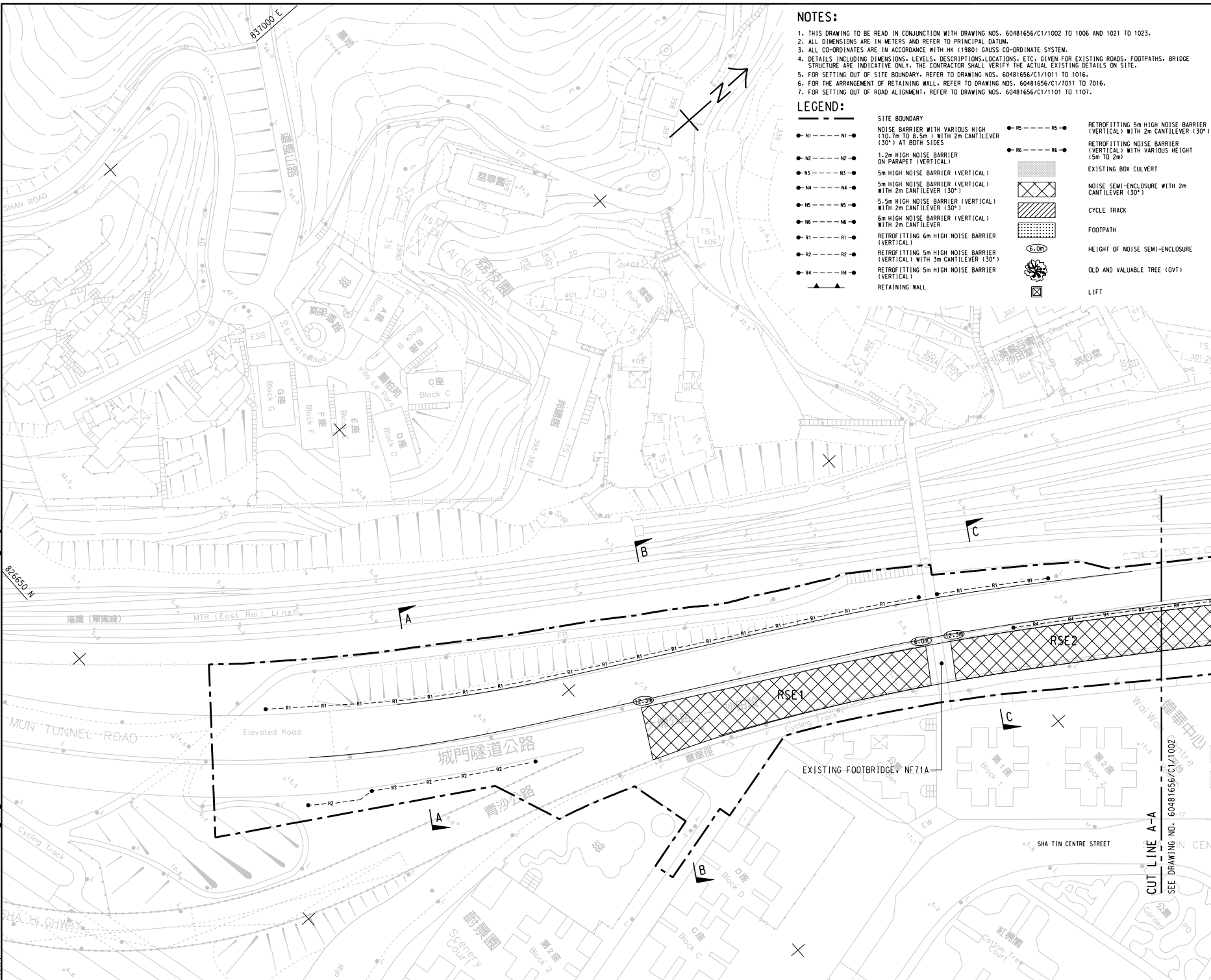
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 合約編號: NE/2017/05

SHEET TITLE  
 圖紙名稱: KEY PLAN  
 索引圖: FIGURE 1.1a

SHEET NUMBER  
 圖紙編號: 60481656/C1/1000A

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 ISO A1 841mm x 647mm



**NOTES:**

- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60481656/C1/1002 TO 1006 AND 1021 TO 1023.
- ALL DIMENSIONS ARE IN METERS AND REFER TO PRINCIPAL DATUM.
- ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK (1980) GAUSS CO-ORDINATE SYSTEM.
- DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS, LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURE ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.
- FOR SETTING OUT OF SITE BOUNDARY, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
- FOR THE ARRANGEMENT OF RETAINING WALL, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
- FOR SETTING OUT OF ROAD ALIGNMENT, REFER TO DRAWING NOS. 60481656/C1/1101 TO 1107.

**LEGEND:**

● N1 --- N1 ●	NOISE BARRIER WITH VARIOUS HIGH (10.7m TO 8.5m) WITH 2m CANTILEVER (30°) AT BOTH SIDES	● R5 --- R5 ●	RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
● N2 --- N2 ●	1.2m HIGH NOISE BARRIER ON PARAMET (VERTICAL)	● R6 --- R6 ●	RETROFITTING NOISE BARRIER (VERTICAL) WITH VARIOUS HEIGHT (5m TO 2m)
● N3 --- N3 ●	5m HIGH NOISE BARRIER (VERTICAL)	[Cross-hatch pattern]	EXISTING BOX CULVERT
● N4 --- N4 ●	5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)	[Diagonal hatch pattern]	NOISE SEMI-ENCLOSURE WITH 2m CANTILEVER (30°)
● N5 --- N5 ●	5.5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)	[Dotted pattern]	CYCLE TRACK
● N6 --- N6 ●	6m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER	[Dotted pattern]	FOOTPATH
● R1 --- R1 ●	RETROFITTING 6m HIGH NOISE BARRIER (VERTICAL)	(6.0m)	HEIGHT OF NOISE SEMI-ENCLOSURE
● R2 --- R2 ●	RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 3m CANTILEVER (30°)	[Tree symbol]	OLD AND VALUABLE TREE (OVT)
● R4 --- R4 ●	RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL)	[Wall symbol]	LIFT
▲ --- ▲	RETAINING WALL		



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

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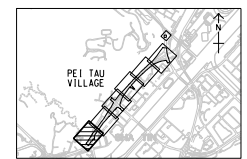
**SUB-CONSULTANTS**

**ISSUE/REVISION**

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**KEY PLAN**  
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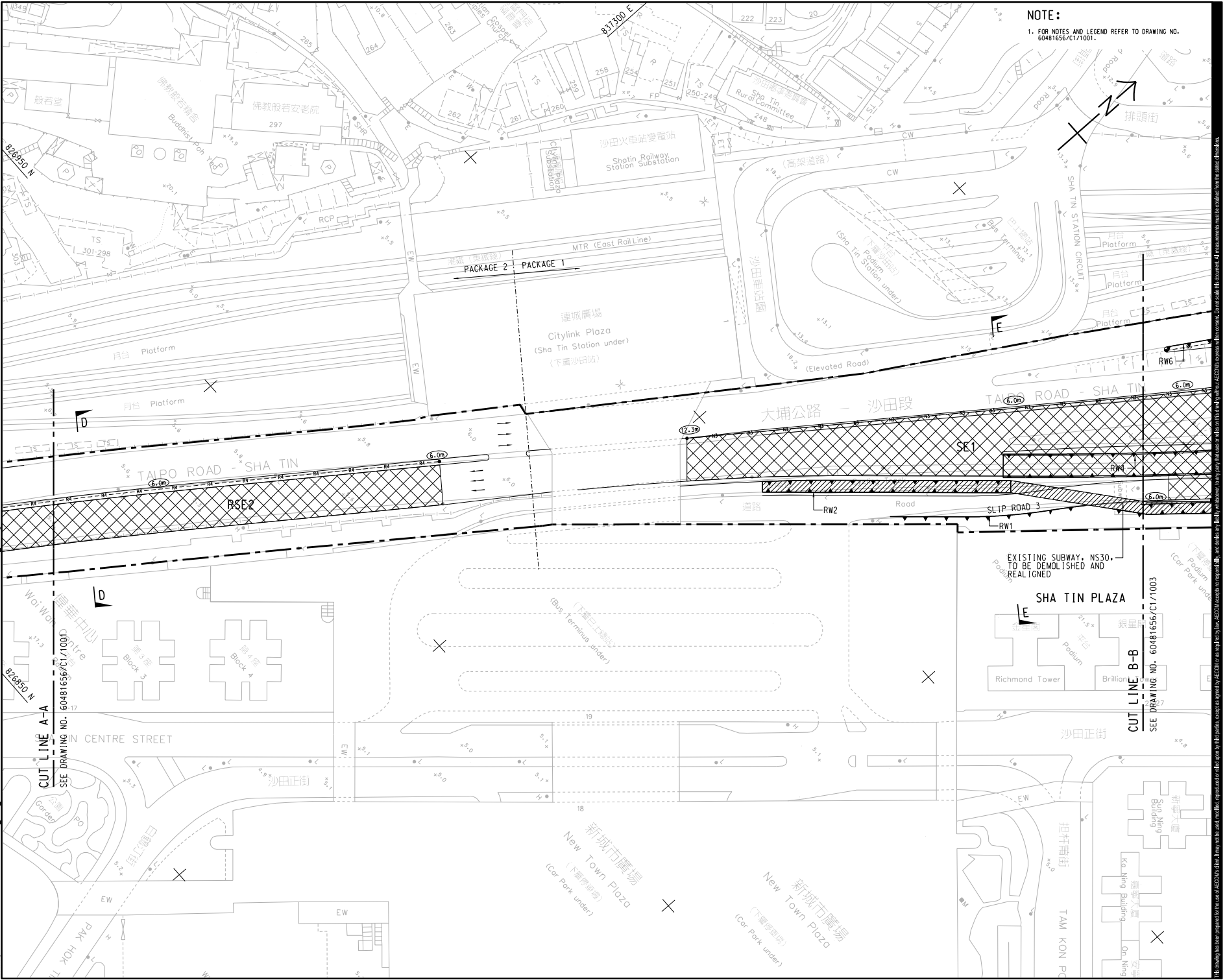


**CONTRACT NO.**  
 NE/2017/05

**SHEET TITLE**  
 GENERAL LAYOUT PLAN  
 FIGURE 1.1 b

**SHEET NUMBER**  
 60481656/C1/1001

Project Management: **Helik**, Designer: **FMS**, Checker: **BCC**, Approved: **CNN**, BSO A1 504mm x 841mm



NOTE:  
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.

**AECOM**

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

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Civil Engineering and Development Department

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NO.	DESCRIPTION	DATE

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-	JAN. 18	TENDER DRAWING	BCC

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KEY PLAN: A1 1:40000

CONTRACT NO. NE/2017/05

SHEET TITLE: GENERAL LAYOUT PLAN  
FIGURE 1.1b

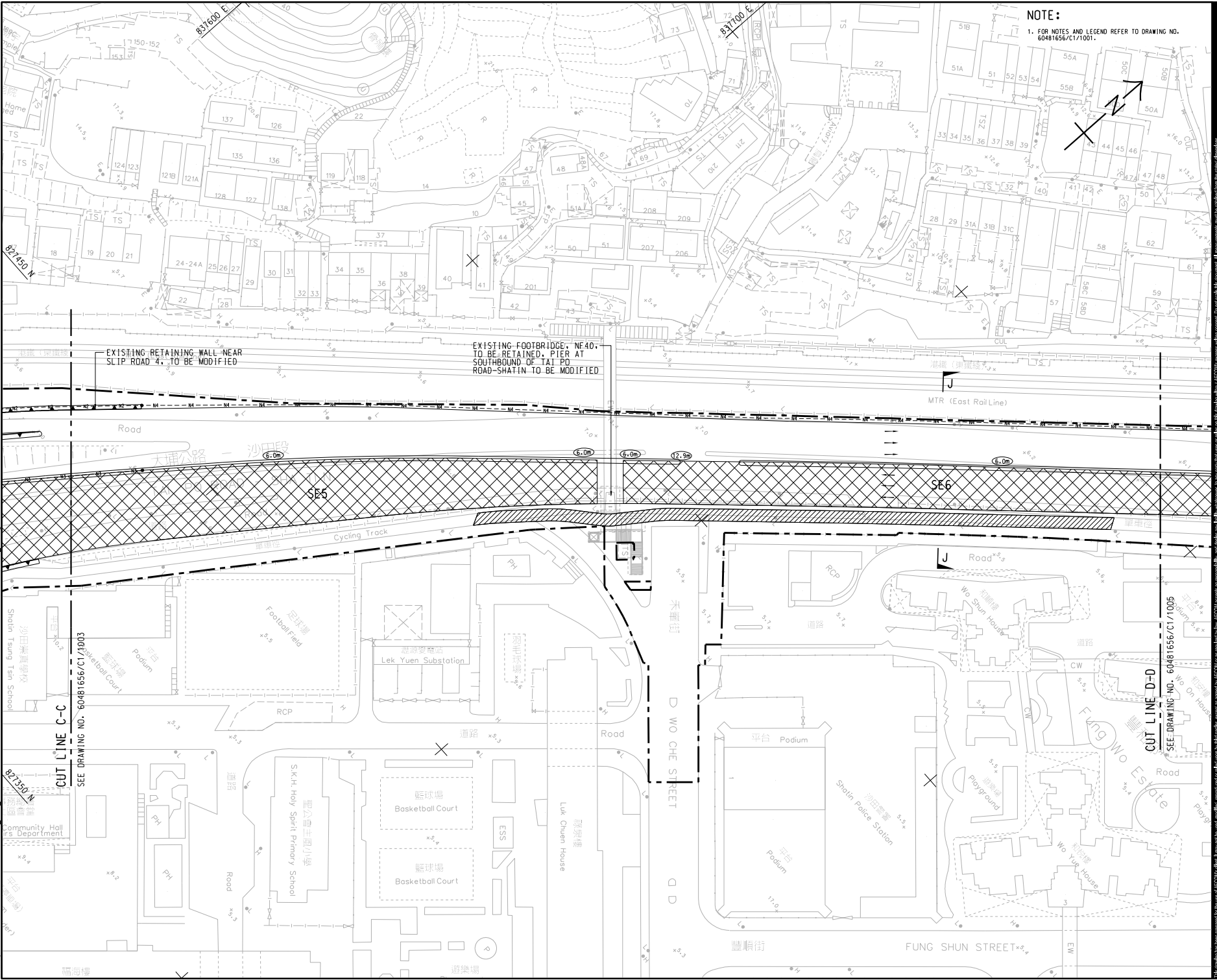
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SHEET 2 OF 6

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 Designer: F.H.S.C. Cheuk-wai BCC  
 Approved: C.V.N.  
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PROJECT  
ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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

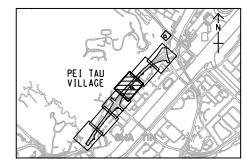
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NO.	DATE	DESCRIPTION	CHK.
1	JAN. 18	TENDER DRAWING	BCC
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IR	DATE	DESCRIPTION	CHK.

STATUS  
SCALE  
A1: 1:500  
DIMENSION UNIT  
METRES  
KEY PLAN  
A1: 1:40000



CONTRACT NO.  
NE/2017/05

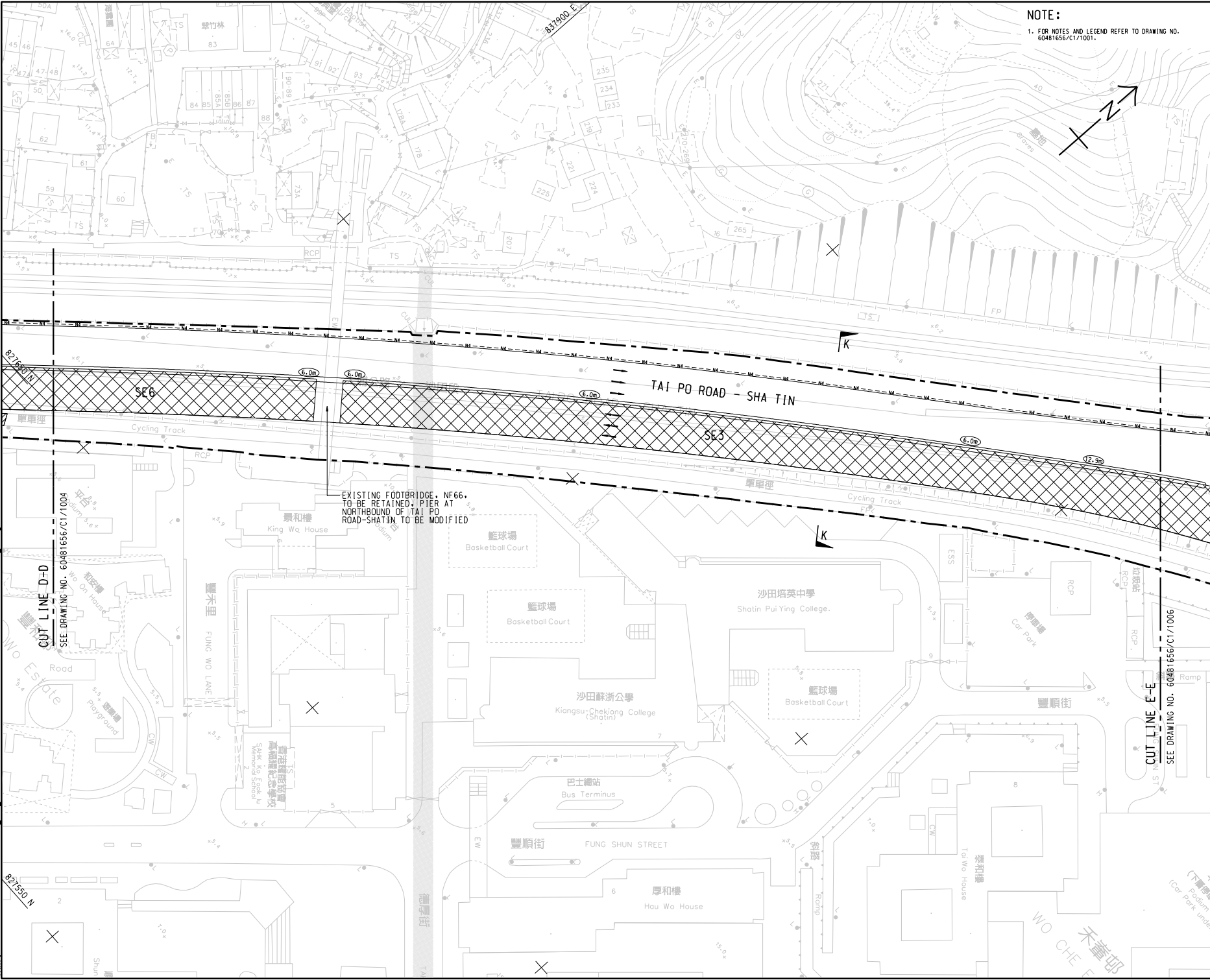
SHEET TITLE  
GENERAL LAYOUT PLAN  
FIGURE 1.1b

SHEET NUMBER  
60481656/CT/1004

SHEET 4 OF 6



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NOTE:  
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**AECOM**

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

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

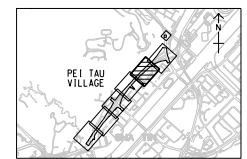
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ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK	APP
1	JAN 18	TENDER DRAWING	BCC	

SCALE  
 A1: 1:500 DIMENSION UNIT METRES  
 KEY PLAN A1: 1:4000



CONTRACT NO.  
 NE/2017/05

SHEET TITLE  
 GENERAL LAYOUT PLAN  
 FIGURE 1.1b

SHEET NUMBER  
 60481656/C1/1005

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## Figure 2a

### Air Monitoring Locations

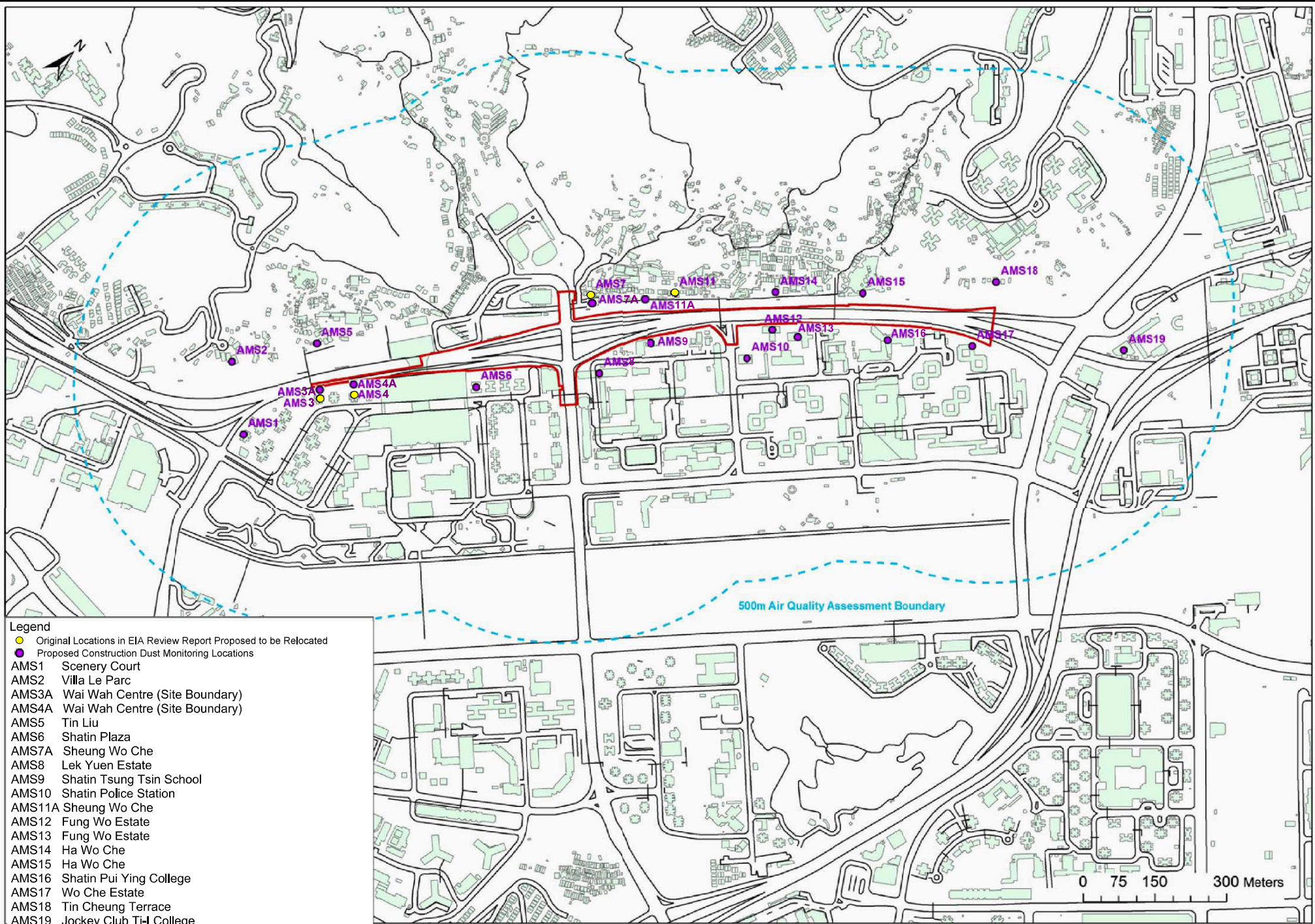


Figure 2a Air Quality Monitoring Locations

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## Figure 2b

### Noise Monitoring Locations

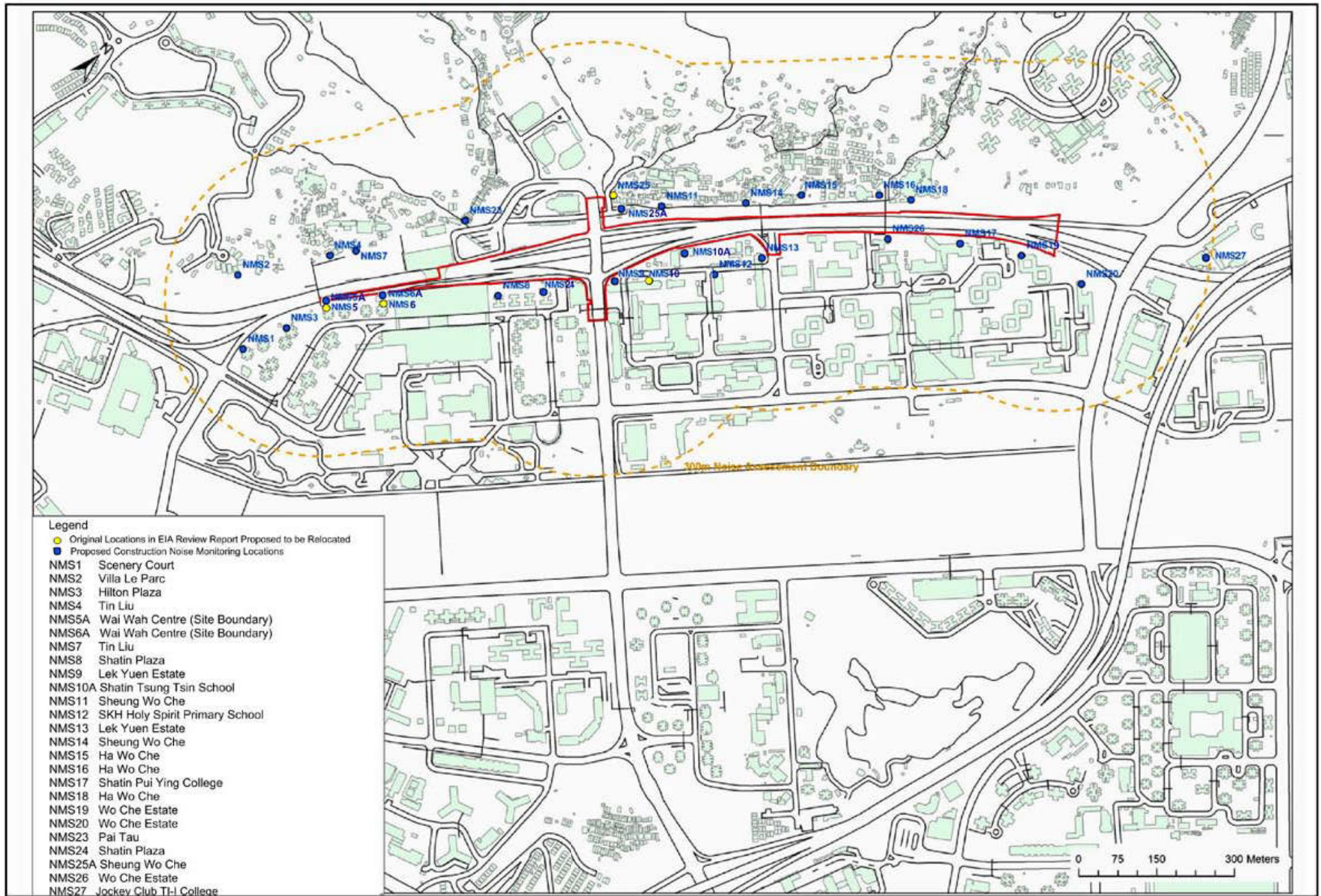


Figure 2b Noise Monitoring Locations

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## Appendix A

### Construction Programme

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	API3 Start	API3 Finish	Aug 50	Sep 51	Oct 52	Nov 53	Dec 54
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road 03_22 Upd:</b>												
<b>PROJECT KEY DATES</b>												
<b>PROJECT COMPLETION</b>												
KEY1142	Target Completion of Section 3 (remaining works)	0	0	31-Aug-22*			28-Jun-22					
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>												
<b>GENERAL SUBMISSION</b>												
SUB1410	Combined Services Drawings (CSD)	0	0	31-Aug-22*		31-Mar-22						
<b>DESIGN SUBMISSION</b>												
<b>NOISE MITIGATION MEASURES</b>												
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	1	29-Mar-21 A	31-Aug-22	31-Mar-21	22-Apr-21					
DES1270	PM Consent for Construction	28	28	01-Sep-22	28-Sep-22	01-Apr-22	28-Apr-22					
DES1290	PM review & comment	28	1	07-Aug-19 A	31-Aug-22	31-Aug-19	27-Sep-19					
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	1	26-Aug-19 A	02-Sep-22	12-Sep-21	02-Oct-21					
DES1310	PM Consent for Construction	28	1	16-Sep-19 A	03-Sep-22	03-Sep-21	30-Sep-21					
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Sep-22	31-Aug-19	27-Sep-19					
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Sep-22	03-Oct-22	12-Apr-22	03-May-22					
DES1350	PM Consent for Construction	28	28	03-Oct-22	31-Oct-22	03-May-22	31-May-22					
<b>REMAINING WORKS</b>												
DES1490	PM review & comment	28	1	25-Jan-19 A	31-Aug-22	04-Aug-19	01-Sep-19					
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certific	35	1	13-Apr-20 A	02-Sep-22	02-Jun-20	07-Jul-20					
DES1510	PM Consent for Construction	28	28	02-Sep-22	30-Sep-22	02-Apr-22	30-Apr-22					
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Aug-22	31-Jan-19	27-Feb-19					
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Aug-22	02-Apr-19	03-May-19					
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Aug-22	04-Oct-22	31-Mar-22	04-May-22					
DES1570	PM review & comment	28	28	05-Oct-22	01-Nov-22	05-May-22	01-Jun-22					
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Nov-22	04-Dec-22	03-Jun-22	04-Jul-22					
<b>WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 05	268	0	28-Jul-20 A	31-Aug-22	31-Jul-20	26-Jun-21					
Z1SU1034	Zone 1 Stage 1 R2 structure	435	26	20-Feb-20 A	03-Oct-22	20-Mar-20	07-Sep-21					
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation/stem wall	216	122	19-Jan-22 A	30-Jan-23	09-Mar-22	28-Nov-22					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>SOUTHBOUND</b>												
Z1_1550	RSE1_socket H-piles for RSE1-51P to 56P (8nr)	24	24	31-Aug-22*	28-Sep-22	10-May-22	07-Jun-22					
<b>PILE CAP AND FOOTING</b>												
<b>NORTHBOUND</b>												
Z1_1002	R1_cap/footing/stem wall construction R1-01 to R1-05 (5nr)	84	8	27-Nov-20 A	09-Sep-22	21-Dec-20	07-Apr-21					
Z1_1011	R1_ELS for footing/cap construction R1-06 to R1-18 (153m_1 side)	43	29	11-May-22 A	17-Oct-22	25-Apr-22	16-Jun-22					
Z1_1012	R1_footing/stem wall construction R1-06 to R1-17 (8nr)	72	52	21-May-22 A	12-Nov-22	21-May-22	16-Aug-22					
Z1_1020	R1_backfill & remove ELS	20	20	12-Nov-22	06-Dec-22	16-Aug-22	08-Sep-22					
<b>SOUTHBOUND</b>												
Z1_1092	R2_footing/cap/stem wall construction R2-01 to R2-05P (5nr)	105	11	23-Oct-20 A	13-Sep-22	23-Apr-21	28-Aug-21					
Z1_1100	R2_backfill & remove ELS	12	10	15-Dec-20 A	24-Sep-22	08-Sep-21	23-Sep-21					
Z1_1160	RSE1_ELS for pile cap construction RSE1-51P to 56P (83m_2 side)	42	42	29-Sep-22	19-Nov-22	16-Jun-22	05-Aug-22					
Z1_1170	RSE1_pile cap construction RSE1-51P to 56P (3nr)	54	54	26-Oct-22	30-Dec-22	12-Jul-22	14-Sep-22					
<b>STRUCTURE STEEL FRAME</b>												
<b>SOUTHBOUND</b>												
Z1_1110	R2_erec steel posts PB1 to PB19 (19nr)	4	2	31-Aug-22 A	28-Sep-22	12-Aug-22	18-Aug-22					
<b>NOISE BARRIER PANEL</b>												
<b>SOUTHBOUND</b>												
Z1_1120	R2_install noise barrier panel PB1 to PB19 (514 sq.m)	3	3	28-Sep-22	03-Oct-22	18-Aug-22	23-Aug-22					
<b>ROADWORKS AND REMAINING WORKS</b>												
<b>GEOTECHNICAL WORKS</b>												
<b>NORTHBOUND</b>												

