

# FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,  
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Report No.: 0064/18/ED/0624B

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## QUARTERLY EM&A REPORT

September 2021 – November 2021

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

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

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

**Report No.** : 0064/18/ED/0624B

**Prepared by** : Tommy Ho

**Reviewed by** : Rex Chow

**Certified by** :   
\_\_\_\_\_  
David Hung  
Environmental Team Leader  
Fugro Technical Services Limited



Our ref: PL-202112032

Unit 2813, Level 28,  
Tower I, Metroplaza,  
223 Hing Fong Road, Kwai Fong,  
N.T., Hong Kong.

Attention: Mr. Joseph YAN

31 December 2021

Dear Joseph,

**NE/2017/05**

**Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)  
Quarterly EM&A Report for September to November 2021**

I refer to the email of the ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0624B, we have no adverse comment on it and verify this quarterly report according to section 1.9 of the Environmental Permit with Permit No. EP- 463/2013/B.

Yours faithfully,



Li Wai Ming Kevin  
Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com)  
CEDD – Mr. YAN Joseph (by email only: jkcyan@cedd.gov.hk)  
ETL – Mr. David Hung (by email only: d.hung@furgo.com)



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5 Lok Yi Street, Tai Lam

Tuen Mun, NT

Hong Kong

Date 31 December 2021

Our Ref. MCL/ED/0519/2021/C

The EIA Ordinance Register Office  
Environmental Protection Department  
27/F, Southorn Centre,  
130 Hennessy Road, Wan Chai, Hong Kong  
Attn: Ms. LAU Yee Ching, Eva

BY HAND & E-MAIL

Dear Ms. Lau,

**Contract No. NE/2017/05**

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

**Environmental Permit: EP-463/2013B**

**Submission of Quarterly EM&A Report – September 2021 to November 2021**

**(0064/18/ED/0624B)**

Pursuant to Updated EM&A Manual Section 8.7, we hereby submit three hardcopies and two e-copy of the quarterly EM&A Report (0064/18/ED/0624B) for your retention. This quarterly EM&A Report has been certified by ETL and verified by IEC accordingly.

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

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

David Hung  
Environmental Team Leader

c.c. CEDD Attn: Ms. Joseph Yan / Mr. Kevin Yip (by E-mail)  
AECOM Attn: Mr. Albert Yu / Mr. Andrew Cheng / Mr. Jacky Choi / Mr. Eric Yau (by E-mail)  
IEC Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)  
CCZJV Attn: Mr. Anthony Poon / Ms. Kimberly Wong (by E-mail)

Encl.

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Report No.: 0064/18/ED/0624B

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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 is the 12<sup>th</sup> Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 September 2021 and 30 November 2021. As informed by the Contractor, major activities in the reporting period included:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Sep 2021	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Sheet Pile and Road Reconstruction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Sheet Pile and Road Reconstruction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling</li> <li>• Retaining and Lagging Wall Construction Works</li> <li>• Construction of Cycle Track Subway, Pump Room and Stem Wall Construction Works</li> <li>• Construction Work for Temporary Site Access Relocation for SR6 Construction Works</li> <li>• Pre Bore H Pile Construction Works</li> <li>• Profile Barrier and Stem Wall Construction Works</li> <li>• Construction Works for N263 Bridge Deck Widening</li> <li>• ELS Works at SHA for Widening of SR3</li> <li>• Piezometer for Underground Water Pressure Measurement</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Stem Wall and Drainage Construction Works</li> <li>• Construction work at Slope and Sheet Pile Works</li> <li>• Road Maintenance Works</li> </ul>
Oct 2021	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation /</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> </ul>

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	<p>Felling / Pruning / Transplantation)</p> <ul style="list-style-type: none"> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Road Reconstruction Works and Sheet Pile Removal</li> </ul>	<p>/ Felling / Pruning / Transplantation)</p> <ul style="list-style-type: none"> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Road Reconstruction Works and Sheet Pile Removal</li> </ul>	<p>(Including Preservation / Felling / Pruning / Transplantation)</p> <ul style="list-style-type: none"> <li>• Road Surface Maintenance</li> <li>• Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling</li> <li>• Retaining Wall Construction Works</li> <li>• Construction of Cycle Track Subway, Pump Room and Stem Wall Construction Works</li> <li>• Lagging Wall Construction Works</li> <li>• Construction Work for Temporary Site Access Relocation</li> <li>• Pre Bore H Pile Construction Works</li> <li>• Profile Barrier and Stem Wall Construction Works</li> <li>• Foundation Works for SR2</li> <li>• Construction Works for N263 Bridge Deck Widening</li> <li>• Construction Works for SR6 Temporary Widening</li> <li>• ELS Works at SHA for Widening of SR3</li> <li>• Piezometer for Underground Water Pressure Measurement</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation Works</li> <li>• Erection of 7m Height Fencing</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling</li> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Stem Wall and Drainage Construction Works</li> </ul>
Nov 2021	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation and Erection</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Construction / Diversion of Underground Utilities, Including</li> </ul>	<ul style="list-style-type: none"> <li>• Road Surface Maintenance</li> <li>• NF40 Footbridge Construction Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Erection of 7m Height Fencing and Protection</li> </ul>	<ul style="list-style-type: none"> <li>• Road Surface Maintenance</li> <li>• Mini Pile Construction Works</li> <li>• Noise Barrier Foundation Works</li> <li>• Stem Wall and Drainage Construction Works</li> </ul>

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	<p>Works</p> <ul style="list-style-type: none"> <li>• Road Reconstruction Works, Sheet Pile Removal and Lane Shifting Works</li> </ul>	<p>Foundation and Erection Works</p> <ul style="list-style-type: none"> <li>• Road Reconstruction Works, Sheet Pile Removal and Lane Shifting Works</li> </ul>	<p>ELS Works and Sheet Piling</p> <ul style="list-style-type: none"> <li>• Retaining Wall Construction Works</li> <li>• Construction of Cycle Track Subway, Pump Room and Stem Wall Construction Works</li> <li>• Demolition of Existing Parapet</li> <li>• Lagging Wall Construction Works</li> <li>• Pre Bore H Pile Construction Works</li> <li>• Profile Barrier and Stem Wall Construction Works</li> <li>• Foundation Works for SR2</li> <li>• Construction Works for N263 and N264 Bridge Deck Widening</li> <li>• Construction Works for SR6 Temporary Widening</li> <li>• ELS Works at SHA for Widening of SR3</li> <li>• Water Mains Connection Works</li> <li>• Erection Works of Temporary Height Gantries</li> </ul>	<p>Measure for MTRC Railway</p>	
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## Breaches of the Action and Limit Levels

- iii. No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP at the site area in the reporting quarter.
- iv. Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period.
- v. For night time construction noise monitoring, no exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter.

## Complaint, Notification of Summons and Successful Prosecution

- vi. Total seven complaints were received in the reporting period. (1) Drainage Services Department (DSD) issued a notice (Ref: MS 8/0/CE2815/0 pt.6) to AECOM after their morning inspection on 1<sup>st</sup> 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. (2) The 2<sup>nd</sup>

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complaint was received by the EPD Regional Office (North) on 28<sup>th</sup> October 2021 about the noise nuisance generated from the night-time construction activities near Man Wo House, Wo Che Estate (from 25 to 28<sup>th</sup> October 2021, during 2 to 5 a.m.). (3) The 3<sup>rd</sup> complaint was received by 1823 (ref: #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. (4) The 4<sup>th</sup> 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. (5) The 5<sup>th</sup> 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. (6) The 6<sup>th</sup> complaint was received by 1823 (ref: CASE# 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. (7) The 7<sup>th</sup> 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 noise nuisance generate from the night-time construction activities near Sha Tin Station. For the 7<sup>th</sup> complaint, ET is carrying out investigation and the incident report will be submitted to EPD in December 2021.

- vii. No notification of summons and successful prosecution were received in the reporting period.





## 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 quarterly 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 12<sup>th</sup> quarterly 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 September 2021 and 30 November 2021.

**1.2 Project Organization**

1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as the Engineer for the Project. Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture was commissioned as the Independent Environmental Checker (IEC). China railway – China Railway First Group – Zhen Hua Engineering Joint Venture (CCZJV) was appointed as the main contractor for the construction works under the contract NE/2017/05. Fugro Technical Services Limited (FTS) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.

1.2.2 The organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarized in **Table 1.1**.

**Table 1.1 Contact Information of Key Personnel**

Party	Position	Name	Telephone
Project Proponent (CEDD)	Senior Engineer	Mr. Joseph Yan	3152 3470
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. Kimberly Wong	5222 4603
ET (FTS)	Environmental Team Leader	Mr. David Hung	3565 4371



**1.3 Construction Programme and Activities**

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

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Sep 2021	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Sheet Pile and Road Reconstruction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Sheet Pile and Road Reconstruction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling</li> <li>• Retaining and Lagging Wall Construction Works</li> <li>• Construction of Cycle Track Subway, Pump Room and Stem Wall Construction Works</li> <li>• Construction Work for Temporary Site Access Relocation for SR6 Construction Works</li> <li>• Pre Bore H Pile Construction Works</li> <li>• Profile Barrier and Stem Wall Construction Works</li> <li>• Construction Works for N263 Bridge Deck Widening</li> <li>• ELS Works at SHA for Widening of SR3</li> <li>• Piezometer for Underground Water Pressure Measurement</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Road Maintenance Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Stem Wall and Drainage Construction Works</li> <li>• Construction work at Slope and Sheet Pile Works</li> <li>• Road Maintenance Works</li> </ul>
Oct 2021	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Road Reconstruction Works and Sheet Pile Removal</li> </ul>	<ul style="list-style-type: none"> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation and Erection Works</li> <li>• Road Reconstruction Works and Sheet Pile Removal</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling</li> <li>• Retaining Wall Construction Works</li> <li>• Construction of Cycle Track Subway, Pump Room and Stem Wall Construction Works</li> <li>• Lagging Wall Construction Works</li> <li>• Construction Work for</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Noise Barrier Foundation Works</li> <li>• Erection of 7m Height Fencing</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Tree Works (Including Preservation / Felling / Pruning / Transplantation)</li> <li>• Road Surface Maintenance</li> <li>• Construction / Diversion of Underground Utilities,</li> </ul>

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			<p>Temporary Site Access Relocation</p> <ul style="list-style-type: none"> <li>• Pre Bore H Pile Construction Works</li> <li>• Profile Barrier and Stem Wall Construction Works</li> <li>• Foundation Works for SR2</li> <li>• Construction Works for N263 Bridge Deck Widening</li> <li>• Construction Works for SR6 Temporary Widening</li> <li>• ELS Works at SHA for Widening of SR3</li> <li>• Piezometer for Underground Water Pressure Measurement</li> </ul>		<p>Including ELS Works and Sheet Piling</p> <ul style="list-style-type: none"> <li>• Noise Barrier Foundation Works</li> <li>• Mini Pile Construction Works</li> <li>• Stem Wall and Drainage Construction Works</li> </ul>
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**1.4 Status of Environmental Licences, 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	27/07/2018	Nil
Construction Waste Disposal Account	7031619	17/08/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	06/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	09/11/2018	30/11/2023
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-RN0239-21	12/05/2021	11/11/2021
Construction Noise Permit for Drilling and Grouting Works for 11kV Cable Trench (Zone 4)	GW-RN0364-21	07/06/2021	06/09/2021
Construction Noise Permit for Sheet Pile Removal and Road (Surface Drain) Reconstruction Works (Zone 1 – 2)	GW-RN0365-21	08/06/2021	06/09/2021
Construction Noise Permit for the Operation of Water Pump (Zone 1 – 5)	GW-RN0433-21	01/07/2021	30/09/2021
Construction Noise Permit for Road Closure, Cross Road Beams Erection (Zone 3, under STRCR)	GW-RN0459-21	17/07/2021	30/09/2021
Construction Noise Permit for Road Closure, Road Maintenance and Modification Works (Zone 3)	GW-RN0598-21	22/08/2021	17/11/2021
Construction Noise Permit for Road Closure for General Night Works (Zone 1 – 5)	GW-RN0600-21	22/08/2021	19/02/2022
Construction Noise Permit for Road Closure, Lane Shifting Works (Zone 1 – 2)	GW-RN0636-21	05/09/2021	30/11/2021
Construction Noise Permit for Road Closure, Sheet Pile Removal and Road Reconstruction Works (Zone 1 – 2)	GW-RN0642-21	08/09/2021	06/12/2021
Construction Noise Permit for the Operation of Water Pump (Zone 1 – 5)	GW-RN0714-21	01/10/2021	31/03/2022
Construction Noise Permit for Water Mains Connection at Pei Tau Street (Zone 3)	GW-RN0775-21	28/10/2021	30/11/2021
Construction Noise Permit for Road Closure, Road Maintenance (Zone 1 – 3)	GW-RN0793-21	18/11/2021	08/03/2022

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<b>Environmental License / Permit / Notification</b>	<b>Reference Number</b>	<b>Valid From</b>	<b>Valid Till</b>
Construction Noise Permit for Road Closure, Lane Shifting and Removal of Sign Gantries Works (Zone 1 – 3)	GW-RN0798-21	13/11/2021	04/12/2021
Construction Noise Permit for Road Closure, G39 Profile Barrier Erection Works (Zone 3)	GW-RN0861-21	26/11/2021	24/01/2022



**2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS**

**2.1 Monitoring Requirement**

2.1.1 In accordance with the updated EM&A Manuals, 24-hour & 1-hour Total Suspended Particulates (TSP) level and Leq (30min) at the designated monitoring stations is required. Impact 24-hour and 1-hour TSP monitoring should be carried out at least once every 6 days. Leq (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays. The Action and Limit Levels of the air quality monitoring and noise monitoring are given in **Appendix C**.

**2.2 Monitoring Locations**

2.2.1 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. The most updated locations are summarized in **Table 2.1** and shown in **Figure 2a**.

**Table 2.1 Location of Air Quality Monitoring**

Reporting Period	Monitoring Station	Location	Land uses
Sep 2021	AMS 5	Tin Liu	Residential Village
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 14	Ha Wo Che	Residential Village
	AMS 15	Ha Wo Che	Residential Village
Oct 2021	AMS 5	Tin Liu	Residential Village
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 14	Ha Wo Che	Residential Village
	AMS 15	Ha Wo Che	Residential Village
Nov 2021	AMS 4A	Wai Wah Centre (Site Boundary)	Residential
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 12	Fung Wo Estate	Residential
	AMS 17	Wo Che Estate	Residential

2.2.2 According to the updated EM&A Manual, 25 noise monitoring locations were included during the noise monitoring. The most updated locations are summarized in **Table 2.2** and shown in **Figure 2b**.



**Table 2.2 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

**2.3 Results and Observations**

2.3.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations. The monitoring data of 24-hr and 1-hr TSP are summarized in **Table 2.3 and 2.4**. Graphical presentation of the monitoring data in the reporting period is presented in **Appendix D**.

**Table 2.3 Summary of 24-hr TSP Monitoring Results**

Monitoring Station	24-hr TSP ( $\mu\text{g}/\text{m}^3$ ) in Reporting Period			Average ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	Sep 2021	Oct 2021	Nov 2021			
AMS 4A	-	-	43 – 59	50	200	260
AMS 5	48 – 86	40 – 54	-	60	156	
AMS 7A	46 – 76	43 – 48	44 – 69	52	171	
AMS 12	-	-	40 – 70	52	168	
AMS 14	48 – 89	45 – 53	-	58	174	
AMS 15	47 – 81	45 – 51	-	57	172	
AMS 17	-	-	48 – 63	54	171	





**Table 2.4 Summary of 1-hr TSP Monitoring Results**

Monitoring Station	1-hr TSP ( $\mu\text{g}/\text{m}^3$ ) in Reporting Period			Average ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	Sep 2021	Oct 2021	Nov 2021			
AMS 4A	-	-	44 – 73	61	348	500
AMS 5	63 – 118	41 – 73	-	74	340	
AMS 7A	49 – 115	50 – 67	42 – 94	64	344	
AMS 12	-	-	32 – 83	61	296	
AMS 14	61 – 119	48 – 70	-	70	350	
AMS 15	57 – 102	42 – 69	-	69	350	
AMS 17	-	-	56 – 73	63	338	

2.3.2 During the reporting period, major dust sources including trial pits excavation, sheet piling and removal works, demolition of existing parapet, mini pile construction works, road reconstruction and maintenance works were observed in the site.

2.3.3 No Action / Limit Level exceedance for day time construction noise monitoring was recorded in the reporting period at all monitoring stations. The results are summarized in **Table 2.5**. Graphical presentation of the monitoring data in the reporting period is presented in **Appendix D**.



**Table 2.5 Summary of Day Time Noise Impact Monitoring Results**

Monitoring Station	Leq (30min) Range ,dB(A) in Reporting Period			Leq (30min) Limit Level, dB(A)
	September 2021	October 2021	November 2021	
NMS1	63.6 – 67.0	63.9 – 67.3	62.9 – 64.6	75
NMS2	53.9 – 54.9	53.3 – 54.2	51.6 – 54.4	75
NMS3	65.6 – 68.7	67.9 – 68.2	67.7 – 68.2	75
NMS4	63.4 – 65.6	64.8 – 65.5	64.0 – 66.2	75
NMS5A	69.1 – 71.8	69.3 – 70.0	69.0 – 71.0	75
NMS6A	72.9 – 74.0	71.3 – 73.3	70.6 – 73.4	75
NMS7	63.3 – 68.9	64.4 – 65.3	63.6 – 64.6	75
NMS8	64.5 – 67.7	65.4 – 69.7	58.7 – 67.4	75
NMS9	61.8 – 65.9	66.0 – 70.3	61.6 – 67.4	75
NMS10A	62.3 – 63.5	62.6 – 65.4	62.2 – 67.7	65 & 70 <sup>[2][3]</sup>
NMS11	56.4 – 57.9	60.0 – 64.6	55.5 – 61.4	75
NMS12	63.6 – 64.3	63.1 – 64.8	60.1 – 63.8	65 & 70 <sup>[2][4]</sup>
NMS13	59.9 – 62.2	59.0 – 66.8	58.3 – 63.2	75
NMS14	61.8 – 64.8	61.6 – 64.0	57.8 – 62.7	75
NMS15	58.4 – 64.0	59.0 – 62.5	57.8 – 62.3	75
NMS16	62.7 – 63.8	61.0 – 63.0	61.0 – 64.4	75
NMS17	60.0 – 62.3	61.8 – 64.8	58.6 – 62.9	65 & 70 <sup>[2][5]</sup>
NMS18	60.2 – 63.4	59.1 – 61.8	57.1 – 63.5	75
NMS19	64.2 – 66.6	63.1 – 67.9	57.4 – 66.0	75
NMS20	60.2 – 64.4	61.1 – 66.8	60.1 – 63.7	75
NMS23	62.5 – 67.1	64.7 – 66.9	65.1 – 66.2	75
NMS24	64.1 – 68.1	63.0 – 68.9	60.4 – 67.3	75
NMS25A	59.3 – 66.5	58.9 – 70.4	63.7 – 66.1	75
NMS26	68.6 – 70.7	63.5 – 72.4	68.4 – 71.2	75
NMS27	64.2 – 66.0	63.7 – 65.4	62.7 – 64.8	65 & 70 <sup>[2][6]</sup>

- Note:
1. Leq (30min) was measured at day-time (0700-1900) on normal weekdays.
  2. 70 dB (A) for schools and 65 dB (A) for schools during examination period. School calendar of NMS 10A, NMS12, NMS 17 and NMS 27 are provided in the monthly report for reference.
  3. The limit level was 65 dB (A) for Shatin Tsung Tsin School (NMS 10) during 17 – 19, 22 – 23 November 2021.
  4. The limit level was 65 dB (A) for SKH Holy Spirit Primary School (NMS 12) during 26 – 29 October 2021.
  5. The limit level was 65 dB (A) for Shatin Pui Ying College (NMS 17) during 25 – 29 October 2021.
  6. The limit level was 65 dB (A) for Jockey Club TI-I College (NMS 27) during 11 – 18 November 2021.



2.3.4 According to the Monthly EM&A reports, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month. The results are summarized in **Table 2.6**.

**Table 2.6 Summary of Night Time Noise Impact Monitoring Results (2300 – 0700)**

Monitoring Station	Leq Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq Limit Level, dB(A)
	Sep 2021	Oct 2021	Nov 2021		
NMS 1	56.9 – 59.8	58.1 – 59.9	58.2 – 61.2	61.4	55
NMS 2	51.1 – 53.2	50.7 – 53.7 <sup>[2]</sup>	51.7 – 54.9	49.7	55
NMS 3	61.6 – 68.6	60.9 – 68.8	61.2 – 64.1	70.9	55
NMS 4	59.0 – 62.5	60.4 – 61.2	60.0 – 62.3	62.6	55
NMS 5A	49.8 – 68.0 <sup>[2][3]</sup>	51.6 – 64.7 <sup>[2][3]</sup>	51.6 – 67.6 <sup>[2]</sup>	67.9	55
NMS 6A	63.0 – 68.9	63.2 – 71.3	69.7 – 70.7	71.5	55
NMS 7	46.1 – 58.8 <sup>[2]</sup>	45.7 – 54.0 <sup>[2]</sup>	47.5 – 58.8 <sup>[2]</sup>	59.0	55
NMS 8	58.7 – 62.4	61.2 – 62.8	57.2 – 64.2	64.4	55
NMS 9	50.0 – 54.4 <sup>[2]</sup>	50.6 – 54.4 <sup>[2]</sup>	51.2 – 54.6 <sup>[2]</sup>	53.5	55
NMS 11	50.9 – 54.9	49.1 – 54.3 <sup>[2]</sup>	53.0 – 54.3 <sup>[2]</sup>	53.2	55
NMS 13	53.8 – 56.1 <sup>[2]</sup>	48.2 – 56.5 <sup>[2]</sup>	50.4 – 55.4 <sup>[2]</sup>	57.3	55
NMS 14	50.4 – 54.1 <sup>[2]</sup>	49.1 – 54.6 <sup>[2]</sup>	51.8 – 54.1 <sup>[2]</sup>	54.1	55
NMS 15	54.9 – 58.4	56.6 – 58.0	42.5 – 58.7	58.8	55
NMS 16	51.7 – 59.2 <sup>[2]</sup>	54.8 – 59.7	54.8 – 59.9	60.1	55
NMS 18	54.6 – 59.8	55.3 – 59.2	53.3 – 57.8	63.2	55
NMS 19	59.4 – 61.2	50.2 – 61.6 <sup>[2]</sup>	58.4 – 61.0	61.7	55
NMS 20	53.6 – 57.2	44.4 – 55.3 <sup>[2]</sup>	53.3 – 56.1	57.7	55
NMS 23	47.9 – 57.9 <sup>[2]</sup>	48.4 – 59.7 <sup>[2]</sup>	49.7 – 58.5 <sup>[2]</sup>	59.9	55
NMS 24	47.9 – 57.3 <sup>[2]</sup>	46.5 – 54.7 <sup>[2]</sup>	47.8 – 57.8 <sup>[2]</sup>	58.0	55
NMS 25A	52.0 – 58.0	43.4 – 56.0 <sup>[2]</sup>	54.0 – 56.4 <sup>[2]</sup>	59.7	55
NMS 26	49.4 – 61.0 <sup>[2]</sup>	52.1 – 60. <sup>[2]</sup>	44.9 – 60.5 <sup>[2]</sup>	61.2	55

- Note:
1.  $L_{eq (15min)}$  was measured at night-time (2300-0700).
  2. When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where  

$$\text{Calculated CNL} = 10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$
  3. Exceedance due to traffic vehicle noise was observed on 2, 16 and 29 September and 28 October 2021.

2.3.5 During the reporting period, other factors such as road traffic along Tai Po Road may affect the monitoring results. Major noise sources including road traffic along Tai Po Road was observed which may affect the monitoring results.

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

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### 3. LANDSCAPE AND VISUAL

#### 3.1 Results and Observations

- 3.1.1 Site audits were carried out to monitor and audit the implementation of landscape and visual mitigation measures.
- 3.1.2 No non-compliance was recorded in the weekly Site audits in the reporting period.
- 3.1.3 Observations and recommendations during site audits are summarized in **Table 5.1**.



## 4. WASTE MANAGEMENT

### 4.1 Results and Observations

- 4.1.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 4.1.2 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix E**.
- 4.1.3 The Contractor was advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor was reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 4.1.4 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
- 4.1.5 The Contractor was reminded to prevent dust nuisance generated from the construction activities by frequent water spraying and the stockpile of construction materials should be covered to have dust suppression. The Contractor was reminded that no debris or silt should be deposited on the adjacent land and outside the site boundary.
- 4.1.6 The Contractor was reminded to provide sufficient wastewater treatment facilities for handling the muddy water being generated from construction activities. The discharge of wastewater from the site should meet the requirement stated in the Water Discharge License. The Contractor was reminded to review the efficiency and provided maintenance of the wastewater treatment facilities regularly.
- 4.1.7 Observations and recommendations during site audits are summarized in **Table 5.1**.



**5. SITE INSPECTION**

**5.1 Site Inspection**

- 5.1.1 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 G**.
- 5.1.2 In the reporting quarter, 13 weekly site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET.
- 5.1.3 All the follow-up actions requested by Contractor’s ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting period.
- 5.1.4 Details of observations recorded during the site inspections are presented in **Table 5.1**.

**Table 5.1 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	2 September 2021	<b>Reminder:</b> 1. The stockpile of excavated soil waiting for backfilling should be covered with tarpaulin (Zone 4, NF40).	-
	16 September 2021	<b>Reminder:</b> 1. NRMM labels should be provided for on-site machineries (Zone 4, SB).	-
	24 September 2021	<b>Observation:</b> 1. Decolourized NRMM label should be replaced with a new one and displayed at a conspicuous position (Zone 3, South Boundary, SR3).	1. NRMM label has been replaced (Zone 3).
	7 October 2021	<b>Observation:</b> 1. Stockpile of excavated soil should be covered with tarpaulin to prevent dust impact. Also prevent the washing of excavated soil by rainwater (Zone 3, S06).	1. Sandbags and tarpaulin have been provided to minimize / prevent surface runoff or silt leaked to public area (Zone 3).
	15 October 2021	<b>Observation:</b> 1. Decolorized NRMM should be replaced with a new one (Zone 4, S6E1).	1. NRMM label has been replaced (Zone 4).
	17 November 2021	<b>Observation:</b> 1. Cement bags should be covered properly with tarpaulin, enclosed with three sides (Zone 3, SB, S06).  2. Stockpile of sand should be covered properly with tarpaulin (Zone 3, SB, SR3, near bus station).	1. Cement bags have been covered properly (Zone 3).  2. Stockpile of sand has been covered (Zone 3).
Noise	11 November 2021	<b>Observation:</b> 1. Temporary blanket should be placed at the noise emission part of the pilling machine for reducing noise nuisance (Zone 3, SB, SR5).	1. Screen has been provided (Zone 3).
	23 November 2021	<b>Reminder:</b> 1. Blanket should be placed at the noise emission part of the pilling machine for reducing noise impact during pilling works (Zone 3, SB, SR5).  2. According with the previous promise with the district council member, further mitigation measures should be applied to minimize noise nuisance generated from the collision of iron chain during loading, unloading and piling activities (Zone 3, SB, SR3).	-
Water Quality	2 September 2021	<b>Observation:</b> 1. Soil runoff to the u-channel should be concerned and enhanced the mitigation measures. The function of the on-site u-channel should be checked and de-silted regularly to avoid silt accumulation, channel blockage, or muddy water outflow at the discharge point (Zone 3, S06, Tank TP401).  2. The contractor should review the sedimentation tanks treatment efficiency for handling the muddy water generated from pilling works. Although alum was added into the sedimentation tank, there was insufficient time for reaction and settling. Muddy water was observed at	1. The U-channel has been cleared (Zone 3).  2. The U-channel has been cleared/The wastewater treatment facilities have been reviewed and new sedimentation tank has been deployed (Zone 3).

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Parameters	Date	Observations and Recommendations	Follow-up
		<p>the public drainage system outside the site entrance. The public drainage should be cleaned immediately and avoid muddy water discharge (Zone 3, S05, near site entrance).</p> <p>3. According to the contractor, the pilling works were stopped during the ET site walk. However, ET strongly advises the contractor to review the sedimentation tanks treatment efficiency for handling the muddy water generated from pilling works (either single or double machine operation). A poor condition was observed at multiple sedimentation tanks, which were filled with concentrated muddy water and silt. A proper rectification is needed to prevent any muddy water from entering the public drainage system. Moreover, the on-site drainage channel was filled with rock and silt. Cleaning, de-silting and mitigation measures are needed to ensure no muddy water outflow to the cycling track or enter into the public drainage system (Zone 5 South Boundary, near NF66).</p>	<p>3. The wastewater treatment facilities have been reviewed and new sedimentation tanks have been deployed (Zone 5).</p>
	9 September 2021	<p><b>Observation:</b></p> <p>1. Surface runoff trap should be deeper or added with sedimentation tank to collect the surface water incoming from the highway (Zone 5 SB).</p> <p>2. The mitigation measures for the discharge points and manholes should be enhanced with sandbags or cement bunding to prevent muddy water inflow (Zone 5 SB).</p> <p>3. Slope should be covered with tarpaulin to avoid erosion, minimized the area exposed and prevented muddy water runoff to the u-channel (Zone 5 SB).</p> <p>4. Gully that are next to the unpaved area or soil surface should be blocked to prevent muddy water entering (Zone 5 SB).</p> <p>5. U-channel should be cleaned and desilted regularly. Moreover, particular attention should be paid for the water collection efficiency under normal construction work activities and adverse weather condition for preventing muddy water overflow to the cycling track (Zone 5 SB).</p> <p>6. The pH meter of the WetSep was observed as malfunction. The contractor should repair the pH meter and ensure the pH of the water discharge is fulfilled the requirement listed in the water discharge license (Zone 5 SB).</p> <p><b>Reminder:</b></p> <p>1. WetSepts and sedimentation tanks for muddy water treatment should be closed to the pilling location. It is for ensuring the treatment efficiency is acceptable (Zone 5 SB).</p>	<p>1. The surface runoff trap has been excavated deeper for collection (Zone 5).</p> <p>2. Mitigation Measure for discharge point has been enhanced to prevent muddy water inflow (Zone 5).</p> <p>3. Slope has been applied by cementitious material to minimize the soil surface next to the U-channel.</p> <p>4. Gully has been blocked (Zone 5).</p> <p>5. The U-channel has been cleared (Zone 5).</p> <p>6. The pH meter of WetSep has been repaired and well functioning (Zone 5).</p>
	16 September 2021	<p><b>Follow-up and Observation:</b></p> <p>Follow-up 1. The silt trap for collecting muddy water should be reviewed to ensure the pump, muddy water outfall location are appropriate, also have enough capacity and depth (Zone 5, SB).</p> <p>Follow-up 2. The mitigation measure for the discharge point and manhole were enhanced with cement bunding and wood board to prevent muddy water and silt inflow (Zone 5, SB).</p> <p>Follow-up 3. Slope have been paved for minimizing the soil surface exposed and u-channel have been de-silted (Zone 5, SB).</p> <p>Follow-up 4 and Observation 1: Two gullies that are next to the highway were covered with sandbag. However, tarpaulin should be provided for temporary coverage to prevent silt from entering. Another two gullies that are closed to the pilling work location, unpaved area and soil surface are blocked (Zone 5, SB).</p> <p>Follow-up 5 and Observation 2. The pH meter in the left WetSep have been fixed. However, the pH meter of the right WetSep needs to be installed and ensure it is function properly. A checklist should also be provided for recording the pH value of the water being discharged (Zone 5, SB).</p>	<p>1. The tarpaulin have been provided for coverage (Zone 5)</p> <p>2. The WetSep on the right is not in use and the daily pH monitoring record has been prepared/ provided and waiting for EPD review and comment (Zone 5).</p> <p>3. Mitigation Measure for discharge point has been provided to prevent soil runoff (Zone 5).</p>

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Parameters	Date	Observations and Recommendations	Follow-up
		Follow-up 6 and Observation 3. U-channel have been cleaned. However, cement bunding/sandbag/paved/ soil cleaning should be provided to prevent soil runoff to the discharge point (Zone 5, SB).	
		<b>Reminder:</b> 1. Water accidentally outflow to the cycling track should be prevented and cleaned (Zone 5, SB).	-
	24 September 2021	<b>Reminder:</b> 1. Stagnant water should be cleaned before rainfall to avoid site surface water overflow at the site boundary (Zone 3, South Boundary, S06). 2. Stockpile of excavated material should be covered with tarpaulin before rainfall, also prevent washing of the materials and muddy water from entering the highway (Zone 3, South Boundary, S06).	-
	29 September 2021	<b>Observation:</b> 1. The soil surface next to the gullies should be paved or covered with tarpaulin to prevent muddy water formation. Housekeeping should also be maintained (Zone 5 South Boundary and near the TPT4 sedimentation tank).	1. Cementitious materials have been applied to minimize the soil surface next to the gullies and Housekeeping has been improved (Zone 5).
		<b>Reminder:</b> 1. Sedimentation tanks and wastewater treatment systems should be maintained and review regularly. Desilting of the sedimentation tank and silt trap should be performed regularly (Zone 5 South Boundary S3E1). 2. The second WetSep (TW-WS2) should ensure it is functioning properly (either with maintenance or replacement) before operating the second piling machine. Routine pH monitoring and record in the checklist are also needed to ensure the effluent is fulfilled the requirement stated in the Water Discharge License (WT00032446-2018) (Zone 5 South Boundary S3E1).	-
		<b>Follow-up:</b> 1. Mitigation measures near the catchpit are enhanced with wood boards and cement bunding to prevent silt and muddy water from entering (Zone 5 South Boundary S3E1). 2. Sandbags were placed to divert the surface water coming from the highway towards the inlets. The surface water collection channels are constructed. Rainwater coming from the highway is collected with the inlets, connected to the underground water pipes, by-passed the construction site towards the gullies and catchpit (Zone 5 South Boundary). 3 and 4. Most of the soil surface was either paved or covered with tarpaulin. Sandbags are provided along the highway boundary and slope to prevent a large amount of surface water from washing into the construction site and u-channel (Zone 5 South Boundary). 5. Unblocked gullies were temporarily covered with tarpaulin and placed sandbags alongside with to prevent silt and muddy water from entering (Zone 5 South Boundary).	-
		<b>Observation:</b> 1. Sandbags and tarpaulin should be provided to prevent muddy water formation, and silt outflow into the highway (Zone 3, S06). 2. Stockpile of excavated soil should be covered with tarpaulin to prevent dust impact. Also prevent the washing of excavated soil by rainwater (Zone 3, S06).	1. Sandbags and tarpaulin have been provided to minimize / prevent surface runoff or silt leaked to public area (Zone 3). 2. Stockpile of excavated soil has been covered (Zone 3).
	7 October 2021	<b>Reminder:</b> 1. Water leakage from the barrier was observed. Water accidentally outflow to the highway should be prevented. Mitigation measures such as water collection channel and improve the site practice should be considered (Zone 3, RW6).	-
		<b>Follow-up:</b> 1. New WetSep was settled on-site. The pH meter installed on two WetSeps are functioned properly and the readings fulfil the requirement (pH 6 - 10) stated in the Water Discharge License (Zone	-



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Parameters	Date	Observations and Recommendations	Follow-up
		5, south boundary).  2. According to the Main Contractor, only one piling machine was operated. Follow-up the last time observation, the soil surface next to the gullies are cleaned and being paved. Sandbags and tarpaulin coverage were provided next to the u-channel and site boundary next to the highway (Zone 5, south boundary).	
	15 October 2021	<b>Observation:</b> 1. Sandbags and tarpaulin should be provided to prevent muddy water formation, and silt outflow into the highway (Zone 3, S06).  2. Blockage and broken surface water collection channel were observed during rainfall. The surface water collection channel should be repaired and maintained its function (Zone 5, south boundary).	1. Sandbags and tarpaulin have been provided to prevent muddy water or silt leaked to public area (Zone 3).  2. Surface water collection channel have been repaired (Zone 5).
	26 October 2021	<b>Observation:</b> 1. Enhance the mitigation measure of bunding around the discharge point near the Wetsep TW-WS1 to prevent the inflow of muddy water (Zone 5, south boundary). <b>Reminder:</b> 1. Mitigation measure for enclosing the area near the piling machine to prevent passage of effluent should be improved with enough sandbags / bunds (Zone 5, south boundary).	1. Bunding for discharge point has been fixed and enhanced (Zone 5).  -
	2 November 2021	<b>Observation:</b> 1. Proper covering and sandbag bunding should be provided next to the u-channels to prevent mixing of the treated and untreated wastewater (Zone 3, S06). <b>Reminder:</b> 1. The sedimentation tank for collecting wastewater generated from wheel washing and construction works should be reviewed regularly with its size and effluent quality (Zone 3, SR3).	1. Sandbags have been provided next to U-channel (Zone 3).  -
	11 November 2021	<b>Observation:</b> 1. U-channel should be cleaned and sandbag should be placed properly to prevent an accidental outflow of surface water or wastewater into the highway (Zone 3, SB, near Lift 2). <b>Reminder:</b> 1. The temporary wastewater treatment system should be reviewed regularly for its treatment efficiency. Also, consider replacing it with the newly implemented sedimentation tank nearby (Zone 3, SB, S10).	1. U-channel has been cleaned and sandbag has been placed properly (Zone 3).  -
	17 November 2021	<b>Observation:</b> 1. Connection of different sedimentation tanks of the temporary wastewater treatment system should be considered for modification. It is for improving the overall treatment efficiency for handling the muddy water generated from piling works. U channel should also be cleaned (Zone 3, SB, SR5).	1. Sedimentation tanks and U channel have been cleaned (Zone 3).
Chemical and Waste Management	24 September 2021	<b>Observation:</b> 1. Drip tray filled with chemical and rainwater should be cleaned with a chemical absorbent pad and treated as chemical waste. A drip tray should be provided for the chemical container to prevent soil contamination. The chemical storage tank should also be clearly labeled in English and Chinese following the requirement listed in the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C, Part IV, Section 12) (Zone 3, South Boundary, S06).	1. Water in drip tray has been cleaned /Chemical drum has been removed (Zone 3).
	7 October 2021	<b>Observation:</b> 1. Drip tray filled with rainwater should be cleaned. The chemical container and drip tray should be covered to prevent rainfall entering (Zone 3, RW6). Coverage with tarpaulin and provide drip tray for holding the chemical containers are needed (Zone 4, S6E1).  2. General refuse and wastewater generated on-site should be cleaned to minimize odour, pest and litter impacts (Zone 3, RW7).	1. Chemical drum has been removed (Zone 3). Drip tray for the chemical drums has been provided and covered with tarpaulin to prevent stagnant water (Zone 4).  2. Skip has been removed (Zone 3).
	15 October 2021	<b>Observation:</b> 1. Chemical container should be provided with drip tray and covered properly (Zone 4, S6E1).	1. Chemical drum has been removed (Zone 4).
	18 October 2021	<b>Observation:</b> 1. Valve should be added to the drip tray to prevent chemical leakage and soil contamination (Zone 4, S6E1).	1. Plug has been provided in the drip tray (Zone 4).



Parameters	Date	Observations and Recommendations	Follow-up
	11 November 2021	<b>Observation:</b> 1. The malfunctioned sheet pile machine was observed with oil leakage. The leaking oil should be held with a bigger drip tray immediately for preventing continuous soil contamination. The contaminated soil should be treated and disposed as chemical waste (Zone 3, NB, RW7). 2. General refuse and lunch box should be cleaned to minimize odour, pest and litter impacts (Zone 3, SB, S10).	1. Contaminated soil has been removed and stored properly (Zone 3). 2. Debris has been removed (Zone 3).
	17 November 2021	<b>Observation:</b> 1. Mud and rock left on the highway should be cleaned, and considered further mitigation measures to prevent similar cases from happening again (Zone 3, NB, RW6).	1. Mud and rock have been cleaned (Zone 3).
Land Contamination	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	No deficiency was found during the reporting quarter.		
General Condition	No deficiency was found during the reporting quarter.		
Permit / Licenses	24 September 2021	<b>Observation:</b> 1. A copy of the environmental permits should be displayed at the site entrance for public information at all time. The contractor should ensure the permits being displayed are the most updated one (Zone 3, South Boundary, SR6).	1. The Environmental Permit has been displayed (Zone 3).
	18 October 2021	<b>Observation:</b> 1. Environmental Permit should be displayed conspicuously at the site entrance/exit for public information (Zone 3, SR6).	1. The Environmental Permit has been displayed (Zone 3).

5.1.5 Day-time site inspections were carried out by Environmental Protection Inspectors (EPIs) on 2<sup>nd</sup> November 2021 and 23<sup>rd</sup> November 2021, at Zone 1 to 3 south boundary. The EPIs inspected the general site condition, storage and handling of chemical waste, temporary wastewater treatment system, dust control and noise mitigation measures. For the inspection on 2<sup>nd</sup> November 2021, EPIs requested the Main Contractor to provide proper covering and sandbag bunding next to the u-channels to prevent mixing of the treated and untreated wastewater (Zone 3, S06). EPIs also reminded the Main Contractor to review the sedimentation tank for collecting wastewater generated from wheel washing and construction works regularly with its size and effluent quality (Zone 3, SR3). The Main Contractor rectified the EPIs observation on the same day (2<sup>nd</sup> November 2021), while a larger volume of the sedimentation tank has been used according to the EPI's reminder. In the second site inspection conducted on 23<sup>rd</sup> November 2021, both items of the previous observation and reminder have been checked and agreed with the EPI. There is no particular observation during the site inspection, while the EPI reminded the Main Contractor to follow the CNP issued and notify the nearby NSRs if having night-time construction works.

5.1.6 Night-time site inspection was carried out by EPIs on 27<sup>th</sup> November 2021 from 12:00 to 12:30 a.m. at Zone 3, RW6. The EPIs inspected the site condition, PMEs being used, and construction activities being held. According to the Main Contractor, precast profile barrier was carried out under the approved CNP no.: GW-RN0861-21. There was no particular observation during the site inspection.

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## 6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

### 6.1 Environmental Exceedance

6.1.1 No project-related Action and Limit Level exceedance for 24-hr & 1-hr TSP and day time noise was recorded in the reporting period at all monitoring stations.

6.1.2 For night time construction noise monitoring, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting quarter. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

**Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period**

Monitoring Station		Number of exceedance in the reporting period							
		24-hour TSP				1-hour TSP			
		Sep 2021	Oct 2021	Nov 2021	Total	Sep 2021	Oct 2021	Nov 2021	Total
AMS 4A	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 5	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 7A	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
AMS 12	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 14	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 15	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 17	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
Total	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0



**Table 6.2 Summary of Exceedance of Daytime Noise Monitoring in Reporting Period**

Monitoring Station <sup>1</sup>	Number of exceedance in the reporting period				Total
	Leq (30min) dB(A)				
	September 2021	October 2021	November 2021		
NMS 1	AL	0	0	0	0
	LL	0	0	0	0
NMS 2	AL	0	0	0	0
	LL	0	0	0	0
NMS 3	AL	0	0	0	0
	LL	0	0	0	0
NMS 4	AL	0	0	0	0
	LL	0	0	0	0
NMS 5A	AL	0	0	0	0
	LL	0	0	0	0
NMS 6A	AL	0	0	0	0
	LL	0	0	0	0
NMS 7	AL	0	0	0	0
	LL	0	0	0	0
NMS 8	AL	0	0	0	0
	LL	0	0	0	0
NMS 9	AL	0	0	0	0
	LL	0	0	0	0
NMS 10A	AL	0	0	0	0
	LL	0	0	0	0
NMS 11	AL	0	0	0	0
	LL	0	0	0	0
NMS 12	AL	0	0	0	0
	LL	0	0	0	0
NMS 13	AL	0	0	0	0
	LL	0	0	0	0
NMS 14	AL	0	0	0	0
	LL	0	0	0	0
NMS 15	AL	0	0	0	0
	LL	0	0	0	0
NMS 16	AL	0	0	0	0
	LL	0	0	0	0
NMS 17	AL	0	0	0	0
	LL	0	0	0	0
NMS 18	AL	0	0	0	0
	LL	0	0	0	0
NMS 19	AL	0	0	0	0
	LL	0	0	0	0
NMS 20	AL	0	0	0	0
	LL	0	0	0	0
NMS 23	AL	0	0	0	0
	LL	0	0	0	0
NMS 24	AL	0	0	0	0
	LL	0	0	0	0
NMS 25A	AL	0	0	0	0
	LL	0	0	0	0
NMS 26	AL	0	0	0	0
	LL	0	0	0	0
NMS 27	AL	0	0	0	0
	LL	0	0	0	0
<b>Total</b>	<b>AL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>LL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**Table 6.3 Summary of Exceedance of Night-time Noise Monitoring in Reporting Period**

Monitoring Station <sup>1</sup>	Number of exceedance in the reporting period			Total
	Leq (15min) dB(A)			
	September 2021	October 2021	November 2021	
NMS 1	0	0	0	0
NMS 2	0	0	0	0
NMS 3	0	0	0	0
NMS 4	0	0	0	0
NMS 5A	0	0	0	0
NMS 6A	0	0	0	0
NMS 7	0	0	0	0
NMS 8	0	0	0	0
NMS 9	0	0	0	0
NMS 11	0	0	0	0
NMS 13	0	0	0	0
NMS 14	0	0	0	0
NMS 15	0	0	0	0
NMS 16	0	0	0	0
NMS 18	0	0	0	0
NMS 19	0	0	0	0
NMS 20	0	0	0	0
NMS 23	0	0	0	0
NMS 24	0	0	0	0
NMS 25A	0	0	0	0
NMS 26	0	0	0	0
Total	0	0	0	0



## 6.2 Complaints, Notification of Summons and Prosecution

6.2.1 Total seven complaints were received in the reporting period.

6.2.2 The 1<sup>st</sup> complaint related to the notice (Ref: MS 8/0/CE2815/0 pt.6) issued by Drainage Services Department (DSD) to the Engineer's Representative (AECOM) after their morning inspection on 1<sup>st</sup> 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 2<sup>nd</sup> September 2021 at 3:24 p.m. for investigation.