	Remaining Level of Effort		Remaining Work		Milestone
	Actual Level of Effort		Critical Remaining Work		Baseline Milestone
	Actual Work		Primary Baseline		

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
 3 Months Rolling Programme (31/08/22)  
 Page 1 of 5

Date	Revision	Checked	Approved
08-Sep-22	3MRP DWP 2208	EGA	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	API3 Start	API3 Finish	Aug 50	Sep 51	Oct 52	Nov 53	Dec 54
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	24-Sep-22	26-Nov-22	12-Aug-22	15-Oct-22					
<b>SOUTHBOUND</b>												
Z1_1310	Zone 1_fill replacement by no-fines concrete 7SW-D/F454 (pit by pit) NB_R2	16	0	16-Jun-22 A	31-Aug-22	06-Jun-22	23-Jun-22					
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z2SU1010	Construction Zone 2_Stage 2 RSE2 SB foundation/stem wall	204	56	22-Dec-21 A	07-Nov-22	31-Dec-21	07-Sep-22					
Z2SU1020	Construction Zone 2_Stage 3 RSE2 Arch beam & panel	88	88	07-Nov-22	24-Feb-23	01-Aug-22	09-Nov-22					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE CAP AND FOOTING</b>												
<b>SOUTHBOUND</b>												
Z2_1080	RSE2_ELS for footing/cap construction RSE2-51 to RSE2-65P (174m_2 side)	87	25	19-Jan-22 A	29-Sep-22	31-Jan-22	20-May-22					
Z2_1092	RSE2_pile cap/stem wall construction RSE2-51P to RSE2-65 (14nr)	90	29	11-Feb-22 A	06-Oct-22	22-Mar-22	12-Jul-22					
Z2_1110	RSE2_backfill & remove ELS	29	29	14-Sep-22	20-Oct-22	09-Jun-22	14-Jul-22					
<b>STRUCTURE STEEL FRAME</b>												
<b>SOUTHBOUND</b>												
Z2_1130	RSE2_erect steel posts PD23a to PD67 (46nr)	12	12	20-Oct-22	07-Nov-22	14-Jul-22	01-Aug-22					
Z2_1140	RSE2_erect steel arch beam PC/D23 to PC/D67 (45nr)	23	23	07-Nov-22	04-Jan-23	01-Aug-22	21-Sep-22					
<b>WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	73	20-Nov-19 A	26-Nov-22	02-Sep-19	10-Nov-20					
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircase	256	91	31-Mar-20 A	17-Dec-22	29-Jun-20	11-May-21					
Z3SU5050	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge	344	236	02-Jun-20 A	20-Jun-23	26-Jan-21	25-Mar-22					
Z3SU5060	Zone 3b (near SR6) Stage 2 N263 bridge deck construction	487	380	31-Mar-21 A	09-Dec-23	09-Jun-21	30-Jan-23					
Z3SU5070	Zone 3b (near SR6) Stage 3 Construct SR5	682	466	28-Oct-20 A	26-Mar-24	01-Dec-20	21-Mar-23					
Z3SU5100	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30	162	9	02-Dec-20 A	09-Sep-22	01-Dec-20	22-Jun-21					
Z3SU5110	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414	106	342	07-Sep-20 A	26-Oct-23	30-Jan-21	15-Jun-21					
<b>PREPARATORY WORKS</b>												
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>												
Z3_2820	Zone 3 TPR Northbound temporary pavement for Zone 3 Stage 1a TTA	18	18	07-Nov-22	26-Nov-22	21-Jul-22	10-Aug-22					
Z3_5765	Zone 3 TPR Southbound temporary pavement for Zone 3 Stage 0.5 TTA	45	45	12-Sep-22	04-Nov-22	06-Jun-22	28-Jul-22					
Z3_5770	Zone 3 TPR Southbound UU diversion & temporary pavement for Zone 3 Stage 1 TTA	30	30	05-Nov-22	09-Dec-22	29-Jul-22	01-Sep-22					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>NORTHBOUND</b>												
Z3_0910	N4_socket H-piles for N4-10 to N4-11 (14 nr ver)	42	38	01-Aug-22 A	17-Oct-22	19-May-22	08-Jul-22					
<b>PILE CAP AND FOOTING</b>												
<b>NORTHBOUND</b>												
Z3_1000	N4_ELS for footing construction N4-01 to N4-11 (130m_2 side)	72	72	17-Oct-22	12-Jan-23	09-Jul-22	03-Oct-22					
Z3_1010	N4_footing/stem wall construction N4-01 to N4-11 (11nr)	108	108	14-Nov-22	27-Mar-23	06-Aug-22	13-Dec-22					
<b>CENTRAL BARRIER</b>												
Z3_1240	SE1-5_ELS for footing construction S1E5-01 to S1E5-05 (51m_2 side) (N/B Stag1a + S/B Stage 0)	15	15	28-Nov-22	14-Dec-22	11-Aug-22	27-Aug-22					
Z3_1300	SE2_ELS for footing construction S2E1-01 (17m_2 side) (N/B Stag1a + S/B Stage 0)	5	5	28-Nov-22	02-Dec-22	11-Aug-22	16-Aug-22					
<b>SOUTHBOUND</b>												
Z3_5670	SE2_backfill & remove ELS	2	2	31-Aug-22	01-Sep-22	18-May-22	19-May-22					
<b>SOUTHBOUND SLIP ROAD</b>												
Z3_1790	SE8-1_cap/stem wall construction SR6 1-B to SR6 2-B (2nr)	36	18	04-Jul-22 A	21-Oct-22	18-Jun-22	30-Jul-22					
Z3_1800	SE8-1B_backfill & remove ELS	3	3	21-Oct-22	25-Oct-22	01-Aug-22	03-Aug-22					
Z3_1810	SE8-2_ELS for footing construction SR6 3-B to SR6 5-B (30m_2 side)	17	11	09-Aug-22 A	14-Oct-22	13-Jun-22	02-Jul-22					
Z3_1820	SE8-2_footing/stem wall construction SR6 3-B to SR6 5-B (3nr)	54	54	14-Oct-22	16-Dec-22	04-Jul-22	03-Sep-22					
<b>ROADWORKS AND REMAINING WORKS</b>												
<b>ROADWORKS</b>												
<b>NORTHBOUND SLIP ROAD</b>												
Z3_2700	Drainage construction MA06 to MA01 222m	139	139	07-Nov-22	28-Apr-23	21-Jul-22	05-Jan-23					
<b>NORTHBOUND</b>												
Z3_2740	Drainage construction MN26 to MN29 145m	45	45	31-Aug-22	25-Oct-22	16-May-22	08-Jul-22					
Z3_2750	Drainage construction MN45 to MN47 & MN66 to MN67 126m	40	40	31-Aug-22	19-Oct-22	13-May-22	29-Jun-22					
<b>SOUTHBOUND</b>												
Z3_3210	Sewerage diversion FM1 to FM2 88m 825mm	55	55	28-Nov-22	06-Feb-23	11-Aug-22	17-Oct-22					
<b>BRIDGE AND STRUCTURE WORKS</b>												

	Remaining Level of Effort		Remaining Work		Milestone
	Actual Level of Effort		Critical Remaining Work		Baseline Milestone
	Actual Work		Primary Baseline		

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/22)**  
Page 2 of 5

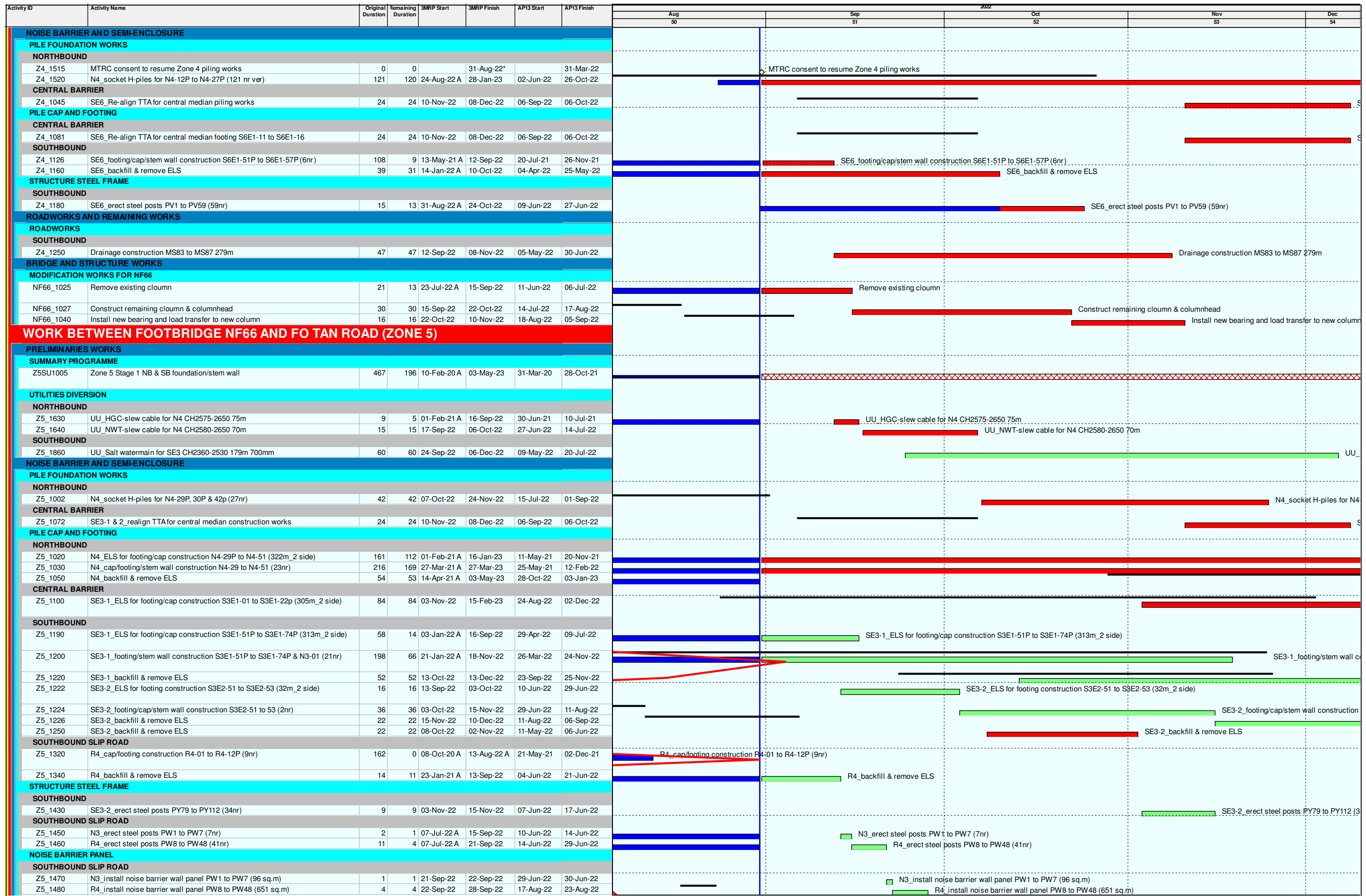
Date	Revision	Checked	Approved
08-Sep-22	3MRP DWP 2208	EGA	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	API3 Start	API3 Finish	Aug 50	Sep 51	2022 Oct 52	Nov 53	Dec 54
<b>PRELIMINARIES WORKS</b>												
<b>UTILITIES DIVERSION</b>												
<b>SOUTHBOUND</b>												
Z3_3080	UU_CLP-abandoned 11kv cable for SR6 CH1850-1950 100m	19	19	20-Sep-22	14-Oct-22	10-Jun-22	02-Jul-22					
Z3_3090	UU_HGC-slew cable for SR6 CH1800-1870 70m	8	8	05-Oct-22	14-Oct-22	23-Jun-22	02-Jul-22					
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	31-Aug-22	31-Aug-22	31-Mar-22	31-Mar-22					
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	8	08-Jun-20 A	08-Sep-22	31-Jul-20	29-Oct-20					
Z3_5685	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	6	08-Jun-20 A	06-Sep-22	02-Jun-21	13-Aug-21					
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>												
Z3_4230	N264_construct in-situ section for widening N264	35	35	13-Sep-22	26-Oct-22	20-Jun-22	01-Aug-22					
Z3_4240	N264_temporary protection MTRC cable	18	18	13-Sep-22	06-Oct-22	28-May-22	20-Jun-22					
Z3_4250	N264_demolish existing parapet wall	24	24	06-Oct-22	03-Nov-22	20-Jun-22	19-Jul-22					
Z3_4260	N264_install precast slab	18	18	03-Nov-22	24-Nov-22	19-Jul-22	09-Aug-22					
Z3_4270	N264_in-situ concrete slab & parapet	24	24	24-Nov-22	22-Dec-22	09-Aug-22	06-Sep-22					
<b>MODIFICATION OF BRIDGE N263</b>												
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>												
Z3_3942	SHA_temporary platform & temporary pipe pile wall	24	10	07-May-22 A	12-Sep-22	03-May-22	30-May-22					
Z3_3950	SHA_socket H-pile for pier SHA9 nos.	27	27	12-Sep-22	15-Oct-22	31-May-22	02-Jul-22					
Z3_3960	SHA_ELS & pile cap construction	21	21	15-Oct-22	09-Nov-22	04-Jul-22	27-Jul-22					
Z3_3970	SHA_abutment wall construction	21	21	09-Nov-22	03-Dec-22	28-Jul-22	20-Aug-22					
Z3_4072	SHW_erect remaining temporary deck for STRCR stage 2 TTA	12	2	23-Jul-22 A	02-Sep-22	16-Jun-22	30-Jun-22					
<b>DECK CONSTRUCTION OF BRIDGE N263</b>												
Z3_3886	N263_erect temporary working platform for deck construction (between NAW1 and TPR)	21	6	02-Jul-22 A	07-Sep-22	10-Jun-22	05-Jul-22					
Z3_3985	Preparation works for Stage 2 road diversion	28	14	04-Jul-22 A	16-Sep-22	16-Jun-22	19-Jul-22					
<b>MODIFICATION OF BRIDGE N262</b>												
Z3_5470	N262_bridge deck construction between C03 and C02	30	27	23-Aug-22 A	05-Oct-22	19-May-22	23-Jun-22					
Z3_5475	N262_bridge deck construction between C04 and C03	30	27	23-Aug-22 A	05-Nov-22	24-Jun-22	29-Jul-22					
Z3_5480	N262_parapet & deck finishing	30	30	07-Nov-22	10-Dec-22	30-Jul-22	02-Sep-22					
<b>NEW SLIP ROAD 2</b>												
Z3_5360	SR2-1_column construction	21	12	27-Dec-21 A	01-Aug-23	15-Feb-23	11-Mar-23					
<b>LIFT TOWER 1</b>												
Z3_3610	L1-PC1_ELS & footing construction	42	25	18-Jun-22 A	30-Sep-22	04-May-22	23-Jun-22					
Z3_3620	Lift Tower 1_erect steel structure	35	35	30-Sep-22	12-Nov-22	23-Jun-22	04-Aug-22					
Z3_3630	Lift Tower 1_external finishing	45	45	12-Nov-22	07-Jan-23	04-Aug-22	27-Sep-22					
<b>LIFT TOWER 2 &amp; STAIRCASE</b>												
Z3_3700	Lift Tower 2_external finishing	60	60	30-Sep-22	12-Dec-22	30-Apr-22	13-Jul-22					
Z3_3710	Lift Tower 2_lift installation	60	60	12-Dec-22	27-Feb-23	13-Jul-22	22-Sep-22					
Z3_3802	Lift Tower 2_Pier 2 column construction	21	0	25-Jul-22 A	06-Aug-22 A	20-May-22	14-Jun-22					
Z3_3820	Staircase_staircase construction between Pier 3 and Pier 2	30	30	30-Sep-22	07-Nov-22	15-Jun-22	20-Jul-22					
Z3_3830	Staircase_bridge deck construction between Pier 2 and Pier 1	30	30	30-Sep-22	07-Nov-22	15-Jun-22	20-Jul-22					
Z3_3840	Staircase_bridge deck construction between Pier 1 and N263	30	30	07-Nov-22	12-Dec-22	21-Jul-22	24-Aug-22					
Z3_3842	Staircase_temporary cycle track ramp on staircase structure	35	35	07-Nov-22	17-Dec-22	21-Jul-22	30-Aug-22					
<b>NEW SLIP ROAD 5</b>												
Z3_5510	SR5-3_abutment wall construction	60	42	04-Jul-22 A	21-Oct-22	25-Jun-22	03-Sep-22					
<b>RETAINING WALL &amp; SUBWAY</b>												
<b>RETAINING WALL NO.6</b>												
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	25-Oct-22	02-Nov-22	08-Jul-22	16-Jul-22					
Z3_1218_1070	RW6_remove ELS & backfill for Bay 613 to Bay 614	3	3	03-Nov-22	05-Nov-22	18-Jul-22	20-Jul-22					
<b>RETAINING WALL NO.7</b>												
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	13-Sep-22	20-Oct-22	28-May-22	05-Jul-22					
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	20-Sep-22	10-Nov-22	06-Jun-22	26-Jul-22					
Z3_1218_2020	RW7_retaining wall construction for Bay 706 to Bay 711	60	60	17-Oct-22	28-Dec-22	30-Jun-22	09-Sep-22					
<b>MODIFY EXISTING RETAINING WALL SR3</b>												
Z3_4960	SR3_remove ELS & backfill for Bay SR301 to SR304	9	9	31-Aug-22	09-Sep-22	25-Apr-22	06-May-22					
Z3_5060	SR3_remove ELS & backfill for Bay SR307 to SR310	5	5	05-Sep-22	09-Sep-22	29-Apr-22	06-May-22					
<b>MODIFY EXISTING RETAINING WALL SR4</b>												
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	31-Aug-22	13-Sep-22	17-May-22	28-May-22					
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	31-Aug-22	13-Sep-22	17-May-22	28-May-22					
<b>MODIFY EXISTING RETAINING WALL SR6</b>												
Z3_5150	SR6_ELS works for Bay SR601 to Bay SR609 (87m_1 side)	24	24	14-Oct-22	11-Nov-22	04-Jul-22	30-Jul-22					
Z3_5160	SR6_demolish existing wall toe between Bay SR601 and SR609	28	28	28-Oct-22	30-Nov-22	18-Jul-22	18-Aug-22					
<b>WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z4SU1005	Zone 4 Stage 1 NB & SB foundation/stem wall	434	218	06-Mar-20 A	30-May-23	31-Mar-20	16-Sep-21					
Z4SU1100	Zone 4 NF66 Construction	220	59	20-Jul-20 A	10-Nov-22	31-Aug-20	31-May-21					
<b>UTILITIES DIVERSION</b>												
<b>NORTHBOUND</b>												
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	03-Nov-22	02-Dec-22	05-Aug-22	02-Sep-22					
<b>SOUTHBOUND</b>												
Z4_1380	UU_Salt watermain for SE6 CH2275-2345 56m 700mm	20	20	31-Aug-22	24-Sep-22	11-Apr-22	09-May-22					

XXXXXX Remaining Level of Effort   
■■■■■ Remaining Work   
◆ Milestone   
◆ Baseline Milestone  
■■■■■ Actual Level of Effort   
■■■■■ Critical Remaining Work   
◆ Baseline Milestone  
■■■■■ Actual Work   
■■■■■ Primary Baseline

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/22)**  
Page 3 of 5

Date	Revision	Checked	Approved
08-Sep-22	3MRP DWP 2208	EGA	



▨ Remaining Level of Effort   
 ▬ Remaining Work   
 ◆ Milestone   
 ◆ Baseline Milestone  
▬ Actual Level of Effort   
 ▬ Critical Remaining Work   
▬ Actual Work   
▬ Primary Baseline

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/22)**  
 Page 4 of 5

Date	Revision	Checked	Approved
08-Sep-22	3MRP DWP 2208	EGA	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	Aug 50	Sep 51	Oct 52	Nov 53	Dec 54	
<b>ROADWORKS AND REMAINING WORKS</b>													
<b>ROADWORKS</b>													
<b>SOUTHBOUND</b>													
Z5_1550	Drainage construction MS109 to MS112 & MS123 to MS124 246m	77	77	02-Sep-22	05-Dec-22	16-Aug-22	17-Nov-22	Drainage construction MS109 to MS112 & MS123 to MS124 246m					Drainage construction MS109 to MS112 & MS123 to MS124 246m
Z5_1560	Drainage construction MS126 to MS128 144m	45	45	31-Aug-22	25-Oct-22	31-Mar-22	27-May-22	Drainage construction MS126 to MS128 144m					Drainage construction MS126 to MS128 144m
<b>SOUTHBOUND SLIP ROAD</b>													
Z5_1600	Zone 5_road surfacing with flexible pavement Type 2 1257m2	9	9	28-Sep-22	12-Oct-22	23-Aug-22	05-Sep-22	Zone 5_road surfacing with flexible pavement Type 2 1257m2					Zone 5_road surfacing with flexible pavement Type 2 1257m2
<b>GEOTECHNICAL WORKS</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5_1790	Zone 5_fill replacement by no-fines concrete 7SE-A/FR137 (open excavation)	7	7	23-Nov-22	01-Dec-22	30-Aug-22	07-Sep-22	Zone 5_fill replacement by no-fines concrete 7SE-A/FR137 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/FR137 (open excavation)
<b>SOUTHBOUND SLIP ROAD</b>													
Z5_1740	Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)	29	21	12-Mar-21 A	11-Oct-22	07-Apr-22	14-May-22	Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)
Z5_1750	Zone 5_fill replacement by no-fines concrete 7SE-A/FR139 (open excavation)	4	4	11-Oct-22	15-Oct-22	07-Jul-22	12-Jul-22	Zone 5_fill replacement by no-fines concrete 7SE-A/FR139 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/FR139 (open excavation)
Z5_1760	Zone 5_fill replacement by no-fines concrete 7SE-A/FR135 (open excavation)	14	6	12-Jul-22 A	21-Oct-22	12-Jul-22	28-Jul-22	Zone 5_fill replacement by no-fines concrete 7SE-A/FR135 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/FR135 (open excavation)
Z5_1770	Zone 5_fill replacement by no-fines concrete 7SE-A/FR138 (open excavation)	4	4	21-Oct-22	26-Oct-22	28-Jul-22	02-Aug-22	Zone 5_fill replacement by no-fines concrete 7SE-A/FR138 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/FR138 (open excavation)
Z5_1780	Zone 5_fill replacement by no-fines concrete 7SE-A/F128 (open excavation)	4	4	26-Oct-22	31-Oct-22	02-Aug-22	06-Aug-22	Zone 5_fill replacement by no-fines concrete 7SE-A/F128 (open excavation)					Zone 5_fill replacement by no-fines concrete 7SE-A/F128 (open excavation)
Z5_1810	Zone 5_fill replacement 7SE-A/F165 (compacted fill)	20	20	31-Oct-22	23-Nov-22	06-Aug-22	30-Aug-22	Zone 5_fill replacement 7SE-A/F165 (compacted fill)					Zone 5_fill replacement 7SE-A/F165 (compacted fill)
<b>PORTION E (ZONE 5)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>SUMMARY PROGRAMME</b>													
<b>TPR NORTHBOUND</b>													
PESU1000	Construction Zone 5 Portion E_Northbound structure	336	3	11-May-20 A	02-Sep-22	31-Jul-20	16-Sep-21	Construction Zone 5 Portion E_Northbound structure					Construction Zone 5 Portion E_Northbound structure
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE CAP AND FOOTING</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1250	N4_footing/cap/stem wall construction N4-52 (2nr)	18	0	27-Jul-22 A	04-Aug-22 A	04-Jun-22	25-Jun-22	N4_footing/cap/stem wall construction N4-52 (2nr)					N4_footing/cap/stem wall construction N4-52 (2nr)
Z5E_1260	N4_backfill & remove ELS	2	2	02-Sep-22	05-Sep-22	25-Jun-22	28-Jun-22	N4_backfill & remove ELS					N4_backfill & remove ELS
<b>NOISE BARRIER PANEL</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1120	R6_install noise barrier wall panel PK401 to PK420 (271 sq.m)	2	0	30-May-22 A	31-Aug-22	26-May-22	30-May-22	R6_install noise barrier wall panel PK401 to PK420 (271 sq.m)					R6_install noise barrier wall panel PK401 to PK420 (271 sq.m)
<b>ROADWORKS AND REMAINING WORKS</b>													
<b>ROADWORKS</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1130	Zone 5 Portion E_road surfacing with flexible pavement Type 2 982m2	7	2	06-Jun-22 A	02-Sep-22	19-May-22	30-May-22	Zone 5 Portion E_road surfacing with flexible pavement Type 2 982m2					Zone 5 Portion E_road surfacing with flexible pavement Type 2 982m2
<b>GEOTECHNICAL WORKS</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	50	3	10-Sep-20 A	02-Sep-22	09-Dec-20	09-Feb-21	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)					Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)

	Remaining Level of Effort		Remaining Work		Milestone
	Actual Level of Effort		Critical Remaining Work		Baseline Milestone
	Actual Work		Primary Baseline		

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/22)**  
Page 5 of 5

Date	Revision	Checked	Approved
08-Sep-22	3MRP DWP 2208	EGA	

# FUGRO TECHNICAL SERVICES LIMITED

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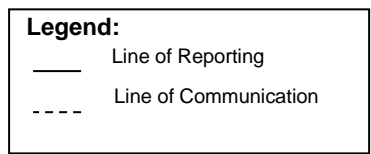
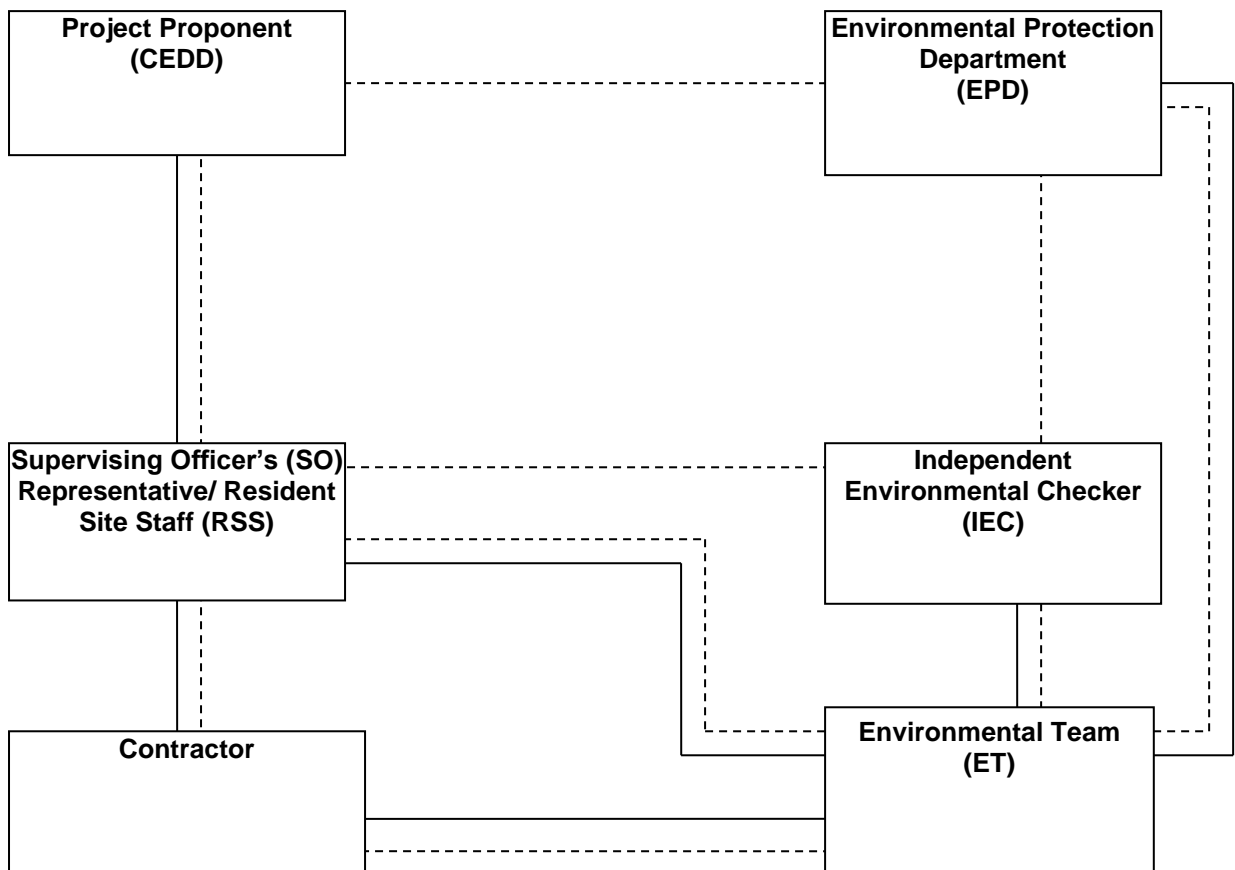
## Appendix B