According to the Main Contractor and AECOM, the major construction work at Zone 5 south boundary was mini-pilling works (at the end of August). Two pilling 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 pilling 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.

ET inspected the area at Zone 5 south boundary on 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup> and 29<sup>th</sup> 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 9<sup>th</sup> and 29<sup>th</sup> September 2021. The two inspections 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 **Table 5.1**.

Rectification have been reported by the Main Contractor according to the observation and recommendation from ET and EPIs on 8th, 17th and 27th September 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.

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.



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 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.

- 6.2.3 The 2<sup>nd</sup> 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.

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.

ET checked the Main Contractor has complied with CNP No.: GW-RN0600-21. 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&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.5, 3.d.13, 4.d.3 and 4.d.4 for using PMEs to carry out loading and unloading activities in the future.

- 6.2.4 The 3<sup>rd</sup> 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.

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. 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, 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.

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&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.

- 6.2.5 The 4<sup>th</sup> 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.

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 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>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.

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 send 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.

- 6.2.6 The 5<sup>th</sup> complain 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.

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> 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 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 send 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.

- 6.2.7 The 6<sup>th</sup> 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.

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 25<sup>th</sup>26<sup>th</sup> November 2021 at Tai Po Road (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 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 send 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.

- 6.2.8 The 7<sup>th</sup> 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 noise nuisance from the night-time construction work activities near Sha Tin Station.

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>24<sup>th</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 Arrangement (TTA) implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, 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 send 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

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noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.

6.2.9 No notification of summons or prosecution was received in the reporting period.

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

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## 7. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

### 7.1 Implementation Status

7.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting period is summarized in **Appendix G**.



## 8. CONCLUSIONS

- 8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations.
- 8.1.2 Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period.
- 8.1.3 For night time construction noise monitoring, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.
- 8.1.4 Total seven complaint were received in the reporting period. (1) Drainage Services Department (DSD) issued a notice (Ref: MS 8/0/CE2815/0 pt.6) to AECOM after their morning inspection on 1<sup>st</sup> 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. (2) The 2<sup>nd</sup> complaint was about a complaint received by the EPD Regional Office (North) on 28<sup>th</sup> October 2021 about the noise nuisance generated from the night-time construction activities near Man Wo House, Wo Che Estate (from 25 to 28<sup>th</sup> October 2021, during 2 to 5 a.m.). (3) The 3<sup>rd</sup> complaint was received by 1823 (ref: #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. (4) The 4<sup>th</sup> 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. (5) The 5<sup>th</sup> 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. (6) The 6<sup>th</sup> 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. (7) The 7<sup>th</sup> 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 noise nuisance generate from the night-time construction activities near Sha Tin Station. For the 7<sup>th</sup> complaint, ET is carrying out investigation and the incident report will be submitted to EPD in December 2021.
- 8.1.5 13 weekly environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures on air quality, noise quality, water quality, chemical and waste management, landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.6 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

### ***Comment and Recommendations***

- 8.1.7 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.



8.1.8 According to the environmental audit performed in the reporting period, the following recommendations were made:

#### Air Quality Impact

- The stockpile of excavated soil waiting for backfilling should be covered with tarpaulin (Zone 4, NF40).
- NRMM labels should be provided for on-site machineries (Zone 4, SB).
- Decolourized NRMM label should be replaced with a new one and displayed at a conspicuous position (Zone 3, South Boundary, SR3).
- Stockpile of excavated soil should be covered with tarpaulin to prevent dust impact. Also prevent the washing of excavated soil by rainwater (Zone 3, S06).
- Decolorized NRMM should be replaced with a new one (Zone 4, S6E1).
- Cement bags should be covered properly with tarpaulin, enclosed with three sides (Zone 3, SB, S06).
- Stockpile of sand should be covered properly with tarpaulin (Zone 3, SB, SR3, near bus station).

#### Construction Noise Impact

- Temporary blanket should be placed at the noise emission part of the piling machine for reducing noise nuisance (Zone 3, SB, SR5).
- Blanket should be placed at the noise emission part of the piling machine for reducing noise impact during piling works (Zone 3, SB, SR5).
- According with the previous promise with the district council member, further mitigation measures should be applied to minimize noise nuisance generated from the collision of iron chain during loading, unloading and piling activities (Zone 3, SB, SR3).

#### Water Quality Impact

- Soil runoff to the u-channel should be concerned and enhanced the mitigation measures. The function of the on-site u-channel should be checked and de-silted regularly to avoid silt accumulation, channel blockage, or muddy water outflow at the discharge point (Zone 3, S06, Tank TP401).
- The contractor should review the sedimentation tanks treatment efficiency for handling the muddy water generated from piling works. Although alum was added into the sedimentation tank, there was insufficient time for reaction and settling. Muddy water was observed at the public drainage system outside the site entrance. The public drainage should be cleaned immediately and avoid muddy water discharge (Zone 3, S05, near site entrance).
- According to the contractor, the piling works were stopped during the ET site walk. However, ET strongly advises the contractor to review the sedimentation tanks treatment efficiency for handling the muddy water generated from piling works (either single or double machine operation). A poor condition was observed at multiple sedimentation tanks, which were filled with concentrated muddy water and silt. A proper rectification is needed to prevent any muddy water from entering the public drainage system. Moreover, the on-site drainage channel was filled with rock and silt. Cleaning, de-silting and mitigation measures are needed to ensure no muddy water outflow to the cycling track or enter into the public drainage system (Zone 5 South Boundary, near NF66).
- Surface runoff trap should be deeper or added with sedimentation tank to collect the surface water incoming from the highway (Zone 5 SB).
- The mitigation measures for the discharge points and manholes should be enhanced with sandbags or cement bunding to prevent muddy water inflow (Zone 5 SB).
- Slope should be covered with tarpaulin to avoid erosion, minimized the area exposed and prevented muddy water runoff to the u-channel (Zone 5 SB).
- Gully that are next to the unpaved area or soil surface should be blocked to prevent muddy water entering (Zone 5 SB).
- U-channel should be cleaned and desilted regularly. Moreover, particular attention should be paid for the water collection efficiency under normal construction work activities and adverse weather condition for preventing muddy water overflow to the cycling track (Zone 5 SB).
- The pH meter of the WetSep was observed as malfunction. The contractor should repair the pH meter and ensure the pH of the water discharge is fulfilled the requirement listed in the water discharge license (Zone 5 SB).



- WetSeps and sedimentation tanks for muddy water treatment should be closed to the pilling location. It is for ensuring the treatment efficiency is acceptable (Zone 5 SB).
- The silt trap for collecting muddy water should be reviewed to ensure the pump, muddy water outfall location are appropriate, also have enough capacity and depth (Zone 5, SB).
- Two gullies that are next to the highway were covered with sandbag. However, tarpaulin should be provided for temporary coverage to prevent silt from entering. Another two gullies that are closed to the pilling work location, unpaved area and soil surface are blocked (Zone 5, SB).
- The pH meter in the left WetSep have been fixed. However, the pH meter of the right WetSep needs to be installed and ensure it is function properly. A checklist should also be provided for recording the pH value of the water being discharged (Zone 5, SB).
- U-channel have been cleaned. However, cement bunding/sandbag/paved/soil cleaning should be provided to prevent soil runoff to the discharge point (Zone 5, SB).
- Stagnant water should be cleaned before rainfall to avoid site surface water overflow at the site boundary (Zone 3, South Boundary, S06).
- Stockpile of excavated material should be covered with tarpaulin before rainfall, also prevent washing of the materials and muddy water from entering the highway (Zone 3, South Boundary, S06).
- The soil surface next to the gullies should be paved or covered with tarpaulin to prevent muddy water formation. Housekeeping should also be maintained (Zone 5 South Boundary and near the TPT4 sedimentation tank).
- Sedimentation tanks and wastewater treatment systems should be maintained and review regularly. Desilting of the sedimentation tank and silt trap should be performed regularly (Zone 5 South Boundary S3E1).
- The second WetSep (TW-WS2) should ensure it is functioning properly (either with maintenance or replacement) before operating the second piling machine. Routine pH monitoring and record in the checklist are also needed to ensure the effluent is fulfilled the requirement stated in the Water Discharge License (WT00032446-2018) (Zone 5 South Boundary S3E1).
- Sandbags and tarpaulin should be provided to prevent muddy water formation, and silt outflow into the highway (Zone 3, S06).
- Stockpile of excavated soil should be covered with tarpaulin to prevent dust impact. Also prevent the washing of excavated soil by rainwater (Zone 3, S06).
- Water leakage from the barrier was observed. Water accidentally outflow to the highway should be prevented. Mitigation measures such as water collection channel and improve the site practice should be considered (Zone 3, RW6).
- Sandbags and tarpaulin should be provided to prevent muddy water formation, and silt outflow into the highway (Zone 3, S06).
- Blockage and broken surface water collection channel were observed during rainfall. The surface water collection channel should be repaired and maintained its function (Zone 5, south boundary).
- Enhance the mitigation measure of bunding around the discharge point near the Wetsep TW-WS1 to prevent the inflow of muddy water (Zone 5, south boundary).
- Mitigation measure for enclosing the area near the piling machine to prevent passage of effluent should be improved with enough sandbags / bunds (Zone 5, south boundary).
- Proper covering and sandbag bunding should be provided next to the u-channels to prevent mixing of the treated and untreated wastewater (Zone 3, S06).
- The sedimentation tank for collecting wastewater generated from wheel washing and construction works should be reviewed regularly with its size and effluent quality (Zone 3, SR3).
- U-channel should be cleaned and sandbag should be placed properly to prevent an accidental outflow of surface water or wastewater into the highway (Zone 3, SB, near Lift 2).
- The temporary wastewater treatment system should be reviewed regularly for its treatment efficiency. Also, consider replacing it with the newly implemented sedimentation tank nearby (Zone 3, SB, S10).
- Connection of different sedimentation tanks of the temporary wastewater treatment system should be considered for modification. It is for improving the overall treatment efficiency for handling the muddy water generated from pilling works. U channel should also be cleaned (Zone 3, SB, SR5).

## Chemical and Waste Management

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- Drip tray filled with chemical and rainwater should be cleaned with a chemical absorbent pad and treated as chemical waste. A drip tray should be provided for the chemical container to prevent soil contamination. The chemical storage tank should also be clearly labeled in English and Chinese following the requirement listed in the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C, Part IV, Section 12) (Zone 3, South Boundary, S06).
- Drip tray filled with rainwater should be cleaned. The chemical container and drip tray should be covered to prevent rainfall entering (Zone 3, RW6). Coverage with tarpaulin and provide drip tray for holding the chemical containers are needed (Zone 4, S6E1).
- General refuse and wastewater generated on-site should be cleaned to minimize odour, pest and litter impacts (Zone 3, RW7).
- Chemical container should be provided with drip tray and covered properly (Zone 4, S6E1).
- Valve should be added to the drip tray to prevent chemical leakage and soil contamination (Zone 4, S6E1).
- The malfunctioned sheet pile machine was observed with oil leakage. The leaking oil should be held with a bigger drip tray immediately for preventing continuous soil contamination. The contaminated soil should be treated and disposed as chemical waste (Zone 3, NB, RW7).
- General refuse and lunch box should be cleaned to minimize odour, pest and litter impacts (Zone 3, SB, S10).
- Mud and rock left on the highway should be cleaned, and considered further mitigation measures to prevent similar cases from happening again (Zone 3, NB, RW6).

### Land Contamination

- No specific observation was identified in the reporting month.

### Landscape and Visual Impact

- No specific observation was identified in the reporting month.

### General Condition

- No specific observation was identified in the reporting month.

### Permit / Licenses

- A copy of the environmental permits should be displayed at the site entrance for public information at all time. The contractor should ensure the permits being displayed are the most updated one (Zone 3, South Boundary, SR6).
- Environmental Permit should be displayed conspicuously at the site entrance/exit for public information (Zone 3, SR6).

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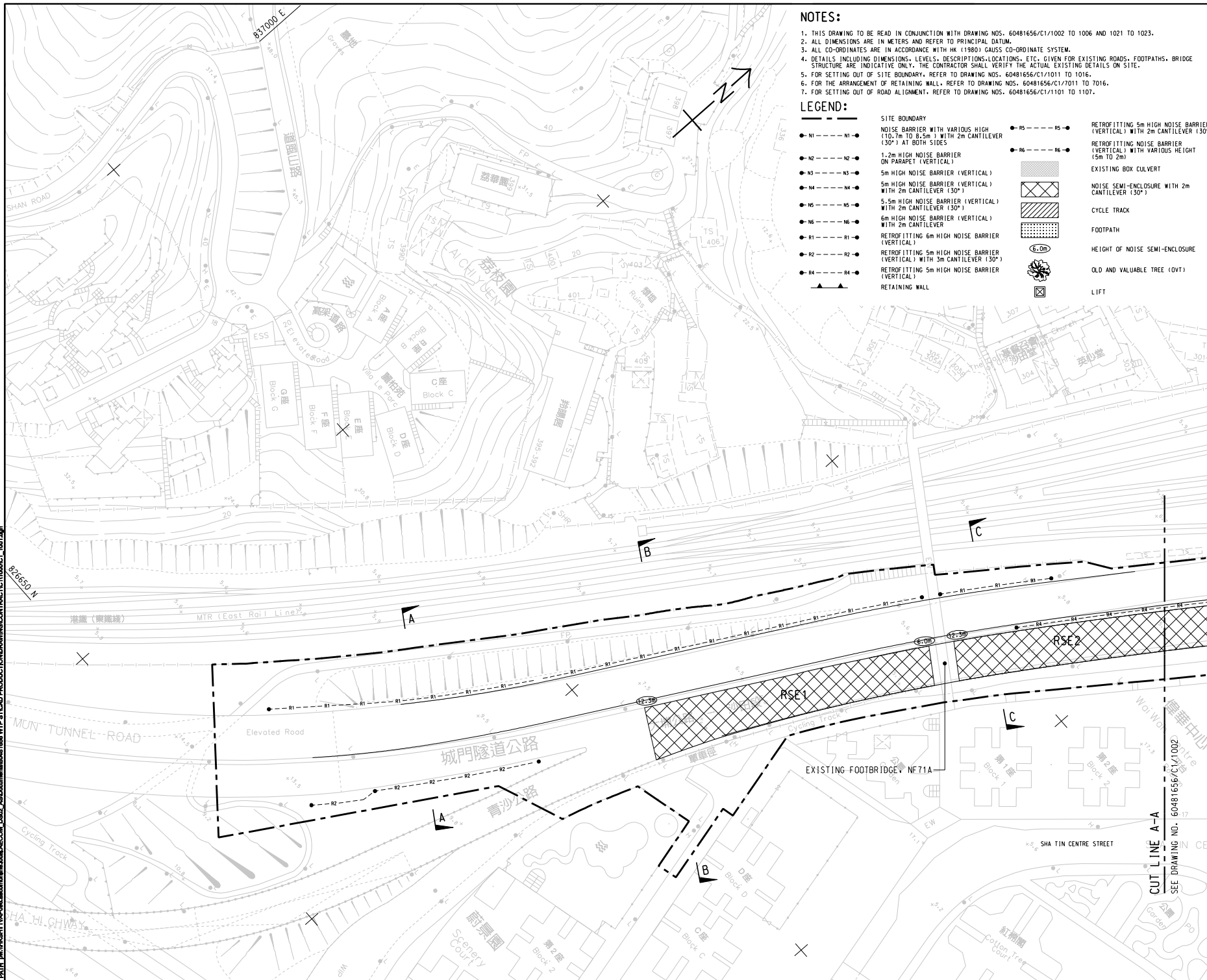
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## Figure 1 Project General Layout







**NOTES:**

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60481656/C1/1002 TO 1006 AND 1021 TO 1023.
2. ALL DIMENSIONS ARE IN METERS AND REFER TO PRINCIPAL DATUM.
3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK (1980) GAUSS CO-ORDINATE SYSTEM.
4. 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.
5. FOR SETTING OUT OF SITE BOUNDARY, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
6. FOR THE ARRANGEMENT OF RETAINING WALL, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
7. 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 lines 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	[Grid 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)	[Square with cross]	LIFT
▲	RETAINING WALL		

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

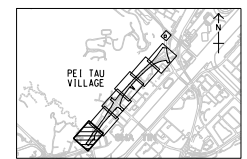
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Project Management: Helmut  
 Designer: FIMSC  
 Approver: CANN  
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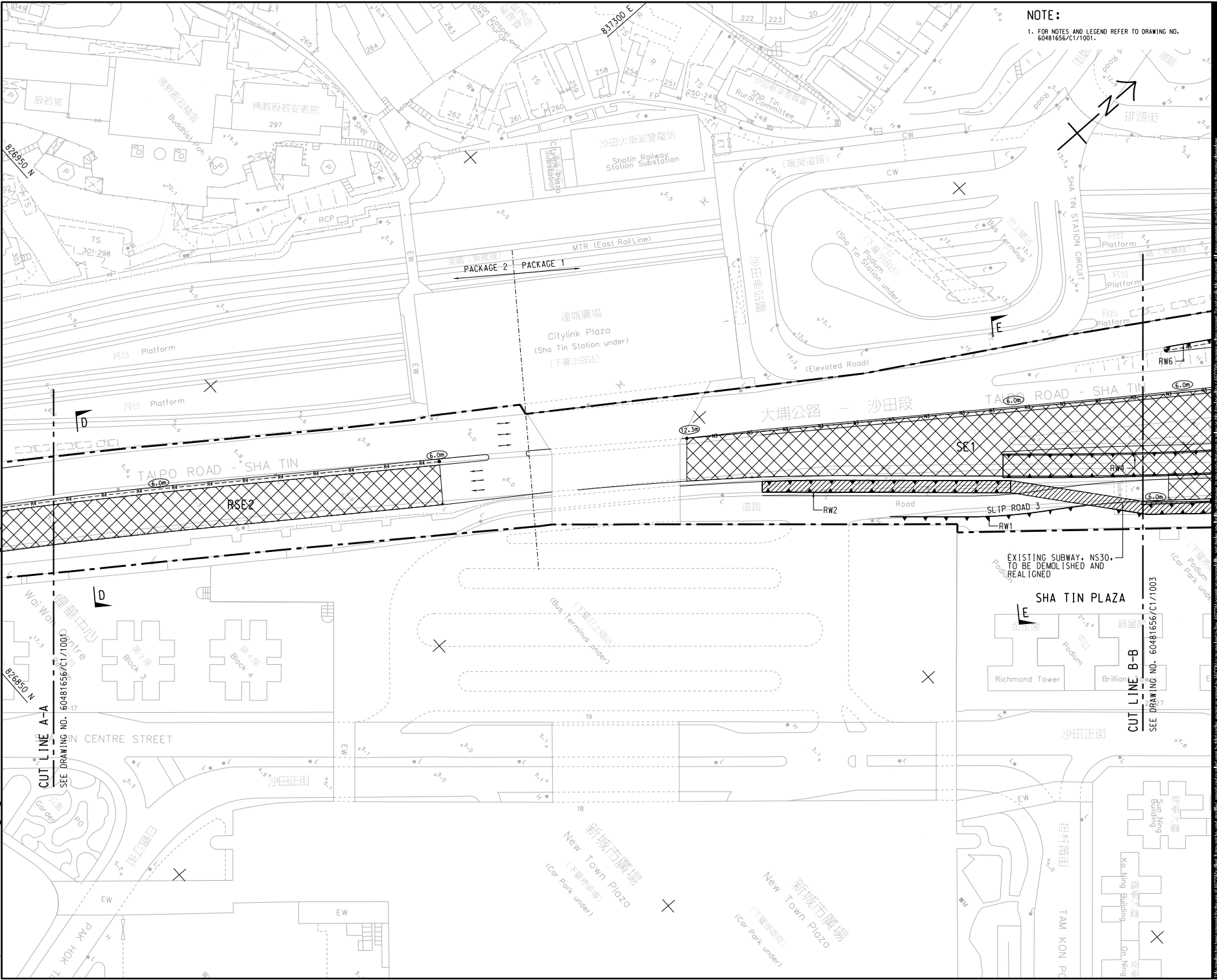
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 ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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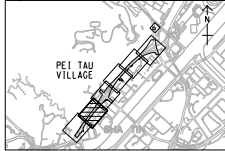
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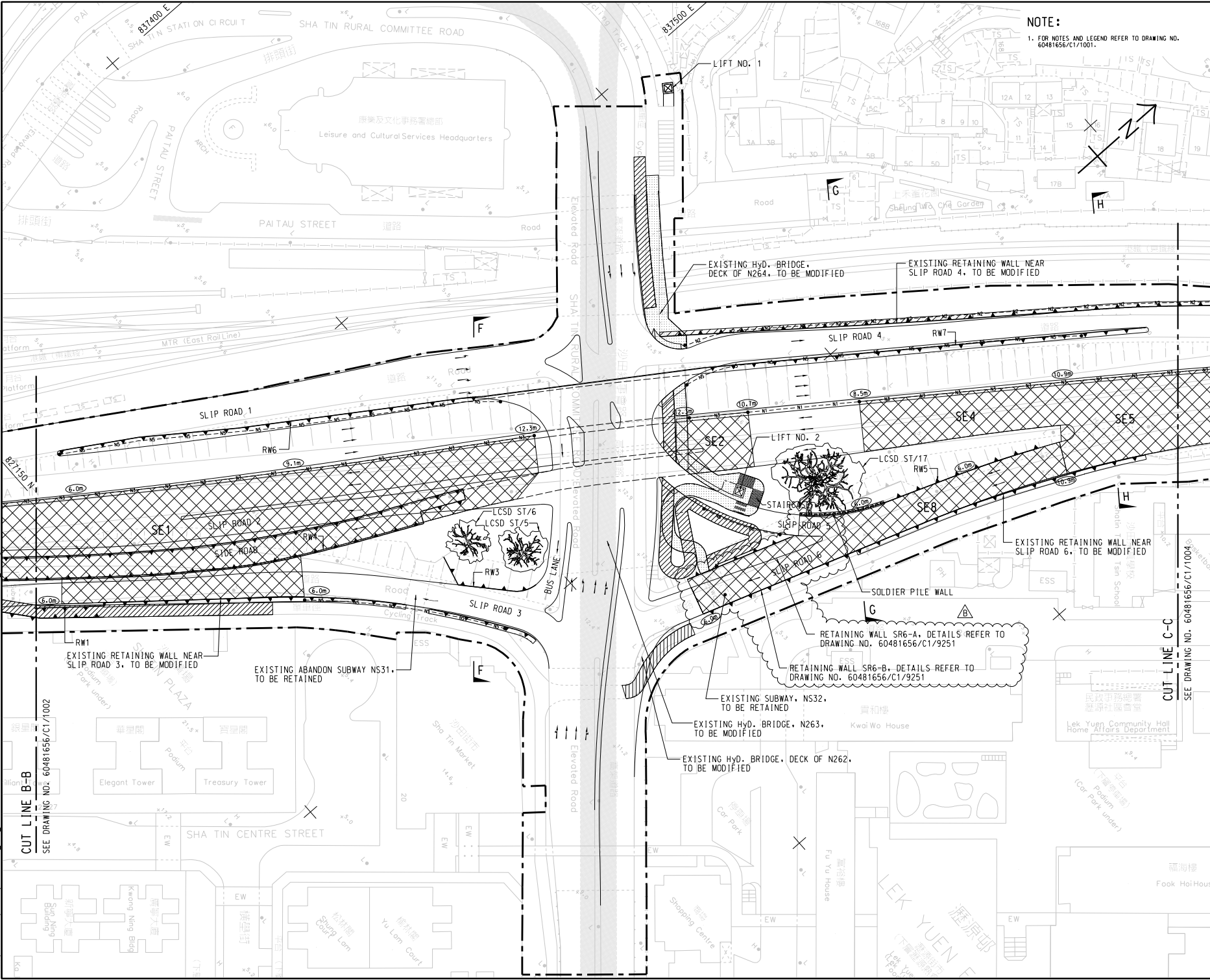
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**SHEET NUMBER**  
 圖紙編號: 60481656/CI1/1002

SHEET 2 OF 6

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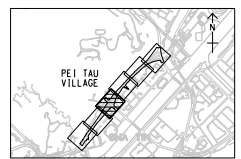
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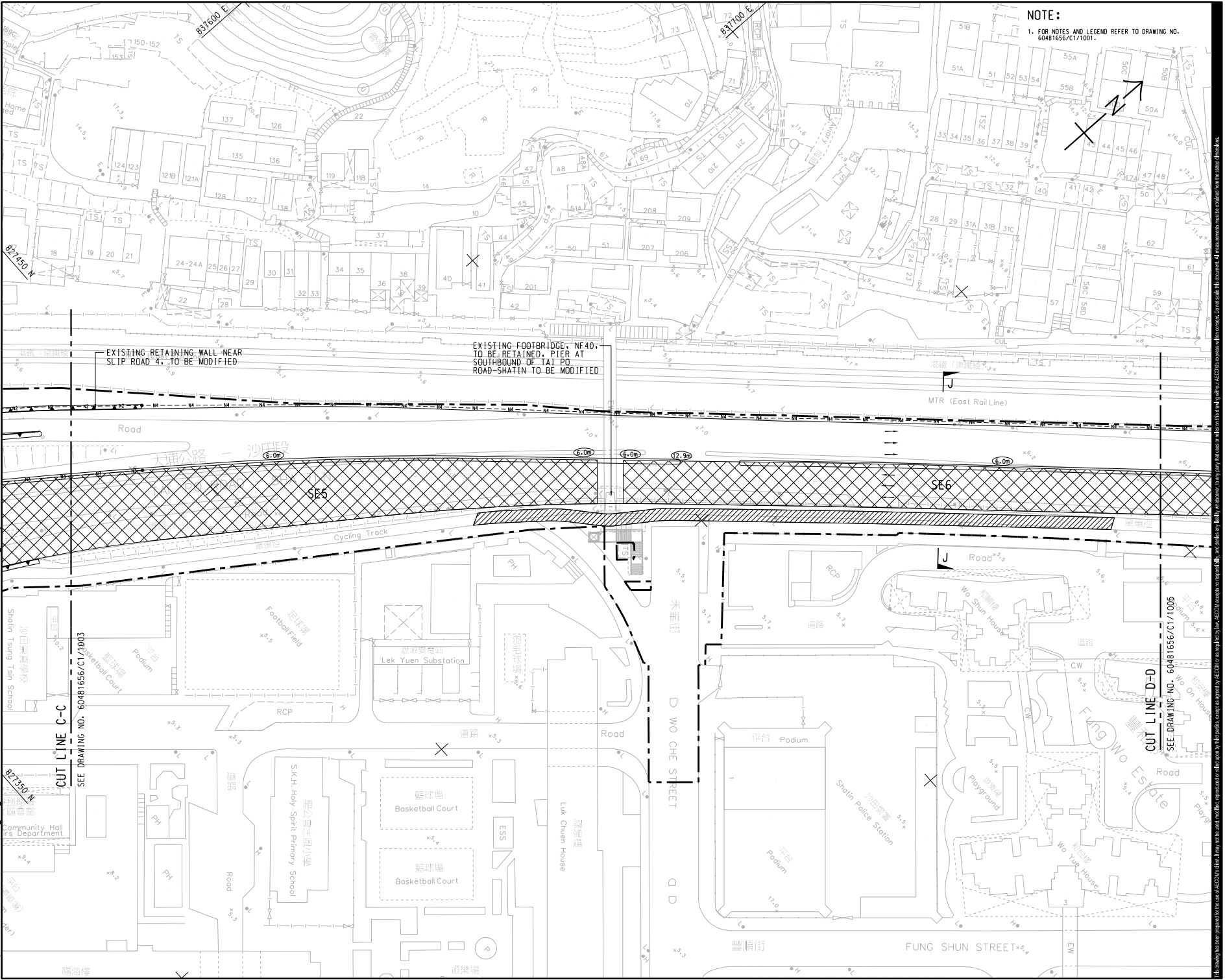


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 GENERAL LAYOUT PLAN  
 FIGURE 1.1 b

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 Project Management: Helmut  
 Designer: F.H.S.C.  
 Designer: B.C.C.  
 Approved: C.V.N.  
 ISO A1 841mm x 594mm



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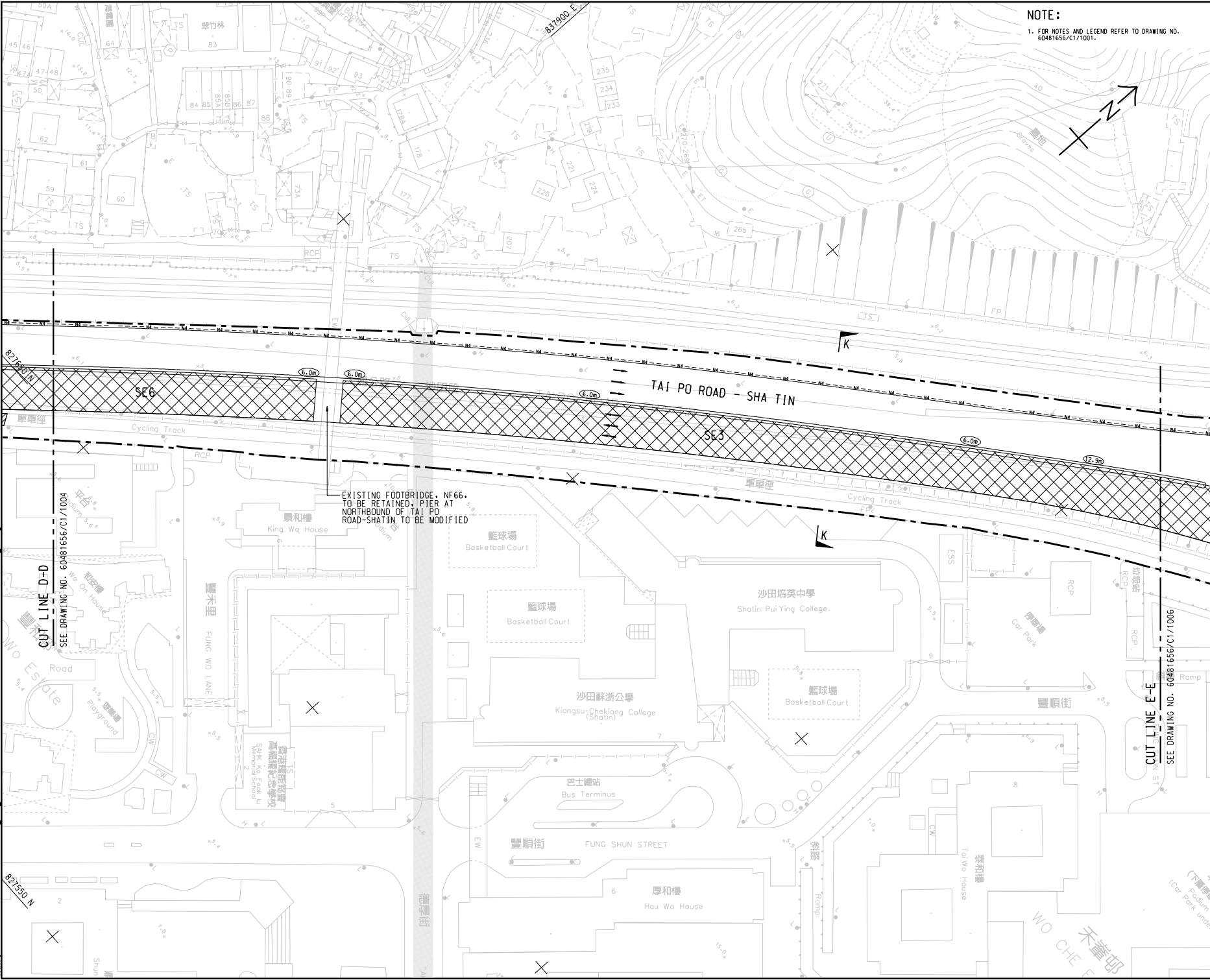
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 GENERAL LAYOUT PLAN  
 FIGURE 1.1b

SHEET 4 OF 6

SHEET NUMBER  
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1618

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

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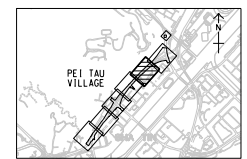
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GENERAL LAYOUT PLAN  
FIGURE 1.1b

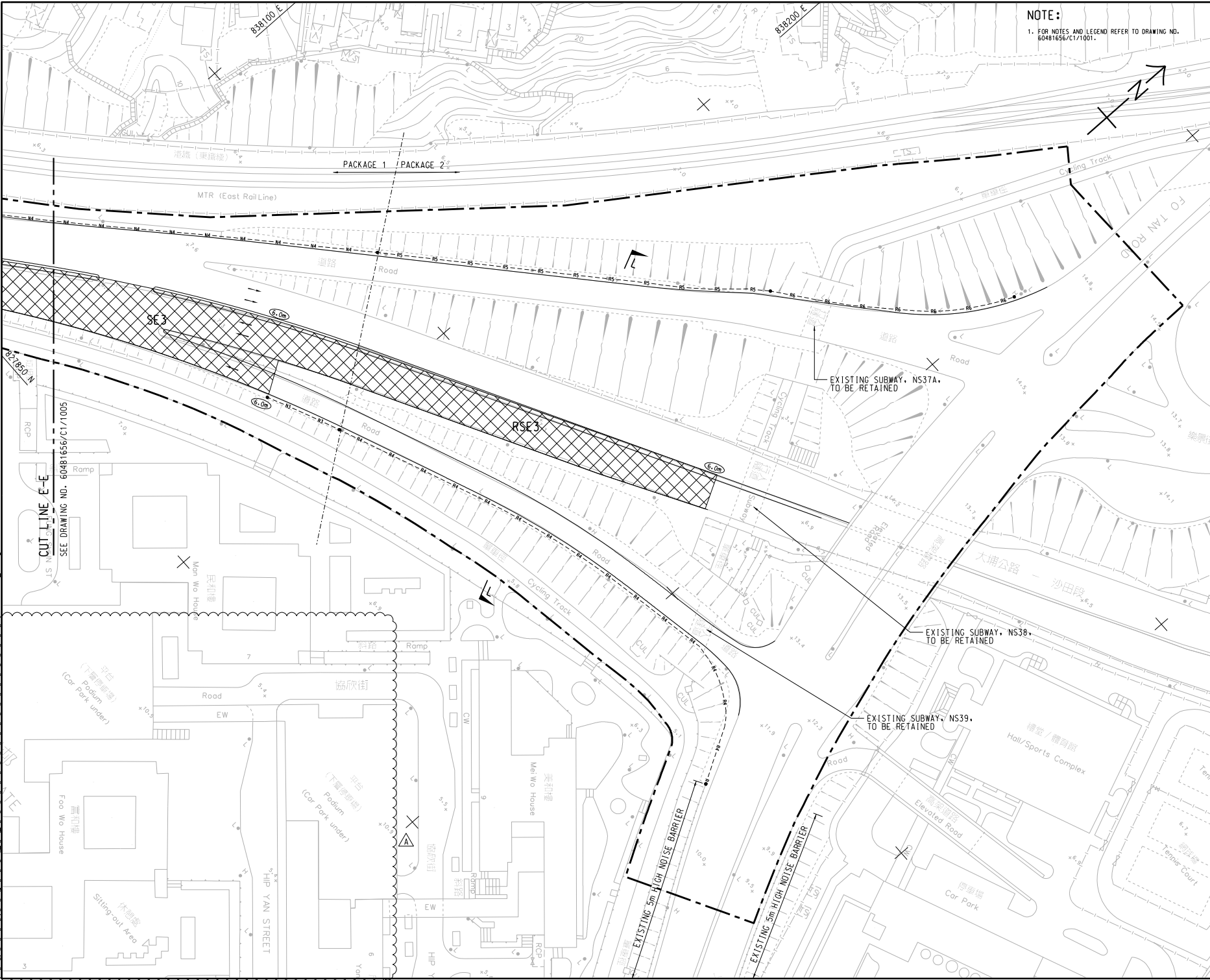
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SHEET 5 OF 6

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Project Management: **Hellier** | Designer: **FNSC** | Approver: **CNN**

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 現狀

**SCALE**  
 比例: A1 1:500

**DIMENSION UNIT**  
 尺寸單位: METRES

**KEY PLAN**  
 縮尺: A1 1:40000

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

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

**SHEET NUMBER**  
 60481656/C1/1006A

SHEET 6 OF 6

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## Figure 2a

### Air Monitoring Locations



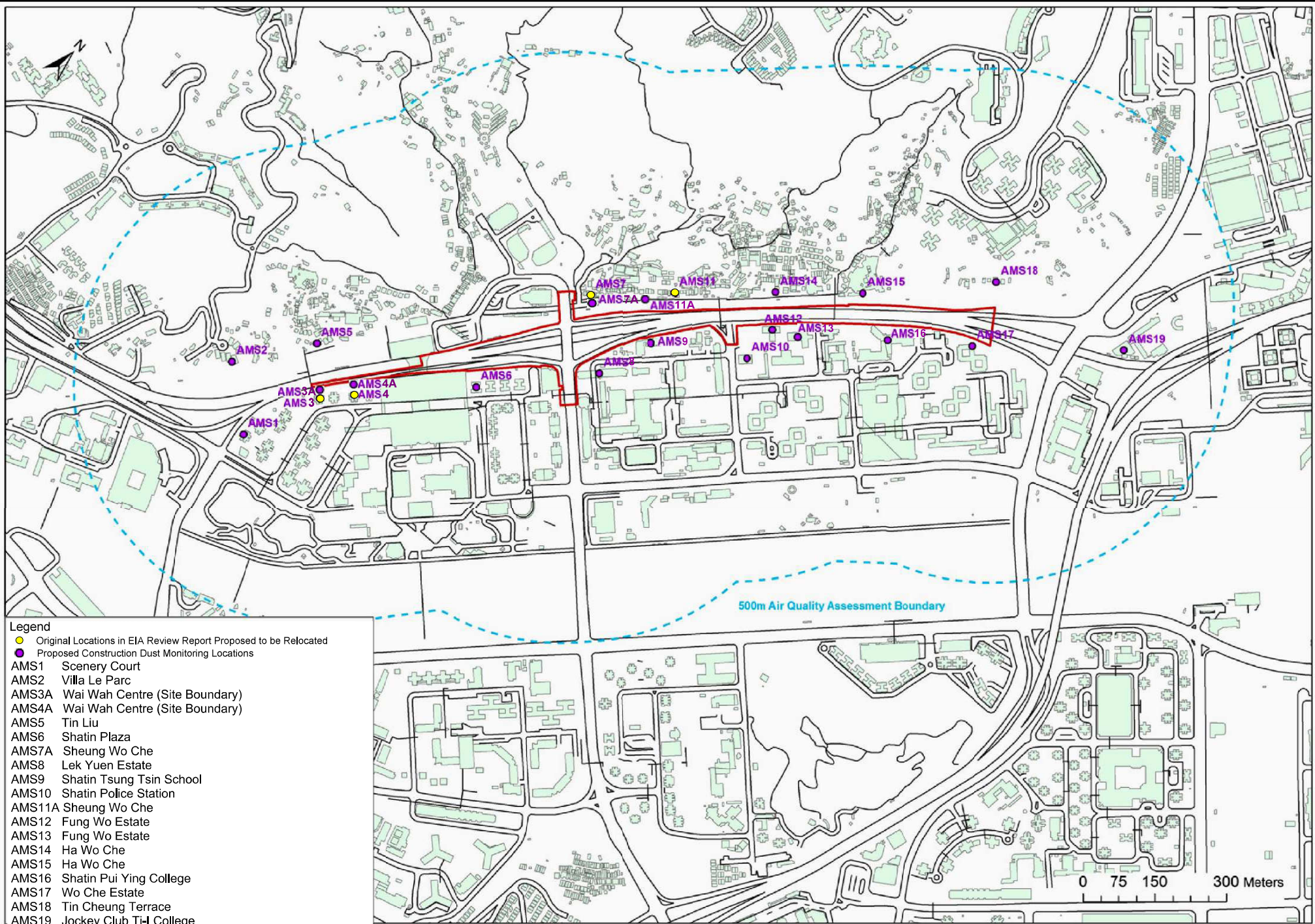


Figure 2a Air Quality Monitoring Locations

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## Figure 2b Noise Monitoring Locations

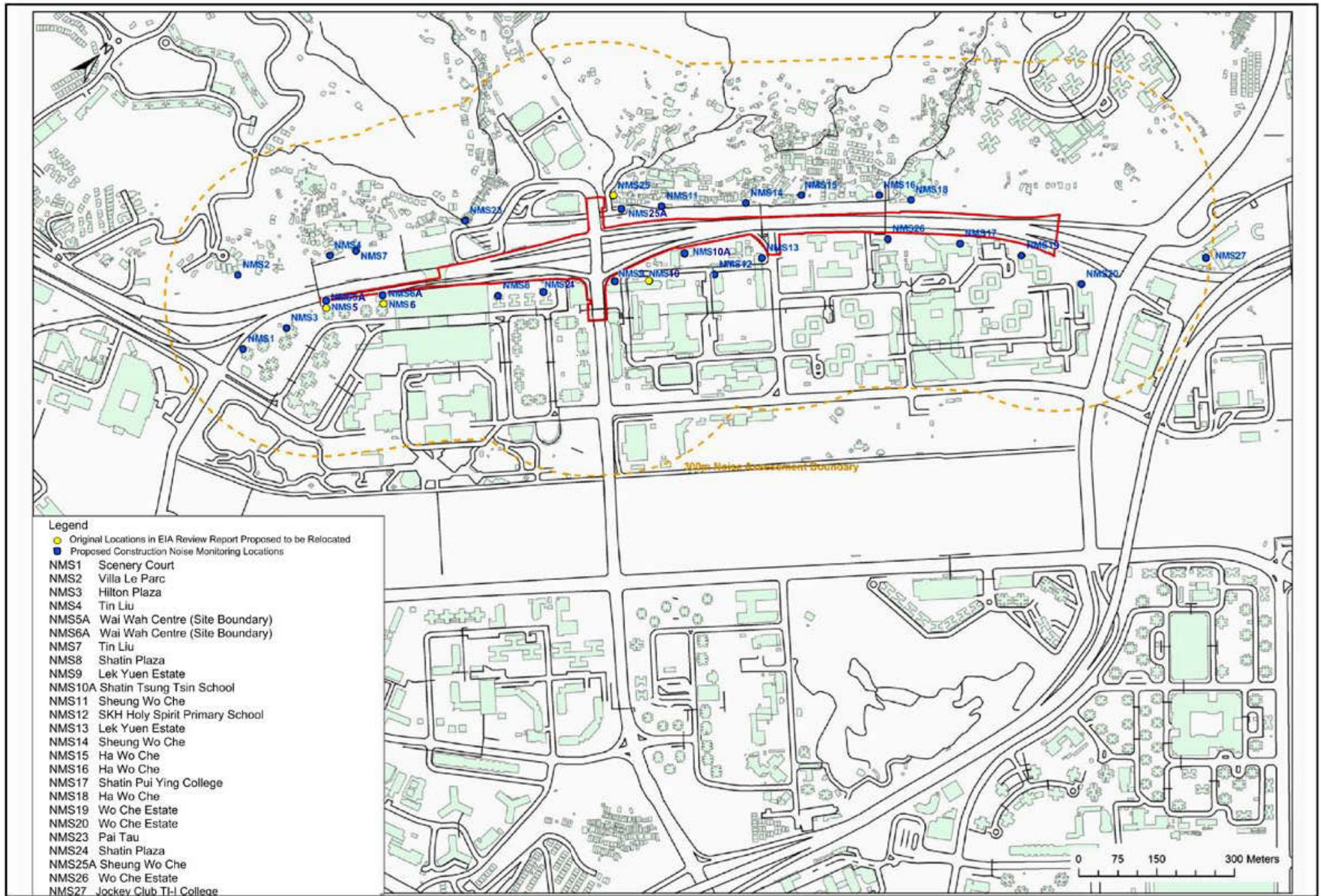


Figure 2b Noise Monitoring Locations

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## Appendix A

### Construction Programme

Activity ID		Activity Name		Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					
										Aug 38	Sep 39	Oct 40	Nov 41	Dec 42	
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)</b>															
<b>PROJECT KEY DATES</b>															
<b>PROJECT COMPLETION</b>															
KEY1130	Contract Completion of Section 3		0	0		18-Oct-21*									
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>															
<b>GENERAL SUBMISSION</b>															
SUB1403	ITP's for Lighting Luminaires and System		0	0	31-Aug-21*		30-Apr-21								
SUB1405	All Lighting Designs		0	0	31-Aug-21*		30-Apr-21								
SUB1410	Combined Services Drawings (CSD)		0	0	31-Aug-21*		30-Apr-21								
<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	12	29-Mar-21 A	11-Sep-21	31-Mar-21	22-Apr-21							
DES1270	PM Consent for Construction		28	28	11-Sep-21	09-Oct-21	11-May-21	08-Jun-21							
DES1290	PM review & comment		28	11	07-Aug-19 A	11-Sep-21	31-Aug-19	27-Sep-19							
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate		20	20	12-Sep-21	02-Oct-21	12-May-21	01-Jun-21							
DES1310	PM Consent for Construction		28	28	02-Oct-21	30-Oct-21	01-Jun-21	29-Jun-21							
DES1330	PM review & comment		28	11	07-Aug-19 A	11-Sep-21	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-21	03-Oct-21	12-May-21	02-Jun-21							
DES1350	PM Consent for Construction		28	28	03-Oct-21	31-Oct-21	02-Jun-21	30-Jun-21							
DES1370	PM review & comment		28	11	07-Aug-19 A	11-Sep-21	31-Aug-19	27-Sep-19							
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate		20	20	12-Sep-21	02-Oct-21	12-May-21	01-Jun-21							
DES1390	PM Consent for Construction		28	28	02-Oct-21	30-Oct-21	01-Jun-21	29-Jun-21							
<b>REMAINING WORKS</b>															
DES1490	PM review & comment		28	1	25-Jan-19 A	31-Aug-21	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 Certificate		35	1	13-Apr-20 A	02-Sep-21	02-Jun-20	07-Jul-20							
DES1510	PM Consent for Construction		28	28	02-Sep-21	30-Sep-21	02-May-21	30-May-21							
DES1530	PM review & comment		28	1	02-Jan-19 A	31-Aug-21	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-21	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-21	04-Oct-21	30-Apr-21	03-Jun-21							
DES1570	PM review & comment		28	28	05-Oct-21	01-Nov-21	04-Jun-21	01-Jul-21							
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate		32	32	03-Nov-21	04-Dec-21	03-Jul-21	03-Aug-21							
DES1590	PM Consent for Construction		28	28	05-Dec-21	01-Jan-22	04-Aug-21	31-Aug-21							
<b>SUBLETTING &amp; PROCUREMENT SCHEDULE</b>															
<b>SUBLETTING</b>															
SPS1180	Flexible Surfacing		30	15	31-Oct-20 A	22-Sep-21	13-Jul-21	11-Aug-21							
SPS1190	Road Marking and Road Studs		30	23	30-Nov-20 A	22-Sep-21	13-Jul-21	11-Aug-21							
SPS1210	Drainage (PC pipe, manhole & gully) and Duct		30	5	31-Mar-20 A	04-Sep-21	01-May-21	30-May-21							
SPS1230	Sub-base and Concrete pavement		30	15	31-Oct-20 A	22-Sep-21	12-May-21	11-Jun-21							
SPS1300	Traffic Sign, Sign gantry and Road Sign		30	0	30-Oct-20 A	19-Aug-21 A	02-Sep-21	01-Oct-21							
SPS1380	Road Barrier, Parapet, Kerb and Civil Work for Road Lighting and TCSS		30	0	31-Aug-20 A	19-Aug-21 A	12-May-21	11-Jun-21							