### Project Organization Chart

# FUGRO TECHNICAL SERVICES LIMITED

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## Appendix C

### Action and Limit Levels for Air Quality and Noise

# FUGRO TECHNICAL SERVICES LIMITED

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

Parameter	Monitoring Station	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	AMS4A	200	260
	AMS7A	171	
	AMS12	168	
	AMS17	171	
1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	AMS4A	348	500
	AMS7A	344	
	AMS12	296	
	AMS17	338	

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

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1	When one documented complaint is received	75 dB(A)
	NMS2		
	NMS3		
	NMS4		
	NMS5A		
	NMS6A		
	NMS7		
	NMS8		
	NMS9		
	NMS10A*		
	NMS11		
	NMS12*		
	NMS13		
	NMS14		
	NMS15		
	NMS16		
	NMS17*		
	NMS18		
	NMS19		
	NMS20		
NMS23			
NMS24			
NMS25A			
NMS26			
NMS27*			

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



## **FUGRO TECHNICAL SERVICES LIMITED**

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### **Appendix D**

### **Calibration Certificates of Monitoring Equipment**

Report no. : 940891CA220067(4)

Page 1 of 1

**CALIBRATION CERTIFICATE OF DUST METER**

Client : Fugro Technical Services Limited

Project : Calibration Services

**Client Supplied Information**

Details of Unit Under Test, UUT

Description : Laser dust monitor  
 Manufacturer : SIBATA  
 Model No. : LD-5R  
 Serial No. : 620407  
 Specification Limit : NA  
 Next Calibration Date : 07-Dec-2022

**Laboratory Information**

Description : 1. Balance 2. TSP high volume air sampler  
 Equipment ID. / Serial no : 1. C-065-5 2. 4350  
 Date of Calibration : 08-Dec-2021 Ambient Temperature : 23 ± 5 °C  
 Calibration Location : General Chemical Laboratory of FTS and Ma Wan A1 Site Boundary  
 Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same 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)
0.0757	2112	35.20
0.0820	2337	38.95
0.0907	2742	45.70

**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 = 0.002073
3. Correlation coefficient (r) : 0.9978

Checked by : Candy Date : 11-1-2022 Certified by : K.T. Leung Date : 11-1-2022  
 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

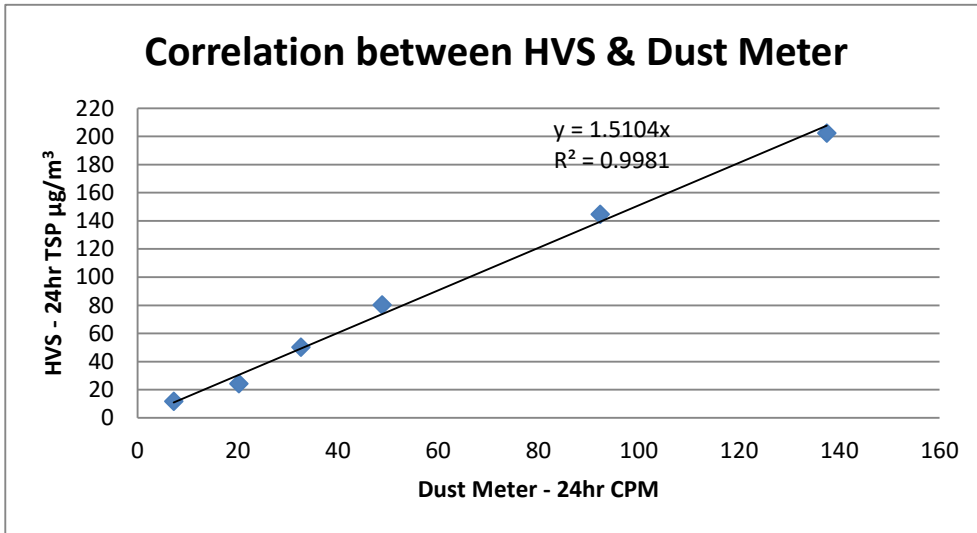
**\*\* End of Report \*\***

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 620407

HVS - 24hr TSP $\mu\text{g}/\text{m}^3$	11.84	24.32	50.37	80.24	144.64	202.44
Dust Meter - 24hr CPM	7.2	20.2	32.6	48.8	92.3	137.5



K factor = 1.490

Report no. : 940891CA220067(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 : 07-Dec-2022

### Laboratory Information

Description : 1. Balance 2. TSP high volume air sampler

Equipment ID. / Serial no : 1. C-065-5 2. 4350

Date of Calibration : 08-Dec-2021 Ambient Temperature : 23 ± 5 °C

Calibration Location : General Chemical Laboratory of FTS and Ma Wan A1 Site Boundary

Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same 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)
0.0757	1814	30.23
0.0820	2015	33.58
0.0907	2501	41.68

### 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 = 0.002355
3. Correlation coefficient (r) : 0.9904

 Checked by : Cenny Date : 11-1-2022 Certified by : K.T. Leung Date : 11-1-2022

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

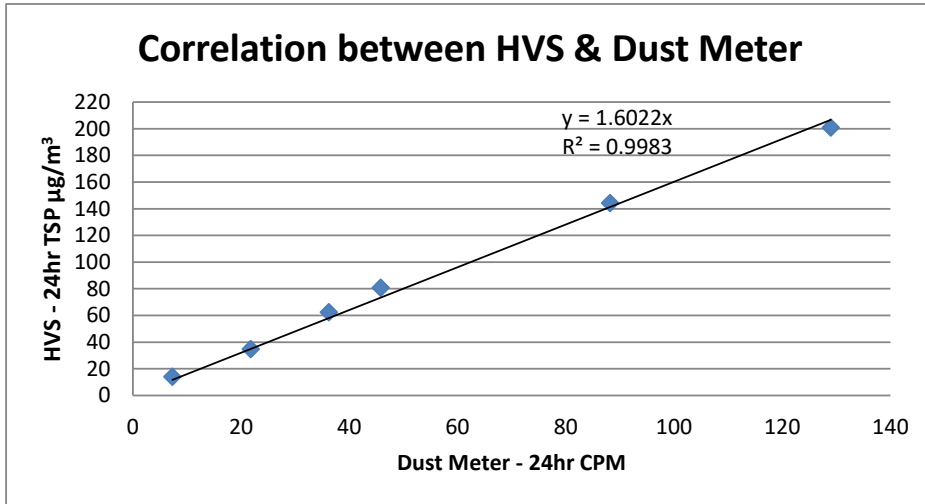
\*\* End of Report \*\*

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 620408

HVS - 24hr TSP $\mu\text{g}/\text{m}^3$	13.97	34.71	62.33	80.74	144.29	200.73
Dust Meter - 24hr CPM	7.3	21.8	36.2	45.8	88.2	129



K factor = 1.605

Report no. : 940891CA220067(3)

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. : 620480

Specification Limit : NA

Next Calibration Date : 07-Dec-2022

### Laboratory Information

Description : 1. Balance 2. TSP high volume air sampler

Equipment ID. / Serial no : 1. C-065-5 2. 4350

Date of Calibration : 08-Dec-2021 Ambient Temperature : 23 ± 5 °C

Calibration Location : General Chemical Laboratory of FTS and Ma Wan A1 Site Boundary

Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same 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)
0.0757	2199	36.65
0.0820	2379	39.65
0.0907	2666	44.43

### 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 = 0.002058
3. Correlation coefficient (r) : 0.9994

 Checked by : Cenny Date : 11-1-2022 Certified by : K.T. Jeung Date : 11-1-2022  
 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

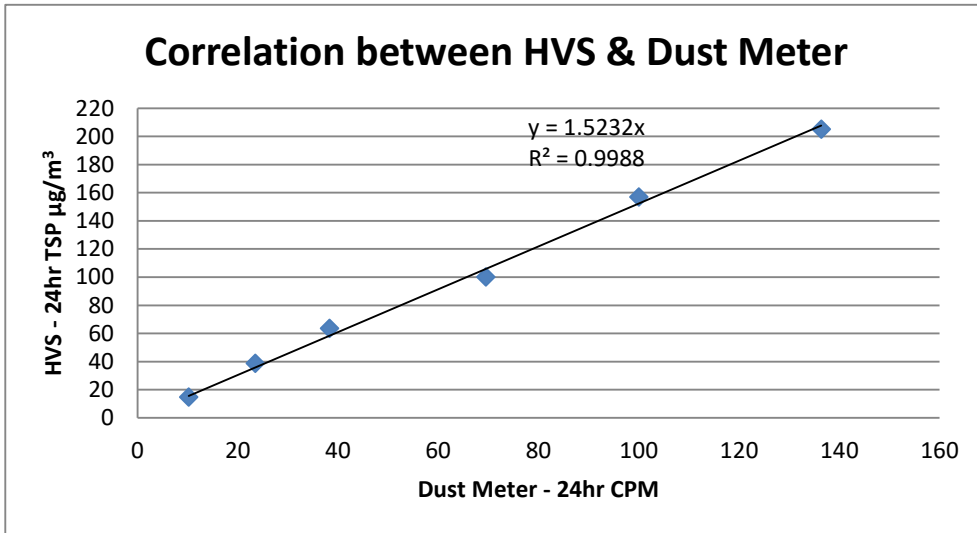
\*\* End of Report \*\*

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 620480

HVS - 24hr TSP $\mu\text{g}/\text{m}^3$	14.86	38.91	63.71	100.21	157.09	205.17
Dust Meter - 24hr CPM	10.2	23.5	38.3	69.5	100.02	136.4



K factor = 1.523

Report no. : 940891CA220067

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. : 620408  
Specification Limit : NA  
Next Calibration Date : 07-Dec-2022

**Laboratory Information**

Description : 1. Balance 2. TSP high volume air sampler  
Equipment ID. / Serial no : 1. C-065-5 2. 4350  
Date of Calibration : 08-Dec-2021 Ambient Temperature : 23 ± 5 °C  
Calibration Location : General Chemical Laboratory of FTS and Ma Wan A1 Site Boundary  
Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same 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)
0.0757	2041	34.02
0.0820	2112	35.20
0.0907	2256	37.60

**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 = 0.002326
3. Correlation coefficient (r) : 0.9953

Checked by : Curry Date : 11-1-2022 Certified by : K.T. Leung Date : 11-1-2022  
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

**\*\* End of Report \*\***

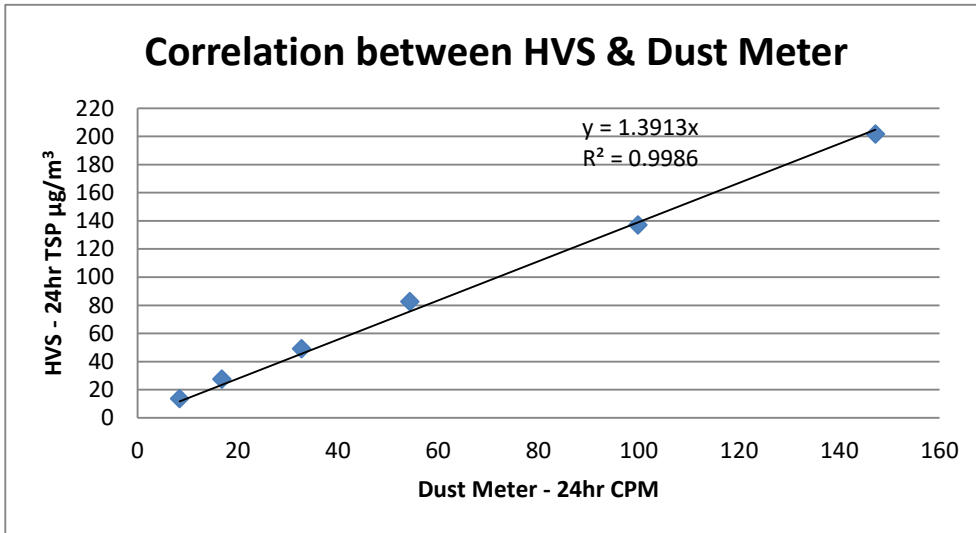


Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 761105

HVS - 24hr TSP $\mu\text{g}/\text{m}^3$	13.82	27.54	49.28	82.71	137.20	201.88
Dust Meter - 24hr CPM	8.4	16.8	32.7	54.3	99.84	147.2



K factor = 1.391

## 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.	0873599	02374	003916

Equipment ID : N/A

Next Calibration Date : 13-Jul-2023

Specification Limit : EN 61672-1: 2003 Class 1

### Laboratory Information

#### Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)  
 Equipment ID. : R-108-1

Date Receipt of UUT : 13-Jul-2022

Date of Calibration : 14-Jul-2022

Calibration Location : Calibration Laboratory of FTS      Ambient Temperature : 20±2 °C

Method Used : By direct comparison      Relative Humidity : <80% R.H.

As Received : Functional / Within specs

As Returned : Complies with the specification limits (EN61672-1:2003 Class 1)

### Calibration Results :

Parameters	Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	1.6      2.6 to -0.6
	2000Hz	1.3      2.8 to -0.4
	1000Hz	0.0      1.1 to -1.1
	500Hz	-3.3      -1.8 to -4.6
	250Hz	-8.8      -7.2 to -10.0
	125Hz	-16.2      -14.6 to -17.6
	63Hz	-26.2      -24.7 to -27.7
Differential level linearity	94dB-104dB	0.0      ± 0.6
	104dB-114dB	0.0      ± 0.6

### Remarks :

- The equipment used in this calibration is traceable to recognized National Standards.
- For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- The mean value is the average of four measurements.
- A general inspection of the item has been carried out and found the item is in good working conditions.
- The result reported on this certificate apply only to the unit under test as received. Fugro has not been responsible for the sampling stage

Checked by : SLA      Date : 14-7-2022      Certified by : R.J. Leung      Date : 15-7-2022  
 CA-R-297 (22/07/2009)      Leung Kwok Tai (Assistant Manager)

**\*\* End of Report \*\***

Report no.: 212769CA220999

Page 1 of 1

## CALIBRATION CERTIFICATE OF SOUND LEVEL METER

### Client Supplied Information

Client : Fugro Technical Services Limited

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.	1488300	05011	002110

Equipment ID : N/A

Next Calibration Date : 06-May-2023

Specification Limit : EN 61672-1: 2003 Class 1

### Laboratory Information

Details of Reference Equipment -

Description : B &amp; K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 07-May-2022

Calibration Location : Calibration Laboratory of FTS      Ambient Temperature : 20±2 °C

Method Used : By direct comparison      Relative Humidity : &lt;80% R.H.

### Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	-0.2	2.6 to -0.6
	2000Hz	0.9	2.8 to -0.4
	1000Hz	0.1	1.1 to -1.1
	500Hz	-3.1	-1.8 to -4.6
	250Hz	-8.5	-7.2 to -10.0
	125Hz	-16.0	-14.6 to -17.6
	63Hz	-26.1	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

### 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 transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

 Checked by : Cuny      Date : 13-5-2022      Certified by : K.T. Leung      Date : 13-5-2022

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

**\*\* End of Report \*\***

Report no.: 212769CA220043

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									
Model No.	: <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Meter</td> <td style="text-align: center;">Microphone</td> <td style="text-align: center;">Preamplifier</td> </tr> <tr> <td style="text-align: center;">CEL-63X</td> <td style="text-align: center;">CE-251</td> <td style="text-align: center;">CEL-495</td> </tr> <tr> <td style="text-align: center;">1488304</td> <td style="text-align: center;">03456</td> <td style="text-align: center;">002850</td> </tr> </table>	Meter	Microphone	Preamplifier	CEL-63X	CE-251	CEL-495	1488304	03456	002850
Meter	Microphone	Preamplifier								
CEL-63X	CE-251	CEL-495								
1488304	03456	002850								
Serial No.	: <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Meter</td> <td style="text-align: center;">Microphone</td> <td style="text-align: center;">Preamplifier</td> </tr> <tr> <td style="text-align: center;">CEL-63X</td> <td style="text-align: center;">CE-251</td> <td style="text-align: center;">CEL-495</td> </tr> <tr> <td style="text-align: center;">1488304</td> <td style="text-align: center;">03456</td> <td style="text-align: center;">002850</td> </tr> </table>	Meter	Microphone	Preamplifier	CEL-63X	CE-251	CEL-495	1488304	03456	002850
Meter	Microphone	Preamplifier								
CEL-63X	CE-251	CEL-495								
1488304	03456	002850								
Equipment ID	: N-62									
Next Calibration Date	: 05-Jan-2023									
Specification Limit	: EN 61672-1: 2003 Class 1									

### Laboratory Information

Details of Reference Equipment -

Description	: B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID.	: R-108-1
Date of Calibration	: 06-Jan-2022
Calibration Location	: Calibration Laboratory of FTS
Method Used	: By direct comparison
Ambient Temperature	: 20±2 °C
Relative Humidity	: <80% R.H.

### Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	2.0	2.6 to -0.6
	2000Hz	1.0	2.8 to -0.4
	1000Hz	-0.5	1.1 to -1.1
	500Hz	-3.9	-1.8 to -4.6
	250Hz	-9.3	-7.2 to -10.0
	125Hz	-16.8	-14.6 to -17.6
	63Hz	-26.9	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.1	± 0.6
	104dB-114dB	0.1	± 0.6

### 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 transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : <u>Cuny</u>	Date : <u>10-1-2022</u>	Certified by : <u>K.H. Leung</u>	Date : <u>11-1-2022</u>
CA-R-297 (22/07/2009)		Leung Kwok Tai (Assistant Manager)	

\*\* End of Report \*\*

Report no.: 212769CA212463

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.	4181568	03133	003967

Equipment ID : N/A  
 Next Calibration Date : 27-Oct-2022  
 Specification Limit : EN 61672-1: 2003 Class 1

### Laboratory Information

#### Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)  
 Equipment ID. : R-108-1

Date of Calibration : 28-Oct-2021

Calibration Location : Calibration Laboratory of FTS      Ambient Temperature : 20±2 °C

Method Used : By direct comparison      Relative Humidity : &lt;80% R.H.

### Calibration Results :

Parameters	Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	1.6      2.6 to -0.6
	2000Hz	1.4      2.8 to -0.4
	1000Hz	0.1      1.1 to -1.1
	500Hz	-3.3      -1.8 to -4.6
	250Hz	-8.6      -7.2 to -10.0
	125Hz	-16.1      -14.6 to -17.6
	63Hz	-26.1      -24.7 to -27.7
Differential level linearity	94dB-104dB	± 0.6
	104dB-114dB	± 0.6

### 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 unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of :

Checked by : Carmy      Date : 3-11-2021      Certified by : K.T. Leung      Date : 4-11-2021  
 CA-R-297 (22/07/2009)      Leung Kwok Tai (Assistant Manager)

\*\* End of Report \*\*

Report no.: 212769CA221230

**CALIBRATION CERTIFICATE OF SOUND CALIBRATOR**

Client : Fugro Technical Services Ltd.

Project : Calibration Services

**Client Supplied Information**

Details of Unit Under Test, UUT

Description : Sound Calibrator  
Manufacturer : Casella (Model CEL-120/1)  
Serial No. : 3321858  
Equipment ID : N/A

Next Calibration Date : 08-Jun-2023

Specification Limit : EN 60942: 2003 Class 1

**Laboratory Information**

Details of Calibration Equipment

Description : Reference Sound level meter  
Equipment ID. : R-119-2

Date of Calibration : 09-Jun-2022

Calibration Location : Calibration Laboratory of FTS Ambient Temperature :  $20 \pm 2$  °C

Method Used : By direct comparison Relative Humidity : &lt; 80 %RH

**Calibration Results :**

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

**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 : Cenny Date : 24-6-2022 Certified by : K.T. Leung Date : 25-6-2022  
CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)**\*\* End of Report \*\***

Report no.: 212769CA220043(2)

Page 1 of 1

## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

### Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Calibrator  
 Manufacturer : Casella (Model CEL-120/1)  
 Serial No. : 4358250  
 Equipment ID : N/A  
 Next Calibration Date : 05-Jan-2023  
 Specification Limit : EN 60942: 2003 Class 1

### Laboratory Information

Description : Reference Sound level meter  
 Equipment ID. : R-119-1  
 Date of Calibration : 06-Jan-2022      Ambient Temperature : 22 °C  
 Calibration Location : Calibration Laboratory of FTS      Relative Humidity : <80% R.H.  
 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	-0.3 dB	

### 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 transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

 Checked by : C. Wong Date : 10-1-2022 Certified by : C. H. Tsang Date : 11-1-2022  
 CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

\*\* End of Report \*\*

Report no.: 212769CA221052

Page 1 of 1

## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd.

Project : Calibration Services

### Client Supplied Information

Details of Unit Under Test, UUT

Description : Sound Calibrator  
 Manufacturer : Casella (Model CEL-120/1)  
 Serial No. : 4358251  
 Equipment ID : N-34

Next Calibration Date : 18-May-2023

Specification Limit : EN 60942: 2003 Class 1

### Laboratory Information

Details of Calibration Equipment

Description : Reference Sound level meter  
 Equipment ID. : R-119-2

Date of Calibration : 19-May-2022

 Calibration Location : Calibration Laboratory of FTS      Ambient Temperature :  $20 \pm 2$  °C

Method Used : By direct comparison      Relative Humidity : &lt; 80% R.H.

### Calibration Results :

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

### 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 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 : Cenny      Date : 31-5-2022      Certified by : K.T. Leung      Date : 31-5-2022

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

**\*\* End of Report \*\***



## CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd.

Project : Calibration Services

### Client Supplied Information

#### Details of Unit Under Test, UUT

Description : Acoustic Calibrator  
 Manufacturer : Casella (Model CEL-120/1)  
 Serial No. : 5230758  
 Equipment ID : N/A  
 Next Calibration Date : 27-Jul-2023  
 Specification Limit : EN 60942: 2003 Class 1

### Laboratory Information

#### Details of Calibration Equipment

Description : Reference Sound level meter  
 Equipment ID. : R-119-2  
 Date of UUT receipt : 25-Jul-2022  
 Date of Calibration : 28-Jul-2022  
 Calibration Location : Calibration Laboratory of FTS      Ambient Temperature : 20±2 °C  
 Method Used : By direct comparison      Relative Humidity : <80% R.H.

#### Calibration Results :

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

#### 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. A general inspection of the item has been carried out and found the item is in good working conditions.  
 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 will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the

Checked by : SLA      Date : 1-8-2022      Certified by : Leung Kwok Tai      Date : 2-8-2022  
 CA-R-297 (22/07/2009)      Leung Kwok Tai (Assistant Manager)

\*\* End of Report \*\*

## **FUGRO TECHNICAL SERVICES LIMITED**

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



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### **Appendix E**

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Aug-22			1	2	3	4	5
				AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che 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 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26		
		7	8	9	10	11	12
			AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate				AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che 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 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26			
		14	15	16	17	18	19
						AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che 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 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26
		21	22	23	24	25	26
					AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che 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 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	
		28	29	30	31		
				AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che 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 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26			

- Remark
- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
  - The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.
  - According to the Hong Kong Observatory, anticipated wind directions in August 2022 are southwest.
  - According to the Contractor, the anticipated major construction activities in the reporting month includes:
    - Trial pits excavation in Zone 1 and 2;
    - Tree Works (preservation / felling/ pruning/ transplantation) in Zone 1, 2 and 3;
    - Road surface Maintenance in Zone 1, 2, 3, 4 and 5;
    - Noise Barrier Foundation Works in Zone 1, 4 and 5;
    - Piling Construction Works in Zone 1, 3, 4 and 5;
    - Slope Reinstatement and Drainage Works in Zone 1;
    - Noise Barrier Erection Works in Zone 1, 2 and 5;
    - Reinstatement of footpath and cycle track in Zone 3;
    - Construction of Pump Room and Drainage Works in Zone 3;
    - Construction of Retaining Wall and Erection of Parapet in Zone 3;
    - Staircase Construction Works for Lift no.2 + SR5 Foundation Works + Construction of abutment Wall in Zone 3;
    - Construction Works for N263 & N264 Bridge Deck Widening in Zone 3;
    - Construction of New Abutment Wall in Zone 3;
    - Demolition of Central median + Road Diversion + Asphalt Works in Zone 3;
    - Foundation Works for Lift no.1 in Zone 3;
    - Construction Works N262 Bridge Deck Widening in Zone 3;
    - Demolition of Parapet in Zone 3;
    - Road Drainage Works + Noise Barrier Erection Works in Zone 4;
    - NF66 Bridge Construction Works in Zone 5;
    - Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope in Zone 5;
    - Reinstatement Works for Slip Road 7 in Zone 5;
    - ELS and Drainage Works in Zone 5.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1	2
							3
	4		5	6	7	8	9
		AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che					AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26				
	11		12	13	14	15	16
						AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26
	18		19	20	21	22	23
					AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	
	25		26	27	28	29	30
				AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26		

Remark

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.
3. According to the Hong Kong Observatory, anticipated wind directions in September 2022 are north, north east and east.
4. According to the Contractor, the anticipated major construction activities in the reporting month includes:
  - (1) Trial pits excavation in Zone 1 and Zone 2
  - (2) Tree Works (including preservation / felling/ pruning/ transplanted) in Zone 1, Zone 2 and Zone 3
  - (3) Road surface Maintenance in Zone 1, Zone 2, Zone 3, Zone 4 and Zone 5
  - (4) Noise Barrier Foundation Works in Zone 1, Zone 4 and Zone 5
  - (5) Piling Construction Works in Zone 1, Zone 3, Zone 4 and Zone 5
  - (6) Slope Reinstatement and Drainage Works in Zone 1
  - (7) Noise Barrier Erection Works in Zone 1, Zone 2, Zone 4 and Zone 5
  - (8) Relocation of Existing Fire Hydrants and relating Watermains in Zone 1, Zone 2, Zone 3, Zone 4 and Zone 5
  - (9) Reinstatement of footpath and cycle track in Zone 3
  - (10) Construction of Pump Room and Drainage Works in Zone 3
  - (11) Construction of Retaining Wall and Erection of Parapet in Zone 3
  - (12) Staircase Construction Works for Lift no.2 + SR5 Foundation Works + Construction of [former staircase] Abutment Wall in Zone 3
  - (13) Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Central median + Road Diversion + Asphalt Works in Zone 3
  - (14) Foundation Works for Lift no.1 in Zone 3
  - (15) Construction Works N262 Bridge Deck Widening in Zone 3
  - (16) Demolition of Parapet in Zone 3
  - (17) Removal of Sign Gantries in Zone 3
  - (18) Cut and Removal of Existing Beam of STRCR in Zone 3
  - (19) Road Drainage Works in Zone 4
  - (20) NF66 Bridge Construction Works in Zone 5
  - (21) Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope in Zone 5
  - (22) Reinstatement Works for Slip Road 7 in Zone 5
  - (23) ELS and Drainage Works in Zone 5

# FUGRO TECHNICAL SERVICES LIMITED

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1-15 Kwai Fung Crescent, Kwai Fong,  
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Email : mcl@fugro.com



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

### Tentative Regular Night Time Noise Monitoring Schedule (August 2022) (rev.1)

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

#### Remarks

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

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

### Tentative Regular Night Time Noise Monitoring Schedule (September 2022)

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

#### Remarks

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

# 沙田崇真學校

## 2021 - 22 年度校曆表

27/8/2021 更新

九							四						
日	一	二	三	四	五	六	日	一	二	三	四	五	六
			1	2	3	4						1	2
5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	17	18	19	20	21	22	23
26	27	28	29	30			24	25	26	27	28	29	30
上學期開始(1/9) P. 2-6 半天上課 (1-8/9) P. 1 半天上課 (1-10/9)							家長日(2/4) 清明節(5/4) 福音周及復活節崇拜 (7-8/4) 復活節假期(11/4-19/4)						
中秋節翌日(22/9)							錄排日(28/4)校慶崇拜及晚會(29/4)						
國慶日(1/10)							勞動節(1/5)勞動節補假(2/5) 零功課日(5/5) 佛誕補假(9/5)						
3	4	5	6	7	8	9	8	9	10	11	12	13	14
10	11	12	13	14	15	16	15	16	17	18	19	20	21
17	18	19	20	21	22	23	22	23	24	25	26	27	28
24	25	26	27	28	29	30	29	30	31				
31													
零功課日(11/10)重陽節 (14/10)							預考周(23/5-30/5) 一至六年級考試(31/5-7/6)						
預考周(8/11-16/11) 一至六年級考試(17/11-23/11)							端午節(3/6) 全港性系統評估 (8-9/6) 教師專業發展日(13/6) 畢業禮(30/6)						
1	2	3	4	5	6		5	6	7	8	9	10	11
7	8	9	10	11	12	13	12	13	14	15	16	17	18
14	15	16	17	18	19	20	19	20	21	22	23	24	25
21	22	23	24	25	26	27	26	27	28	29	30		
28	29	30											
全方位活動日 (2/12) 學校假期(3/12)							香港特區成立紀念日 (1/7)						
5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	17	18	19	20	21	22	23
26	27	28	29	30	31		24	25	26	27	28	29	30
							31						
聖誕崇拜 (17/12) 立法會選舉翌日假期(20/12) 陸運會 (21/12) 聖誕及新年假期(22/12-2/1)							教師專業發展日(15/7) 暑假(16/7-31/8)						
六年級教育營(3-5/1) 一至五級專題研習周(3-6/1) 教師專業發展日(7/1) P. 6 家長日(8/1) P. 1-5 家長日(15/1) 零功課日(19/1) 跨學科活動日 (27/1)													
農曆新年假期(28/1-8/2) 下學期開始(9/2)							綠色為半天上課日 橙色為延伸學習活動課(周三) 紅色為公眾假期 本年度上課日數：190 日 學校假期：88 日 學校自決假期：3 日 周六及日(不包長假期)：81 日 教師專業發展日：3 日 合計：365 日						
6	7	8	9	10	11	12	6	7	8	9	10	11	12
13	14	15	16	17	18	19	13	14	15	16	17	18	19
20	21	22	23	24	25	26	20	21	22	23	24	25	26
27	28						27	28	29	30	31		
預考周(14/2-22/2) 六年級報分試(23/2-1/3) 一至五年級主科考試(28/2-1/3)							學校假期 學校自決假期						
學校旅行(17/3) 學校假期(18/3)							7/1 13/6 15/7 教師專業發展日						
學校籌款日 (27/3) 學校假期(28/3)													