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

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/8/21)**  
 Page 1 of 7

Date	Revision	Checked	Approved
06-Sep-21	3MRP DWP 2108	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Aug 38	Sep 39	Oct 40	Nov 41	Dec 42		
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	0	30-May-20 A	24-Aug-21 A	05-Jul-21	03-Aug-21							
SPS1440	Drainage for Noise Mitigation Measures	30	5	31-Mar-20 A	04-Sep-21	30-Apr-21	29-May-21							
SPS1450	Other Works (Mis. Metal Work, Finishing, Brickwork, etc)	30	5	09-Jul-21 A	30-Oct-21	01-Jun-21	30-Jun-21							
<b>WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>SUMMARY PROGRAMME</b>														
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	63	28-Dec-19 A	16-Nov-21	31-Dec-19	05-Feb-21							
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	268	75	28-Jul-20 A	29-Nov-21	31-Jul-20	26-Jun-21							
Z1SU1034	Zone 1 Stage 1 R2 structure	435	202	20-Feb-20 A	10-May-22	20-Mar-20	07-Sep-21							
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation	194	194	09-Nov-21	08-Jul-22	08-Sep-21	09-May-22							
Z1SU1042	Zone 1 Stage 2 R1 structure R1-09 to 17	249	249	30-Nov-21	03-Oct-22	25-Sep-21	28-Jun-22							
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>														
<b>PILE FOUNDATION WORKS</b>														
<b>SOUTHBOUND</b>														
Z1_1540	RSE1_mini piles for RSE1-51P to 56P (40rr ver)	120	120	09-Nov-21	06-Apr-22	08-Sep-21	04-Feb-22							
<b>PILE CAP AND FOOTING</b>														
<b>NORTHBOUND</b>														
Z1_1000	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)	30	10	19-Oct-20 A	10-Sep-21	31-Oct-20	04-Dec-20							
Z1_1002	R1_footing construction R1-01, R1-03 to R1-08 (7nr)	147	59	27-Nov-20 A	22-Nov-21	21-Dec-20	24-Jun-21							
Z1_1004	R1_pile cap construction R1-02P (1nr)	21	6	27-Jan-21 A	29-Nov-21	16-Jun-21	12-Jul-21							
Z1_1011	R1_ELS for footing/cap construction R1-09 to R1-17 (120m_1 side)	33	33	30-Nov-21	10-Jan-22	25-Sep-21	04-Nov-21							
<b>CENTRAL BARRIER</b>														
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	9	02-Sep-20 A	10-Sep-21	29-Oct-20	22-Dec-20							
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	26	02-Nov-20 A	02-Oct-21	30-Nov-20	10-Apr-21							
Z1_1150	RSE1_backfill & remove ELS	14	4	29-Apr-21 A	09-Nov-21	02-Jul-21	19-Jul-21							
<b>SOUTHBOUND</b>														
Z1_1070	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)	38	15	04-Sep-20 A	17-Sep-21	08-May-21	24-Jun-21							
Z1_1092	R2_footing/cap construction R2-01 to R2-06P(6nr)	126	50	23-Oct-20 A	18-Nov-21	23-Apr-21	23-Sep-21							
Z1_1100	R2_backfill & remove ELS	12	11	15-Dec-20 A	01-Dec-21	08-Sep-21	23-Sep-21							
<b>STRUCTURE STEEL FRAME</b>														
<b>CENTRAL BARRIER</b>														
Z1_1190	RSE1_erec steel posts PC1 to PC22 (22nr)	6	5	25-May-21 A	16-Nov-21	19-Jul-21	27-Jul-21							
<b>ROADWORKS AND REMAINING WORKS</b>														
<b>ROADWORKS</b>														
<b>CENTRAL BARRIER</b>														
Z1_1240	Drainage construction MR01 to MR04 38m	24	24	02-Oct-21	01-Nov-21	02-Jun-21	02-Jul-21							
<b>GEOTECHNICAL WORKS</b>														
<b>NORTHBOUND</b>														
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	30-Nov-21*	04-Feb-22	05-Aug-21	07-Oct-21							
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>SUMMARY PROGRAMME</b>														
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	75	21-Nov-19 A	29-Nov-21	08-Aug-19	10-Aug-21							

- 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 (31/8/21)**  
 Page 2 of 7

Date	Revision	Checked	Approved
06-Sep-21	3MRP DWP 2108	Tim	



- XXXX Remaining Level of Effort
- Remaining Work
- ◆ Milestone
- ◆ Baseline Milestone
- Actual Level of Effort
- Critical Remaining Work
- ◆ Baseline Milestone
- Actual Work
- Primary Baseline

Date	Revision	Checked	Approved
06-Sep-21	3MRP DWP 2108	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Aug 38	Sep 39	Oct 40	Nov 41	Dec 42		
Z3_2960	UU_HKBN-slew cable for RW1 & 2 CH1500-1580 80m	9	1	27-Apr-21 A	24-Sep-21	24-May-21	02-Jun-21							
Z3_3080	UU_CLP-abandoned 11kv cable for SR6 CH1850-1950 100m	19	19	06-Dec-21	30-Dec-21	28-Sep-21	21-Oct-21							
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	31-Aug-21	31-Aug-21	12-Jun-21	12-Jun-21							
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	19	08-Jun-20 A	22-Sep-21	31-Jul-20	29-Oct-20							
Z3_5685	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	21	08-Jun-20 A	24-Sep-21	02-Jun-21	13-Aug-21							
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>														
Z3_4210	C01_column construction	28	28	26-Nov-21	31-Dec-21	31-Jul-21	02-Sep-21							
Z3_4240	N264_temporary protection MTRC cable	42	42	26-Nov-21	18-Jan-22	31-Jul-21	18-Sep-21							
<b>MODIFICATION OF BRIDGE N263</b>														
<b>RECONSTRUCTION ABUTMENT WALL AT NHA</b>														
Z3_4140	NAW-1_ELS, excavation & pile cap construction	60	24	23-Oct-20 A	28-Sep-21	30-Nov-20	10-Feb-21							
Z3_4142	Demolish part of existing North Hollow Abutment wall for construction new wall	45	27	22-Apr-21 A	02-Oct-21	30-Apr-21	24-Jun-21							
Z3_4180	NAW-2_ELS, excavation & pile cap construction	60	24	28-Sep-20 A	28-Sep-21	31-Oct-20	12-Jan-21							
Z3_4190	NAW_construct new abutment wall (North side)	60	60	29-Sep-21	09-Dec-21	31-May-21	11-Aug-21							
Z3_4195	NAW_construct new abutment wall (Remaining)	75	75	04-Oct-21	03-Jan-22	02-Jul-21	28-Sep-21							
<b>MODIFICATION EXISTING PIER WALL OF N263</b>														
Z3_3900	SAW-1_ELS & pile cap construction	30	0	13-Mar-21 A	06-Aug-21 A	31-Mar-21	10-May-21							
Z3_3945	SAW_construct new abutment wall (Remaining)	100	0	27-Feb-21 A	17-Aug-21 A	01-Jun-21	28-Sep-21							
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>														
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	06-Sep-21*	04-Nov-21	06-Sep-21	04-Nov-21							
Z3_3960	SHA_ELS & pile cap construction	45	45	04-Nov-21	29-Dec-21	04-Nov-21	29-Dec-21							
<b>DECK CONSTRUCTION OF BRIDGE N263</b>														
Z3_3880	N263_erec temporary working platform for deck construction (widen Area)	35	11	31-Mar-21 A	03-Jan-22	09-Jun-21	01-Sep-21							
<b>MODIFICATION OF BRIDGE N262</b>														
Z3_3510	C02_piling works 4nr mini pile	16	0	23-Jun-21 A	09-Aug-21 A	14-Jul-21	31-Jul-21							
Z3_3540	C03_piling works 7nr mini pile	24	0	05-Jun-21 A	09-Aug-21 A	15-Jun-21	13-Jul-21							
<b>NEW SLIP ROAD 2</b>														
Z3_5350	SR2-1_ELS & pile cap construction	30	30	31-Aug-21	07-Oct-21	01-Jun-21	07-Jul-21							
Z3_5416	SR2-2A/B_ELS & pile cap construction	30	30	07-Oct-21	12-Nov-21	08-Jul-21	11-Aug-21							
<b>LIFT TOWER 1</b>														
Z3_3600	L1-PC1_piling works 4nr socket H-pile	32	32	30-Sep-21*	09-Nov-21	06-Sep-21	16-Oct-21							
Z3_3610	L1-PC1_ELS & pile cap construction	60	60	09-Nov-21	21-Jan-22	16-Oct-21	28-Dec-21							
<b>LIFT TOWER 2 &amp; STAIRCASE</b>														
Z3_3690	Lift Tower 2_erec steel structure	28	28	30-Sep-21*	04-Nov-21	02-Jul-21	03-Aug-21							
Z3_3700	Lift Tower 2_external finishing	45	45	04-Nov-21	29-Dec-21	04-Aug-21	25-Sep-21							
Z3_3710	Lift Tower 2_lift installation	75	75	04-Nov-21	07-Feb-22	04-Aug-21	02-Nov-21							
Z3_3802	Lift Tower 2_Pier 2 column construction	21	21	05-Nov-21	30-Nov-21	30-Jul-21	23-Aug-21							
Z3_3804	Lift Tower 2_Pier 1 column construction	21	21	05-Nov-21	30-Nov-21	30-Jul-21	23-Aug-21							
Z3_3820	Staircase_staircase construction between Pier 3 and Pier 2	30	30	30-Nov-21	07-Jan-22	24-Aug-21	28-Sep-21							
Z3_3830	Staircase_bridge deck construction between Pier 2 and Pier 1	30	30	30-Nov-21	07-Jan-22	24-Aug-21	28-Sep-21							
<b>NEW SLIP ROAD 5</b>														
Z3_5490	SR5-3_piling works 21nr mini pile	84	81	25-Aug-21 A	06-Dec-21	21-Jun-21	28-Sep-21							
Z3_5500	SR5-3_ELS & pile cap construction	35	35	06-Dec-21	19-Jan-22	29-Sep-21	10-Nov-21							

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

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/8/21)**  
Page 4 of 7

Date	Revision	Checked	Approved
06-Sep-21	3MRP DWP 2108	Tim	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Aug 38	Sep 39	Oct 40	Nov 41	Dec 42		
Z3_5540	SR5-2_ELS & pile cap construction	45	45	06-Dec-21	31-Jan-22	29-Sep-21	22-Nov-21							
<b>RETAINING WALL &amp; SUBWAY</b>														
<b>RETAINING WALL NO.1</b>														
Z3_4555	RW1_Diversion existing CLP cable	14	14	31-Aug-21*	15-Sep-21	17-May-21	02-Jun-21							
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	6	22-May-21 A	04-Oct-21	03-Jun-21	10-Jul-21							
Z3_4570	RW1_base slab construction for Bay 101 to Bay 104	32	8	25-May-21 A	05-Oct-21	23-Jun-21	30-Jul-21							
Z3_4580	RW1_retaining wall construction for Bay 101 to Bay 104	40	10	04-Jun-21 A	25-Oct-21	13-Jul-21	27-Aug-21							
Z3_4590	RW1_remove ELS & backfill for Bay 101 to Bay 104	10	10	27-Nov-21	09-Dec-21	22-Sep-21	04-Oct-21							
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	27	02-Jul-21 A	02-Oct-21	30-Apr-21	24-Jun-21							
Z3_4610	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)	16	11	26-Feb-21 A	16-Oct-21	12-Jul-21	29-Jul-21							
Z3_4620	RW1_base slab construction for Bay 105 to Bay 107	24	16	14-Aug-21 A	04-Nov-21	31-Jul-21	27-Aug-21							
Z3_4630	RW1_retaining wall construction for Bay 105 to Bay 107	30	30	04-Nov-21	09-Dec-21	28-Aug-21	04-Oct-21							
<b>RETAINING WALL NO.6</b>														
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	36	11-Mar-21 A	13-Oct-21	31-Mar-21	30-Jun-21							
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	09-Dec-21	17-Dec-21	31-Aug-21	09-Sep-21							
Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	31-Aug-21	17-Sep-21	30-Apr-21	20-May-21							
Z3_1218_1060	RW6_retaining wall construction for Bay 613 to 614	24	24	15-Oct-21	11-Nov-21	10-Jul-21	07-Aug-21							
<b>RETAINING WALL NO.7</b>														
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	01-Nov-21	06-Dec-21	02-Jul-21	06-Aug-21							
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	18-Nov-21	10-Jan-22	20-Jul-21	07-Sep-21							
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	30	31-May-21 A	07-Oct-21	30-Apr-21	08-Jun-21							
Z3_1218_2060	RW7_retaining wall construction for Bay 701 to Bay 704	48	48	07-Oct-21	03-Dec-21	09-Jun-21	05-Aug-21							
<b>MODIFY EXISTING RETAINING WALL SR3</b>														
Z3_4920	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)	19	19	31-Aug-21	22-Sep-21	05-Nov-20	26-Nov-20							
Z3_4940	SR3_base slab construction for Bay SR301 to Bay SR306	42	42	23-Sep-21	12-Nov-21	24-May-21	14-Jul-21							
Z3_4950	SR3_retaining wall construction for Bay SR301 to SR306	60	60	23-Oct-21	04-Jan-22	22-Jun-21	01-Sep-21							
Z3_5020	SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)	17	0	18-Dec-20 A	12-Aug-21 A	02-Feb-21	24-Feb-21							
Z3_5040	SR3_base slab construction for Bay SR307 to Bay SR311	35	0	08-Mar-21 A	26-Aug-21 A	24-Jun-21	05-Aug-21							
Z3_5050	SR3_retaining wall construction for Bay SR307 to SR311	50	30	17-May-21 A	17-Dec-21	14-Jul-21	10-Sep-21							
<b>MODIFY EXISTING RETAINING WALL SR4</b>														
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	50	40	31-Oct-20 A	20-Oct-21	31-Oct-20	31-Dec-20							
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	20-Oct-21	01-Nov-21	19-Jun-21	02-Jul-21							
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	40	32	01-Feb-21 A	26-Nov-21	02-Jun-21	21-Jul-21							
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	26-Nov-21	08-Dec-21	31-Jul-21	12-Aug-21							
<b>MODIFY EXISTING SUBWAY NS30</b>														
Z3_4542	Demolish existing subway & construct NS30	160	48	02-Dec-20 A	28-Oct-21	01-Feb-21	19-Aug-21							
<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	434	238	06-Mar-20 A	21-Jun-22	31-Mar-20	16-Sep-21							
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	24-Jan-22	31-Aug-20	31-May-21							
Z4SU1110	Zone 4 NF40 Construction	387	187	12-Oct-19 A	20-Apr-22	06-Jan-20	28-Apr-21							
<b>UTILITIES DIVERSION</b>														

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

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/8/21)**  
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Date	Revision	Checked	Approved
06-Sep-21	3MRP DWP 2108	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					
								Aug 38	Sep 39	Oct 40	Nov 41	Dec 42	
<b>NORTHBOUND</b>													
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	18-Nov-21	16-Dec-21	11-Aug-21	08-Sep-21						
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	31-Aug-21	04-Sep-21	30-Apr-21	06-May-21						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>NORTHBOUND</b>													
Z4_1520	N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128	06-Sep-21*	11-Feb-22	31-May-21	01-Nov-21						
<b>SOUTHBOUND</b>													
Z4_1540	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	20	05-Jun-20 A	24-Sep-21	28-Sep-20	19-Mar-21						
<b>PILE CAP AND FOOTING</b>													
<b>SOUTHBOUND</b>													
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	16	12-Mar-21 A	18-Sep-21	09-Jun-21	06-Aug-21						
Z4_1126	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)	42	21	13-May-21 A	16-Oct-21	21-Jun-21	10-Aug-21						
Z4_1130	SE6_ELS for cap construction S6E1-58 to S6E1-69 (145m_2 side)	40	33	26-Apr-21 A	30-Oct-21	21-Jun-21	07-Aug-21						
Z4_1140	SE6_footing/cap construction S6E1-58 to S6E1-69 (12nr)	84	77	18-Jun-21 A	18-Jan-22	10-Aug-21	19-Nov-21						
<b>BRIDGE AND STRUCTURE WORKS</b>													
<b>MODIFICATION WORKS FOR NF40</b>													
NF40_1080	Construct pile cap & part of new column	60	24	15-Feb-21 A	29-Sep-21	01-Mar-21	14-May-21						
NF40_1090	Construct temporary support tower & jack up NF40	60	60	29-Sep-21	10-Dec-21	31-May-21	11-Aug-21						
<b>MODIFICATION WORKS FOR NF66</b>													
NF66_1020	Construct the new column & columnhead	60	24	08-Feb-21 A	05-Oct-21	06-Feb-21	24-Apr-21						
NF66_1030	Erection temporary support tower	60	60	31-Aug-21	11-Nov-21	26-May-21	05-Aug-21						
NF66_1040	Remove existing column	60	60	12-Nov-21	24-Jan-22	06-Aug-21	18-Oct-21						
<b>WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>SUMMARY PROGRAMME</b>													
Z5SU1005	Zone 5 Stage 1 NB & SB foundation	467	277	10-Feb-20 A	06-Aug-22	31-Mar-20	28-Oct-21						
<b>PREPARATORY WORKS</b>													
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>													
Z5_1730	Zone 5-1_remove existing central barrier	21	21	31-Aug-21	29-Sep-21	02-Jul-21	02-Aug-21						
<b>UTILITIES DIVERSION</b>													
<b>NORTHBOUND</b>													
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	5	01-Feb-21 A	04-Sep-21	08-May-21	18-May-21						
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	04-Sep-21	23-Sep-21	20-May-21	05-Jun-21						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>SOUTHBOUND</b>													
Z5_1170	SE3-1_site investigation for S3E1-51 to S3E1-72 (21nr)	55	0	05-May-20 A	17-Aug-21 A	15-Jul-20	16-Sep-20						
Z5_1180	SE3-1_mini piles for S3E1-51 to S3E1-72 (132nr ver)	132	123	24-Jul-21 A	01-Mar-22	02-Aug-21	10-Jan-22						
<b>SOUTHBOUND SLIP ROAD</b>													
Z5_1300	R4_mini piles for R4-10P (12nr raking, 11nr ver)	92	81	29-Jul-21 A	06-Dec-21	03-Jun-21	20-Sep-21						
<b>PILE CAP AND FOOTING</b>													
<b>NORTHBOUND</b>													

-  Remaining Level of Effort
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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Aug 38	Sep 39	Oct 40	Nov 41	Dec 42		
Z5_1020	N4_ELS for footing/cap construction N4-29 to N4-53 (322m_2 side)	89	78	01-Feb-21 A	28-Dec-21	11-May-21	25-Aug-21							
Z5_1030	N4_cap/footing construction N4-29 to N4-53 (25nr)	147	132	27-Mar-21 A	23-May-22	25-May-21	17-Nov-21							
Z5_1050	N4_backfill & remove ELS	54	53	14-Apr-21 A	26-Jul-22	12-Feb-22	20-Apr-22							
<b>SOUTHBOUND</b>														
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-61P (131m_2 side)	73	62	20-Mar-21 A	15-Nov-21	31-Mar-21	02-Jul-21							
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (9nr)	189	168	13-May-21 A	25-Mar-22	24-May-21	07-Jan-22							
<b>SOUTHBOUND SLIP ROAD</b>														
Z5_1260	N3_ELS for footing construction N3-01 to N3-02 (30m_2 side)	17	9	01-Oct-20 A	09-Sep-21	26-Feb-21	17-Mar-21							
Z5_1270	N3_footing construction N3-01 to N3-02 (2nr)	42	21	24-Oct-20 A	06-Oct-21	08-Apr-21	31-May-21							
Z5_1280	N3_backfill & remove ELS	5	3	23-Jan-21 A	08-Oct-21	07-Apr-21	14-Apr-21							
Z5_1310	R4_ELS for footing/cap construction R4-01 to R4-12P (158m_1 side)	44	29	08-Sep-20 A	06-Dec-21	18-Mar-21	13-May-21							
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	118	08-Oct-20 A	05-May-22	21-May-21	09-Dec-21							
<b>ROADWORKS AND REMAINING WORKS</b>														
<b>GEOTECHNICAL WORKS</b>														
<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	05-Aug-22	07-Apr-22	14-May-22							
<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	173	11-May-20 A	30-Mar-22	31-Jul-20	16-Sep-21							
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>														
<b>PILE FOUNDATION WORKS</b>														
<b>NORTHBOUND SLIP ROAD</b>														
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P (16nr raking, 16nr ver)	64	45	09-Jul-21 A	25-Oct-21	24-May-21	07-Aug-21							
<b>PILE CAP AND FOOTING</b>														
<b>NORTHBOUND SLIP ROAD</b>														
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	8	15-Apr-21 A	17-Sep-21	10-May-21	16-Jun-21							
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	55	04-Aug-21 A	24-Nov-21	16-Jun-21	30-Aug-21							
Z5E_1040	R5_backfill & remove ELS	30	30	24-Nov-21	31-Dec-21	30-Aug-21	06-Oct-21							
Z5E_1080	R6_backfill & remove ELS	13	13	24-Nov-21	09-Dec-21	29-Sep-21	16-Oct-21							
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	25-Oct-21	30-Oct-21	09-Aug-21	13-Aug-21							
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	30-Oct-21	15-Jan-22	14-Aug-21	29-Oct-21							
<b>ROADWORKS AND REMAINING WORKS</b>														
<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	24	10-Sep-20 A	16-Feb-22	09-Dec-20	09-Feb-21							
Z5E_1160	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	20	03-Jun-21 A	04-Oct-21	10-May-21	10-Jul-21							
Z5E_1170	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	08-Sep-21	11-Sep-20	28-Oct-20							