新界沙田瀝源邨

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電話：3576 3344

傳真：2609 0597

校長姓名：洪細君女士

校長簽署：\_\_\_\_\_

日期：27-8-2021

# 聖公會主風小學 2021-2022 年度下學期校曆表

週次	月份	星期							行事要項	假期日數
		日	一	二	三	四	五	六		
① ② ③	2022 一 月							1	1/1 元旦	1
		2	3	4	5	6	7	8		
		9	10	11	12	13	14	15		
		16	17*	18*	19	20	21	22	17/1 下學期開始	
		23	24	25	26*	27*	28	29	18/1、26/1 及 27/1 教育日營(J.6) 27/1 旅行日(J.1-J.5)	
		30	31						31/1-10/2 農曆新年假期	1
④ ⑤ ⑥ ⑦	二 月			1	2	3	4	5		5 5
		6	7	8	9	10	11	12		
		13	14	15	16	17	18	19		
		20	21	22	23	24	25	26		
		27	28							
⑧ ⑨ ⑩ ⑪	三 月			1	2	3	4	5		
		6	7	8	9	10	11	12		
		13	14	15	16	17	18	19		
		20	21	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	26	22/3-25/3 進展性評估(J.6 呈分試)	
		27	28	29	30	31				
⑫ ⑬ ⑭ ⑮	四 月						1	2		
		3	4	5	6	7	8	9	5/4 清明節	1
		10	11*	12	13*	14	15	16	11/4 升中選校家長會(晚上)(J.6)	3
		17	18	19	20	21	22	23	13/4 教師專業發展日 14/4-23/4 復活節假期	7
		24	25	26	27	28	29*	30	29/4 下學期家長日(J.1-J.5)	
⑯ ⑰ ⑱ ⑳	五 月	1	2	3	4	5	6	7	1/5 勞動節 2/5 勞動節翌日	1
		8	9	10	11	12	13	14	8/5 佛誕 9/5 佛誕翌日	1
		15	16	17	18	19	20	21		
		22	23	24	25	26	27	28		
		29	30	31						
㉑ ㉒ ㉓ ㉔	六 月			<u>1</u>	<u>2</u>	3	4		3/6 端午節	1
		5	<u>6</u>	<u>7</u>	8	9	10	11	1/6-2/6 及 6/6-7/6 下學期學期試 (J.5 呈分試)	
		12	13	14	15	16	17	18		
		19	20	21	22	23	24	25		
		26	27	28	29	30				
㉕ ㉖	七 月						1	2	1/7 香港特別行政區成立紀念日	1
		3	4	5	6	7	8	9*	9/7 畢業典禮	
		10	11	12	13	14	15	16	15/7-31/8 暑假	48
		17	18	19	20	21	22	23		

附註： □代表假期    \*代表特別事宜



# 培英中學2021至2022年度校曆表

		日	一	二	三	四	五	六	假期及注意事項
27	三	27	28	Mar 1	2	3	4	5	(5/3)家長日暨中三升中四選科講座
28	月	6	7	8	9	10	⓪ 11	12	(10/3)中六級習禮及感恩惜別會 (11/3)「學校起動」聯校教師專業發展日
29		13	14	15	16	17	18	19	(14/3)中六級開始溫習應付公開試 (中旬/3-20/5)香港中學文憑考試 (18/3)頒獎禮
30		20	21	22	23	24	25	26	(21-25/3)科學周
31		27	28 <sup>T</sup>	29 <sup>T</sup>	30 <sup>T</sup>	31 <sup>T</sup>	Apr 1 <sup>T</sup>	2	(28/3-1/4)中一至中五級統一測驗
32	四	3	4	(5)	6	7	8	9	(5/4)清明節假期 (6/4或7/4)中三級全港性系統評估口試 (8/4)復活節崇拜會 (8/4)TSA口試後備日
33	月	10	11	12	13	(14)	(15)	(16)	(14-19/4)復活節假期共6天
34		(17)	(18)	(19)	20	21	22 <sup>△</sup>	23	(22/4)校祖日感恩崇拜暨慶祝活動
35		24	25	26	27	28	29 <sup>△</sup>	30	(25-28/4)科技周 (29/4)全方位學習日
36		五	May (1)	(2)	3	4	5	6	7
37	月	(8)	(9)	10	11	12	13	14	(9/5)佛誕日翌日假期
38		15	16	17	18	19	20 <sup>△</sup>	21	(20/5下午)畢業典禮 (20/5晚上)歡送畢業生暨校友會迎新晚會
39		22	23	24	25	26	27	28	(23-27/5)體育周 (27/5)畢業禮後備日
40		六	29	30	31	Jun 1	2	(3)	4
41	月	5	6 <sup>E</sup>	7 <sup>E</sup>	8 <sup>E</sup>	9 <sup>E</sup>	10 <sup>E</sup>	11	(6-15/6)中一至中五級下學期考試共8天
42		12	13 <sup>E</sup>	14 <sup>E</sup>	15 <sup>E</sup>	16	17	18	(16-20/6)中一至中四級試後回饋日 (16-30/6)中五級試後上課周 (15-16/6)中三級全港性系統評估(中英數) (17/6下午)中五級學習概覽寫作工作坊
43		19	20	21	22	23	24	25	(20/6)中三級全港性系統評估(後備日) (21-23/6)中一至中五級溫習及補考
44		26	27	28	29	30	Jul (1)	2	(1/7)香港特別行政區成立紀念日假期 (27/6-8/7)暑期英語營
45	七	3	4	5	6	7	8	9	
46		10	11	12	13	(14)	(15)	(16)	(12/7)中六級中學文憑考試放榜輔導講座 (13/7)結業禮 (13/7)接見家長及學生 (14/7-31/8)暑假共49天
47		(17)	(18)	(19)	(20)	(21)	(22)	(23)	(20/7)香港中學文憑考試放榜
48		(24)	(25)	(26)	(27)	(28)	(29)	(30)	
49	八	Aug (31)	(1)	(2)	(3)	(4)	(5)	(6)	
50		(7)	(8)	(9)	(10)	(11)	(12)	(13)	(8-19/8)中六級香港中學文憑考試備試課程
51		(14)	(15)	(16)	(17)	(18)	(19)	(20)	(15/8)學生註冊及領取書籍校服 (15-26/8)升中導向課程
52		(21)	(22)	(23)	(24)	(25)	(26)	(27)	
53	九月	(28)	(29)	(30)	(31)	Sept 1	2	3	(1/9)開學禮 (2/9)正式上課

週日	週一	週二	週三	週四	週五	週六
31	1	2	3	4	5	6
Summer Vacation						
7	8	9	10	11	12	13
Summer Vacation						
	Summer Academic					
14	15	16	17	18	19	20
Summer Vacation						
21	22	23	24	25	26	27
Summer Vacation						
28	29	30	31	1	2	3
Summer Vacation						

## **FUGRO TECHNICAL SERVICES LIMITED**

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### **Appendix F**

#### **Air Quality Monitoring Data**

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

**AMS 4A - Wai Wah Centre (Site Boundary)**

Date and Time	TSP Concentration (µg/m³)
02-08-22 08:13	45
02-08-22 09:13	39
02-08-22 10:13	37
02-08-22 11:13	43
02-08-22 12:13	47
02-08-22 13:13	49
02-08-22 14:13	47
02-08-22 15:13	49
02-08-22 16:13	45
02-08-22 17:13	45
02-08-22 18:13	41
02-08-22 19:13	37
02-08-22 20:13	41
02-08-22 21:13	39
02-08-22 22:13	39
02-08-22 23:13	39
03-08-22 00:13	43
03-08-22 01:13	47
03-08-22 02:13	43
03-08-22 03:13	47
03-08-22 04:13	47
03-08-22 05:13	45
03-08-22 06:13	39
03-08-22 07:13	39
Average	43
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
08-08-22 08:02	45
08-08-22 09:02	42
08-08-22 10:02	43
08-08-22 11:02	42
08-08-22 12:02	54
08-08-22 13:02	57
08-08-22 14:02	55
08-08-22 15:02	39
08-08-22 16:02	36
08-08-22 17:02	50
08-08-22 18:02	47
08-08-22 19:02	49
08-08-22 20:02	42
08-08-22 21:02	36
08-08-22 22:02	40
08-08-22 23:02	51
09-08-22 00:02	38
09-08-22 01:02	33
09-08-22 02:02	31
09-08-22 03:02	35
09-08-22 04:02	38
09-08-22 05:02	38
09-08-22 06:02	34
09-08-22 07:02	38
Average	42
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
13-08-22 08:08	47
13-08-22 09:08	47
13-08-22 10:08	47
13-08-22 11:08	43
13-08-22 12:08	47
13-08-22 13:08	45
13-08-22 14:08	43
13-08-22 15:08	39
13-08-22 16:08	41
13-08-22 17:08	45
13-08-22 18:08	45
13-08-22 19:08	37
13-08-22 20:08	35
13-08-22 21:08	37
13-08-22 22:08	33
13-08-22 23:08	33
14-08-22 00:08	37
14-08-22 01:08	39
14-08-22 02:08	37
14-08-22 03:08	41
14-08-22 04:08	43
14-08-22 05:08	47
14-08-22 06:08	45
14-08-22 07:08	41
Average	41
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
19-08-22 08:10	37
19-08-22 09:10	39
19-08-22 10:10	33
19-08-22 11:10	33
19-08-22 12:10	35
19-08-22 13:10	39
19-08-22 14:10	43
19-08-22 15:10	37
19-08-22 16:10	41
19-08-22 17:10	35
19-08-22 18:10	41
19-08-22 19:10	37
19-08-22 20:10	33
19-08-22 21:10	33
19-08-22 22:10	37
19-08-22 23:10	33
20-08-22 00:10	37
20-08-22 01:10	37
20-08-22 02:10	37
20-08-22 03:10	41
20-08-22 04:10	39
20-08-22 05:10	39
20-08-22 06:10	39
20-08-22 07:10	39
Average	37
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
25-08-22 08:12	43
25-08-22 09:12	41
25-08-22 10:12	47
25-08-22 11:12	39
25-08-22 12:12	45
25-08-22 13:12	47
25-08-22 14:12	47
25-08-22 15:12	45
25-08-22 16:12	43
25-08-22 17:12	41
25-08-22 18:12	37
25-08-22 19:12	37
25-08-22 20:12	39
25-08-22 21:12	37
25-08-22 22:12	33
25-08-22 23:12	37
26-08-22 00:12	41
26-08-22 01:12	43
26-08-22 02:12	43
26-08-22 03:12	47
26-08-22 04:12	39
26-08-22 05:12	37
26-08-22 06:12	39
26-08-22 07:12	37
Average	41
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
30-08-22 08:08	43
30-08-22 09:08	45
30-08-22 10:08	49
30-08-22 11:08	49
30-08-22 12:08	43
30-08-22 13:08	41
30-08-22 14:08	41
30-08-22 15:08	39
30-08-22 16:08	43
30-08-22 17:08	37
30-08-22 18:08	35
30-08-22 19:08	39
30-08-22 20:08	35
30-08-22 21:08	35
30-08-22 22:08	37
30-08-22 23:08	39
31-08-22 00:08	43
31-08-22 01:08	47
31-08-22 02:08	39
31-08-22 03:08	39
31-08-22 04:08	43
31-08-22 05:08	43
31-08-22 06:08	45
31-08-22 07:08	47
Average	42
Action Level	200
Limit Level	260

- 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.

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

**AMS7A - Sheung Wo Che**

Date and Time	TSP Concentration (µg/m³)
02-08-22 08:02	44
02-08-22 09:02	39
02-08-22 10:02	39
02-08-22 11:02	46
02-08-22 12:02	51
02-08-22 13:02	48
02-08-22 14:02	46
02-08-22 15:02	48
02-08-22 16:02	46
02-08-22 17:02	44
02-08-22 18:02	39
02-08-22 19:02	44
02-08-22 20:02	41
02-08-22 21:02	37
02-08-22 22:02	39
02-08-22 23:02	37
03-08-22 00:02	41
03-08-22 01:02	44
03-08-22 02:02	39
03-08-22 03:02	39
03-08-22 04:02	44
03-08-22 05:02	41
03-08-22 06:02	46
03-08-22 07:02	44
Average	43
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
08-08-22 07:54	47
08-08-22 08:54	51
08-08-22 09:54	50
08-08-22 10:54	47
08-08-22 11:54	49
08-08-22 12:54	50
08-08-22 13:54	43
08-08-22 14:54	44
08-08-22 15:54	43
08-08-22 16:54	40
08-08-22 17:54	36
08-08-22 18:54	43
08-08-22 19:54	44
08-08-22 20:54	46
08-08-22 21:54	46
08-08-22 22:54	43
08-08-22 23:54	39
09-08-22 00:54	39
09-08-22 01:54	41
09-08-22 02:54	45
09-08-22 03:54	43
09-08-22 04:54	47
09-08-22 05:54	44
09-08-22 06:54	45
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
13-08-22 07:54	44
13-08-22 08:54	46
13-08-22 09:54	44
13-08-22 10:54	41
13-08-22 11:54	41
13-08-22 12:54	39
13-08-22 13:54	46
13-08-22 14:54	41
13-08-22 15:54	48
13-08-22 16:54	51
13-08-22 17:54	46
13-08-22 18:54	44
13-08-22 19:54	39
13-08-22 20:54	34
13-08-22 21:54	34
13-08-22 22:54	39
13-08-22 23:54	37
14-08-22 00:54	41
14-08-22 01:54	46
14-08-22 02:54	41
14-08-22 03:54	44
14-08-22 04:54	44
14-08-22 05:54	46
14-08-22 06:54	44
Average	43
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
19-08-22 08:00	37
19-08-22 09:00	37
19-08-22 10:00	41
19-08-22 11:00	37
19-08-22 12:00	39
19-08-22 13:00	37
19-08-22 14:00	39
19-08-22 15:00	39
19-08-22 16:00	41
19-08-22 17:00	39
19-08-22 18:00	39
19-08-22 19:00	37
19-08-22 20:00	32
19-08-22 21:00	32
19-08-22 22:00	34
19-08-22 23:00	37
20-08-22 00:00	41
20-08-22 01:00	41
20-08-22 02:00	37
20-08-22 03:00	37
20-08-22 04:00	39
20-08-22 05:00	37
20-08-22 06:00	39
20-08-22 07:00	37
Average	38
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
25-08-22 08:03	51
25-08-22 09:03	46
25-08-22 10:03	53
25-08-22 11:03	51
25-08-22 12:03	46
25-08-22 13:03	44
25-08-22 14:03	41
25-08-22 15:03	39
25-08-22 16:03	41
25-08-22 17:03	48
25-08-22 18:03	46
25-08-22 19:03	46
25-08-22 20:03	46
25-08-22 21:03	51
25-08-22 22:03	41
25-08-22 23:03	41
26-08-22 00:03	51
26-08-22 01:03	48
26-08-22 02:03	44
26-08-22 03:03	46
26-08-22 04:03	41
26-08-22 05:03	51
26-08-22 06:03	44
26-08-22 07:03	48
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
30-08-22 08:00	41
30-08-22 09:00	46
30-08-22 10:00	41
30-08-22 11:00	48
30-08-22 12:00	46
30-08-22 13:00	48
30-08-22 14:00	46
30-08-22 15:00	41
30-08-22 16:00	51
30-08-22 17:00	51
30-08-22 18:00	44
30-08-22 19:00	41
30-08-22 20:00	37
30-08-22 21:00	37
30-08-22 22:00	44
30-08-22 23:00	39
31-08-22 00:00	37
31-08-22 01:00	39
31-08-22 02:00	37
31-08-22 03:00	44
31-08-22 04:00	41
31-08-22 05:00	48
31-08-22 06:00	44
31-08-22 07:00	48
Average	43
Action Level	171
Limit Level	260

- 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.

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

**AMS 12 - Fung Wo Estate**

Date and Time	TSP Concentration (µg/m³)
02-08-22 07:49	41
02-08-22 08:49	47
02-08-22 09:49	41
02-08-22 10:49	41
02-08-22 11:49	47
02-08-22 12:49	43
02-08-22 13:49	45
02-08-22 14:49	43
02-08-22 15:49	45
02-08-22 16:49	41
02-08-22 17:49	39
02-08-22 18:49	37
02-08-22 19:49	41
02-08-22 20:49	41
02-08-22 21:49	37
02-08-22 22:49	39
02-08-22 23:49	39
03-08-22 00:49	37
03-08-22 01:49	43
03-08-22 02:49	43
03-08-22 03:49	41
03-08-22 04:49	41
03-08-22 05:49	39
03-08-22 06:49	41
Average	41
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
08-08-22 08:54	45
08-08-22 09:54	43
08-08-22 10:54	47
08-08-22 11:54	45
08-08-22 12:54	48
08-08-22 13:54	45
08-08-22 14:54	42
08-08-22 15:54	46
08-08-22 16:54	46
08-08-22 17:54	45
08-08-22 18:54	43
08-08-22 19:54	43
08-08-22 20:54	41
08-08-22 21:54	47
08-08-22 22:54	43
08-08-22 23:54	40
09-08-22 00:54	40
09-08-22 01:54	45
09-08-22 02:54	43
09-08-22 03:54	47
09-08-22 04:54	43
09-08-22 05:54	48
09-08-22 06:54	43
09-08-22 07:54	38
Average	44
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
13-08-22 07:42	45
13-08-22 08:42	49
13-08-22 09:42	45
13-08-22 10:42	41
13-08-22 11:42	43
13-08-22 12:42	43
13-08-22 13:42	39
13-08-22 14:42	34
13-08-22 15:42	34
13-08-22 16:42	37
13-08-22 17:42	37
13-08-22 18:42	37
13-08-22 19:42	41
13-08-22 20:42	39
13-08-22 21:42	37
13-08-22 22:42	39
13-08-22 23:42	34
14-08-22 00:42	41
14-08-22 01:42	43
14-08-22 02:42	37
14-08-22 03:42	41
14-08-22 04:42	39
14-08-22 05:42	41
14-08-22 06:42	43
Average	40
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
19-08-22 07:47	39
19-08-22 08:47	37
19-08-22 09:47	39
19-08-22 10:47	37
19-08-22 11:47	43
19-08-22 12:47	45
19-08-22 13:47	41
19-08-22 14:47	37
19-08-22 15:47	41
19-08-22 16:47	43
19-08-22 17:47	39
19-08-22 18:47	39
19-08-22 19:47	41
19-08-22 20:47	41
19-08-22 21:47	39
19-08-22 22:47	37
19-08-22 23:47	39
20-08-22 00:47	39
20-08-22 01:47	37
20-08-22 02:47	43
20-08-22 03:47	39
20-08-22 04:47	41
20-08-22 05:47	39
20-08-22 6:47	37
Average	40
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
25-08-22 07:50	47
25-08-22 08:50	49
25-08-22 09:50	45
25-08-22 10:50	43
25-08-22 11:50	45
25-08-22 12:50	39
25-08-22 13:50	43
25-08-22 14:50	41
25-08-22 15:50	37
25-08-22 16:50	39
25-08-22 17:50	37
25-08-22 18:50	39
25-08-22 19:50	39
25-08-22 20:50	41
25-08-22 21:50	43
25-08-22 22:50	43
25-08-22 23:50	41
26-08-22 00:50	39
26-08-22 01:50	37
26-08-22 02:50	39
26-08-22 03:50	43
26-08-22 04:50	43
26-08-22 05:50	41
26-08-22 06:50	43
Average	42
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
30-08-22 07:49	41
30-08-22 08:49	43
30-08-22 09:49	47
30-08-22 10:49	47
30-08-22 11:49	45
30-08-22 12:49	41
30-08-22 13:49	37
30-08-22 14:49	41
30-08-22 15:49	43
30-08-22 16:49	39
30-08-22 17:49	39
30-08-22 18:49	41
30-08-22 19:49	37
30-08-22 20:49	37
30-08-22 21:49	34
30-08-22 22:49	39
30-08-22 23:49	34
31-08-22 00:49	39
31-08-22 01:49	45
31-08-22 02:49	47
31-08-22 03:49	47
31-08-22 04:49	45
31-08-22 05:49	49
31-08-22 06:49	45
Average	42
Action Level	168
Limit Level	260

- 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.

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

**AMS 17 - Wo Che Estate**

Date and Time	TSP Concentration (µg/m³)
02-08-22 07:37	42
02-08-22 08:37	40
02-08-22 09:37	40
02-08-22 10:37	49
02-08-22 11:37	49
02-08-22 12:37	49
02-08-22 13:37	51
02-08-22 14:37	47
02-08-22 15:37	47
02-08-22 16:37	44
02-08-22 17:37	37
02-08-22 18:37	37
02-08-22 19:37	42
02-08-22 20:37	42
02-08-22 21:37	37
02-08-22 22:37	40
02-08-22 23:37	44
03-08-22 00:37	42
03-08-22 01:37	42
03-08-22 02:37	49
03-08-22 03:37	49
03-08-22 04:37	51
03-08-22 05:37	44
03-08-22 06:37	40
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
08-08-22 09:29	52
08-08-22 10:29	50
08-08-22 11:29	51
08-08-22 12:29	50
08-08-22 13:29	50
08-08-22 14:29	51
08-08-22 15:29	52
08-08-22 16:29	51
08-08-22 17:29	50
08-08-22 18:29	50
08-08-22 19:29	51
08-08-22 20:29	53
08-08-22 21:29	48
08-08-22 22:29	49
08-08-22 23:29	46
09-08-22 00:29	47
09-08-22 01:29	50
09-08-22 02:29	46
09-08-22 03:29	50
09-08-22 04:29	49
09-08-22 05:29	52
09-08-22 06:29	49
09-08-22 07:29	52
09-08-22 08:29	50
Average	50
Action Level	171
Limit Level	260

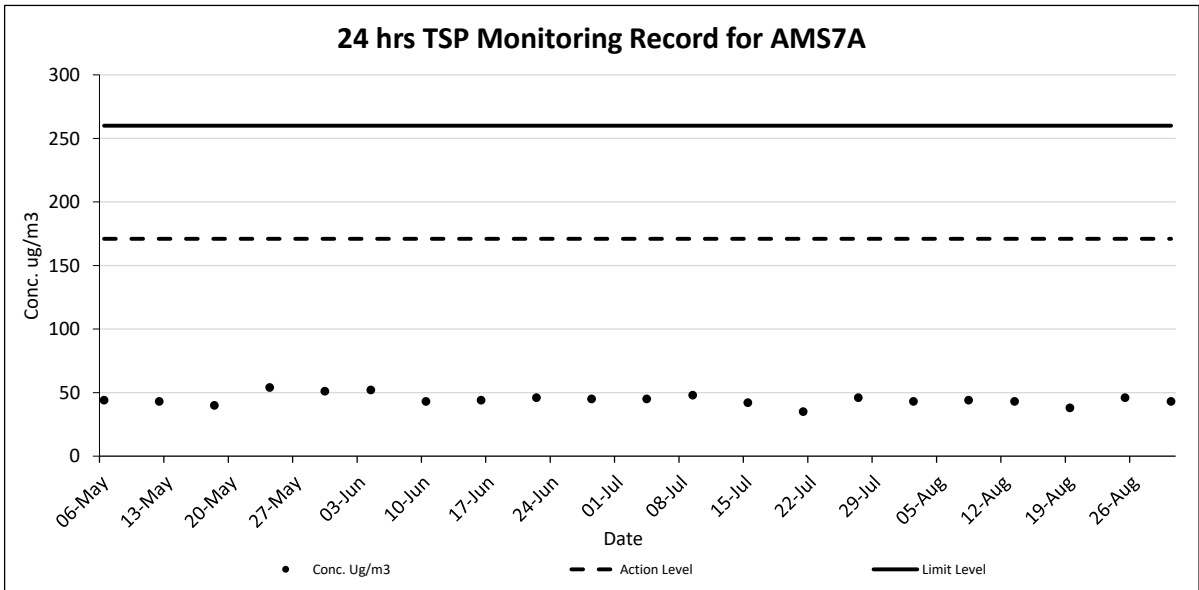
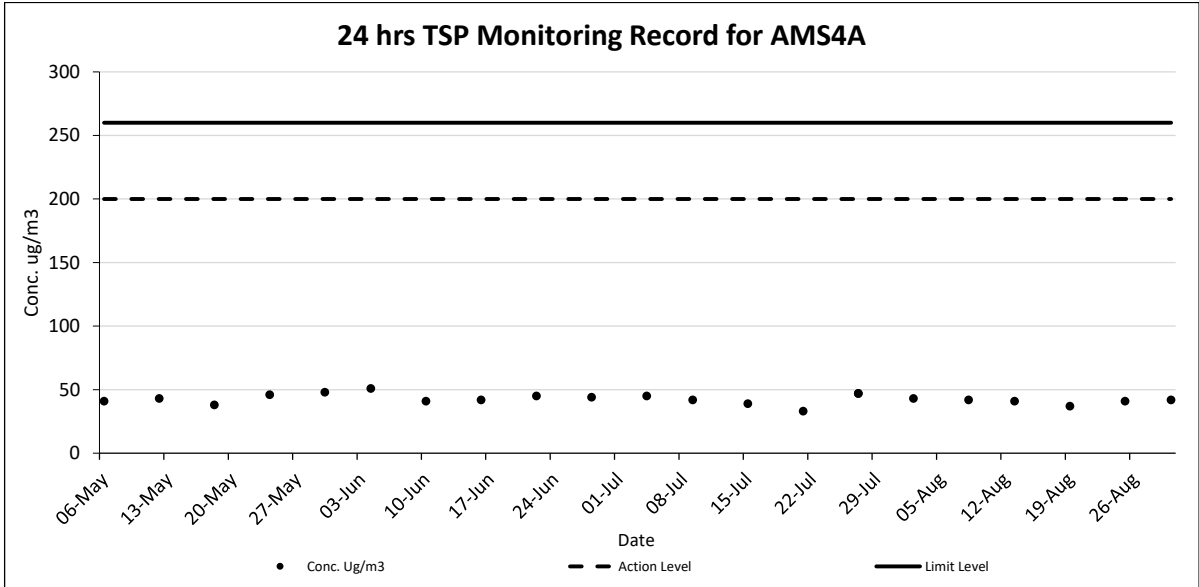
Date and Time	TSP Concentration (µg/m³)
13-08-22 07:34	42
13-08-22 08:34	44
13-08-22 09:34	51
13-08-22 10:34	51
13-08-22 11:34	42
13-08-22 12:34	44
13-08-22 13:34	49
13-08-22 14:34	44
13-08-22 15:34	41
13-08-22 16:34	41
13-08-22 17:34	42
13-08-22 18:34	42
13-08-22 19:34	37
13-08-22 20:34	42
13-08-22 21:34	41
13-08-22 22:34	51
13-08-22 23:34	49
14-08-22 00:34	44
14-08-22 01:34	49
14-08-22 02:34	51
14-08-22 03:34	49
14-08-22 04:34	41
14-08-22 05:34	41
14-08-22 06:34	41
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
19-08-22 07:36	40
19-08-22 08:36	42
19-08-22 09:36	42
19-08-22 10:36	40
19-08-22 11:36	40
19-08-22 12:36	37
19-08-22 13:36	40
19-08-22 14:36	37
19-08-22 15:36	42
19-08-22 16:36	42
19-08-22 17:36	40
19-08-22 18:36	42
19-08-22 19:36	40
19-08-22 20:36	40
19-08-22 21:36	37
19-08-22 22:36	37
19-08-22 23:36	40
20-08-22 00:36	42
20-08-22 01:36	37
20-08-22 02:36	35
20-08-22 03:36	40
20-08-22 04:36	37
20-08-22 05:36	37
20-08-22 06:36	44
Average	40
Action Level	171
Limit Level	260

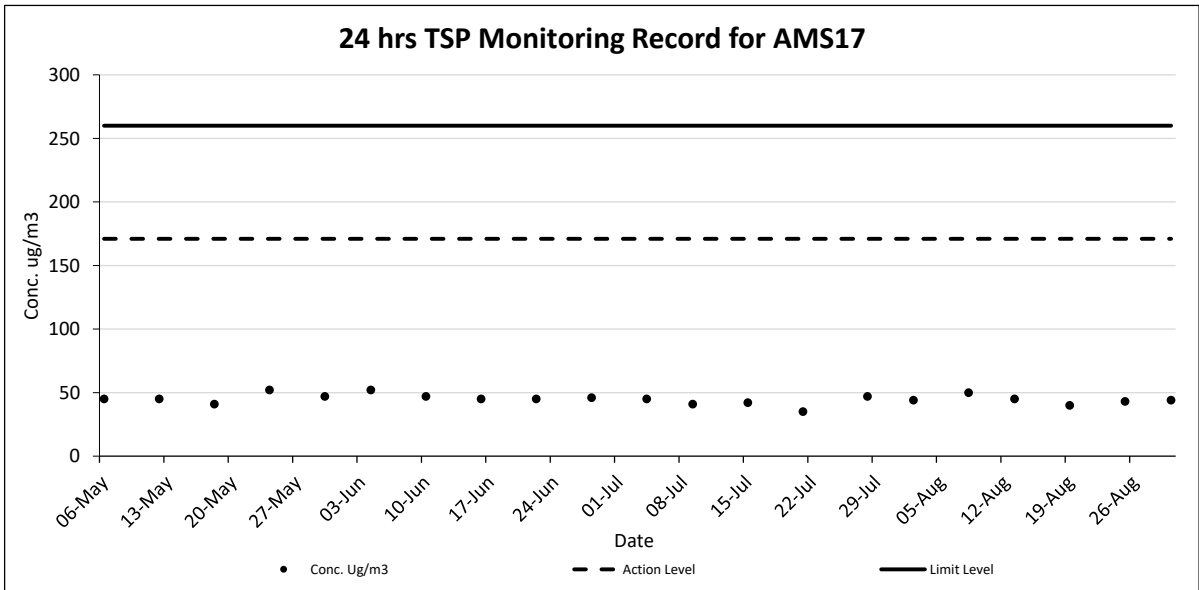
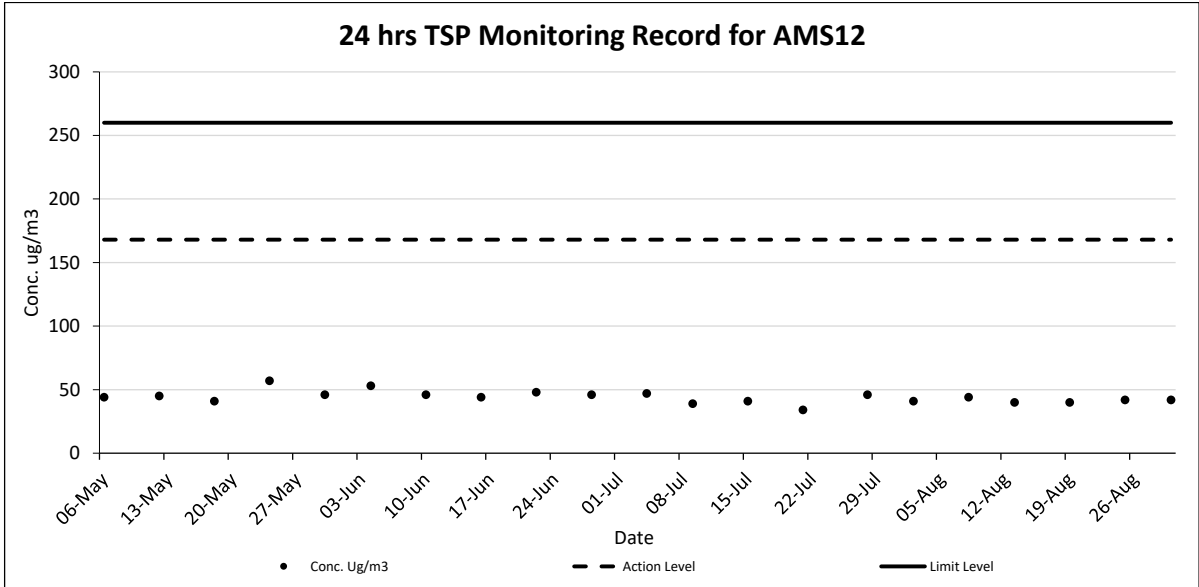
Date and Time	TSP Concentration (µg/m³)
25-08-22 07:38	42
25-08-22 08:38	47
25-08-22 09:38	49
25-08-22 10:38	44
25-08-22 11:38	44
25-08-22 12:38	42
25-08-22 13:38	40
25-08-22 14:38	44
25-08-22 15:38	47
25-08-22 16:38	44
25-08-22 17:38	42
25-08-22 18:38	37
25-08-22 19:38	40
25-08-22 20:38	42
25-08-22 21:38	40
25-08-22 22:38	37
25-08-22 23:38	42
26-08-22 00:38	42
26-08-22 01:38	47
26-08-22 02:38	42
26-08-22 03:38	44
26-08-22 04:38	47
26-08-22 05:38	44
26-08-22 06:38	44
Average	43
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
30-08-22 07:34	47
30-08-22 08:34	42
30-08-22 09:34	47
30-08-22 10:34	49
30-08-22 11:34	49
30-08-22 12:34	40
30-08-22 13:34	40
30-08-22 14:34	42
30-08-22 15:34	42
30-08-22 16:34	44
30-08-22 17:34	40
30-08-22 18:34	40
30-08-22 19:34	42
30-08-22 20:34	44
30-08-22 21:34	44
30-08-22 22:34	49
30-08-22 23:34	42
31-08-22 00:34	44
31-08-22 01:34	47
31-08-22 02:34	40
31-08-22 03:34	40
31-08-22 04:34	44
31-08-22 05:34	47
31-08-22 06:34	47
Average	44
Action Level	171
Limit Level	260