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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/8/21)**  
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Date	Revision	Checked	Approved
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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					
								Sep 39	Oct 40	Nov 41	Dec 42	2022 Jan 43	
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)</b>													
<b>PROJECT KEY DATES</b>													
<b>PROJECT COMPLETION</b>													
KEY1130	Contract Completion of Section 3	0	0		18-Oct-21*		18-Oct-21						
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>													
<b>GENERAL SUBMISSION</b>													
SUB1403	ITP's for Lighting Luminaires and System	0	0	30-Sep-21*		30-Apr-21							
SUB1405	All Lighting Designs	0	0	30-Sep-21*		30-Apr-21							
SUB1410	Combined Services Drawings (CSD)	0	0	30-Sep-21*		30-Apr-21							
<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	12	29-Mar-21 A	11-Oct-21	31-Mar-21	22-Apr-21						
DES1270	PM Consent for Construction	28	28	11-Oct-21	08-Nov-21	11-May-21	08-Jun-21						
DES1290	PM review & comment	28	11	07-Aug-19 A	11-Oct-21	31-Aug-19	27-Sep-19						
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	12-Oct-21	01-Nov-21	12-May-21	01-Jun-21						
DES1310	PM Consent for Construction	28	28	01-Nov-21	29-Nov-21	01-Jun-21	29-Jun-21						
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Oct-21	31-Aug-19	27-Sep-19						
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Oct-21	02-Nov-21	12-May-21	02-Jun-21						
DES1350	PM Consent for Construction	28	28	02-Nov-21	30-Nov-21	02-Jun-21	30-Jun-21						
DES1370	PM review & comment	28	11	07-Aug-19 A	11-Oct-21	31-Aug-19	27-Sep-19						
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	12-Oct-21	01-Nov-21	12-May-21	01-Jun-21						
DES1390	PM Consent for Construction	28	28	01-Nov-21	29-Nov-21	01-Jun-21	29-Jun-21						
<b>REMAINING WORKS</b>													
DES1490	PM review & comment	28	1	25-Jan-19 A	30-Sep-21	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 Certificate	35	1	13-Apr-20 A	02-Oct-21	02-Jun-20	07-Jul-20						
DES1510	PM Consent for Construction	28	28	02-Oct-21	30-Oct-21	02-May-21	30-May-21						
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Sep-21	31-Jan-19	27-Feb-19						
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	30-Sep-21	02-Apr-19	03-May-19						
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	30-Sep-21	03-Nov-21	30-Apr-21	03-Jun-21						
DES1570	PM review & comment	28	28	04-Nov-21	01-Dec-21	04-Jun-21	01-Jul-21						
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Dec-21	03-Jan-22	03-Jul-21	03-Aug-21						
DES1590	PM Consent for Construction	28	28	04-Jan-22	31-Jan-22	04-Aug-21	31-Aug-21						
<b>SUBLETTING &amp; PROCUREMENT SCHEDULE</b>													
<b>SUBLETTING</b>													
SPS1180	Flexible Surfacing	30	15	31-Oct-20 A	22-Oct-21	13-Jul-21	11-Aug-21						
SPS1190	Road Marking and Road Studs	30	23	30-Nov-20 A	22-Oct-21	13-Jul-21	11-Aug-21						
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	5	31-Mar-20 A	04-Oct-21	01-May-21	30-May-21						
SPS1230	Sub-base and Concrete pavement	30	15	31-Oct-20 A	22-Oct-21	12-May-21	11-Jun-21						
SPS1440	Drainage for Noise Mitigation Measures	30	5	31-Mar-20 A	04-Oct-21	30-Apr-21	29-May-21						

 Remaining Level of Effort	 Remaining Work	 Milestone
 Actual Level of Effort	 Critical Remaining Work	 Baseline Milestone
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (30/9/21)**  
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Date	Revision	Checked	Approved
11-Oct-21	3MRP DWP 2109	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					2022
								Sep 39	Oct 40	Nov 41	Dec 42	Jan 43	
<b>PRELIMINARIES WORKS</b>													
<b>SUMMARY PROGRAMME</b>													
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	63	28-Dec-19 A	15-Dec-21	31-Dec-19	05-Feb-21	Zone 1 Stage 1 RSE1 CM foundation					
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	268	33	28-Jul-20 A	10-Nov-21	31-Jul-20	26-Jun-21	Zone 1 Stage 1 R1 structure R1-01 to 08					
Z1SU1034	Zone 1 Stage 1 R2 structure	435	202	20-Feb-20 A	08-Jun-22	20-Mar-20	07-Sep-21	Zone 1 Stage 1 R2 structure					
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation	195	195	08-Dec-21	08-Aug-22	08-Sep-21	09-May-22	Zone 1 Stage 2 RES1 SB foundation					
Z1SU1042	Zone 1 Stage 2 R1 structure R1-09 to 17	259	259	17-Dec-21	02-Nov-22	25-Sep-21	28-Jun-22	Zone 1 Stage 2 R1 structure R1-09 to 17					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>SOUTHBOUND</b>													
Z1_1540	RSE1_mini piles for RSE1-51P to 56P (40nr ver)	120	120	08-Dec-21	10-May-22	08-Sep-21	04-Feb-22	RSE1_mini piles for RSE1-51P to 56P (40nr ver)					
<b>PILE CAP AND FOOTING</b>													
<b>NORTHBOUND</b>													
Z1_1000	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)	30	9	19-Oct-20 A	11-Oct-21	31-Oct-20	04-Dec-20	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)					
Z1_1002	R1_footing construction R1-01, R1-03 to R1-08 (7nr)	147	18	27-Nov-20 A	02-Nov-21	21-Dec-20	24-Jun-21	R1_footing construction R1-01, R1-03 to R1-08 (7nr)					
Z1_1004	R1_pile cap construction R1-02P (1nr)	21	6	27-Jan-21 A	10-Nov-21	16-Jun-21	12-Jul-21	R1_pile cap construction R1-02P (1nr)					
Z1_1011	R1_ELS for footing/cap construction R1-09 to R1-17 (120m_1 side)	33	33	17-Dec-21	28-Jan-22	25-Sep-21	04-Nov-21	R1_ELS for footing/cap construction R1-09 to R1-17 (120m_1 side)					
<b>CENTRAL BARRIER</b>													
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	9	02-Sep-20 A	12-Oct-21	29-Oct-20	22-Dec-20	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)					
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	26	02-Nov-20 A	02-Nov-21	30-Nov-20	10-Apr-21	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)					
Z1_1150	RSE1_backfill & remove ELS	14	4	29-Apr-21 A	08-Dec-21	02-Jul-21	19-Jul-21	RSE1_backfill & remove ELS					
<b>SOUTHBOUND</b>													
Z1_1070	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)	38	15	04-Sep-20 A	20-Oct-21	08-May-21	24-Jun-21	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)					
Z1_1092	R2_footing/cap construction R2-01 to R2-06P(6nr)	126	50	23-Oct-20 A	17-Dec-21	23-Apr-21	23-Sep-21	R2_footing/cap construction R2-01 to R2-06P(6nr)					
Z1_1100	R2_backfill & remove ELS	12	11	15-Dec-20 A	03-Jan-22	08-Sep-21	23-Sep-21	R2_backfill & remove ELS					
<b>STRUCTURE STEEL FRAME</b>													
<b>CENTRAL BARRIER</b>													
Z1_1190	RSE1_erec steel posts PC1 to PC22 (22nr)	6	5	25-May-21 A	15-Dec-21	19-Jul-21	27-Jul-21	RSE1_erec steel posts PC1 to PC22 (22nr)					
<b>ROADWORKS AND REMAINING WORKS</b>													
<b>ROADWORKS</b>													
<b>CENTRAL BARRIER</b>													
Z1_1240	Drainage construction MR01 to MR04 38m	24	24	02-Nov-21	30-Nov-21	02-Jun-21	02-Jul-21	Drainage construction MR01 to MR04 38m					
<b>GEOTECHNICAL WORKS</b>													
<b>NORTHBOUND</b>													
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	10-Nov-21*	13-Jan-22	05-Aug-21	07-Oct-21	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1					
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>SUMMARY PROGRAMME</b>													
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	65	21-Nov-19 A	17-Dec-21	08-Aug-19	10-Aug-21	Construction Zone 2_Stage 1 RSE2 CM foundation					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE CAP AND FOOTING</b>													
<b>CENTRAL BARRIER</b>													
Z2_1070	RSE2_backfill & remove ELS	29	0	26-Jul-21 A	13-Sep-21 A	05-Aug-21	07-Sep-21	RSE2_backfill & remove ELS					

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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021								
								Sep 39	Oct 40	Nov 41	Dec 42	2022 Jan 43				
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>																
Z3_4210	C01_column construction	28	28	28-Dec-21	31-Jan-22	31-Jul-21	02-Sep-21									
Z3_4240	N264_temporary protection MTRC cable	42	42	28-Dec-21	19-Feb-22	31-Jul-21	18-Sep-21									
<b>MODIFICATION OF BRIDGE N263</b>																
<b>RECONSTRUCTION ABUTMENT WALL AT NHA</b>																
Z3_4140	NAW-1_ELS, excavation & pile cap construction	60	24	23-Oct-20 A	29-Oct-21	30-Nov-20	10-Feb-21									
Z3_4142	Demolish part of existing North Hollow Abutment wall for construction new wall	45	27	22-Apr-21 A	02-Nov-21	30-Apr-21	24-Jun-21									
Z3_4190	NAW_construct new abutment wall (North side)	60	54	25-May-21 A	03-Dec-21	31-May-21	11-Aug-21									
Z3_4195	NAW_construct new abutment wall (Remaining)	75	75	03-Nov-21	04-Feb-22	02-Jul-21	28-Sep-21									
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>																
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H-pile	48	48	30-Sep-21*	27-Nov-21	06-Sep-21	04-Nov-21									
Z3_3960	SHA_ELS & pile cap construction	45	45	27-Nov-21	22-Jan-22	04-Nov-21	29-Dec-21									
<b>DECK CONSTRUCTION OF BRIDGE N263</b>																
Z3_3880	N263_erec temporary working platform for deck construction (widen Area)	35	0	31-Mar-21 A	24-Sep-21 A	09-Jun-21	01-Sep-21									
Z3_3980	Construct the widen deck area PB-128a/b to 132a/b (Stage 1)	75	75	28-Dec-21	29-Mar-22	01-Sep-21	01-Dec-21									
<b>NEW SLIP ROAD 2</b>																
Z3_5350	SR2-1_ELS & pile cap construction	30	29	28-Sep-21 A	05-Nov-21	01-Jun-21	07-Jul-21									
Z3_5416	SR2-2A/B_ELS & pile cap construction	30	30	05-Nov-21	10-Dec-21	08-Jul-21	11-Aug-21									
<b>LIFT TOWER 1</b>																
Z3_3600	L1-PC1_piling works 4nr socket H-pile	32	32	30-Oct-21*	07-Dec-21	06-Sep-21	16-Oct-21									
Z3_3610	L1-PC1_ELS & pile cap construction	60	60	07-Dec-21	22-Feb-22	16-Oct-21	28-Dec-21									
<b>LIFT TOWER 2 &amp; STAIRCASE</b>																
Z3_3690	Lift Tower 2_erec steel structure	28	28	30-Oct-21*	02-Dec-21	02-Jul-21	03-Aug-21									
Z3_3700	Lift Tower 2_external finishing	45	45	02-Dec-21	27-Jan-22	04-Aug-21	25-Sep-21									
Z3_3710	Lift Tower 2_lift instalation	75	75	02-Dec-21	07-Mar-22	04-Aug-21	02-Nov-21									
Z3_3802	Lift Tower 2_Pier 2 column construction	21	21	03-Dec-21	30-Dec-21	30-Jul-21	23-Aug-21									
Z3_3804	Lift Tower 2_Pier 1 column construction	21	21	03-Dec-21	30-Dec-21	30-Jul-21	23-Aug-21									
Z3_3820	Staircase_staircase construction between Pier 3 and Pier 2	30	30	30-Dec-21	08-Feb-22	24-Aug-21	28-Sep-21									
Z3_3830	Staircase_bridge deck construction between Pier 2 and Pier 1	30	30	30-Dec-21	08-Feb-22	24-Aug-21	28-Sep-21									
<b>NEW SLIP ROAD 5</b>																
Z3_5490	SR5-3_piling works 21nr mini pile	84	75	25-Aug-21 A	31-Dec-21	21-Jun-21	28-Sep-21									
Z3_5500	SR5-3_ELS & pile cap construction	35	35	31-Dec-21	15-Feb-22	29-Sep-21	10-Nov-21									
Z3_5540	SR5-2_ELS & pile cap construction	45	45	31-Dec-21	26-Feb-22	29-Sep-21	22-Nov-21									
<b>RETAINING WALL &amp; SUBWAY</b>																
<b>RETAINING WALL NO.1</b>																
Z3_4555	RW1_Diversion existing CLP cable	14	14	30-Sep-21*	18-Oct-21	17-May-21	02-Jun-21									
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	6	22-May-21 A	03-Nov-21	03-Jun-21	10-Jul-21									
Z3_4570	RW1_base slab construction for Bay 101 to Bay 104	32	8	25-May-21 A	04-Nov-21	23-Jun-21	30-Jul-21									
Z3_4580	RW1_retaining wall construction for Bay 101 to Bay 104	40	10	04-Jun-21 A	23-Nov-21	13-Jul-21	27-Aug-21									
Z3_4590	RW1_remove ELS & backfill for Bay 101 to Bay 104	10	10	29-Dec-21	11-Jan-22	22-Sep-21	04-Oct-21									
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	14	02-Jul-21 A	26-Oct-21	30-Apr-21	24-Jun-21									
Z3_4610	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)	16	11	26-Feb-21 A	15-Nov-21	12-Jul-21	29-Jul-21									
Z3_4620	RW1_base slab construction for Bay 105 to Bay 107	24	16	14-Aug-21 A	03-Dec-21	31-Jul-21	27-Aug-21									

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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (30/9/21)**

Date	Revision	Checked	Approved
11-Oct-21	3MRP DWP 2109	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					2022
								Sep 30	Oct 31	Nov 30	Dec 31	Jan 31	
Z3_4630	RW1_retaining wall construction for Bay 105 to Bay 107	30	30	03-Dec-21	11-Jan-22	28-Aug-21	04-Oct-21						
<b>RETAINING WALL NO.6</b>													
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	36	11-Mar-21 A	12-Nov-21	31-Mar-21	30-Jun-21						
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	07-Jan-22	15-Jan-22	31-Aug-21	09-Sep-21						
Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	30-Sep-21	20-Oct-21	30-Apr-21	20-May-21						
Z3_1218_1060	RW6_retaining wall construction for Bay 613 to 614	24	24	13-Nov-21	10-Dec-21	10-Jul-21	07-Aug-21						
<b>RETAINING WALL NO.7</b>													
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	30-Nov-21	07-Jan-22	02-Jul-21	06-Aug-21						
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	17-Dec-21	11-Feb-22	20-Jul-21	07-Sep-21						
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	30	31-May-21 A	06-Nov-21	30-Apr-21	08-Jun-21						
Z3_1218_2060	RW7_retaining wall construction for Bay 701 to Bay 704	48	48	06-Nov-21	05-Jan-22	09-Jun-21	05-Aug-21						
<b>MODIFY EXISTING RETAINING WALL SR3</b>													
Z3_4920	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)	19	16	30-Aug-21 A	20-Oct-21	05-Nov-20	26-Nov-20						
Z3_4940	SR3_base slab construction for Bay SR301 to Bay SR306	42	39	07-Sep-21 A	04-Dec-21	24-May-21	14-Jul-21						
Z3_4950	SR3_retaining wall construction for Bay SR301 to SR306	60	60	26-Oct-21	07-Jan-22	22-Jun-21	01-Sep-21						
Z3_5050	SR3_retaining wall construction for Bay SR307 to SR311	50	30	17-May-21 A	12-Jan-22	14-Jul-21	10-Sep-21						
<b>MODIFY EXISTING RETAINING WALL SR4</b>													
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	50	40	31-Oct-20 A	18-Nov-21	31-Oct-20	31-Dec-20						
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	18-Nov-21	30-Nov-21	19-Jun-21	02-Jul-21						
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	40	32	01-Feb-21 A	28-Dec-21	02-Jun-21	21-Jul-21						
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	28-Dec-21	10-Jan-22	31-Jul-21	12-Aug-21						
<b>MODIFY EXISTING SUBWAY NS30</b>													
Z3_4542	Demolish existing subway & construct NS30	160	48	02-Dec-20 A	26-Nov-21	01-Feb-21	19-Aug-21						
<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	434	238	06-Mar-20 A	21-Jul-22	31-Mar-20	16-Sep-21						
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	25-Feb-22	31-Aug-20	31-May-21						
Z4SU1110	Zone 4 NF40 Construction	387	163	12-Oct-19 A	21-Apr-22	06-Jan-20	28-Apr-21						
<b>UTILITIES DIVERSION</b>													
<b>NORTHBOUND</b>													
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	17-Dec-21	18-Jan-22	11-Aug-21	08-Sep-21						
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	30-Sep-21	06-Oct-21	30-Apr-21	06-May-21						
<b>SOUTHBOUND</b>													
Z4_1380	UU_Salt watermain for S66 CH2275-2345 56m 700mm	20	20	14-Dec-21	10-Jan-22	06-Nov-21	30-Nov-21						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>NORTHBOUND</b>													
Z4_1520	N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128	07-Oct-21*	12-Mar-22	31-May-21	01-Nov-21						
<b>SOUTHBOUND</b>													
Z4_1540	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	20	05-Jun-20 A	26-Oct-21	28-Sep-20	19-Mar-21						
<b>PILE CAP AND FOOTING</b>													
<b>SOUTHBOUND</b>													

-  Remaining Level of Effort
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (30/9/21)**  
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Date	Revision	Checked	Approved
11-Oct-21	3MRP DWP 2109	Tim	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				2022		
								Sep 39	Oct 40	Nov 41	Dec 42	Jan 43		
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	16	12-Mar-21 A	21-Oct-21	09-Jun-21	06-Aug-21							
Z4_1126	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)	42	21	13-May-21 A	15-Nov-21	21-Jun-21	10-Aug-21							
Z4_1130	SE6_ELS for cap construction S6E1-58 to S6E1-69 (145m_2 side)	40	30	26-Apr-21 A	25-Nov-21	21-Jun-21	07-Aug-21							
Z4_1140	SE6_footing/cap construction S6E1-58 to S6E1-69 (12nr)	84	77	18-Jun-21 A	19-Feb-22	10-Aug-21	19-Nov-21							
<b>BRIDGE AND STRUCTURE WORKS</b>														
<b>MODIFICATION WORKS FOR NF40</b>														
NF40_1090	Construct temporary support tower & jack up NF40	60	60	30-Sep-21	11-Dec-21	31-May-21	11-Aug-21							
NF40_1100	Demolish part of existing pier	30	30	11-Dec-21	19-Jan-22	11-Aug-21	15-Sep-21							
<b>MODIFICATION WORKS FOR NF66</b>														
NF66_1030	Erection temporary support tower	60	60	30-Sep-21	10-Dec-21	26-May-21	05-Aug-21							
NF66_1040	Remove existing column	60	60	11-Dec-21	25-Feb-22	06-Aug-21	18-Oct-21							
<b>WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>SUMMARY PROGRAMME</b>														
Z5SU1005	Zone 5 Stage 1 NB & SB foundation	467	267	10-Feb-20 A	24-Aug-22	31-Mar-20	28-Oct-21							
<b>PREPARATORY WORKS</b>														
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>														
Z5_1730	Zone 5-1_remove existing central barrier	21	21	30-Sep-21	01-Nov-21	02-Jul-21	02-Aug-21							
<b>UTILITIES DIVERSION</b>														
<b>NORTHBOUND</b>														
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	5	01-Feb-21 A	06-Oct-21	08-May-21	18-May-21							
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	06-Oct-21	25-Oct-21	20-May-21	05-Jun-21							
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>														
<b>PILE FOUNDATION WORKS</b>														
<b>SOUTHBOUND</b>														
Z5_1180	SE3-1_mini piles for S3E1-51 to S3E1-72 (132nr ver)	132	88	24-Jul-21 A	19-Feb-22	02-Aug-21	10-Jan-22							
<b>SOUTHBOUND SLIP ROAD</b>														
Z5_1300	R4_mini piles for R4-10P (12nr raking, 11nr ver)	92	50	29-Jul-21 A	29-Nov-21	03-Jun-21	20-Sep-21							
<b>PILE CAP AND FOOTING</b>														
<b>NORTHBOUND</b>														
Z5_1020	N4_ELS for footing/cap construction N4-29 to N4-53 (322m_2 side)	89	78	01-Feb-21 A	27-Jan-22	11-May-21	25-Aug-21							
Z5_1030	N4_cap/footing construction N4-29 to N4-53 (25nr)	147	132	27-Mar-21 A	22-Jun-22	25-May-21	17-Nov-21							
Z5_1050	N4_backfill & remove ELS	54	53	14-Apr-21 A	24-Aug-22	12-Feb-22	20-Apr-22							
<b>SOUTHBOUND</b>														
Z5_1190	SE3-1_ELS for footing/cap construction S3E1-51 to S3E1-72 (313m_2 side)	58	58	14-Dec-21	26-Feb-22	06-Nov-21	17-Jan-22							
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-61P (131m_2 side)	73	57	20-Mar-21 A	07-Dec-21	31-Mar-21	02-Jul-21							
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (9nr)	189	168	13-May-21 A	28-Apr-22	24-May-21	07-Jan-22							
<b>SOUTHBOUND SLIP ROAD</b>														
Z5_1260	N3_ELS for footing construction N3-01 to N3-02 (30m_2 side)	17	9	01-Oct-20 A	11-Oct-21	26-Feb-21	17-Mar-21							
Z5_1270	N3_footing construction N3-01 to N3-02 (2nr)	42	21	24-Oct-20 A	05-Nov-21	08-Apr-21	31-May-21							
Z5_1280	N3_backfill & remove ELS	5	3	23-Jan-21 A	08-Nov-21	07-Apr-21	14-Apr-21							
Z5_1310	R4_ELS for footing/cap construction R4-01 to R4-12P (158m_1 side)	44	29	08-Sep-20 A	13-Dec-21	18-Mar-21	13-May-21							
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	118	08-Oct-20 A	12-May-22	21-May-21	09-Dec-21							