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







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

### AMS4A - Wai Wah Centre

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-22	13:13	49	47	49	48	348	500	Fine
08-Aug-22	12:02	54	57	55	55			Fine
13-Aug-22	08:08	47	47	47	47			Fine
19-Aug-22	14:10	43	37	41	40			Fine
25-Aug-22	12:12	45	47	47	46			Fine
30-Aug-22	09:08	45	49	49	48			Fine
<b>Average</b>		48						
<b>Max</b>		57						
<b>Min</b>		37						

### AMS7A - Sheung Wo Che

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-22	12:02	51	48	46	48	344	500	Fine
08-Aug-22	09:54	50	47	49	49			Fine
13-Aug-22	07:54	44	46	44	45			Fine
19-Aug-22	14:00	39	39	41	40			Fine
25-Aug-22	10:03	53	51	46	50			Fine
30-Aug-22	11:00	48	46	48	47			Fine
<b>Average</b>		46						
<b>Max</b>		53						
<b>Min</b>		39						

### AMS12 - Fung Wo Estate

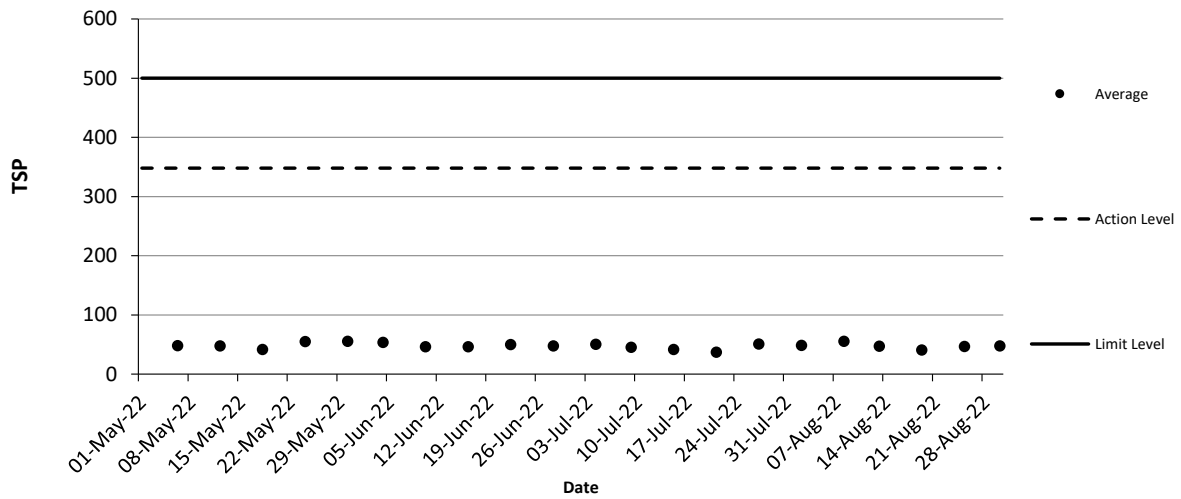
1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-22	11:49	47	43	45	45	296	500	Fine
08-Aug-22	10:54	47	45	48	47			Fine
13-Aug-22	07:42	45	49	45	46			Fine
19-Aug-22	11:47	43	45	41	43			Fine
25-Aug-22	07:50	47	49	45	47			Fine
30-Aug-22	9:49	47	47	45	46			Fine
<b>Average</b>		46						
<b>Max</b>		49						
<b>Min</b>		41						

### AMS17 - Wo Che Estate

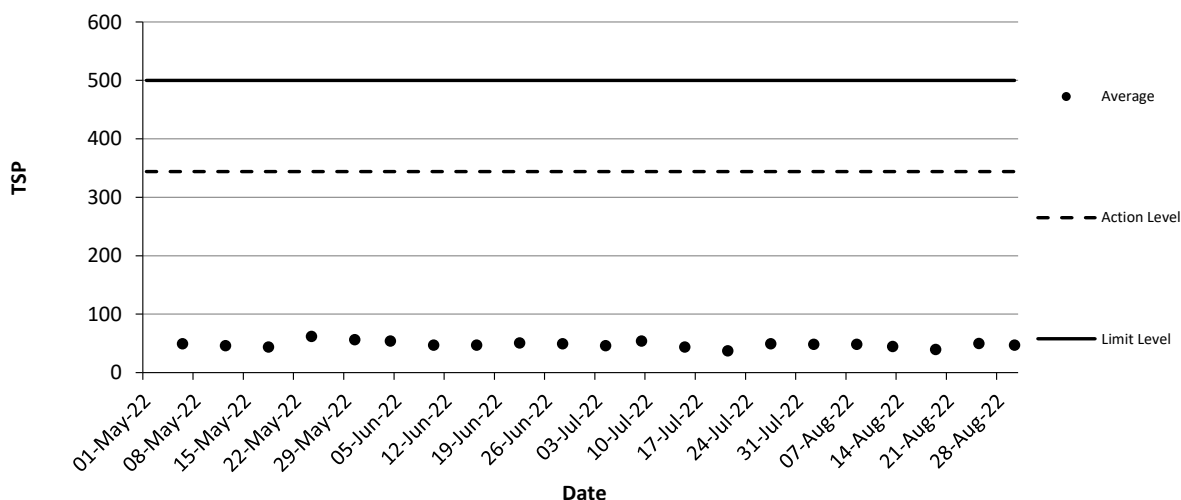
1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-22	11:37	49	49	51	50	338	500	Fine
08-Aug-22	14:29	51	52	51	51			Fine
13-Aug-22	09:34	51	51	42	48			Fine
19-Aug-22	08:36	42	42	40	41			Fine
25-Aug-22	08:38	47	49	44	47			Fine
30-Aug-22	9:34	47	49	49	48			Fine
<b>Average</b>		48						
<b>Max</b>		52						
<b>Min</b>		40						

- 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.

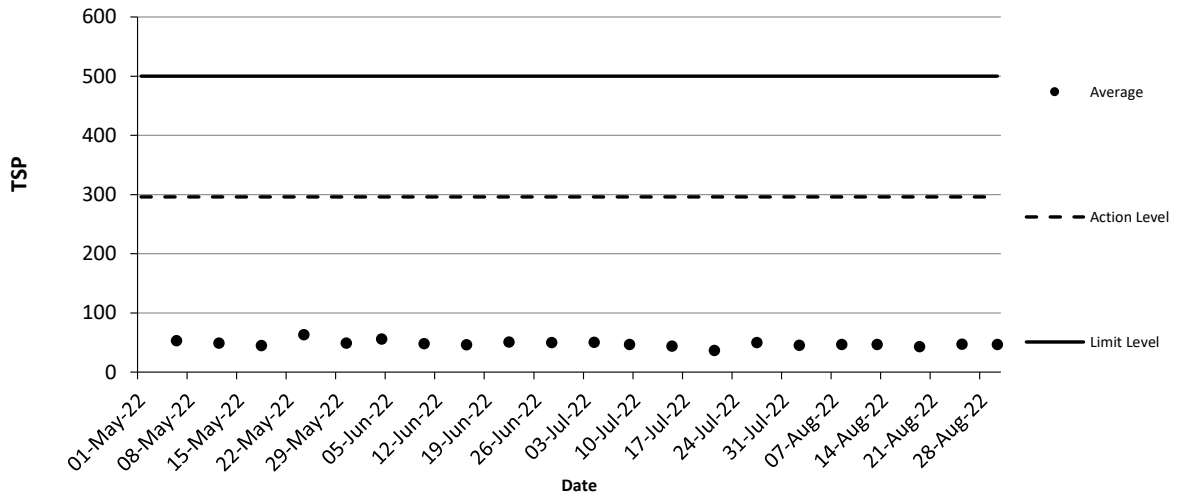
### 1-hr TSP Monitoring record for AMS4A



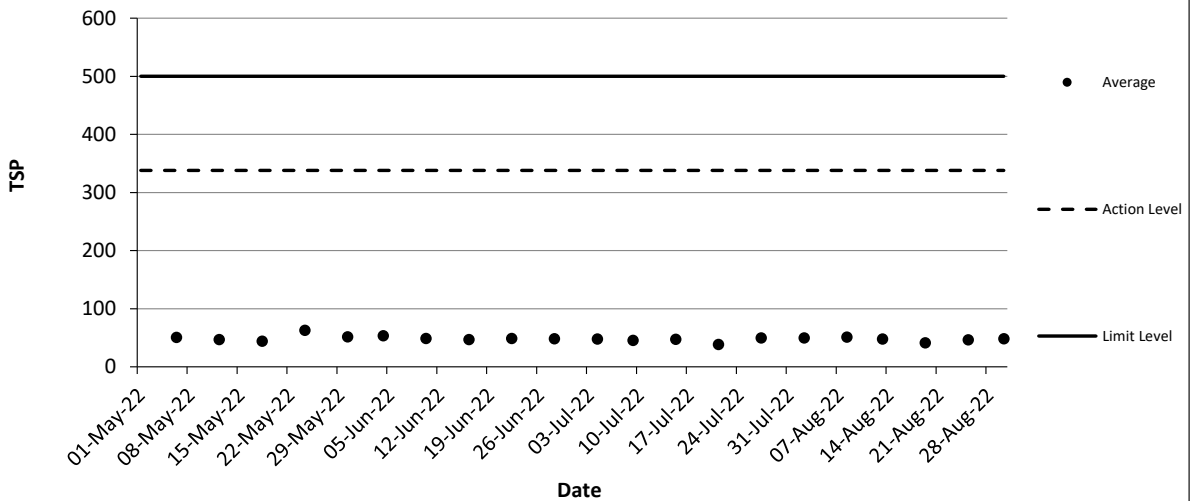
### 1-hr TSP Monitoring record for AMS7A



### 1-hr TSP Monitoring record for AMS12



### 1-hr TSP Monitoring record for AMS17



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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 Section)**

**NMS 1 Scenery Court**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	8:22	58.4	52.5	60.5	75	58.4	Fine	0.3
08-Aug-22	8:32	66.7	62.5	69.0	75	66.7	Fine	0.6
19-Aug-22	8:20	65.6	62.5	68.0	75	65.6	Fine	0.8
25-Aug-22	8:43	66.2	62.0	68.5	75	66.2	Fine	0.0
30-Aug-22	16:55	64.1	61.0	66.0	75	64.1	Fine	0.0

**NMS 2 Villa Le Parc**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	11:02	55.2	50.5	57.5	75	55.2	Fine	0.2
08-Aug-22	9:17	52.4	50.5	54.0	75	52.4	Fine	0.3
19-Aug-22	9:38	56.0	52.0	57.5	75	56.0	Fine	1.2
25-Aug-22	9:37	56.9	53.0	59.0	75	56.9	Fine	0.3
30-Aug-22	8:20	54.5	52.0	56.0	75	54.5	Fine	0.2

**NMS 3 Hilton Plaza**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	9:01	61.2	57.5	63.5	75	61.2	Fine	0.4
08-Aug-22	9:59	69.5	68.0	71.0	75	69.5	Fine	0.4
19-Aug-22	8:56	66.7	64.5	68.5	75	66.7	Fine	1.0
25-Aug-22	10:02	62.5	59.5	66.5	75	62.5	Fine	0.3
30-Aug-22	16:18	65.5	63.5	67.0	75	65.5	Fine	0.0

**NMS 4 Tin Liu**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	13:01	64.7	60.5	67.0	75	64.7	Fine	0.2
08-Aug-22	10:36	67.0	62.5	70.0	75	67.0	Fine	0.5
19-Aug-22	10:22	65.5	63.0	66.5	75	65.5	Fine	0.6
25-Aug-22	10:36	66.0	62.0	68.0	75	66.0	Fine	0.4
30-Aug-22	8:59	64.4	61.5	66.0	75	64.4	Fine	0.2

**NMS 5A Wai Wah Centre (Site Boundary)**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	9:38	71.6	68.5	74.5	75	71.6	Fine	0.6
08-Aug-22	11:17	69.1	67.5	70.5	75	69.1	Fine	0.6
19-Aug-22	16:29	69.4	66.5	71.0	75	69.4	Fine	1.3
25-Aug-22	12:00	70.8	67.5	73.5	75	70.8	Fine	0.2
30-Aug-22	15:42	70.4	67.0	72.0	75	70.4	Fine	0.0

**NMS 6A Wai Wah Centre (Site Boundary)**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	10:13	71.3	68.5	75.0	75	71.3	Fine	0.5
08-Aug-22	13:03	69.9	67.5	71.0	75	69.9	Fine	0.8
19-Aug-22	15:52	73.1	70.0	75.0	75	73.1	Fine	1.1
25-Aug-22	13:37	70.5	68.0	75.5	75	70.5	Fine	0.4
30-Aug-22	15:00	72.5	70.0	74.5	75	72.5	Fine	0.0

If measured noise level (L<sub>eq</sub>) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

### NMS 7 Tin Liu

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	13:36	65.2	61.0	67.5	75	65.2	Fine	0.2
08-Aug-22	13:38	65.6	63.5	67.0	75	65.6	Fine	0.4
19-Aug-22	10:56	64.8	62.0	67.0	75	64.8	Fine	0.8
25-Aug-22	13:42	67.0	64.0	68.5	75	67.0	Fine	0.3
30-Aug-22	9:35	65.6	62.0	67.5	75	65.6	Fine	0.2

### NMS 8 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	9:13	66.2	64.0	68.5	75	66.2	Fine	0.4
09-Aug-22	8:32	65.4	63.5	69.0	75	65.4	Fine	0.4
20-Aug-22	8:29	64.3	61.0	66.0	75	64.3	Fine	0.6
26-Aug-22	8:34	66.7	63.5	69.5	75	66.7	Fine	0.3
31-Aug-22	8:30	64.8	62.0	66.5	75	64.8	Fine	0.4

### NMS 9 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	9:52	62.1	58.5	64.0	75	62.1	Fine	0.2
09-Aug-22	9:48	62.8	59.0	65.5	75	62.8	Fine	0.3
20-Aug-22	9:51	63.7	58.0	66.0	75	63.7	Fine	0.5
26-Aug-22	9:43	64.2	60.5	67.5	75	64.2	Fine	0.0
31-Aug-22	9:48	63.9	59.5	65.5	75	63.9	Fine	0.5

### NMS 10A Shatin Tsung Tsin School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	10:29	63.6	59.5	65.5	70	63.6	Fine	0.2
09-Aug-22	10:33	65.3	60.5	68.0	70	65.3	Fine	0.4
20-Aug-22	10:36	64.4	61.0	66.5	70	64.4	Fine	0.9
26-Aug-22	10:42	64.5	60.5	68.5	70	64.5	Fine	0.7
31-Aug-22	10:27	63.6	60.5	64.5	70	63.6	Fine	0.8

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

### NMS 11 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	9:23	56.3	52.0	58.5	75	56.3	Fine	0.5
09-Aug-22	9:10	62.3	58.0	64.5	75	62.3	Fine	0.3
20-Aug-22	17:10	59.0	55.5	61.5	75	59.0	Fine	0.3
26-Aug-22	9:10	58.2	53.5	59.5	75	58.2	Fine	0.4
31-Aug-22	17:16	60.8	57.0	62.5	75	60.8	Fine	0.7

### NMS 12 SKH Holy Spirit Primary School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	11:08	58.2	54.5	60.5	70	58.2	Fine	0.2
09-Aug-22	11:12	63.5	55.5	67.0	70	63.5	Fine	0.3
20-Aug-22	11:20	61.9	58.5	63.5	70	61.9	Fine	1.1
26-Aug-22	11:27	62.4	59.0	68.5	70	62.4	Fine	0.4
31-Aug-22	11:10	62.3	60.0	64.0	70	62.3	Fine	0.7

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

If measured noise level (L<sub>eq</sub>) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

### NMS 13 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	13:05	60.3	57.5	62.5	75	60.3	Fine	0.2
09-Aug-22	13:15	63.2	59.5	66.0	75	63.2	Fine	0.3
20-Aug-22	13:08	60.5	57.5	62.5	75	60.5	Fine	0.9
26-Aug-22	13:09	61.5	56.5	64.5	75	61.5	Fine	0.5
31-Aug-22	13:00	59.9	56.0	61.5	75	59.9	Fine	0.5

### NMS 14 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	10:00	58.7	54.5	61.0	75	58.7	Fine	0.3
09-Aug-22	10:06	57.6	53.5	62.0	75	57.6	Fine	0.3
20-Aug-22	16:32	58.6	56.0	60.5	75	58.6	Fine	0.4
26-Aug-22	9:46	57.8	53.0	60.5	75	57.8	Fine	0.6
31-Aug-22	16:37	59.8	56.5	61.5	75	59.8	Fine	0.8

### NMS 15 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	14:59	55.8	52.0	58.0	75	55.8	Fine	0.3
08-Aug-22	14:59	59.2	57.5	60.5	75	59.2	Fine	0.5
19-Aug-22	13:54	60.5	56.5	62.0	75	60.5	Fine	0.8
25-Aug-22	14:12	59.6	55.0	62.5	75	59.6	Fine	0.2
30-Aug-22	13:04	62.2	59.0	63.5	75	62.2	Fine	0.0

### NMS 16 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	15:35	60.4	54.5	62.5	75	60.4	Fine	0.2
08-Aug-22	15:37	58.7	53.5	60.5	75	58.7	Fine	0.4
19-Aug-22	14:33	63.0	59.5	65.5	75	63.0	Fine	1.0
25-Aug-22	14:53	60.8	55.0	63.0	75	60.8	Fine	0.2
30-Aug-22	13:40	61.1	58.0	63.0	75	61.1	Fine	0.0

### NMS 17 Shatin Pui Ying College

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	10:46	62.3	60.5	64.0	70	62.3	Fine	0.2
09-Aug-22	10:40	62.8	59.5	64.0	70	62.8	Fine	0.3
20-Aug-22	13:55	63.3	60.0	65.5	70	63.3	Fine	1.0
26-Aug-22	10:30	63.6	60.0	65.5	70	63.6	Fine	0.6
31-Aug-22	13:52	64.0	61.0	66.0	70	64.0	Fine	0.6

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

### NMS 18 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	16:11	66.8	63.5	69.5	75	66.8	Fine	0.2
08-Aug-22	16:14	59.5	57.0	60.5	75	59.5	Fine	0.6
19-Aug-22	15:08	60.8	57.0	63.0	75	60.8	Fine	0.7
25-Aug-22	16:22	65.7	63.8	69.0	75	65.7	Fine	0.3
30-Aug-22	14:14	61.9	56.5	63.5	75	61.9	Fine	0.2

If measured noise level (L<sub>eq</sub>) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$



### NMS 19 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	11:28	65.2	61.5	67.5	75	65.2	Fine	0.7
09-Aug-22	11:35	64.0	61.0	66.0	75	64.0	Fine	0.4
20-Aug-22	14:37	63.8	60.0	65.0	75	63.8	Fine	0.6
26-Aug-22	13:05	64.2	60.5	67.0	75	64.2	Fine	0.8
31-Aug-22	14:40	65.1	60.5	67.0	75	65.1	Fine	0.6

### NMS 20 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	13:15	60.2	57.5	62.0	75	60.2	Fine	0.6
09-Aug-22	15:32	62.5	59.0	64.0	75	62.5	Fine	0.5
20-Aug-22	15:15	62.9	58.0	64.5	75	62.9	Fine	0.6
26-Aug-22	13:42	61.6	57.0	63.5	75	61.6	Fine	0.8
31-Aug-22	15:18	62.5	59.0	64.0	75	62.5	Fine	0.6

### NMS 23 Pai Tau

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	14:14	62.2	58.5	64.5	75	62.2	Fine	0.2
08-Aug-22	14:14	66.6	64.0	68.5	75	66.6	Fine	0.6
19-Aug-22	11:32	62.6	59.0	64.5	75	62.6	Fine	0.6
25-Aug-22	12:45	63.5	60.5	66.5	75	63.5	Fine	0.3
30-Aug-22	10:13	63.0	60.5	64.5	75	63.0	Fine	0.2

### NMS 24 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	13:52	63.9	60.5	66.5	75	63.9	Fine	0.4
09-Aug-22	9:15	62.0	58.5	66.0	75	62.0	Fine	0.4
20-Aug-22	9:08	62.6	59.5	64.5	75	62.6	Fine	0.8
26-Aug-22	10:15	64.0	60.5	68.5	75	64.0	Fine	0.0
31-Aug-22	9:05	62.0	60.0	63.5	75	62.0	Fine	0.4

### NMS 25A Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	8:38	64.6	61.0	66.5	75	64.6	Fine	0.4
09-Aug-22	8:41	64.4	62.0	67.0	75	64.4	Fine	0.6
20-Aug-22	17:53	62.4	60.0	64.5	75	62.4	Fine	0.4
26-Aug-22	8:33	65.9	61.0	68.5	75	65.9	Fine	0.5
31-Aug-22	17:58	63.3	61.0	65.0	75	63.3	Fine	0.8

### NMS 26 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
03-Aug-22	13:58	70.5	67.0	72.0	75	70.5	Fine	0.6
09-Aug-22	14:00	69.6	65.5	72.5	75	69.6	Fine	0.4
20-Aug-22	15:58	70.0	66.5	72.0	75	70.0	Fine	1.0
26-Aug-22	14:25	69.1	66.5	71.0	75	69.1	Fine	0.7
31-Aug-22	15:58	68.9	66.5	70.5	75	68.9	Fine	0.8

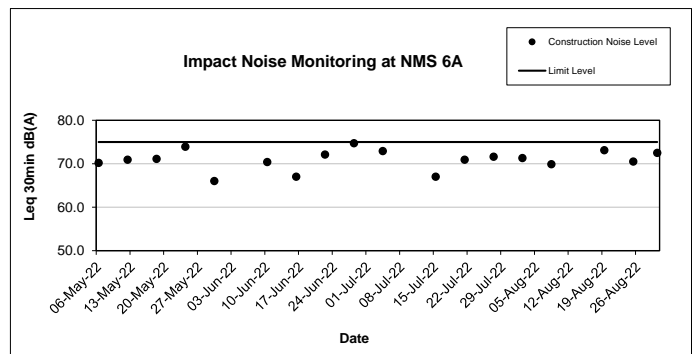
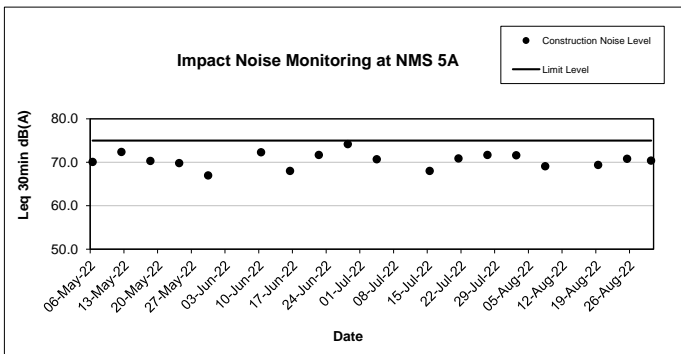
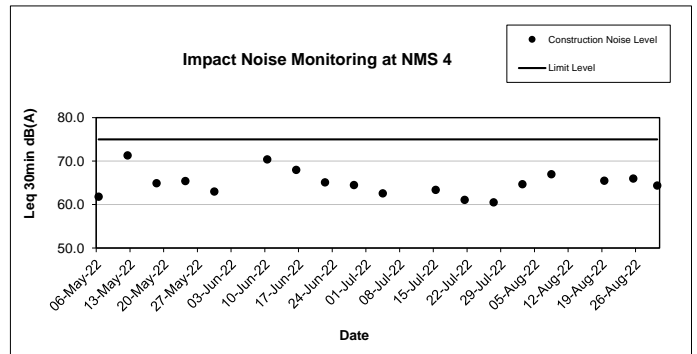
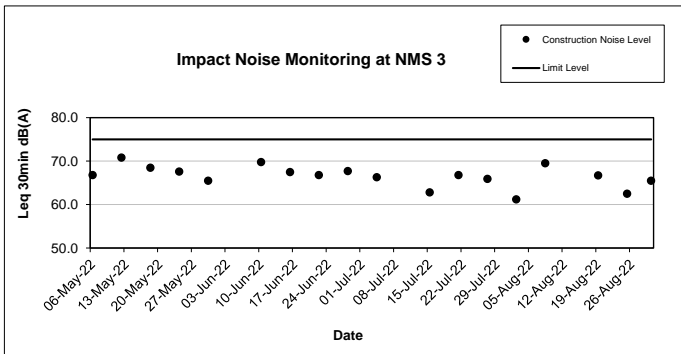
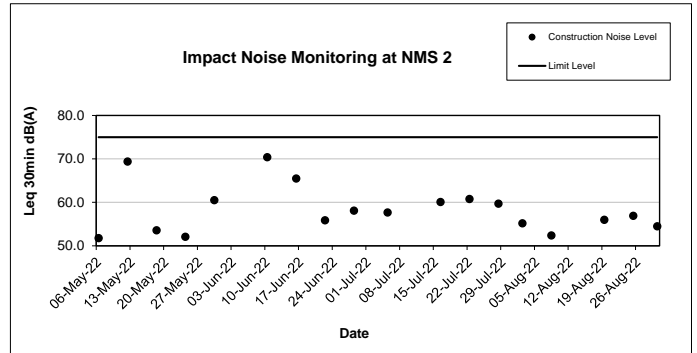
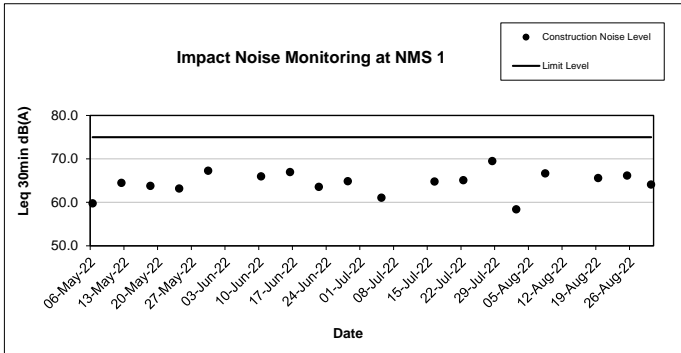
### NMS 27 Jockey Club Ti-I College