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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (30/9/21)**  
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Date	Revision	Checked	Approved
11-Oct-21	3MRP DWP 2109	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					2022
								Sep 39	Oct 40	Nov 41	Dec 42	Jan 43	
<b>ROADWORKS AND REMAINING WORKS</b>													
<b>GEOTECHNICAL WORKS</b>													
<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	12-Aug-22	07-Apr-22	14-May-22						
<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	170	11-May-20 A	29-Apr-22	31-Jul-20	16-Sep-21						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P ( 16nr raking, 16nr ver)	64	38	09-Jul-21 A	16-Nov-21	24-May-21	07-Aug-21						
<b>PILE CAP AND FOOTING</b>													
<b>NORTHBOUND SLIP ROAD</b>													
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	3	15-Apr-21 A	13-Oct-21	10-May-21	16-Jun-21						
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	35	04-Aug-21 A	24-Nov-21	16-Jun-21	30-Aug-21						
Z5E_1040	R5_backfill & remove ELS	30	30	24-Nov-21	31-Dec-21	30-Aug-21	06-Oct-21						
Z5E_1080	R6_backfill & remove ELS	13	13	24-Nov-21	09-Dec-21	29-Sep-21	16-Oct-21						
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	16-Nov-21	22-Nov-21	09-Aug-21	13-Aug-21						
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	22-Nov-21	10-Feb-22	14-Aug-21	29-Oct-21						
<b>ROADWORKS AND REMAINING WORKS</b>													
<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	24	10-Sep-20 A	09-Mar-22	09-Dec-20	09-Feb-21						
Z5E_1160	Zone 5 Portion E fill replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	20	03-Jun-21 A	03-Nov-21	10-May-21	10-Jul-21						
Z5E_1170	Zone 5 Portion E fill replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	09-Oct-21	11-Sep-20	28-Oct-20						

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11-Oct-21	3MRP DWP 2109	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					2022									
								Oct 40	Nov 41	Dec 42	Jan 43	Feb 44										
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)</b>																						
<b>PROJECT KEY DATES</b>																						
<b>PROJECT COMPLETION</b>																						
KEY1130	Contract Completion of Section 3	0	0	31-Oct-21*			18-Oct-21															
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>																						
<b>GENERAL SUBMISSION</b>																						
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Oct-21*		30-Apr-21																
SUB1405	All Lighting Designs	0	0	31-Oct-21*		30-Apr-21																
SUB1410	Combined Services Drawings (CSD)	0	0	31-Oct-21*		30-Apr-21																
<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	12	29-Mar-21 A	11-Nov-21	31-Mar-21	22-Apr-21															
DES1270	PM Consent for Construction	28	28	11-Nov-21	09-Dec-21	11-May-21	08-Jun-21															
DES1290	PM review & comment	28	11	07-Aug-19 A	11-Nov-21	31-Aug-19	27-Sep-19															
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	12-Nov-21	02-Dec-21	12-May-21	01-Jun-21															
DES1310	PM Consent for Construction	28	28	02-Dec-21	30-Dec-21	01-Jun-21	29-Jun-21															
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Nov-21	31-Aug-19	27-Sep-19															
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Nov-21	03-Dec-21	12-May-21	02-Jun-21															
DES1350	PM Consent for Construction	28	28	03-Dec-21	31-Dec-21	02-Jun-21	30-Jun-21															
DES1370	PM review & comment	28	11	07-Aug-19 A	11-Nov-21	31-Aug-19	27-Sep-19															
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	12-Nov-21	02-Dec-21	12-May-21	01-Jun-21															
DES1390	PM Consent for Construction	28	28	02-Dec-21	30-Dec-21	01-Jun-21	29-Jun-21															
<b>REMAINING WORKS</b>																						
DES1490	PM review & comment	28	1	25-Jan-19 A	31-Oct-21	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 Certificate	35	1	13-Apr-20 A	02-Nov-21	02-Jun-20	07-Jul-20															
DES1510	PM Consent for Construction	28	28	02-Nov-21	30-Nov-21	02-May-21	30-May-21															
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Oct-21	31-Jan-19	27-Feb-19															
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Oct-21	02-Apr-19	03-May-19															
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Oct-21	04-Dec-21	30-Apr-21	03-Jun-21															
DES1570	PM review & comment	28	28	05-Dec-21	01-Jan-22	04-Jun-21	01-Jul-21															
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Jan-22	03-Feb-22	03-Jul-21	03-Aug-21															
DES1590	PM Consent for Construction	28	28	04-Feb-22	03-Mar-22	04-Aug-21	31-Aug-21															
<b>SUBLETING &amp; PROCUREMENT SCHEDULE</b>																						
<b>SUBLETING</b>																						
SPS1180	Flexible Surfacing	30	6	31-Oct-20 A	14-Nov-21	13-Jul-21	11-Aug-21															
SPS1190	Road Marking and Road Studs	30	15	30-Nov-20 A	14-Nov-21	13-Jul-21	11-Aug-21															
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	0	31-Mar-20 A	30-Oct-21 A	01-May-21	30-May-21															
SPS1230	Sub-base and Concrete pavement	30	6	31-Oct-20 A	14-Nov-21	12-May-21	11-Jun-21															
SPS1440	Drainage for Noise Mitigation Measures	30	0	31-Mar-20 A	30-Oct-21 A	30-Apr-21	29-May-21															
<b>WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)</b>																						
<b>ROAD WIDENING &amp; RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)</b>																						
<b>3 Months Rolling Programme (31/10/21)</b>																						
<table border="1"> <tr> <td>Date</td> <td>Revision</td> <td>Checked</td> <td>Approved</td> </tr> <tr> <td>08-Nov-21</td> <td>3MRP DWP 2110</td> <td>Tim</td> <td></td> </tr> </table>													Date	Revision	Checked	Approved	08-Nov-21	3MRP DWP 2110	Tim			
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08-Nov-21	3MRP DWP 2110	Tim																				
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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021							
								Oct 40	Nov 41	Dec 42	Jan 43	Feb 44			
<b>PRELIMINARIES WORKS</b>															
<b>SUMMARY PROGRAMME</b>															
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	54	28-Dec-19 A	06-Jan-22	31-Dec-19	05-Feb-21								
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	268	30	28-Jul-20 A	06-Dec-21	31-Jul-20	26-Jun-21								
Z1SU1034	Zone 1 Stage 1 R2 structure	435	201	20-Feb-20 A	08-Jul-22	20-Mar-20	07-Sep-21								
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation	194	194	23-Nov-21	21-Jul-22	08-Sep-21	09-May-22								
Z1SU1042	Zone 1 Stage 2 R1 structure R1-09 to 17	264	264	10-Jan-22	28-Nov-22	25-Sep-21	28-Jun-22								
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>															
<b>PILE FOUNDATION WORKS</b>															
<b>SOUTHBOUND</b>															
Z1_1540	RSE1_mini piles for RSE1-51P to 56P (40nr ver)	120	120	23-Nov-21	22-Apr-22	08-Sep-21	04-Feb-22								
<b>PILE CAP AND FOOTING</b>															
<b>NORTHBOUND</b>															
Z1_1000	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)	30	6	19-Oct-20 A	06-Nov-21	31-Oct-20	04-Dec-20								
Z1_1002	R1_footing construction R1-01, R1-03 to R1-08 (7nr)	147	18	27-Nov-20 A	27-Nov-21	21-Dec-20	24-Jun-21								
Z1_1004	R1_pile cap construction R1-02P (1nr)	21	6	27-Jan-21 A	06-Dec-21	16-Jun-21	12-Jul-21								
Z1_1011	R1_ELS for footing/cap construction R1-09 to R1-17 (120m_1 side)	33	33	10-Jan-22	21-Feb-22	25-Sep-21	04-Nov-21								
<b>CENTRAL BARRIER</b>															
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	0	02-Sep-20 A	07-Oct-21 A	29-Oct-20	22-Dec-20								
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	0	02-Nov-20 A	29-Oct-21 A	30-Nov-20	10-Apr-21								
Z1_1150	RSE1_backfill & remove ELS	14	3	29-Apr-21 A	22-Nov-21	02-Jul-21	19-Jul-21								
<b>SOUTHBOUND</b>															
Z1_1070	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)	38	8	04-Sep-20 A	09-Nov-21	08-May-21	24-Jun-21								
Z1_1092	R2_footing/cap construction R2-01 to R2-06P(6nr)	126	50	23-Oct-20 A	10-Jan-22	23-Apr-21	23-Sep-21								
Z1_1100	R2_backfill & remove ELS	12	11	15-Dec-20 A	24-Jan-22	08-Sep-21	23-Sep-21								
Z1_1160	RSE1_ELS for pile cap construction RSE1-51P to 56P (83m_2 side)	23	23	08-Feb-22	05-Mar-22	20-Nov-21	16-Dec-21								
<b>STRUCTURE STEEL FRAME</b>															
<b>CENTRAL BARRIER</b>															
Z1_1190	RSE1_erect steel posts PC1 to PC22 (22nr)	6	5	25-May-21 A	06-Jan-22	19-Jul-21	27-Jul-21								
<b>ROADWORKS AND REMAINING WORKS</b>															
<b>ROADWORKS</b>															
<b>CENTRAL BARRIER</b>															
Z1_1240	Drainage construction MR01 to MR04 38m	24	12	18-Oct-21 A	13-Nov-21	02-Jun-21	02-Jul-21								
<b>GEOTECHNICAL WORKS</b>															
<b>NORTHBOUND</b>															
Z1_1320	Zone 1_fill replacement by no-lines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	06-Dec-21*	11-Feb-22	05-Aug-21	07-Oct-21								
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>															
<b>PRELIMINARIES WORKS</b>															
<b>SUMMARY PROGRAMME</b>															
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	57	21-Nov-19 A	10-Jan-22	08-Aug-19	10-Aug-21								
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>															
<b>STRUCTURE STEEL FRAME</b>															
<b>CENTRAL BARRIER</b>															

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

3 Months Rolling Programme (31/10/21)

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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				2022								
								Oct 40	Nov 41	Dec 42	Jan 43	Feb 44								
Z2_1120	RSE2_erect steel posts PC23 to PC67 (45nr)	12	2	27-Aug-21 A	10-Jan-22	08-Sep-21	24-Sep-21													
<b>ROADWORKS AND REMAINING WORKS</b>																				
<b>ROADWORKS</b>																				
<b>CENTRAL BARRIER</b>																				
Z2_1190	Drainage construction MN01 to MN06 246m	77	8	02-Jun-21 A	09-Nov-21	31-May-21	30-Aug-21													
<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	166	20-Nov-19 A	25-May-22	02-Sep-19	10-Nov-20													
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircase	256	141	31-Mar-20 A	25-Apr-22	29-Jun-20	11-May-21													
Z3SU5050	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge	344	500	02-Jun-20 A	11-Jul-23	26-Jan-21	25-Mar-22													
Z3SU5060	Zone 3b (near SR6) Stage 2 N263 bridge deck construction	487	501	31-Mar-21 A	12-Jul-23	09-Jun-21	30-Jan-23													
Z3SU5070	Zone 3b (near SR6) Stage 3 Construct SR5	682	411	28-Oct-20 A	20-Mar-23	01-Dec-20	21-Mar-23													
Z3SU5100	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30	162	89	02-Dec-20 A	18-Feb-22	01-Dec-20	22-Jun-21													
Z3SU5110	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414	106	461	07-Sep-20 A	23-May-23	30-Jan-21	15-Jun-21													
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>																				
<b>PILE FOUNDATION WORKS</b>																				
<b>SOUTHBOUND SLIP ROAD</b>																				
Z3_1765	SE8-1_mini piles for SR6 1-B & 2-B (9nr raking, 9nr ventr)	54	53	29-Oct-21 A	16-Feb-22	02-Aug-21	05-Oct-21													
<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	04-Feb-22	04-May-22	12-Aug-21	08-Nov-21													
<b>SOUTHBOUND</b>																				
Z3_5650	SE2_ELS for cap construction S2E1-52P (10m_2 side)	6	6	30-Nov-21	07-Dec-21	31-May-21	05-Jun-21													
Z3_5660	SE2_pile cap construction S2E1-52P (1nr)	21	21	07-Dec-21	04-Jan-22	07-Jun-21	02-Jul-21													
Z3_5670	SE2_backfill & remove ELS	2	2	04-Jan-22	06-Jan-22	03-Jul-21	05-Jul-21													
<b>ROADWORKS AND REMAINING WORKS</b>																				
<b>ROADWORKS</b>																				
<b>NORTHBOUND</b>																				
Z3_2740	Drainage construction MN26 to MN29 145m	45	45	13-Dec-21	09-Feb-22	10-Jul-21	01-Sep-21													
<b>SOUTHBOUND SLIP ROAD</b>																				
Z3_3160	Drainage construction MP01 to MP02 100m	51	51	08-Dec-21	12-Feb-22	04-Aug-21	04-Oct-21													
<b>BRIDGE AND STRUCTURE WORKS</b>																				
<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	09-Feb-22	03-Mar-22	28-Sep-21	21-Oct-21													
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	01-Nov-21	01-Nov-21	12-Jun-21	12-Jun-21													
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	19	08-Jun-20 A	22-Nov-21	31-Jul-20	29-Oct-20													
Z3_5685	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	21	08-Jun-20 A	24-Nov-21	02-Jun-21	13-Aug-21													
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>																				
Z3_4210	C01_column construction	28	28	20-Jan-22	24-Feb-22	31-Jul-21	02-Sep-21													
Z3_4240	N264_temporary protection MTRC cable	42	42	20-Jan-22	12-Mar-22	31-Jul-21	18-Sep-21													

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

**3 Months Rolling Programme (31/10/21)**

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<b>MODIFICATION OF BRIDGE N263</b>														
<b>RECONSTRUCTION ABUTMENT WALL AT #1A</b>														
Z3_4142	Demolish part of existing North Hollow Abutment wall for construction new wall	45	0	22-Apr-21 A	19-Oct-21 A	30-Apr-21	24-Jun-21	Demolish part of existing North Hollow Abutment wall for construction new wall						
Z3_4190	NAW_construct new abutment wall (North side)	60	24	25-May-21 A	27-Nov-21	31-May-21	11-Aug-21	NAW_construct new abutment wall (North side)						
Z3_4195	NAW_construct new abutment wall (Remaining)	75	68	07-Oct-21 A	21-Jan-22	02-Jul-21	28-Sep-21	NAW_construct new abutment						
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>														
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	01-Nov-21*	28-Dec-21	06-Sep-21	04-Nov-21	SHA_piling works for pier SHA 6 nos. Socket H-pile						
Z3_3960	SHA_ELS & pile cap construction	45	45	29-Dec-21	23-Feb-22	04-Nov-21	29-Dec-21							
<b>DECK CONSTRUCTION OF BRIDGE N263</b>														
Z3_3980	Construct the widen deck area PB-128a/b to 132a/b (Stage 1)	75	75	20-Dec-21	23-Mar-22	01-Sep-21	01-Dec-21							
Z3_3982	N263_erec temporary working platform for deck construction (Remaining Area)	35	35	24-Jan-22	20-Apr-22	29-Sep-21	20-Dec-21							
<b>NEW SLIP ROAD 2</b>														
Z3_5350	SR2-1_ELS & pile cap construction	30	29	28-Sep-21 A	03-Dec-21	01-Jun-21	07-Jul-21	SR2-1_ELS & pile cap construction						
Z3_5416	SR2-2A/B_ELS & pile cap construction	30	30	03-Dec-21	11-Jan-22	08-Jul-21	11-Aug-21	SR2-2A/B_ELS & pile cap construction						
<b>LIFT TOWER 1</b>														
Z3_3600	L1-PC1_piling works 4nr socket H-pile	32	32	30-Nov-21*	10-Jan-22	06-Sep-21	16-Oct-21	L1-PC1_piling works 4nr socket H-pile						
Z3_3610	L1-PC1_ELS & pile cap construction	60	60	10-Jan-22	24-Mar-22	16-Oct-21	28-Dec-21							
<b>LIFT TOWER 2 &amp; STAIRCASE</b>														
Z3_3690	Lift Tower 2_erec steel structure	28	28	30-Nov-21*	05-Jan-22	02-Jul-21	03-Aug-21	Lift Tower 2_erec steel structure						
Z3_3700	Lift Tower 2_external finishing	45	45	05-Jan-22	02-Mar-22	04-Aug-21	25-Sep-21							
Z3_3710	Lift Tower 2_lift instalation	75	75	05-Jan-22	07-Apr-22	04-Aug-21	02-Nov-21							
Z3_3802	Lift Tower 2_Pler 2 column construction	21	21	06-Jan-22	31-Jan-22	30-Jul-21	23-Aug-21	Lift Tower 2_P						
Z3_3804	Lift Tower 2_Pler 1 column construction	21	21	06-Jan-22	31-Jan-22	30-Jul-21	23-Aug-21	Lift Tower 2_P						
Z3_3820	Staircase_staircase construction between Pier 3 and Pier 2	30	30	31-Jan-22	10-Mar-22	24-Aug-21	28-Sep-21							
Z3_3830	Staircase_bridge deck construction between Pier 2 and Pier 1	30	30	31-Jan-22	10-Mar-22	24-Aug-21	28-Sep-21							
<b>NEW SLIP ROAD 5</b>														
Z3_5490	SR5-3_piling works 21nr mini pile	84	56	25-Aug-21 A	07-Jan-22	21-Jun-21	28-Sep-21	SR5-3_piling works 21nr mini pile						
Z3_5500	SR5-3_ELS & pile cap construction	35	35	07-Jan-22	21-Feb-22	29-Sep-21	10-Nov-21							
Z3_5540	SR5-2_ELS & pile cap construction	45	45	07-Jan-22	04-Mar-22	29-Sep-21	22-Nov-21							
<b>RETAINING WALL &amp; SUBWAY</b>														
<b>RETAINING WALL NO.1</b>														
Z3_4555	RW1_Diversion existing CLP cable	14	14	01-Nov-21*	16-Nov-21	17-May-21	02-Jun-21	RW1_Diversion existing CLP cable						
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	6	22-May-21 A	02-Dec-21	03-Jun-21	10-Jul-21	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)						
Z3_4570	RW1_base slab construction for Bay 101 to Bay 104	32	8	25-May-21 A	03-Dec-21	23-Jun-21	30-Jul-21	RW1_base slab construction for Bay 101 to Bay 104						
Z3_4580	RW1_retaining wall construction for Bay 101 to Bay 104	40	10	04-Jun-21 A	22-Dec-21	13-Jul-21	27-Aug-21	RW1_retaining wall construction for Bay 101 to Bay 104						
Z3_4590	RW1_remove ELS & backfill for Bay 101 to Bay 104	10	10	28-Jan-22	12-Feb-22	22-Sep-21	04-Oct-21							
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	14	02-Jul-21 A	24-Nov-21	30-Apr-21	24-Jun-21	RW1_demolish existing retaining structure between Bay 105 and Bay 107						
Z3_4610	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)	16	11	26-Feb-21 A	14-Dec-21	12-Jul-21	29-Jul-21	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)						
Z3_4620	RW1_base slab construction for Bay 105 to Bay 107	24	16	14-Aug-21 A	05-Jan-22	31-Jul-21	27-Aug-21	RW1_base slab construction for Bay 105 to Bay 107						
Z3_4630	RW1_retaining wall construction for Bay 105 to Bay 107	30	30	05-Jan-22	12-Feb-22	28-Aug-21	04-Oct-21							
<b>RETAINING WALL NO.6</b>														
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	36	11-Mar-21 A	11-Dec-21	31-Mar-21	30-Jun-21	RW6_retaining wall construction for Bay 601 to Bay 606						
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	09-Feb-22	17-Feb-22	31-Aug-21	09-Sep-21							

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Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	01-Nov-21	18-Nov-21	30-Apr-21	20-May-21							
Z3_1218_1060	RW6_retaining wall construction for Bay 613 to 614	24	24	13-Dec-21	12-Jan-22	10-Jul-21	07-Aug-21							
<b>RETAINING WALL NO.7</b>														
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	22-Dec-21	28-Jan-22	02-Jul-21	06-Aug-21							
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	12-Jan-22	04-Mar-22	20-Jul-21	07-Sep-21							
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	30	31-May-21 A	06-Dec-21	30-Apr-21	08-Jun-21							
Z3_1218_2060	RW7_retaining wall construction for Bay 701 to Bay 704	48	48	06-Dec-21	07-Feb-22	09-Jun-21	05-Aug-21							
<b>MODIFY EXISTING RETAINING WALL SR3</b>														
Z3_4920	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)	19	10	30-Aug-21 A	11-Nov-21	05-Nov-20	26-Nov-20							
Z3_4940	SR3_base slab construction for Bay SR301 to Bay SR306	42	28	07-Sep-21 A	14-Dec-21	24-May-21	14-Jul-21							
Z3_4950	SR3_retaining wall construction for Bay SR301 to SR306	60	60	11-Nov-21	24-Jan-22	22-Jun-21	01-Sep-21							
Z3_4960	SR3_remove ELS & backfill for Bay SR301 to SR304	9	9	24-Jan-22	07-Feb-22	01-Sep-21	11-Sep-21							
Z3_5050	SR3_retaining wall construction for Bay SR307 to SR311	50	30	17-May-21 A	21-Jan-22	14-Jul-21	10-Sep-21							
Z3_5060	SR3_remove ELS & backfill for Bay SR307 to SR311	5	5	07-Feb-22	12-Feb-22	11-Sep-21	17-Sep-21							
<b>MODIFY EXISTING RETAINING WALL SR4</b>														
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	50	34	31-Oct-20 A	09-Dec-21	31-Oct-20	31-Dec-20							
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	10-Dec-21	21-Dec-21	19-Jun-21	02-Jul-21							
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	40	32	01-Feb-21 A	19-Jan-22	02-Jun-21	21-Jul-21							
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	20-Jan-22	31-Jan-22	31-Jul-21	12-Aug-21							
<b>MODIFY EXISTING SUBWAY NS30</b>														
Z3_4542	Demolish existing subway & construct NS30	160	35	02-Dec-20 A	10-Dec-21	01-Feb-21	19-Aug-21							
<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	434	238	06-Mar-20 A	19-Aug-22	31-Mar-20	16-Sep-21							
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	26-Mar-22	31-Aug-20	31-May-21							
Z4SU1110	Zone 4 NF40 Construction	387	162	12-Oct-19 A	20-May-22	06-Jan-20	28-Apr-21							
<b>UTILITIES DIVERSION</b>														
<b>NORTHBOUND</b>														
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	19-Jan-22	19-Feb-22	11-Aug-21	08-Sep-21							
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	01-Nov-21	05-Nov-21	30-Apr-21	06-May-21							
<b>SOUTHBOUND</b>														
Z4_1380	UU_Salt watermain for SE6 CH2275-2345 56m 700mm	20	20	14-Jan-22	10-Feb-22	06-Nov-21	30-Nov-21							
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>														
<b>PILE FOUNDATION WORKS</b>														
<b>NORTHBOUND</b>														
Z4_1520	N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128	06-Nov-21*	12-Apr-22	31-May-21	01-Nov-21							
<b>SOUTHBOUND</b>														
Z4_1540	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	20	05-Jun-20 A	24-Nov-21	28-Sep-20	19-Mar-21							
<b>PILE CAP AND FOOTING</b>														
<b>SOUTHBOUND</b>														
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	16	12-Mar-21 A	18-Nov-21	09-Jun-21	06-Aug-21							
Z4_1126	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)	42	21	13-May-21 A	13-Dec-21	21-Jun-21	10-Aug-21							