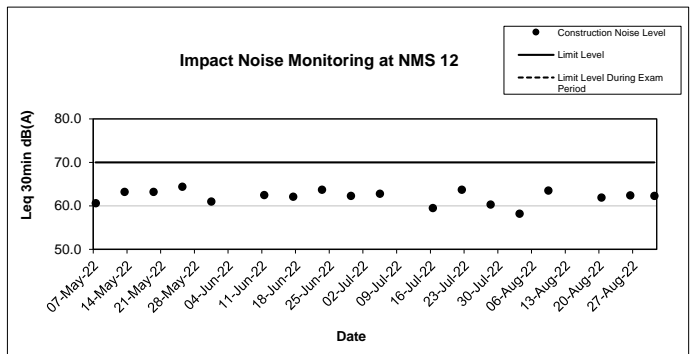
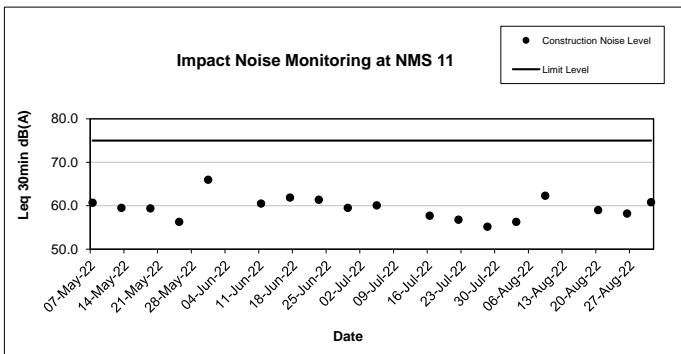
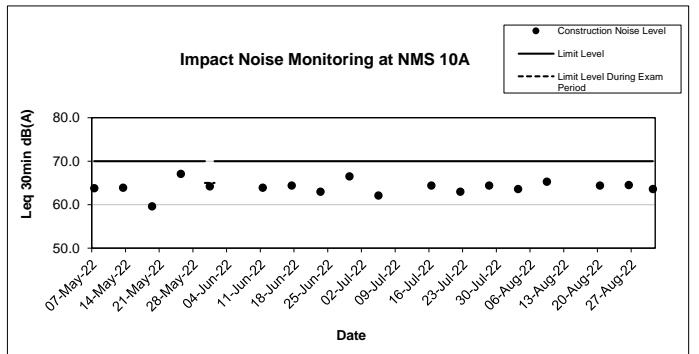
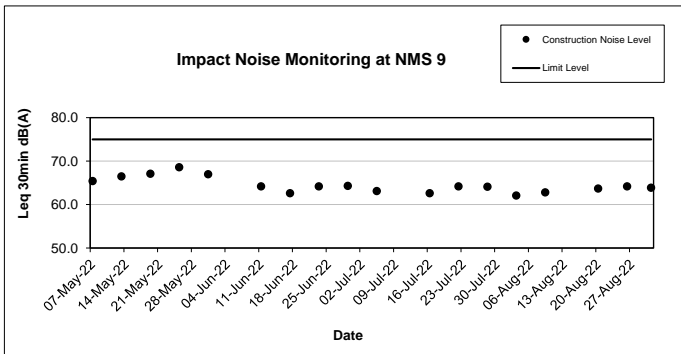
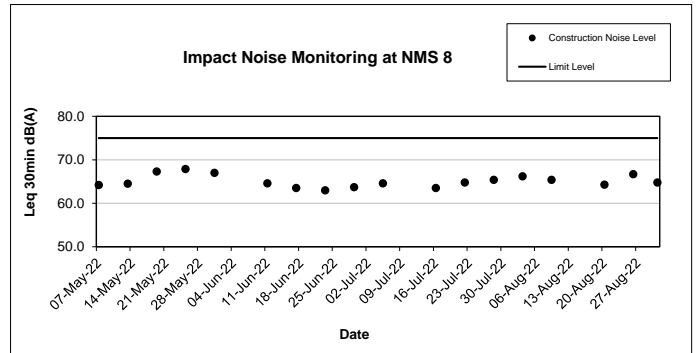
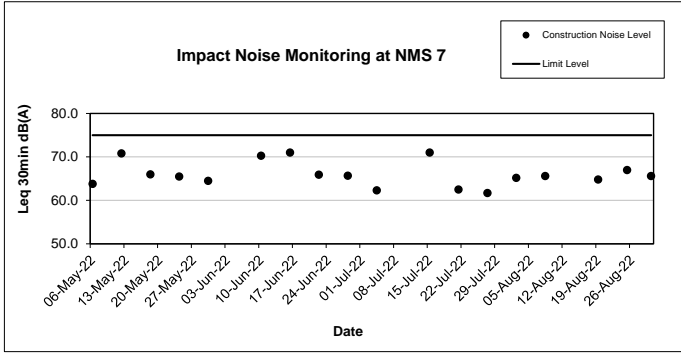
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-22	17:02	63.4	60.5	66.0	70	63.4	Fine	0.4
08-Aug-22	17:02	68.4	64.5	70.5	70	68.4	Fine	0.6
19-Aug-22	13:00	64.5	60.5	66.5	70	64.5	Fine	0.6
25-Aug-22	13:52	64.7	61.0	67.0	70	64.7	Fine	0.5
30-Aug-22	11:05	64.4	60.5	67.0	70	64.4	Fine	0.2

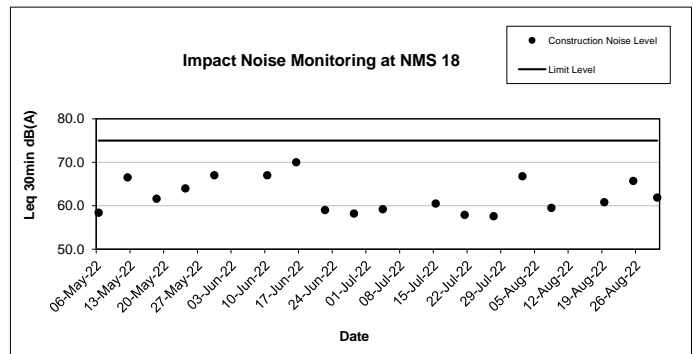
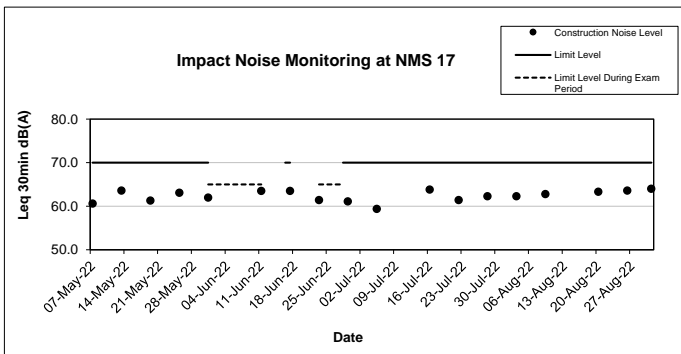
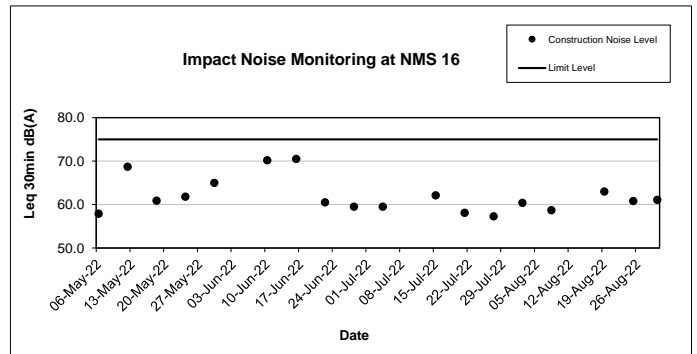
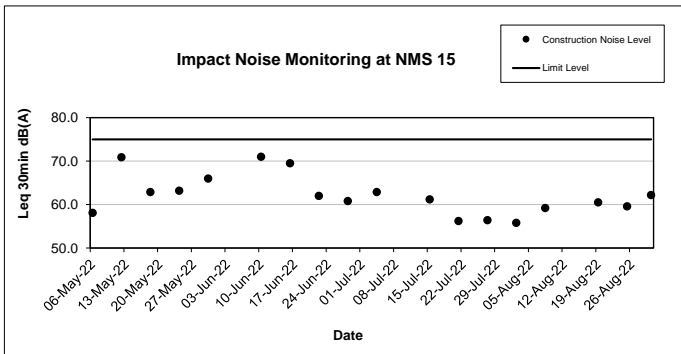
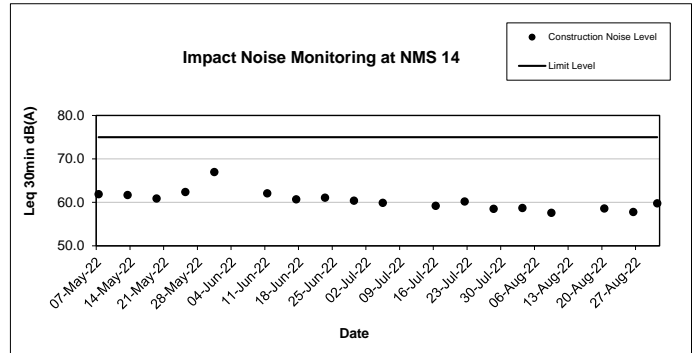
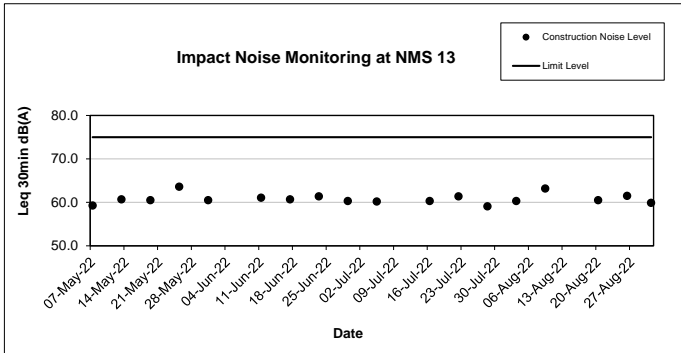
\*Note: The school calendar was provide in Appendix E.

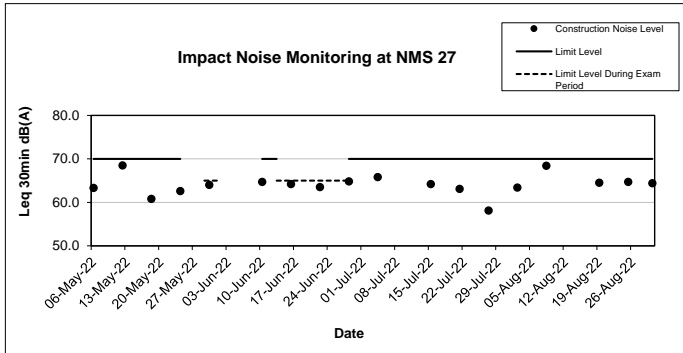
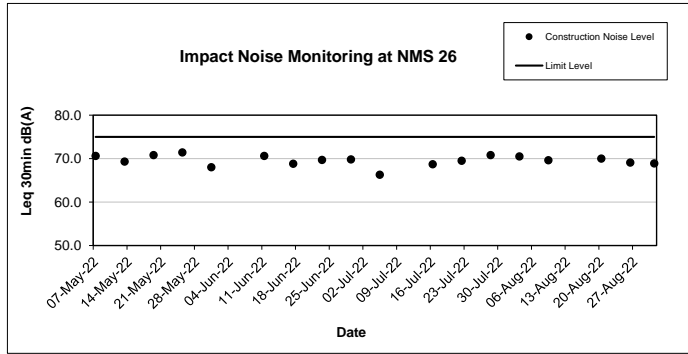
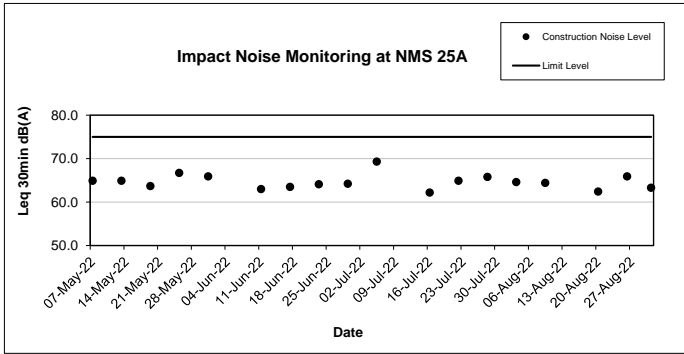
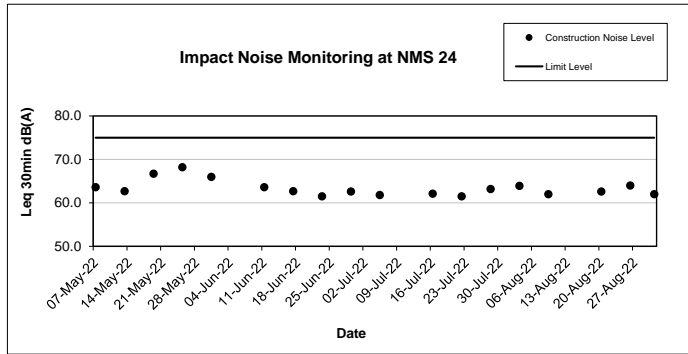
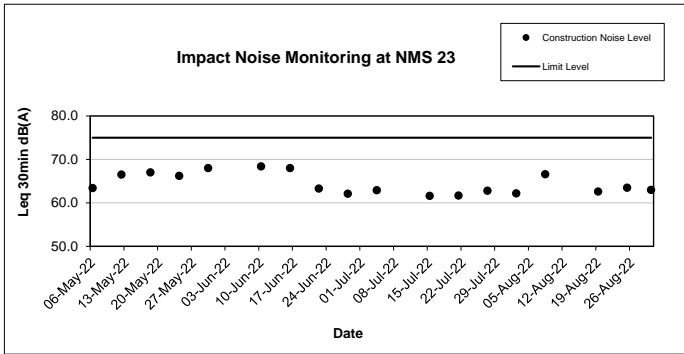
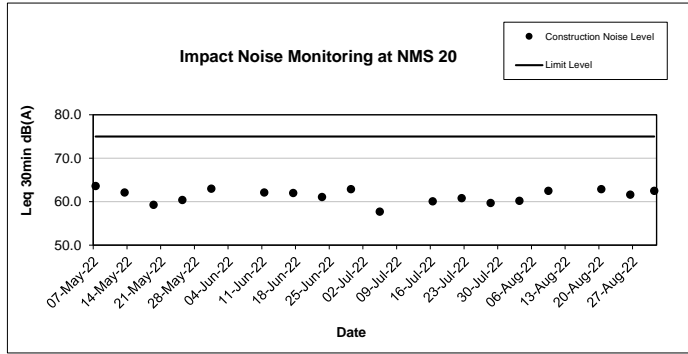
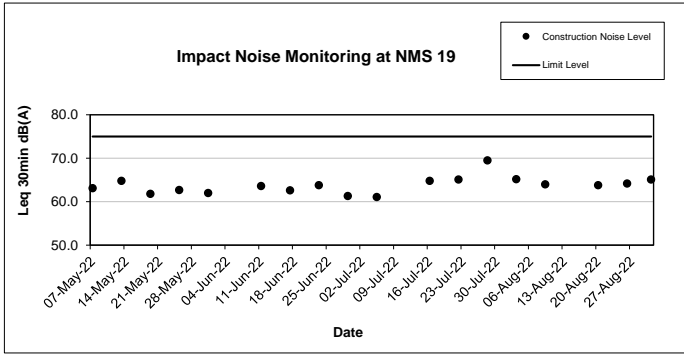
If measured noise level (L<sub>eq</sub>) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$









## 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)
04-Aug-22	23:05	56.8	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.7
11-Aug-22	23:02	59.4				Measured Noise Level<Baseline	Overcast	0.4
19-Aug-22	02:30	57.6				Measured Noise Level<Baseline	Fine	0.6
23-Aug-22	23:02	60.6				Measured Noise Level<Baseline	Fine	0.6

### 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)
04-Aug-22	23:00	51.7	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	1.3
11-Aug-22	23:08	54.9				Measured Noise Level<Limit Level	Overcast	0.2
19-Aug-22	02:27	51.2				Measured Noise Level<Limit Level	Fine	0.7
24-Aug-22	03:01	54.8				Measured Noise Level<Limit Level	Fine	0.0

### 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)
04-Aug-22	23:28	65.5	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.6
11-Aug-22	23:26	65.0				Measured Noise Level<Baseline	Overcast	0.5
19-Aug-22	02:05	65.0				Measured Noise Level<Baseline	Fine	0.4
23-Aug-22	23:26	64.3				Measured Noise Level<Baseline	Fine	0.7

### 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)
04-Aug-22	23:26	55.4	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.8
11-Aug-22	23:41	60.1				Measured Noise Level<Baseline	Overcast	0.3
19-Aug-22	02:04	54.2				Measured Noise Level<Limit Level	Fine	1.3
24-Aug-22	02:33	58.7				Measured Noise Level<Baseline	Fine	0

### NMS 5A Wai Wah Centre (Site Boundary)

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)
04-Aug-22	23:53	67.3	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.6
11-Aug-22	23:51	67.3				Measured Noise Level<Baseline	Overcast	0.6
19-Aug-22	01:42	67.1				Measured Noise Level<Baseline	Fine	0.4
23-Aug-22	23:47	66.6				Measured Noise Level<Baseline	Fine	0.6

### NMS 6A Wai Wah Centre (Site Boundary)

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)
05-Aug-22	00:16	70.9	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	1.3
12-Aug-22	00:13	68.9				Measured Noise Level<Baseline	Overcast	0.0
19-Aug-22	01:18	70.7				Measured Noise Level<Baseline	Fine	0.6
24-Aug-22	00:08	66.5				Measured Noise Level<Baseline	Fine	0.6

If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

### 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)
04-Aug-22	23:45	58.0	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.8
12-Aug-22	00:02	58.1				Measured Noise Level<Baseline	Overcast	0.2
19-Aug-22	01:47	55.0				Measured Noise Level<Baseline	Fine	0.6
24-Aug-22	02:13	58.0				Measured Noise Level<Baseline	Fine	0.3

### 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)
05-Aug-22	00:58	61.3	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
12-Aug-22	00:36	63.7				Measured Noise Level<Baseline	Overcast	0.5
19-Aug-22	00:35	60.6				Measured Noise Level<Baseline	Fine	0.6
24-Aug-22	00:33	62.5				Measured Noise Level<Baseline	Fine	0.4

### 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)
05-Aug-22	01:26	57.0	53.5	39.5 - 63.1	55	54.4*	Fine	1
12-Aug-22	01:19	56.1				52.6*	Overcast	0
19-Aug-22	00:12	57.1				54.6*	Fine	0.5
24-Aug-22	01:20	56.3				53.1*	Fine	0.6

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)
05-Aug-22	00:42	54.1	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
12-Aug-22	01:12	55.5				51.6*	Overcast	0.6
19-Aug-22	00:49	54.0				Measured Noise Level<Limit Level	Fine	0.6
24-Aug-22	01:04	55.8				52.3*	Fine	0.3

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

If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

### 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)
05-Aug-22	01:49	57.6	57.3	45.4 - 72.5	55	45.8*	Fine	0.3
12-Aug-22	01:42	57.4				41.0*	Overcast	0.6
18-Aug-22	23:50	56.7				Measured Noise Level<Baseline	Fine	0.8
24-Aug-22	01:42	56.9				Measured Noise Level<Baseline	Fine	0.6

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)
05-Aug-22	01:03	53.9	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.7
12-Aug-22	01:32	56.0				51.5*	Overcast	0.0
19-Aug-22	00:30	53.1				Measured Noise Level<Limit Level	Fine	0.8
24-Aug-22	00:44	56.7				53.2*	Fine	0.0

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)
05-Aug-22	01:24	55.0	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.6
12-Aug-22	01:51	57.9				Measured Noise Level<Baseline	Overcast	0.0
19-Aug-22	00:08	57.8				Measured Noise Level<Baseline	Fine	0.6
24-Aug-22	00:24	57.4				Measured Noise Level<Baseline	Fine	0.0

### 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)
05-Aug-22	01:45	54.2	60.1	51.4 - 69.5	55	Measured Noise Level<Limit Level	Fine	0.6
12-Aug-22	02:11	56.8				Measured Noise Level<Baseline	Overcast	0.0
18-Aug-22	23:18	55.1				Measured Noise Level<Baseline	Fine	0.7
23-Aug-22	23:33	56.8				Measured Noise Level<Baseline	Fine	0.0

### 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)
05-Aug-22	02:06	53.4	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level	Fine	0.3
12-Aug-22	02:30	56.4				Measured Noise Level<Baseline	Overcast	0.0
18-Aug-22	23:00	52.5				Measured Noise Level<Limit Level	Fine	0.9
23-Aug-22	23:13	57.7				Measured Noise Level<Baseline	Fine	0.0

If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$



### 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)
05-Aug-22	02:18	55.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
12-Aug-22	02:09	60.6				Measured Noise Level<Baseline	Overcast	0.7
18-Aug-22	23:07	56.7				Measured Noise Level<Baseline	Fine	0.6
24-Aug-22	02:08	60.9				Measured Noise Level<Baseline	Fine	0.7

### 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)
05-Aug-22	02:38	54.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.6
12-Aug-22	02:30	57.6				Measured Noise Level<Baseline	Overcast	0.0
18-Aug-22	23:26	54.8				Measured Noise Level<Limit Level	Fine	0.8
24-Aug-22	02:29	53.8				Measured Noise Level<Limit Level	Fine	0.4

### NMS 23 Pai Tau

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
05-Aug-22	00:08	56.8	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.6
12-Aug-22	00:26	59.4				Measured Noise Level<Baseline	Overcast	0.2
19-Aug-22	01:28	56.7				Measured Noise Level<Baseline	Fine	0.9
24-Aug-22	01:50	58.9				Measured Noise Level<Baseline	Fine	0.0

### 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)
05-Aug-22	00:39	57.7	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.8
12-Aug-22	00:58	58.1				41.7*	Overcast	0.6
19-Aug-22	00:55	57.8				Measured Noise Level<Baseline	Fine	0.5
24-Aug-22	00:56	56.6				Measured Noise Level<Baseline	Fine	0.5

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

### NMS 25A Sheung Wo Che

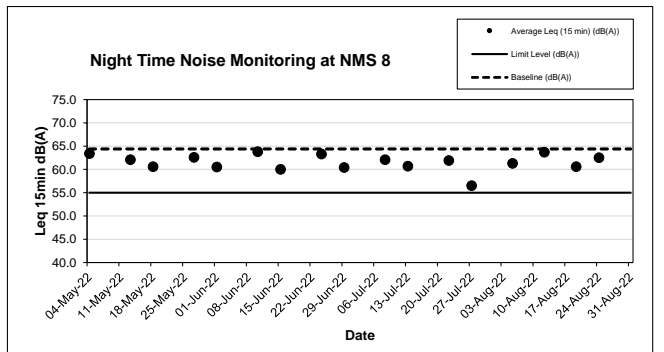
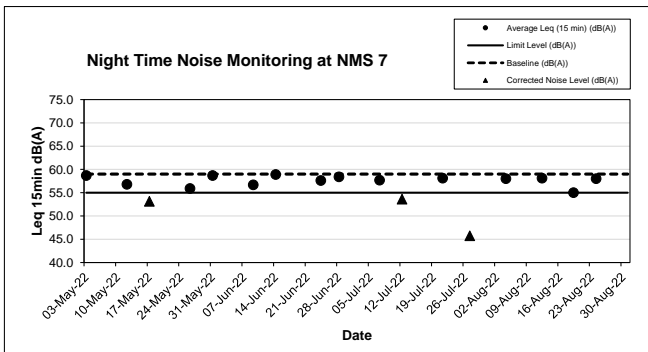
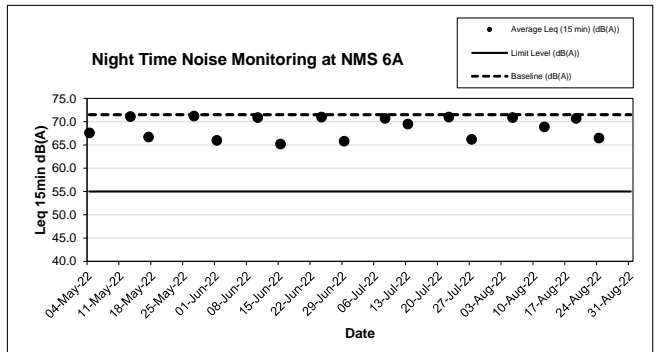
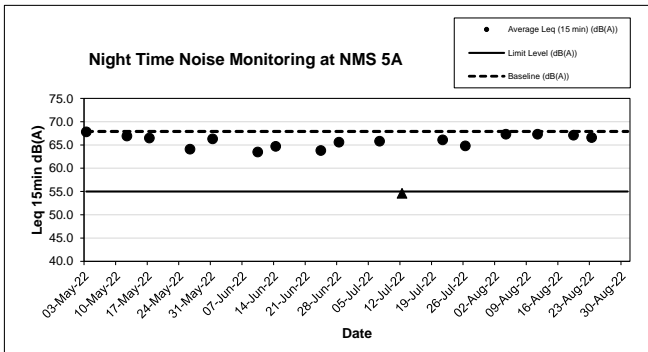
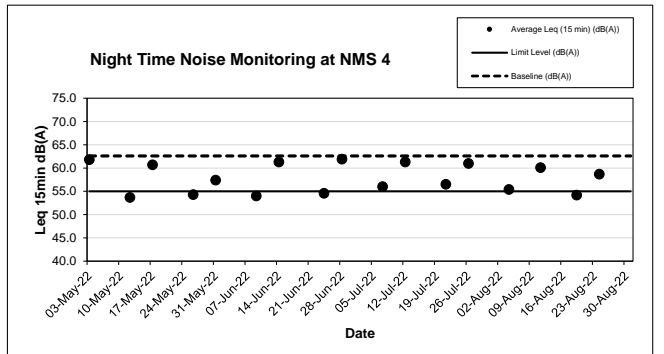
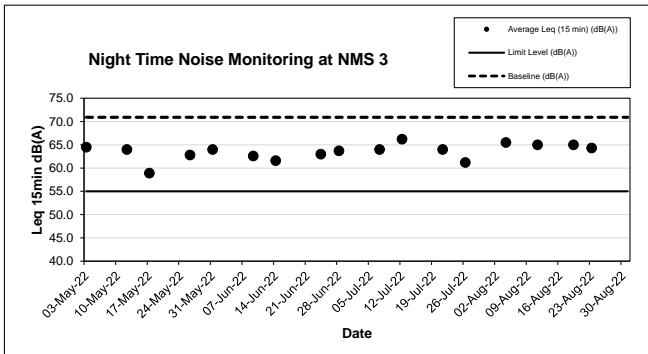
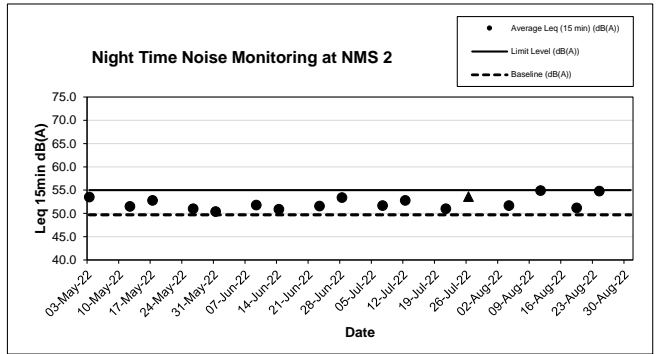
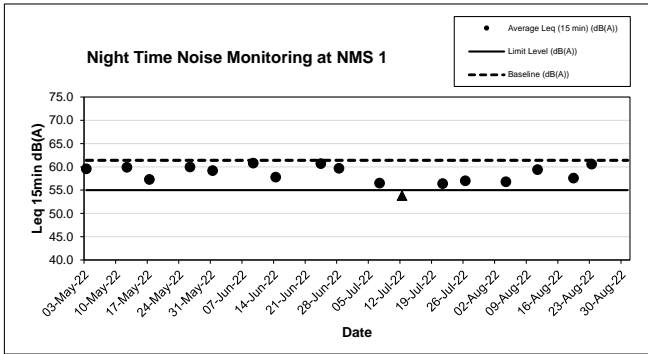
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
05-Aug-22	00:23	55.3	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
12-Aug-22	00:52	58.0				Measured Noise Level<Baseline	Overcast	0.0
19-Aug-22	01:07	56.6				Measured Noise Level<Baseline	Fine	0.0
24-Aug-22	01:24	53.5				Measured Noise Level<Limit Level	Fine	0.4

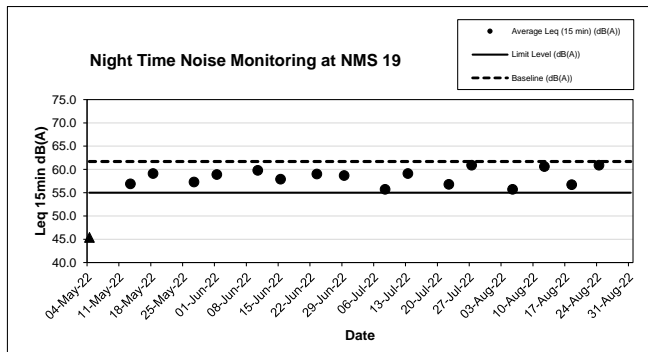
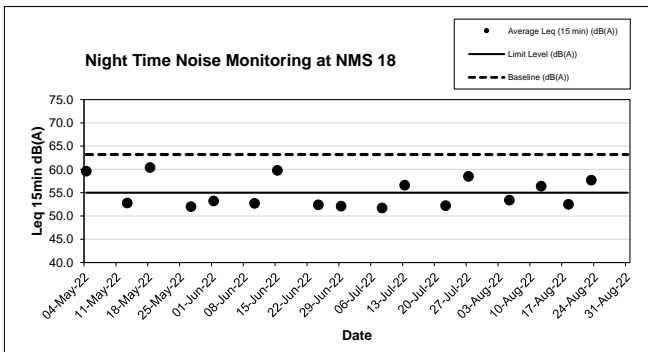
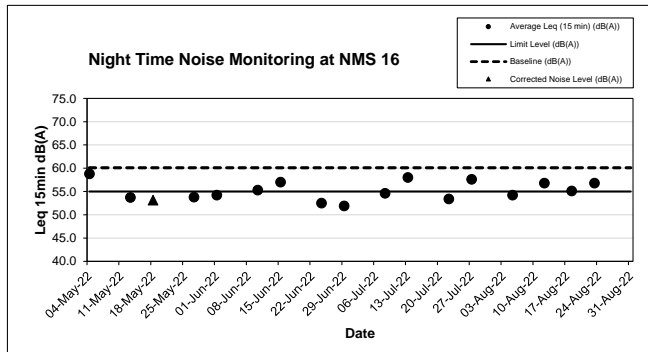
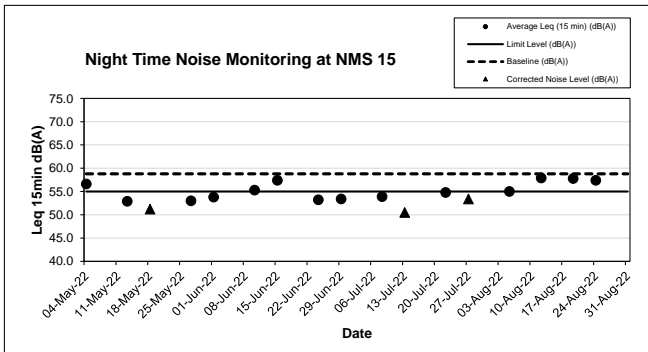
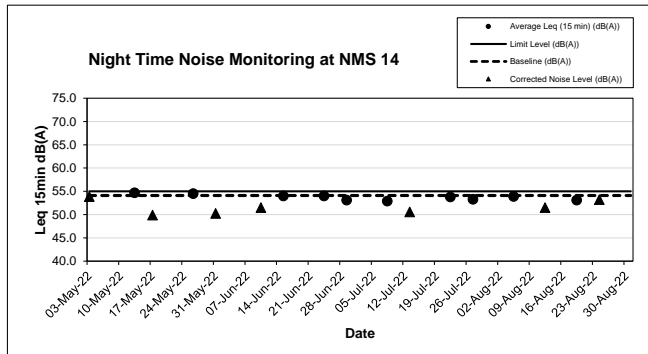
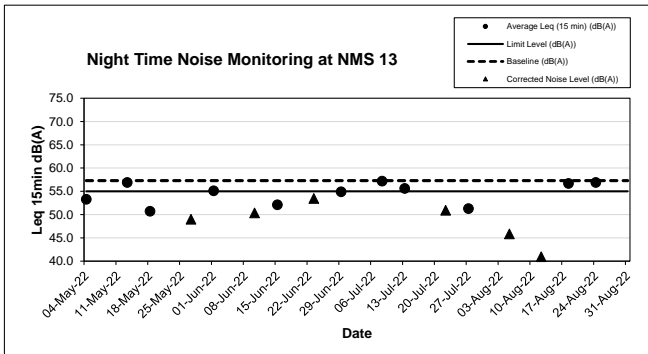
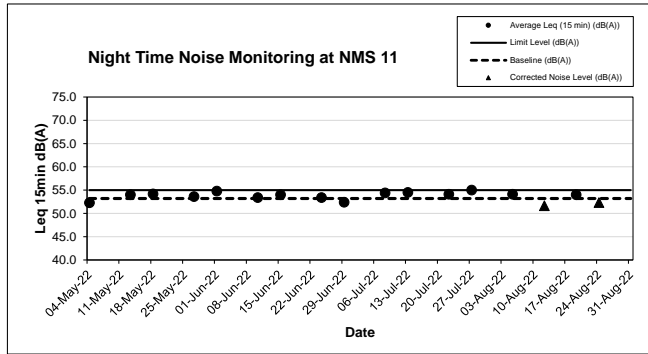
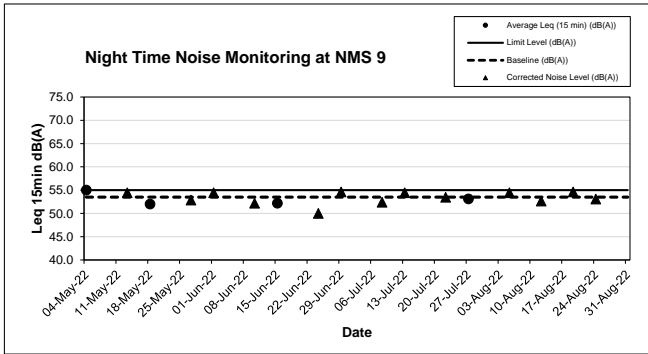
### NMS 26 Wo Che Estate

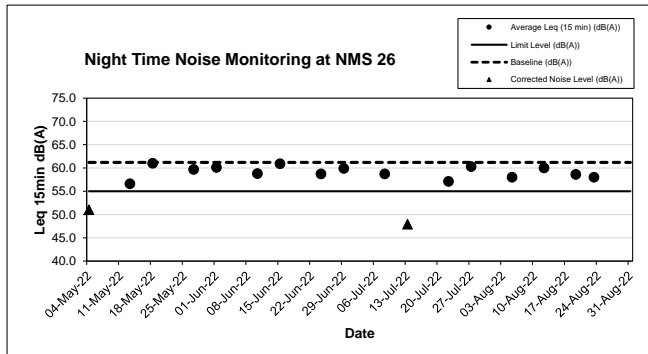
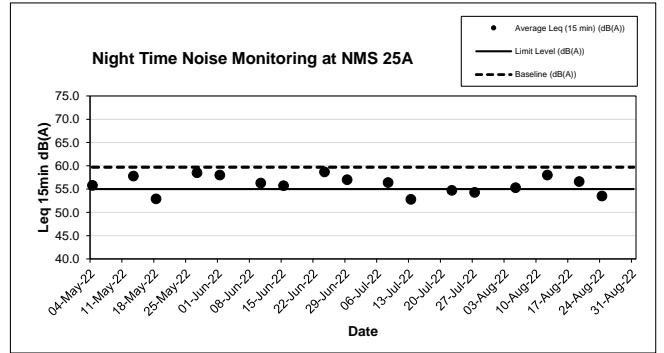
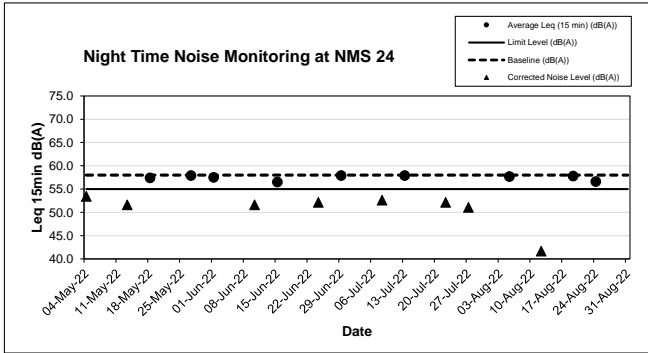
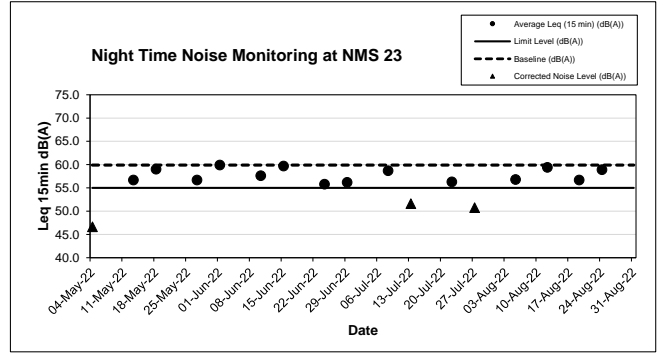
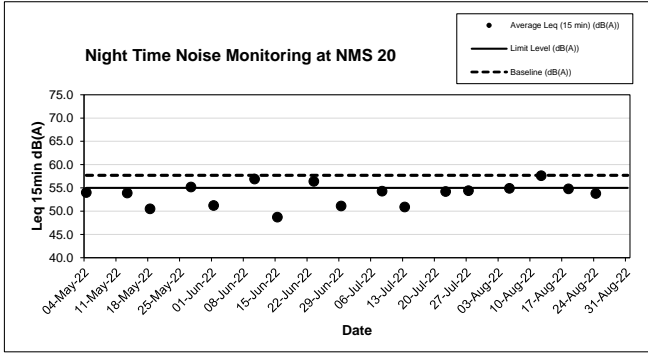
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
05-Aug-22	02:33	58.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
12-Aug-22	02:54	60.0				Measured Noise Level<Baseline	Overcast	0.2
19-Aug-22	00:08	58.6				Measured Noise Level<Baseline	Fine	0.6
23-Aug-22	23:57	58.0				Measured Noise Level<Baseline	Fine	0.0

If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$







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### **Appendix H**

### **Events and Action Plan**

# FUGRO TECHNICAL SERVICES LIMITED

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## Event and Action Plan for Construction Dust Monitoring

EVENT	ACTION			
	ET Leader	IEC	SO	Contractor
Action Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the SO.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET Leader.</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice.</li> <li>2. Amend working methods if appropriate.</li> </ol>
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the IEC and the SO.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Discuss with the IEC and the Contractor on remedial actions required.</li> <li>6. If exceedance continues, arrange meeting with the IEC and the SO.</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET Leader.</li> <li>2. Check the Contractor's working method.</li> <li>3. Discuss with the ET Leader and the Contractor on possible remedial measures.</li> <li>4. Advise the SO on the effectiveness of the proposed remedial measures.</li> <li>5. Supervisor implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>2. Implement the agreed proposals.</li> <li>3. Amend proposal if appropriate.</li> </ol>
Limit Level				
1. Exceedance for one sample	<ol style="list-style-type: none"> <li>1. Identify the source.</li> <li>2. Inform the SO and the EPD.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency to daily.</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by the ET Leader.</li> <li>2. Check Contractor's working method.</li> <li>3. Discuss with the ET Leader and the Contractor on possible remedial measures.</li> <li>4. Advise the SO on the effectiveness of the proposed remedial measures.</li> <li>5. Supervisor implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance.</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>3. Implement the agreed proposals.</li> <li>4. Amend proposal if appropriate.</li> </ol>
2. Exceedance	<ol style="list-style-type: none"> <li>1. Notify the IEC, the SO and the EPD and the</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the SO, ET</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid</li> </ol>

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EVENT	ACTION			
	ET Leader	IEC	SO	Contractor
for two or more consecutive samples	Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the SO to discuss the remedial actions to be taken. 7. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results. 8. If exceedance stops, cease additional monitoring.	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.	notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 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.	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 style="list-style-type: none"> <li>1. Notify the IEC and the Contractor.</li> <li>2. Carry out investigation.</li> <li>3. Report the results of investigation to the IEC.</li> <li>4. Discuss with the Contractor and formulate remedial measures.</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET.</li> <li>2. Review the proposed remedial measures by the Contractor and advise the SO accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC.</li> <li>2. Implement noise mitigation proposals.</li> </ol>
Limit Level	<ol style="list-style-type: none"> <li>1. Notify the IEC, the SO and the Contractor.</li> <li>2. Identify the source.</li> <li>3. Repeat measurement to confirm findings.</li> <li>4. Increase monitoring frequency.</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>6. Inform the IEC, the SO and the EPD the causes &amp; actions taken for the exceedance.</li> <li>7. Assess effectiveness if the Contractor's remedial actions and keep the IEC and the SO informed of the results.</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst the SO, the ET Leader and the Contractor on the potential remedial actions.</li> <li>2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly.</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing.</li> <li>2. Notify the Contractor.</li> <li>3. Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>4. Ensure remedial measures are properly implemented.</li> <li>5. If exceedance continues, consider what activities of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance,</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>3. Implement the agreed proposals</li> <li>4. Resubmit proposals if problem still not under control</li> <li>5. Stop the relevant activity of works as determined by the SO until the exceedance is abated.</li> </ol>





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

Event	Action		
	ET	SO	Contractor
Non-conformity on one occasion	<ol style="list-style-type: none"> <li>1. Identify Source;</li> <li>2. Inform the Contractor and the SO;</li> <li>3. Discuss remedial actions with the SO and the Contractor; and</li> <li>4. Monitor remedial actions until rectification has been completed</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor; and</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods;</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>
Repeated conformity Non-	<ol style="list-style-type: none"> <li>1. Identify Source;</li> <li>2. Inform the Contractor and the SO;</li> <li>3. Increase monitoring frequency;</li> <li>4. Discuss remedial actions with the SO and the Contractor;</li> <li>5. Monitor remedial actions until rectification has been completed; and</li> <li>6. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor; and</li> <li>2. Ensure remedial measures are properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Amend working methods;</li> <li>2. Rectify damage and undertake any necessary replacement.</li> </ol>

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## Appendix I

### Waste Flow Table

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**Waste Flow Table for Year 2018**

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)
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
<b>Sub-Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
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
<b>Total</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.018</b>

Note:

- 1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
- 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>.

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## Waste Flow Table for Year 2019

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
<b>Sub-Total</b>	<b>0.250</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.250</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.464</b>
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
<b>Total</b>	<b>4.200</b>	<b>0.000</b>	<b>0.916</b>	<b>0.000</b>	<b>3.284</b>	<b>1.884</b>	<b>0.001</b>	<b>0.060</b>	<b>0.010</b>	<b>0.000</b>	<b>0.889</b>

Note:

- 1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
- 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>.

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## Waste Flow Table for Year 2020

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)
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
<b>Sub-Total</b>	<b>7.332</b>	<b>0.000</b>	<b>0.075</b>	<b>0.000</b>	<b>7.257</b>	<b>0.498</b>	<b>0.006</b>	<b>0.189</b>	<b>0.016</b>	<b>0.000</b>	<b>0.206</b>
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
<b>Total</b>	<b>24.101</b>	<b>0.000</b>	<b>0.109</b>	<b>0.000</b>	<b>23.992</b>	<b>0.498</b>	<b>24.764</b>	<b>0.403</b>	<b>0.054</b>	<b>0.000</b>	<b>0.438</b>

Note:

- 1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
- 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>.

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**Waste Flow Table for Year 2021**

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)
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	7.348	0.000	0.000	0.000	7.348	0.000	0.001	0.215	0.004	0.000	0.050
2021 Apr	3.302	0.000	0.000	0.000	3.302	0.100	0.002	0.013	0.004	0.000	0.050
2021 May	2.315	0.000	0.150	0.000	2.165	0.024	0.001	0.008	0.005	0.000	0.106
2021 Jun	1.809	0.000	0.307	0.000	1.502	0.059	0.000	0.000	0.000	0.000	0.029
<b>Sub-Total</b>	<b>21.847</b>	<b>0.000</b>	<b>0.457</b>	<b>0.000</b>	<b>21.390</b>	<b>0.215</b>	<b>0.005</b>	<b>0.294</b>	<b>2.510</b>	<b>0.000</b>	<b>0.301</b>
2021 Jul	2.693	0.000	0.019	0.000	2.674	0.262	0.003	0.011	0.007	0.000	0.119
2021 Aug	3.088	0.000	0.000	0.000	3.088	0.095	0.002	0.007	0.011	0.000	0.071
2021 Sep	1.698	0.000	0.000	0.000	1.698	0.000	0.001	0.004	0.003	0.000	0.049
2021 Oct	1.500	0.000	0.000	0.000	1.500	0.279	0.002	0.003	0.005	0.000	0.021
2021 Nov	3.258	0.000	0.000	0.000	3.258	0.015	0.002	0.009	0.007	0.000	0.070
2021 Dec	1.935	0.000	0.000	0.000	1.935	0.000	0.002	0.003	0.002	0.000	0.035
<b>Total</b>	<b>36.019</b>	<b>0.000</b>	<b>0.476</b>	<b>0.000</b>	<b>35.543</b>	<b>0.866</b>	<b>0.017</b>	<b>0.331</b>	<b>2.545</b>	<b>0.000</b>	<b>0.666</b>

Note:

- 1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
- 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>.

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## Waste Flow Table for Year 2022

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)
2022 Jan	1.815	0.000	0.064	0.000	1.751	0.097	20.640	0.000	0.000	0.000	0.410
2022 Feb	2.683	0.000	0.045	0.000	2.638	0.000	0.002	0.004	0.004	0.000	0.022
2022 Mar	3.039	0.000	0.000	0.000	3.039	0.037	0.000	0.000	0.000	0.000	0.026
2022 Apr	6.023	0.000	0.000	0.000	6.023	0.030	0.001	0.419	0.005	0.000	0.064
2022 May	10.291	0.000	0.000	0.000	10.291	0.159	0.001	0.011	0.003	0.000	0.042
2022 Jun	5.469*	0.000	0.000	0.000	5.469 *	0.187*	0.000	0.000	0.000	0.000	0.074*
<b>Sub-Total</b>	<b>29.320</b>	<b>0.000</b>	<b>0.109</b>	<b>0.000</b>	<b>29.211</b>	<b>0.510</b>	<b>20.644</b>	<b>0.434</b>	<b>0.012</b>	<b>0.000</b>	<b>0.638</b>
2022 Jul	3.136	0.000	0.000	0.000	3.136	0.476	0.001	0.013	0.003	0.000	0.141
2022 Aug	4.111	0.000	0.000	0.000	4.111	0.401	6.871	0.373	0.010	0.000	0.088
2022 Sep											
2022 Oct											
2022 Nov											
2022 Dec											
<b>Total</b>	<b>36.567</b>	<b>0.000</b>	<b>0.109</b>	<b>0.000</b>	<b>36.458</b>	<b>1.387</b>	<b>27.516</b>	<b>0.819</b>	<b>0.025</b>	<b>0.000</b>	<b>0.867</b>

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 figures are presented in this reporting 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
<u>Noise Measures</u>				
3.10.2, 3.10.3, 3.10.14, 3.10.15 and Table 3.10	Within the boundaries of all construction sites.	• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A)).	Contractor	Implemented
		• PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period	Contractor	Implemented
		• The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for construction activities is required during evening or night time hours.	Contractor	Implemented
		• 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.	Contractor	Implemented
		• Use of well-maintained and regularly-serviced plant during the works.	Contractor	Implemented
		• Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented
		• Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.	Contractor	Not Applicable
		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.	Contractor	Implemented
		• Fixed plants should be sited away from NSRs where possible.	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
3.10.4, 3.10.5 and Table 3.3		• 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.	Contractor	Implemented
		• Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes	Contractor	Implemented
3.10.6 to 3.10.9		• Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.	Contractor	Implemented
		• 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.	Contractor	Not Applicable
		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Implemented

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		• 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.	Contractor	Not Applicable
		• 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.	Contractor	Implemented
		• For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.	Contractor	Not Applicable
		• Barrier material of surface density of at least 14 kg/m <sup>2</sup> is recommended in order to achieve the necessary screening effect.	Contractor	Not Applicable
<b>3.10.10</b>		• Full noise enclosures should cover the PME or fixed plants such as air compressor.	Contractor	Implemented
<b>3.10.3</b>		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;	Contractor	Not Applicable
		• Where possible fixed plants should be sited away from NSRs; and	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
<u>Air Quality Measures</u>				
<b>4.12.1 and 4.12.2</b>	Within the boundaries of all construction sites.	• 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.	Contractor	Implemented
		• 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.	Contractor	Implemented
		• 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.	Contractor	Implemented
		• 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	Contractor	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
		• 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.	Contractor	Partially Implemented
		• Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion.	Contractor	Not Applicable
		• 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.	Contractor	Implemented
		• Construction working areas should be restricted to a minimum practicable size.	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.	Contractor	Implemented
		• 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	Implemented
		• 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	Implemented
		• 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.	Contractor	Implemented

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4.12.1, 4.13.1 and Table 8.2		• Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.	Contractor	Implemented
		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
NA		• Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.	Contractor	Implemented
		• Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	Implemented
		• Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.	Contractor	Partially Implemented
<u>Water Quality Measures</u>				
5.7	Within the boundaries of all construction sites.	• 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:	Contractor	Partially Implemented
		• 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
		• 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.	Contractor	Implemented
		• Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.	Contractor	Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.	Contractor	Implemented
		• The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained	Contractor	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.	Contractor	Implemented
		• 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.	Contractor	Partially 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
		• The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.	Contractor	Implemented
		• 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	Partially Implemented
		• 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	Implemented
		• 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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Section 12.6 of the Approved EIA Report		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.			
		• Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. 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.	Contractor	Not Applicable	
		• Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO).	Contractor	Partially Implemented	
		• Regular site inspection of the construction works shall be carried out to determine compliance with the recommended mitigation measures. Inspection should be included:			
		(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	Implemented	
		(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	
		(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	Implemented	
(vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area.	Contractor	Implemented			
(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	Implemented			
(viii) The operation of the roof rain water collection and drainage system.	Contractor	Implemented			
<i>Landscape and Visual Mitigation Measures</i>					
<b>Construction Phase</b>					
Table 6.5	During construction within the Project Boundary.	• 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	
		• Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m.	Contractor	Implemented	

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		• Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004.	Contractor	Implemented	
		• Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.	Contractor	Implemented	
		• 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.	Contractor	Not Applicable	
	<b>Operation Phase</b>				
	During construction within the Project Boundary.	• 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	
		• 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.	Contractor	Not Applicable	
		• 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	
		• 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.	Contractor	Not Applicable	
		• Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible.	Contractor	Not Applicable	
	<b>Waste Management Measures</b>				
7.6.2 to 7.6.4	Within the boundaries of all construction	• 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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7.6.5 to 7.6.6	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.		
		• The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	Contractor	Implemented
		• Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy.	Contractor	Implemented
		• Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.	Contractor	Implemented
7.6.7	Within the boundaries of all construction sites as well as transportation routes to designed areas for off-site disposal of materials/Prior to and during construction activities.	• 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
		• 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
7.6.8 to 7.6.9		• The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include:		
		• 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
		• The environmental performance of the contractor and his sub-contractors;	Contractor	Implemented
		• The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and	Contractor	Implemented
		• The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.	Contractor	Implemented
		• 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&D materials and non-inert C&D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in	Contractor	Implemented



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		enclosed containers.		
7.6.10		<ul style="list-style-type: none"> <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	Partially Implemented
7.6.11 to 7.6.14		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>C&amp;D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&amp;D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&amp;D materials shall be reused on site as much as possible.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>Paving bricks arising from existing pavement should be recycled on site as much as possible.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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	Not Applicable
7.6.15 to 7.6.17		<ul style="list-style-type: none"> <li>Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for the storage of chemical wastes should:</li> </ul>		
		<ul style="list-style-type: none"> <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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		• have a capacity of less than 450L unless the specifications have been approved by the EPD; and	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:		
		• be clearly labelled and used solely for the storage of chemical waste;	Contractor	Implemented
		• be enclosed on at least 3 sides;	Contractor	Partially 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;	Contractor	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	Partially Implemented
		• be arranged so that incompatible materials are adequately separated.	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemical wastes as defined in the Waste Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require pre-notification to EPD prior to disposal. Appropriate means include disposal:		
		• via a licensed waste collector; and	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	Contractor	Implemented
		• to a reuser of the waste, under approval from EPD.	Contractor	Not Applicable
7.6.18 to 7.6.20		• 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.	Contractor	Partially Implemented
		• Separate labelled bins should be provided if feasible.	Contractor	Implemented
		• 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	Contractor	Partially Implemented

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		requirements.		
		• 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.	Contractor	Implemented
<b>EP 1.5</b>	<u>General Condition</u>			
N.A	During construction within the Project Boundary.	• The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Partially Implemented

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

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### **Appendix K**

#### **Weather and Meteorological Conditions during Reporting Month**

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Date	Mean Pressure (hPa)	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
		Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
<b>August 2022</b>						
1	1005.9	35.7	31.4	29.1	69	-
2	1007.1	35.2	31.1	28	70	0.2
3	1006.7	30.8	28.2	25.6	82	34.9
4	1004.5	28.4	27.1	25.9	86	14.9
5	1007.6	28.6	26.1	24.5	94	165.5
6	1007.6	30.9	27.9	26.1	89	5.5
7	1006.7	32.6	29.6	27.6	82	2.8
8	1006.3	30.9	28.3	26.2	87	33.3
9	1003.6	28.5	26.7	25.4	88	72
10	1004.1	29.6	27.4	25.8	90	49.7
11	1007.8	28.8	26.7	25.5	90	12.4
12	1008.8	27.1	26.1	24.9	93	76
13	1008	32.6	28.7	25.8	81	-
14	1007.2	33.3	29.5	26.9	78	-
15	1006.2	33.6	30	28.1	78	-
16	1005.6	33.2	29.4	26.2	82	9.1
17	1005.8	32.3	28.2	26.2	86	29.8
18	1005.5	30.4	28.1	26.2	87	22.1
19	1004.9	32	28.3	26.4	85	4.8
20	1007.5	31.9	28.2	26.5	83	8.4
21	1008.3	32.9	29	26.6	84	1.9
22	1006.9	32.9	30.1	28.2	77	-
23	1005	34.5	31.1	28.6	77	-
24	1002.3	34.9	30.8	26.4	73	5.5
25	1006.3	29.8	27.2	25	85	48.1
26	1010.6	32.9	29.4	27.5	80	0.1
27	1009.2	33	29.7	27.4	78	-
28	1008.4	34.4	30.5	28.3	80	-
29	1010.2	34.6	30.1	28.6	78	-
30	1008.8	32.3	29.5	27.9	80	13.1
31	1006.7	31.7	29.7	28.1	80	4.7

Remark: Trace means rainfall less than 0.05 mm

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	02/02/2019	EPD	CCZJV	Noise	13/02/2019	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 14 <sup>th</sup> 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.	20/02/2019
COM-2019-006	22/02/2019	Project Hotline of NE/2017/05	CCZJV	Noise	26/02/2019	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 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.	04/03/2019
COM-2019-0010	28/03/2019	Project Hotline of NE/2017/05	CCZJV	Noise	28/03/2019	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	04/04/2019

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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.	
COM-2019-0033	26/07/2019	Police visit on-site	CCZJV	Noise	26/07/2019	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for 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.	30/07/2019
COM-2019-0045	30/08/2019	1823	CCZJV	Noise	30/08/2019	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	19/09/2019



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						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.	
COM-2019-0056	09/10/2019	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 comply 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.	04/11/2019
COM-2019-0057	09/10/2019	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 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.	21/10/2019

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COM-2019-0066	06/11/2019	EPD	CCZJV	Noise	07/11/2019	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 enclosure condition to minimize the visual and noise impacts 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.	19/03/2020
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>	07/04/2020

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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.	
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 27 <sup>th</sup> & 28 <sup>th</sup> March 2020 was the asphalt compaction for the road surface remedial works at zone 2 south lane adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0002-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 <sup>th</sup> March 2020 to 04:00 27 <sup>th</sup> March 2020, and between 23:00 2 <sup>nd</sup> April 2020 to 04:00 3 <sup>rd</sup> April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark 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.	04/05/2020
COM-2020-0091	28/03/2020	Project hotline	CCZJV	Noise	28/03/2020		
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 at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with	28/04/2020

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						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 filed three complaints about the noise nuisance generated by the nearby construction activities 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 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	19/05/2020
COM-2020-0097	20/04/2020	Project Email	CCZJV	Noise	20/04/2020		

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2020-0098	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	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 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.	05/05/2020

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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 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 23 <sup>rd</sup> April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22 <sup>nd</sup> April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 <sup>rd</sup> April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	11/05/2020
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	15/05/2020

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						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 <sup>th</sup> & 28 <sup>th</sup> 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 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.	27/11/2020

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						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 the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road 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 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	<p>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</p> <p>No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric</p>	07/12/2020



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						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 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.	23/12/2020
COM-2020-154	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 <sup>th</sup> 27 November 2020. The major construction works were works	14/12/2020

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						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 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-2020-155	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 3 <sup>rd</sup> 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 AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12	05/01/2021

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						in November 2020 and on the 3 <sup>rd</sup> 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-2020-157	07/12/2020	STDC	CCZJV	Dust	07/12/2020	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 3 <sup>rd</sup> , 9 <sup>th</sup> & 15 <sup>th</sup> December 2020 respectively which was 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 3 <sup>rd</sup> , 9 <sup>th</sup> & 15 <sup>th</sup> December 2020 show that there was no exceedance case was 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.	29/12/2020

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						The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur.	
COM-2020-161	18/12/2020	EPD	CCZJV	Noise	18/12/2020	<p>The complaint was received via email notification by EPD on 18<sup>th</sup> December 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate during night-time on 7<sup>th</sup> &amp; 8<sup>th</sup> December 2020. According to the Main Contractor, the major construction works was removal of central median works since 7<sup>th</sup> &amp; 8<sup>th</sup> 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-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<sup>th</sup> 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</p>	05/01/2021

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						and NMS26 were lower than that of measured in 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-2020-167	22/02/2021	1823	CCZJV	Dust	22/02/2021	A complainant who did not wish to disclose his identity called 1823 hotline on 22 <sup>nd</sup> 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 23 <sup>rd</sup> 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. The Main Contractor proposed to reduce the exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.	05/03/2021
COM-2020-168	20/02/2021	1823	CCZJV	Noise	23/02/2021	The complaint was received via 1823 on 20 <sup>th</sup> February 2021 01:00 am concerning about the night-time construction works near Sha Tin Police Station at 19 <sup>th</sup> 20 February 2021. According to the Main Contractor, there was night-time construction works near Sha Tin Police Station (Zone 3 & 4) on 19 <sup>th</sup> 20 February 2021. The major construction works were lane shifting works conducted on 19 <sup>th</sup> 20 February 2021 at night-time under	08/03/2021

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						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 25 <sup>th</sup> February to 03:00 26 <sup>th</sup> 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.	
COM-2021-0170	03/03/2021	1823	CCZJV	Dust and Noise	04/03/2021	The complaint on 3rd March 2021 at 1:25 pm complained about the noise, dust nuisance generated and insufficient dust mitigation works during the night-time construction works near King Wo House and Wo Che Estate area. A repetitive case with reference no. 3-6638500887 was referred to the Main Contractor	25/03/2021

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						and ET of the captioned project on 4th March 2021. According to the Main Contractor, there was night time road works at King Wo House and Wo Che Estate (Zone 4 & 5) on 3rd March 2021. Thus, the complaint considered to be related to the project. According to ET investigation, the Main Contractor complied with the CNP No.: GW-RN0798-020, with the permission of using Powered Mechanical Equipment (PMEs). No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix G). The Main Contractor was reminded to close all the doors of the acoustic enclosure, included the "SilentCUBE" for hand-held breaker and metallic enclosure. Consider the dust nuisance, no exceedance cases were found on ET regular air quality monitoring measurement (Appendix F). According to the Main Contractor, vapour was emitted from the bottom of the miller, when the milled asphalt falling from the drop point of the conveyor belt to the dump truck container, fugitive dust was generated. The Main Contractor was reminded to enhance the water spray frequency and keep the road surface wet before milling as the mitigation measures on fugitive dust control.	
COM-2021-0172	03/03/2021	1823	CCZJV	Noise	08/03/2021	The second complaint was received on 3rd March 2021 at 1:40 pm complained about the noise nuisance generated during the night-time construction works near Shatin Pui Ying College area. A repetitive case with reference no. 3-6638578830 was referred to the Main Contractor and ET on 8th March 2021. According to the main contractor, there was a night-construction activity near Shatin Pui Ying College and Wo Che Estate (Zone 4 & 5). Thus, the complaint considered to be related to the project. According to ET investigation, the Main Contractor complied with the CNP No.: GW-RN0798-020, with the allowed usage of PMEs. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix G). The Main Contractor was reminded to strictly follow and fully comply with the CNP No.: GW-RN0798-20 conditions and the mitigation measures	25/03/2021

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						stipulated in the EM&A Manual when construction activities were operated during the restricted hour. The contractor was also reminded to use a movable noise barrier/blanket to block the line of sight from the engine or noise emission part to the nearby NSRs when using PMEs.	
COM-2021-0193	09/05/2021	1823	CCZJV	Noise	17/05/2021	<p>The complaint was first received on 6<sup>th</sup> May 2021 at 9:27 a.m. via FEHD email. The complaint was then referred to 1823 case: 3-6727963845 on 9<sup>th</sup> May 2021 at 2:52 p.m. A follow-up complaint was received on 11<sup>th</sup> May 2021 at 8:20 a.m. The two complaints were referred from 1823 to CEDD on 14<sup>th</sup> May 2021 at 6:26 p.m. The complaint cases was referred from AECOM to ET on 17<sup>th</sup> May 2021 at 11:46 a.m. According to the Main Contractor, the major construction works at daytime (08:00-18:00) between 6<sup>th</sup> to 11<sup>th</sup> May 2021 near Mei Wo House were soil replacement works (involved excavation, loading and unloading of materials and pour the no fine concrete) at the works area 1 (between Wo Che Estate King Wo House and Shatin Pui Ying school) and demolition of existing central divider works (involved breaking, loading and unloading of materials) at the work area 2 (opposite to Wo Che Estate Man Wo House). The ET regular daytime noise monitoring measurement results of NMS16, NMS17, NMS18, NMS19, NMS20 &amp; NMS26 on 6<sup>th</sup>, 7<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> May 2021, no exceedance case found. The noise monitoring results were lower than the noise limit of 75 dB(A) <math>L_{eq}</math> (30 minutes) at the facade of dwellings and 70 dB(A) <math>L_{eq}</math> (30 minutes) at the facades of schools (65 dB (A) during examinations). The Main Contractor installed an acoustic blanket, enclosed at the breaker to minimize the noise impacts to nearby NSRs. The Main Contractor was reminded to maintain the newly implemented noise mitigation measure during breaking works. The Main Contractor was reminded to provide additional mitigation measures to minimize the noise nuisance to the NSRs (similar to night-time construction works) during the construction works, for example moveable noise barrier or blanket to block</p>	27/05/2021



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						the line of sight from the engine and noise emission parts to the nearby NSRs.	
COM-2021-0200 and COM-2021-0202	07/06/2021	1823	CCZJV	Noise	08/06/2021	<p>Ms. So, a resident of Wo Che Estate, Mei Wo House complained about the noise generated from the daytime construction work located outside Mei Wo House, the tunnel entrance (direction towards Fo Tan). Until 7<sup>th</sup> June 2021, total six complaints were received via 1823 (case: 3-6727963845) from the same complainant. According to the Main Contractor's daytime working schedule from 12<sup>th</sup> May to 7<sup>th</sup> June 2021 at zone 5 were soil replacement works (involved excavation, loading and unloading of materials, pour the no fine concrete and formation of haul road) and demolition of existing central divider works (involved loading and unloading of materials, minor breaking and corning operation). According to CEDD, a reply was sent to Ms. So on 27<sup>th</sup> May 2021. The Resident Site Staff (RSS) of AECOM contacted the complainant on 7<sup>th</sup> June 2021 night to explain the detail of upcoming construction work and associated noise mitigation measures to minimize the construction noise arising from the concerned construction work. The complainant was also informed that she could contact the RSS directly if she had any further enquiry in future. ET conducted regular daytime noise monitoring at NMS16-20 and NMS26 monitoring stations on 6<sup>th</sup>, 7<sup>th</sup>, 12<sup>th</sup>, 13<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 24<sup>th</sup>, 25<sup>th</sup> of May and 4<sup>th</sup>, 5<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> of June 2021. No exceedance case was found and the noise monitoring results were lower than the noise limit of 75 dB(A) <math>L_{eq}</math> (30 minutes) at the facade of dwellings and 70 dB(A) <math>L_{eq}</math> (30 minutes) at the facades of schools (65 dB (A) during examinations). ET reminded the Main Contractor to implement additional mitigation measures to minimize the noise nuisance generated from daytime construction works to the nearby Noise Sensitive Receivers (NSRs). The Main Contractor agreed to install an acoustic blanket, enclosed at the breaker to minimize the noise impact generated from the demolition of central divider works. The Main Contractor was reminded to maintain the noise</p>	22/06/2021

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						mitigation measure during the breaking works. The Main Contractor was reminded to provide additional mitigation measures during the construction works to minimize the noise nuisance to the NSRs (similar to nighttime construction works), for example, a temporary moveable noise barrier to lower the noise impact and an acoustic blanket to block the line of sight from the engine and noise emission parts to the nearby NSRs. The Main Contractor was also reminded to display the project hotline number 5613-3367 on-site for public enquiry.	
EN-2021-0094	26/07/2021	EPD	CCZJV	Air (Odour)	27/07/2021	<p>A resident of Paris Park Villa complained about the poor air quality around his living area between 19th and 26th July 2021. He suspected that the odour nuisance may be generated from the construction site's diesel machineries. The complaint was received by the EPD's Regional Office (North) on 26<sup>th</sup> July 2021 with reference no.: RN17367-21.</p> <p>According to the Main Contractor's daytime working schedule between 19th July and 26th July 2021 involved: (1) Zone 4 and 5 North boundary, the construction activities involved the formation of temporary access, backfilling works for noise barrier stem wall, loading and unloading works. Excavations were mainly performed in areas EX1 and EX2. (2) Zone 4 and 5 South boundaries, the construction activities involved the noise barrier foundation works and the formation of temporary access. Excavations were mainly performed in areas EX3 and EX4. While rebar fixing and formwork erection were also carried out in EX3 area. For area TW1 in Zone 5 South boundary, tree works were performed. There were no work activities carried out at night-time, Sunday and under the hosting of typhoon signals.</p> <p>According to AECOM's Resident Engineer and the Main Contractor, no particular malpractice was observed during the construction activities at Zone 4 and 5 between 19th and 26th July 2021. According to the Main Contractor, only machineries with valid NRMM labels and regular maintenance are being used on-site. The Main Contractor sent the Ultra-Low Sulphur Diesel</p>	13/08/2021

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						<p>(ULSD) sample for laboratory testing since Feb 2019. There is no exceedance of the Sulphur content of more than 0.005% by weight in the past and the latest sample collected on 7<sup>th</sup> July (Cap. 311I Air Pollution Control (Fuel Restriction) Regulations). No particular finding on odour nuisance was found by the ET's staff when performing air monitoring in AMS 14 Ha Wo Che (close to 73A Ha Wo Che) on 21st and 22nd July 2021. ET also inspected the construction site on 29th July 2021 (between 9:00 to 10:15 a.m., weekly environmental inspection). There was no particular observation on odour nuisance or diesel smell generated from the Non-Road Mobile Machineries (NRMMS) and construction activities in the North and South boundary at Zone 4 and 5. No dark smoke was observed from the excavator, power generator, piling and pre-drilling machines under operation. ET inspected the area around Paris Park Villa and Ha Wo Che on 29th July 2021 between 10:30 a.m. to 11:30 a.m. There was no particular finding on odour nuisance in AMS14 Ha Wo Che (close to 73A Ha Wo Che).</p> <p>ET reminded the Main Contractor to strictly implement the air pollution control measures and minimize the air pollution impact generated from the construction work activities. The Main Contractor also is reminded that only approved or exempted NRMMS include regulated machines and non-road vehicles with proper labels are allowed to be used in specific activities on-site. The NRMMS should be well maintained. The Main Contractor was also be reminded that odour emissions from construction sites need to be controlled. Potential emission includes particulate matter, diesel and hazardous chemicals need to be considered for their odour impact. Use of ULSD should be maintained and dark smoke emission should be prevented in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. The Main Contractor was also be reminded to display the project hotline number 5613-3367 on-site for public enquiry.</p>	

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DSD Ref: MS 8/0/CE2815 /0 pt.6	01/09/21	DSD	CCZJV	Water	02/09/21	<p>Drainage Services Department (DSD) issued a notice (Ref: MS 8/0/CE2815/0 pt.6) to the Engineer's Representative (AECOM) after their morning inspection on 1st September 2021 concerning the improperly treated water being discharged from the construction site near Fung Wo Estate of the Project to nearby public stormwater drainage system, and of the consequence of contaminating the watercourse at Shing Mun River. The letter of concern was referred to Environmental Team (ET) on 2nd September 2021 at 3:24 p.m. for investigation.</p> <p>According to the Main Contractor and AECOM, the major construction work at Zone 5 south boundary was mini-piling works (at the end of August). Two piling machines were operating either individually or simultaneously. There are approximate 130 nos. of pile planned to be installed, and mini-piling works are scheduled to be finished in January 2022. Originally, one WetSep (TW-WS1) and two sedimentation tanks (ST1 and ST2) were provided for handling the wastewater generated from the piling works and site surface runoff at the zone 5 south boundary. According to the information report and photo records provided by the Main Contractor, the sedimentation tanks (ST1 and ST2) were filled with muddy water and silt on 1st September 2021.</p> <p>ET inspected the area at Zone 5 south boundary on 2nd, 9th, 16th and 29th September 2021. Observation, reminders and follow-up action were proposed and monitored by the ET on handling the wastewater generated from piling works and site surface run-off. Moreover, EPIs from EPD conducted the site inspection on 9th and 29th September 2021. The two inspection conducted by the EPIs focused on reviewing the general site condition, wastewater treatment facilities set-up, mitigation measures for preventing muddy water formation, handling the wastewater and surface run-off. Observation, recommendations and reminders proposed by the EPIs and ET are grouped and shown in Appendix M.</p>	20/10/2021

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						<p>Rectification have been reported by the Main Contractor according to the observation and recommendation from ET and EPIs on 8th, 17th, 27th September and 6th October 2021. During the 2nd joint site inspection, EPIs agreed the pilling works can be restarted. However, EPIs reminded that the 2nd pilling machine can only be operated until the 2nd WetSep is functioned properly and the effluent quality is acceptable. EPIs mentioned that follow-up inspection expected to be conducted in early or mid-October, focus on inspecting the wastewater treatment efficiency for pilling works, paving of the soil surface, mitigation measures for handling the surface run-off. EPIs also mentioned that surprise inspection may be conducted in the future. According to the AECOM, the pilling work was restarted on 30th September 2021.</p> <p>According to this incident, the Main Contractor was reminded by ET to analyze and review the efficiency of the wastewater treatment system according to the construction activities regularly. The Contractor should provide regular maintenance, water quality testing and related checklist for ET and IEC review during the site inspection. The Main Contractor and related Sub-Contractor was reminded by ET and AECOM that the discharge of effluent needs to fulfil the requirement stated in the Water Discharge License (No. WT00032446 – 2018). AECOM and ET requested the Main Contractor to update the Temporary Drainage Management Plan according to the latest work activities. ET also requested the Main Contractor to update the description of the wastewater mitigation measures inside the Environmental Management Plan (EMP) and Environmental Management Report (EMR) and strictly implement to prevent similar case happen in the future.</p> <p>A follow-up site inspection was conducted by the EPIs at Zone 5 south boundary on 26th October 2021. The EPIs reviewed the site condition, treatment efficiency of the temporary wastewater treatment facilities, mitigation measures to prevent muddy water</p>	

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						generated from soil surface, discharge points and gullies condition. EPIs commented on the mitigation measure around the discharge point near WetSep TW-WS1. The bunding next to the manhole should be rectified to prevent the inflow of muddy water. EPIs reminded that mitigation measures (such as sandbags and bunding) should be provided for enclosing the area near the piling machine. It is for directing the muddy water into the temporary wastewater treatment system. EPIs also reminded regular maintenance of the temporary wastewater treatment system is needed to ensure the effluent's water quality fulfill the standard of the Water Discharge License.	
EPD ref.: RN25674- 21	28/10/21	EPD	CCZJV	Noise	05/11/21	<p>A complaint was received by the EPD Regional Office (North) on 28<sup>th</sup> October 2021. The complainant concerned about the night-time noise nuisance near Man Wo House, Wo Che Estate from 2:00 to 5:00 a.m. on 25<sup>th</sup>, 26<sup>th</sup> and 27<sup>th</sup> October 2021 (total 3 nights). The complaint was referred from EPD to (ET on 5<sup>th</sup> November 2021 at 3:35 p.m.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Enclosure for General Night Works that was issued by the EPD. According to Main Contractor, the construction work activities were carried out during the permitted hours (00:00-05:00) on 25<sup>th</sup> and 27<sup>th</sup> October 2021 near Man Wo House (at Zone 4 and 5, NB and SB) and there was no night works on the 26<sup>th</sup> October 2021. The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic Arrangement (TTA) implementation, unloading of fill materials, loading and unloading of the lamppost, precast concrete blocks and generator and site clearance. The Main Contractor reported that no night-time construction work was carried out on 26<sup>th</sup> October 2021 at Zone 4 and 5.</p> <p>ET checked the Main Contractor has complied with CNP No.: GW-RN0600-21. The Main Contractor was reminded to strictly</p>	16/11/2021

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						follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was also be reminded to shut down the PMEs' engines when they are not in use. Moreover, only mobile phones and walkie talkies with headphones can be used for communication, and no whistles, horns and loudspeakers can be used during night work activities. The Main Contractor was reminded to pay attention to CNP conditions 3.d.1, 3.d.5, 3.d.13, 4.d.3 and 4.d.4 for using PMEs to carry out loading and unloading activities in the future.	
COM-2021-0257	05/11/21	1823	CCZJV	Noise	08/11/21	<p>This complaint was received by 1823 (ref: CASE#3-6960147702) on 5<sup>th</sup> November 2021 at 02:05 a.m. The complainant, Mr Sung concerned about the night-time noise nuisance from concreting near Scenery Court and Tsing Sha Highway. The complaint was referred from AECOM to ET on 8<sup>th</sup> November 2021 at 9:34 a.m.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0642-21 Road Closure for Sheet Piles Removal and Road Re-construction Works that issued by the EPD. According to Main Contractor, the construction work activities were carried out during the permitted hours (23:00-05:00) on 4<sup>th</sup> November 2021 near Scenery Court and Hilton Plaza (Zone 1). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic Arrangement (TTA) implementation, preparation works for concreting, concreting, cleaning works after concreting and site clearance.</p> <p>ET conducted a regular night-time noise monitoring at all the monitoring stations between 11:00 p.m. to 03:00 a.m. on 4<sup>th</sup> November 2021 and at NMS1, NMS2, NMS3, NMS4, NMS5A,</p>	23/11/2021

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						<p>NMS6A and NMS7 in Zone 1 and 2 which were close to Scenery Court near Tsing Sha Highway. No exceedance case was found during the regular night-time noise impact monitoring measurement.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0642-21. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&amp;A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to shut down the PMEs' engines when they are not in use. Moreover, only mobile phones and walkie talkies with headphones can be used for communication, and no whistles, horns and loudspeakers can be used during night work activities. The Main Contractor was also be reminded to pay attention to CNP conditions 3.d.1, 3.d.3, 3.d.4 3.d.5, 3.d.7, 3.d.11, 3.d.13, 4.d.6 and 4.d.7 for using PMEs and carry out similar night-time construction work activities in the future.</p>	
EPD ref.: RN25674- 21	17/11/21	EPD	CCZJV	Noise	19/11/21	<p>This complaint was received by the EPD Regional Office (North) on 17<sup>th</sup> November 2021. The complainant concerned about the night-time noise nuisance near Wai Wah Centre from 2:30 to 3:30 a.m. on 17<sup>th</sup> November 2021. The complaint was referred from EPD to ET on 19<sup>th</sup> November 2021 at 5:56 p.m.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 16<sup>th</sup>17<sup>th</sup> November 2021 near Wai Wah Centre (Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic</p>	08/12/2021



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						<p>Arrangement (TTA) implementation, unloading and handling of asphalt during pavement, asphalt compaction, loading and unloading of materials and site clearance. ET conducted a regular night-time noise monitoring at all the monitoring stations between 11:00 p.m. to 03:00 a.m. on 18<sup>th</sup> and 19<sup>th</sup> November 2021 and at NMS1, NMS2, NMS3, NMS4, NMS5A, NMS6A and NMS7 at Zone 1 and 2 which were close to Wai Wah Centre. No exceedance case was found during the regular night-time noise impact monitoring measurement.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 12<sup>th</sup> November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27<sup>th</sup> October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.</p>	
COM-2021-0262	20/11/21	1823	CCZJV	Noise	23/11/21	<p>This complaint was received by 1823 (ref: CASE#3-6981794553) on 20<sup>th</sup> November 2021 at 3:35 a.m. The complainant, Mr Sung concerned about the night-time noise nuisance from road surfacing works near Hilton Plaza. The complaint was referred from AECOM to ET on 23<sup>rd</sup> November 2021 at 1:56 p.m.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 19<sup>th</sup> and 20<sup>th</sup> November 2021 near Hilton Plaza (Zone 1 and 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic</p>	08/12/2021

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						Arrangement (TTA) implementation, asphalt removal, unloading and handling of asphalt during pavement, asphalt compaction, loading and unloading of materials and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 12 <sup>th</sup> November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27 <sup>th</sup> October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs.	
COM-2021-0263	26/11/21	1823	CCZJV	Noise	30/11/21	This complaint was received by 1823 (ref: CASE#3-6991122920) on 26 <sup>th</sup> November 2021 at 11:31 a.m. The complainant, Mr Chan concerned about the night-time noise nuisance generated from road surfacing works at Tai Po Road and near Shing Mun Tunnel Road (Zone 1 and 2). The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. The night-time construction works included TTA implementation, asphalt milling, mobilization in and out of construction site, asphalt paving, compaction of asphalt pavement, loading and unloading of fill materials, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19 <sup>th</sup> November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27 <sup>th</sup> October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs.	17/12/2021
COM-2021-0264	24/11/21	1823	CCZJV	Noise	30/11/21	This complaint was received by 1823 (ref: CASE#3-6989137345) on 25 <sup>th</sup> November 2021 at 30 <sup>th</sup> November 2021 at 9:28 a.m. The complainant, Ms Sun concerned about the recent	23/12/2021

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						<p>noise nuisance from the night-time construction work activities near Sha Tin Station.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 23<sup>rd</sup> November 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic TTA implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, loading and unloading of materials, and site clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, construction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19<sup>th</sup> November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27<sup>th</sup> October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.</p>	
COM-2021-0265	01/12/21	1823	CCZJV	Noise	01/12/21	<p>This complaint was received by 1823 (ref: CASE#3-6997727629) on 1<sup>st</sup> December 2021 at 11:50 a.m. The complainant concerned about the night-time noise nuisance generated near Sha Tin Station.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 30<sup>th</sup> November ^ 1<sup>st</sup> December 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed</p>	30/12/2021

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						<p>in the CNP. The night-time construction works included TTA implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, painting of road marking, loading and unloading of materials, and site clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19<sup>th</sup> November 2021 and Notice to Affected Residents – PN162 and 165 have been issued to nearby NSRs on 27<sup>th</sup> October and 29<sup>th</sup> November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.</p>	
EPD ref.: RN29574- 21	07/12/21	EPD	CCZJV	Noise	07/12/21	<p>This complaint was received by the EPD Regional Office (North) on 7<sup>th</sup> December 2021. The complainant concerned about the night-time noise nuisance generated from the operation of PMEs near Lek Yuen Estate, Kwai Wo House on 7th December 2021 at 2:00-3:00 a.m.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 6<sup>th</sup>7th December 2021 near Kwai Wo House (at Zone 3). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included TTA implementation, lifting of steel truss of overhead height restriction gantry, installation of overhead height restriction gantry, and site clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on</p>	24/12/2021

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						19 <sup>th</sup> November 2021 and Notice to Affected Residents – PN165 have been issued to nearby NSRs on 29 <sup>th</sup> November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	
COM-2021-0272	16/12/21	1823	CCZJV	Noise	16/12/21	<p>A complaint was received by 1823 (ref: CASE # 3-7020268390) on 16<sup>th</sup> December 2021 at 12:27 a.m. The complainant concerned about the night-time noise nuisance generated from the Tai Po Road (Sha Tin Section) construction site (near Wai Wah Centre, Block 3) in recent days.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) between 13<sup>th</sup> and 16<sup>th</sup> December 2021 (at Zone 2). The night-time construction works included TTA implementation, asphalt removal and cutting works, loading and unloading of materials, lifting steel plate and site clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 10<sup>th</sup> December 2021 and Notice to Affected Residents – PN165 have been issued to nearby NSRs on 29<sup>th</sup> November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.</p>	16/01/2022

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COM-2021-0193 and COM-2021-0202	21/12/21	1823	CCZJV	Noise	23/12/21	<p>Three complaints were received by 1823 from the same complainant (ref: CASE # 3-6727963845 via email) on 21<sup>st</sup> December 2021 at 8:35 a.m., 22<sup>nd</sup> December 2021 at 9:18 a.m. and 5:06 p.m. The complainant, Ms. So concerned about the recent day-time noise nuisance generated from day-time construction works from the Tai Po Road (Sha Tin Section) construction site (near Mei Wo House, Wo Che Estate).</p> <p>According to the Main Contractor, the construction works were carried out at day-time (08:00-18:00) between 15<sup>th</sup> and 22<sup>nd</sup> December 2021 near Mei Wo House (at Zone 5). The construction work activities included formwork erection, formwork removal, rebar fixing, and concreting works.</p> <p>ET carried out regular day-time noise monitoring on 20<sup>th</sup> and 21<sup>st</sup> December 2021 at NMS 16-20 and NMS 26, no exceedance case was found. All the noise monitoring results at the above-mentioned stations were lower than the noise limit of 75 dB(A) Leq (30 minutes) at the facade of dwellings and 70 dB(A) Leq (30 minutes) for school.</p> <p>To minimize the noise impact generated from day-time construction works, the Main Contractor reported that they have implemented an additional noise mitigation measure (with temporary noise barriers) for the Mei Wo House, NSR. During the ET weekly environmental inspection on 13<sup>th</sup> January 2022, the noise barriers were observed as properly installed. Most of the sight from the nearby NSRs for the noise works and PMEs were blocked by the implemented noise barrier. There is no particular observation about the noise impact generated from the construction activities during the site inspection. ET reminded the Main Contractor to ensure the additional noise barriers were applied properly next to the PMEs and noisy work. The contractor should minimize the noise impact generated from the daily construction works activities as much as possible.</p>	09/02/2022

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COM-2021-0275	29/12/21	1823	CCZJV	Noise	30/12/21	<p>Two complaints were received by 1823 (ref: CASE # 3-7043757669 via voice mail) on 29<sup>th</sup> December 2021 at 12:07 a.m. and (ref: CASE # 3-7046572787 via email) on 29<sup>th</sup> December 2021 at 1:07 a.m. and 1:18 a.m. (repeat email). The complainant, Mr. Sung concerned about the night-time noise nuisance generated from the Tai Po Road (Sha Tin Section) construction site (near Hilton Plaza) on 23<sup>rd</sup> December 2021 at 12:30 a.m. and 29<sup>th</sup> December 2021 at 12:00 a.m.</p> <p>According to Main Contractor, there were night-time construction works carried out at Tai Po Road and near Hilton Plaza (Zone 1 and 2) on 22<sup>nd</sup> ^ 23<sup>rd</sup> and 28<sup>th</sup> ^ 29<sup>th</sup> December 2021. The works included TTA implementation, pavement breaking along existing profile barriers, excavation (handling of rubble), remove steel plate from the trench, pipe laying inside the trench, reinstate steel plate to cover trench, removal of rubble, plant demobilization, and site clearance on 22<sup>nd</sup> ^ 23<sup>rd</sup> December 2021. Moreover, TTA implementation, dismantling of access tower, noise barrier steel post delivery, plant mobilization, pavement breaking along existing profile barriers, erection of noise barrier steel post, removal of existing profile barriers, and site clearance were carried out on 28<sup>th</sup> ^ 29<sup>th</sup> December 2021.</p> <p>ET checked that the Main Contractor did not comply with the conditions listed in CNP No.: GW-RN0600-21 and GW-RN0916-21 during the construction work activities on 22<sup>nd</sup> ^ 23<sup>rd</sup> and 28<sup>th</sup> ^ 29<sup>th</sup> December 2021 with unauthorized PME being used on-site. Enhance measures and supervision was urged by ET to the Main Contractor to prevent similar incident from happening again. The Main Contractor reported that enhancement measures, included altering the works schedule, enhance supervision and control system are applied currently.</p> <p>The Main Contractor was reminded again by ET to strictly follow and fully comply with the requirement listed in the CNP. Only allowable PMEs listed in the CNP can be used to carry out construction works. Mitigation measures should also be applied</p>	26/01/2022

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						according to CNP condition 3.d., 4.d and EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	
EPD ref.: RN1596-22	17/01/22	EPD	CCZJV	Noise and Dust	18/01/22	<p>The complaint was received by EPD Regional Office (North) (ref: RN1596-22) on 17<sup>th</sup> January 2022. The complainant who lived near Mei Wo House, Wo Che Estate concerned about the night-time noise and dust nuisance generated from the nearby road.</p> <p>The construction work activities were allowed under the in-force CNP no.: GW-RN0916-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (23:00-05:00) on 13<sup>th</sup> and 14<sup>th</sup> January 2022 (at Zone 5), and these construction activities were carried out within the allowable location listed in the CNP (Zone I). The night-time construction works on 13<sup>th</sup> and 14<sup>th</sup> January 2022 included TTA implementation, Loading and Unloading of rubble, Lifting Operation, and Site Clearance. For 14<sup>th</sup> January 2022, night-time works included TTA implementation, Loading and Unloading of rubble, Lifting operation, Plant mobilization, and Site Clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0916-21 about the allowable location, construction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 7<sup>th</sup> December 2021 and Notice to Affected Residents – PN162 and 165 have been issued to nearby NSRs on 28<sup>th</sup> December 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.</p>	26/01/2022



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COM-2022-0313	08/06/22	1823	CCZJV	Noise	15/06/22	<p>A complaint was received via 1823 (ref: CASE#3-7246071575) on 8<sup>th</sup> June 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Wo Che Estate.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0185-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-05:00) on 7<sup>th</sup> June 2022. (At Zone 5). The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. The night-time construction works on 7<sup>th</sup> June 2022 included Temporary Traffic Arrangement (TTA) implementation, Erection of noise barrier panels and site clearance.</p> <p>ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0185-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&amp;A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.</p>	06/07/22
COM-2022-320	01/08/22	1823	CCZJV	Dust & Noise	02/08/22	<p>A complaint was received by 1823 (ref: CASE#3-7318357344) on 25<sup>th</sup> July 2022. The complainant who is concerned about the dust and noise nuisance generated from construction works near Shatin Plaza. According to the Main Contractor, there were construction activities near Shatin Plaza (Zone 3) on 25th July 2022. Thus, this complaint considered to be related to the project. According to ET investigation, no exceedance cases were found on ET regular day-time noise monitoring. The Main</p>	17/08/22

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						Contractor was reminded to provide noise mitigation measures for the PMEs and noisy works to ensure the noise impact generated from the site is minimized. Consider the dust nuisance, no exceedance cases were found on ET regular air quality monitoring. The Main Contractor was reminded to provided dust suppression mitigation measures for the exposed area.	
COM-2022-326	05/08/22	1823	CCZJV	Noise	15/08/22	<p>A complaint was received by 1823 (ref: CASE#3-7328538008) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works along Tai Po Road between 3 to 4 a.m.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone I, II &amp; III) and within the site boundary listed in the CNP.</p> <p>ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&amp;A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.</p> <p>ET carried out regular night-time noise monitoring on 4th ^</p>	Expect to be submitted to EPD during Sep 2022

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-327	05/08/22	1823	CCZJV	Noise	16/08/22	<p>5th August 2022, no exceedance case was found.</p> <p>A complaint was received by 1823 (ref: CASE#3-7333891394) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Lucky Plaza.</p> <p>The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP.</p> <p>ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&amp;A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.</p> <p>ET carried out regular night-time noise monitoring on 4th ^ 5th August 2022, no exceedance case was found.</p>	Expect to be submitted to EPD during Sep 2022

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## Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	7	0	7
Noise	41	2	43
Water	3	0	3
Waste	0	0	0
<b>Total</b>	<b>48*</b>	<b>0</b>	<b>50*</b>

\*The 1<sup>st</sup> complaint in March 2021, Jan 2022 and July 2022 were included both the air and noise parameters, hence the total no. of complaints is deducted by 2.

## 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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

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### **Appendix M**

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



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

Parameter	Date	Observations and Reminders	Follow-up Action Taken
Air Quality	11 Aug 2022	Observation 2: Dusty materials outside the construction site should be cleared. (Zone 3, SB)	Dusty materials outside the construction site was cleared.
	15 Aug 2022	Observation 2: The stockpiles should be covered or removed. (Zone 3, KW7)	The stockpile was removed.
	26 Aug 2022	Observation 3: Dusty material outside the construction site should be cleared. (Zone 5, Cycle track)	Dusty material along the water barrier was cleared.
	26 Aug 2022	Reminder 2: Stockpile should be removed or covered. (Zone 5, Portion E)	N/A
Noise	No specific observation was identified in the reporting month.		
Water Quality	15 Aug 2022	Observation 1: Discharge of untreated muddy water should be stopped. The contractor is reminded the muddy water should be treated in a sedimentation tank before discharge. (Zone 3, NHA)	Discharge point was removed.
	15 Aug 2022	Reminder 1: The contractor is reminded the U-channel should be cleared. (Zone 1, NB)	N/A
	15 Aug 2022	Reminder 2: The contractor is reminded the stagnant water should be removed. Also, muddy water should be pumped into the sedimentation tank.	N/A
	26 Aug 2022	Observation 1: Sandbags should be replaced or provided along the water barrier. (Zone 3, S5E2)	Sandbags were replaced along the water barrier.
	26 Aug 2022	Observation 4: Sandbags should be replaced around the gullies to prevent soil from being washed by rain into it. (Zone 4, S6E1)	Sandbags were replaced around the gullies
	26 Aug 2022	Observation 5: Tarpaulin sheets and sandbags should be provided along the water barrier to prevent muddy water flow into the public areas. (Zone 5, Slope F166)	Tarpaulin sheets and sandbags were replaced along the water barrier.
Chemical and Waste Management	4 Aug 2022	Observation 2: Temporary waste containers should be provided for good housekeeping. (Zone 2, SB)	Accumulated wastes were cleared.

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Parameter	Date	Observations and Reminders	Follow-up Action Taken
	11 Aug 2022	Reminder 1: Waste generated at the site should be cleared regularly. (Zone 3, SR4)	N/A
	15 Aug 2022	Observation 3: Stagnant water in the drip tray should be cleared to prevent chemical leakage. (Zone 1, NB)	The stagnant water in drip tray were cleared
	26 Aug 2022	Reminder 1: Waste generated at the site should be removed regularly for good housekeeping. (Zone 4, NF40)	N/A
Land Contamination	4 Aug 2022	Observation 1: The rock breaker should be placed on a tarpaulin sheet to prevent soil contamination. (Zone 3, SB & Zone 1, NB)	Tarpaulin sheets were provided for detached breaker.
	26 Aug 2022	Observation 2: Tarpaulin sheets should be padded under the rock breaker to prevent soil contamination. (Zone 4, NF40)	Tarpaulin sheets were padded under the rock breaker.
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	11 Aug 2022	Observation 1: NRMMs label should be provided to replace the substandard label. (Zone 3, N4)	NRMM label was replaced.