- 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 (31/10/21)

Date	Revision	Checked	Approved
08-Nov-21	3MRP DWP 2110	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				2022					
								Oct 40	Nov 41	Dec 42	Jan 43	Feb 44					
Z4_1130	SE6_ELS for cap construction S6E1-58 to S6E1-69 (145m_2 side)	40	27	26-Apr-21 A	20-Dec-21	21-Jun-21	07-Aug-21										
Z4_1140	SE6_footing/cap construction S6E1-58 to S6E1-69 (12nr)	84	63	18-Jun-21 A	03-Mar-22	10-Aug-21	19-Nov-21										
<b>BRIDGE AND STRUCTURE WORKS</b>																	
<b>MODIFICATION WORKS FOR NF40</b>																	
NF40_1090	Construct temporary support tower & jack up NF40	60	60	01-Nov-21	12-Jan-22	31-May-21	11-Aug-21										
NF40_1100	Demolish part of existing pier	30	30	13-Jan-22	19-Feb-22	11-Aug-21	15-Sep-21										
<b>MODIFICATION WORKS FOR NF66</b>																	
NF66_1030	Erection temporary support tower	60	60	01-Nov-21	12-Jan-22	26-May-21	05-Aug-21										
NF66_1040	Remove existing column	60	60	13-Jan-22	26-Mar-22	06-Aug-21	18-Oct-21										
<b>WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)</b>																	
<b>PRELIMINARIES WORKS</b>																	
<b>SUMMARY PROGRAMME</b>																	
Z5SU1005	Zone 5 Stage 1 NB & SB foundation	467	267	10-Feb-20 A	23-Sep-22	31-Mar-20	28-Oct-21										
<b>PREPARATORY WORKS</b>																	
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>																	
Z5_1730	Zone 5-1_remove existing central barrier	21	21	01-Nov-21	29-Nov-21	02-Jul-21	02-Aug-21										
<b>UTILITIES DIVERSION</b>																	
<b>NORTHBOUND</b>																	
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	5	01-Feb-21 A	05-Nov-21	08-May-21	18-May-21										
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	05-Nov-21	23-Nov-21	20-May-21	05-Jun-21										
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>																	
<b>PILE FOUNDATION WORKS</b>																	
<b>SOUTHBOUND</b>																	
Z5_1180	SE3-1_mini piles for S3E1-51 to S3E1-72 (132nr ver)	132	88	24-Jul-21 A	19-Mar-22	02-Aug-21	10-Jan-22										
<b>SOUTHBOUND SLIP ROAD</b>																	
Z5_1300	R4_mini piles for R4-10P (12nr raking, 11nr ver)	92	49	29-Jul-21 A	30-Dec-21	03-Jun-21	20-Sep-21										
<b>PILE CAP AND FOOTING</b>																	
<b>NORTHBOUND</b>																	
Z5_1020	N4_ELS for footing/cap construction N4-29 to N4-53 (322m_2 side)	89	78	01-Feb-21 A	01-Mar-22	11-May-21	25-Aug-21										
Z5_1030	N4_cap/footing construction N4-29 to N4-53 (25nr)	147	132	27-Mar-21 A	22-Jul-22	25-May-21	17-Nov-21										
Z5_1050	N4_backfill & remove ELS	54	53	14-Apr-21 A	23-Sep-22	12-Feb-22	20-Apr-22										
<b>SOUTHBOUND</b>																	
Z5_1190	SE3-1_ELS for footing/cap construction S3E1-51 to S3E1-72 (313m_2 side)	58	58	14-Jan-22	26-Mar-22	06-Nov-21	17-Jan-22										
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-61P (131m_2 side)	73	57	20-Mar-21 A	08-Jan-22	31-Mar-21	02-Jul-21										
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (9nr)	189	168	13-May-21 A	28-May-22	24-May-21	07-Jan-22										
<b>SOUTHBOUND SLIP ROAD</b>																	
Z5_1260	N3_ELS for footing construction N3-01 to N3-02 (30m_2 side)	17	9	01-Oct-20 A	10-Nov-21	26-Feb-21	17-Mar-21										
Z5_1270	N3_footing construction N3-01 to N3-02 (2nr)	42	21	24-Oct-20 A	04-Dec-21	08-Apr-21	31-May-21										
Z5_1280	N3_backfill & remove ELS	5	3	23-Jan-21 A	07-Dec-21	07-Apr-21	14-Apr-21										
Z5_1310	R4_ELS for footing/cap construction R4-01 to R4-12P (158m_1 side)	44	22	08-Sep-20 A	05-Jan-22	18-Mar-21	13-May-21										
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	115	08-Oct-20 A	30-May-22	21-May-21	09-Dec-21										

	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 (31/10/21)

Page 6 of 7

Date	Revision	Checked	Approved
08-Nov-21	3MRP DWP 2110	Tim	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					2022		
								Oct 40	Nov 41	Dec 42	Jan 43	Feb 44			
<b>SOUTHBOUND SLIP ROAD</b>															
Z5_1740	Zone 5 fill replacement by no-lines concrete 7SE-A/F166 (open excavation)	29	21	12-Mar-21 A	30-Aug-22	07-Apr-22	14-May-22								
<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	165	11-May-20 A	24-May-22	31-Jul-20	16-Sep-21								
<b>NOISE BARRIER AND SEM-ENCLOSURE</b>															
<b>PILE FOUNDATION WORKS</b>															
<b>NORTHBOUND SLIP ROAD</b>															
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P (16nr raking, 16nr ver)	64	12	09-Jul-21 A	13-Nov-21	24-May-21	07-Aug-21								
<b>PILE CAP AND FOOTING</b>															
<b>NORTHBOUND SLIP ROAD</b>															
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	3	15-Apr-21 A	12-Nov-21	10-May-21	16-Jun-21								
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	35	04-Aug-21 A	23-Dec-21	16-Jun-21	30-Aug-21								
Z5E_1040	R5_backfill & remove ELS	30	30	23-Dec-21	31-Jan-22	30-Aug-21	06-Oct-21								
Z5E_1080	R6_backfill & remove ELS	13	13	23-Dec-21	11-Jan-22	29-Sep-21	16-Oct-21								
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	13-Nov-21	19-Nov-21	09-Aug-21	13-Aug-21								
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	19-Nov-21	08-Feb-22	14-Aug-21	29-Oct-21								
Z5E_1230	N4 & R5_backfill & remove ELS	13	13	08-Feb-22	23-Feb-22	30-Oct-21	13-Nov-21								
<b>ROADWORKS AND REMAINING WORKS</b>															
<b>GEOTECHNICAL WORKS</b>															
<b>NORTHBOUND SLIP ROAD</b>															
Z5E_1150	Zone 5 Portion E_fill replacement by no-lines concrete 7SE-A/F163 (open excavation)	50	24	10-Sep-20 A	08-Mar-22	09-Dec-20	09-Feb-21								
Z5E_1160	Zone 5 Portion E_fill replacement by no-lines concrete 7SE-A/FR136 (open excavation)	50	20	03-Jun-21 A	02-Dec-21	10-May-21	10-Jul-21								
Z5E_1170	Zone 5 Portion E_fill replacement by no-lines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	09-Nov-21	11-Sep-20	28-Oct-20								

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

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

3 Months Rolling Programme (31/10/21)

Page 7 of 7

Date	Revision	Checked	Approved
08-Nov-21	3MRP DWP 2110	Tim	

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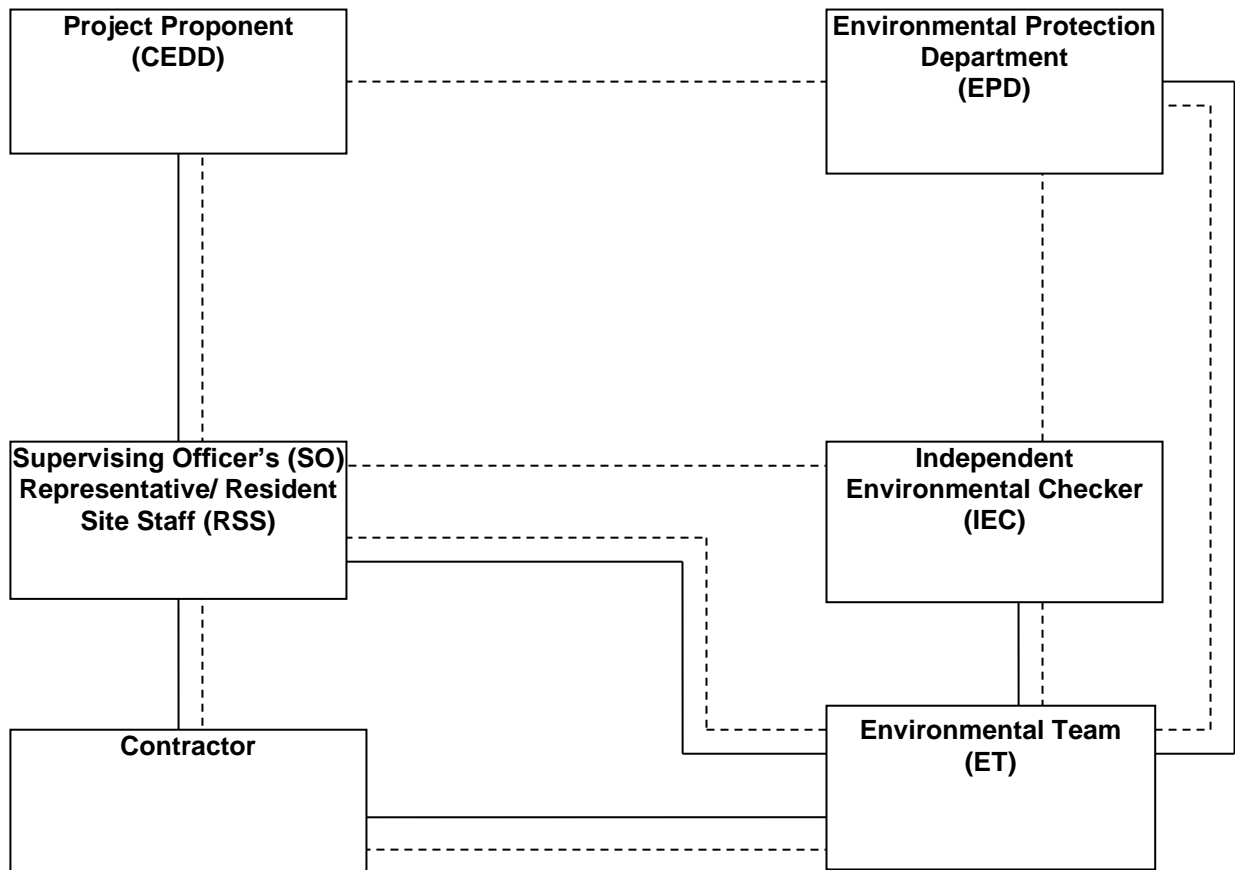
## Appendix B

### Project Organization Chart

# FUGRO TECHNICAL SERVICES LIMITED

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**Legend:**  
—— Line of Reporting  
- - - - Line of Communication

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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 ( $\mu\text{g}/\text{m}^3$ )	AMS1	171	260
	AMS2	166	
	AMS3A	200	
	AMS4A	200	
	AMS5	156	
	AMS6	165	
	AMS7A	171	
	AMS8	161	
	AMS9	159	
	AMS10	155	
	AMS11A	165	
	AMS12	168	
	AMS13	174	
	AMS14	174	
	AMS15	172	
	AMS16	180	
	AMS17	171	
	AMS18	175	
	AMS19	174	
1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	AMS1	350	500
	AMS2	324	
	AMS3A	350	
	AMS4A	348	
	AMS5	340	
	AMS6	347	
	AMS7A	344	
	AMS8	336	
	AMS9	327	
	AMS10	330	
	AMS11A	335	
	AMS12	296	
	AMS13	303	
	AMS14	350	
	AMS15	350	
	AMS16	310	
	AMS17	338	
	AMS18	308	
	AMS19	305	

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

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

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

## Action and Limit Levels for Construction Noise, Leq (15min), dB(A)

Time Period	Location	Action	Limit
2300-0700 hrs of next day	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS8 NMS9 NMS11 NMS13 NMS14 NMS15 NMS16 NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26	When one documented complaint is received	55 dB(A)

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## Appendix D

### Graphical Presentation of Monitoring Data

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

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

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-21	11:24	72	70	84	75	348	500	Sunny		
07-Aug-21	14:43	70	70	67	69			Fine		
13-Aug-21	11:16	79	82	72	78			Fine		
19-Aug-21	16:10	82	86	84	84			Fine		
25-Aug-21	09:18	96	91	96	94			Sunny		
31-Aug-21	09:30	77	89	62	76			Overcast		
03-Nov-21	09:21	65	73	71	70			Sunny		
09-Nov-21	09:04	68	70	65	68			Fine		
15-Nov-21	13:22	58	64	59	60			Fine		
20-Nov-21	19:03	61	61	44	55			Fine		
26-Nov-21	17:16	53	50	48	50			Sunny		
<b>Average</b>		71								
<b>Max</b>		96								
<b>Min</b>		44								

## AMS5 - Tin Liu

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )										
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather		
06-Sep-21	12:16	103	96	89	96	340	500	Fine		
11-Sep-21	16:22	86	94	84	88			Fine		
17-Sep-21	14:42	92	86	78	85			Sunny		
23-Sep-21	09:20	70	118	118	102			Overcast		
29-Sep-21	16:40	63	69	76	69			Fine		
05-Oct-21	13:05	58	58	53	56			Fine		
11-Oct-21	15:00	67	67	47	60			Fine		
16-Oct-21	18:16	41	56	58	52			Fine		
22-Oct-21	17:40	67	73	68	69			Fine		
28-Oct-21	11:20	64	55	58	59			Fine		
<b>Average</b>		74								
<b>Max</b>		118								
<b>Min</b>		41								

## 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-21	11:39	49	49	54	51	344	500	Sunny		
07-Aug-21	10:27	52	54	49	52			Fine		
13-Aug-21	14:32	54	58	57	56			Fine		
19-Aug-21	10:23	52	60	58	57			Fine		
25-Aug-21	15:27	63	66	63	64			Sunny		
31-Aug-21	07:44	50	54	55	53			Overcast		
06-Sep-21	10:29	71	57	61	63			Fine		
11-Sep-21	12:38	58	55	57	57			Fine		
17-Sep-21	16:30	92	85	84	87			Sunny		
23-Sep-21	09:53	102	104	115	107			Overcast		
29-Sep-21	17:01	49	59	53	54			Fine		
05-Oct-21	18:22	54	53	53	53			Fine		
11-Oct-21	14:16	67	62	57	62			Fine		
16-Oct-21	07:33	64	50	57	57			Fine		
22-Oct-21	17:54	61	57	54	57			Fine		
28-Oct-21	16:38	60	53	56	56			Fine		
03-Nov-21	16:36	94	93	76	88			Sunny		
09-Nov-21	11:22	63	66	63	64			Fine		
15-Nov-21	08:39	50	53	53	52			Fine		
20-Nov-21	07:50	50	51	42	48			Fine		
26-Nov-21	12:32	50	59	57	55			Sunny		
<b>Average</b>		62								
<b>Max</b>		115								
<b>Min</b>		42								



**AMS 12 - 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-21	13:55	60	66	60	62	296	500	Sunny		
07-Aug-21	12:45	40	55	60	52			Fine		
13-Aug-21	16:47	55	61	46	54			Fine		
19-Aug-21	10:39	46	61	61	56			Fine		
25-Aug-21	08:44	58	66	67	64			Sunny		
31-Aug-21	15:56	43	44	49	45			Overcast		
03-Nov-21	11:48	78	83	81	81			Sunny		
09-Nov-21	10:40	65	68	66	66			Fine		
15-Nov-21	09:56	62	64	59	62			Fine		
20-Nov-21	09:34	48	50	53	50			Fine		
26-Nov-21	11:47	53	32	59	48			Sunny		
<b>Average</b>					58					
<b>Max</b>					83					
<b>Min</b>					32					

**AMS 14 - Ha 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		
06-Sep-21	09:43	84	87	89	87	350	500	Fine		
11-Sep-21	12:00	69	69	67	68			Fine		
17-Sep-21	15:07	80	77	75	77			Sunny		
23-Sep-21	16:39	101	119	115	112			Overcast		
29-Sep-21	17:11	64	70	61	65			Fine		
05-Oct-21	09:41	56	57	48	54			Fine		
11-Oct-21	12:32	62	64	62	63			Fine		
16-Oct-21	07:49	53	48	57	53			Fine		
22-Oct-21	16:16	70	67	66	68			Fine		
28-Oct-21	16:52	61	64	51	59			Fine		
<b>Average</b>					70					
<b>Max</b>					119					
<b>Min</b>					48					

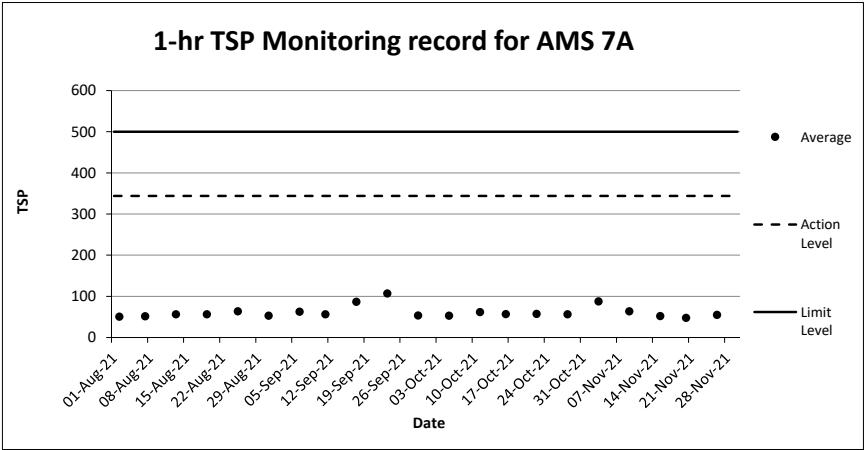
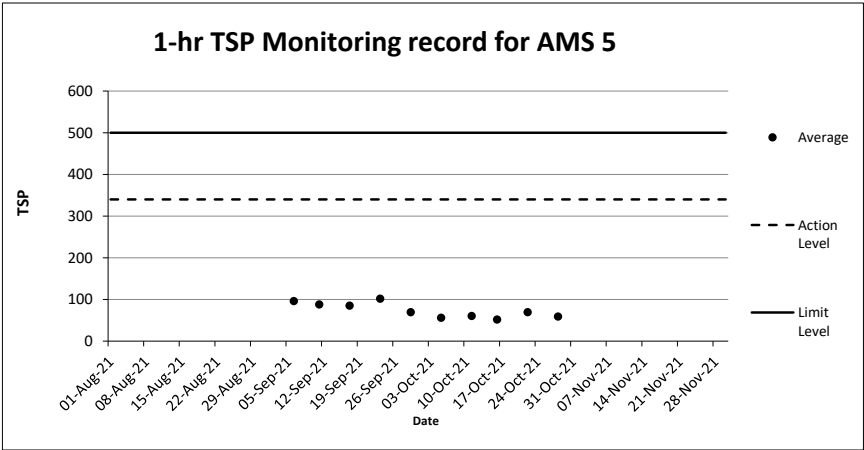
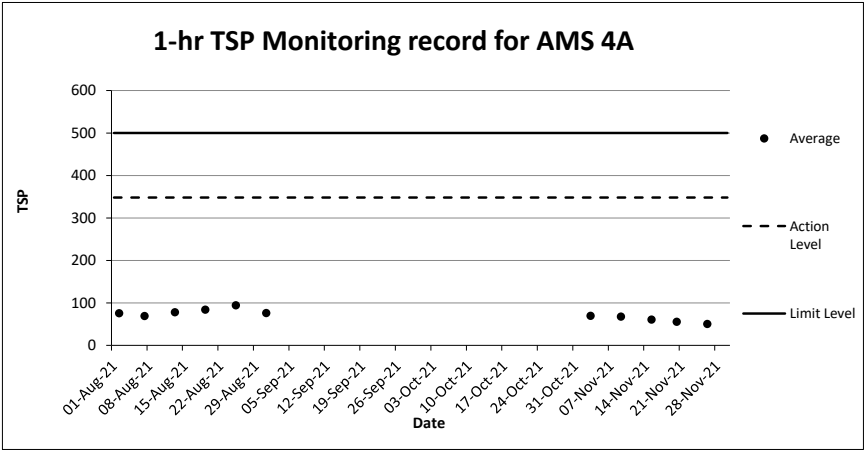
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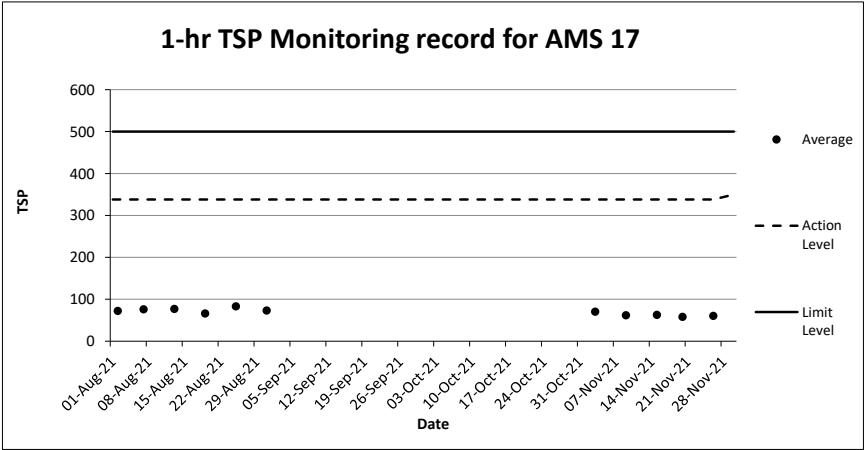
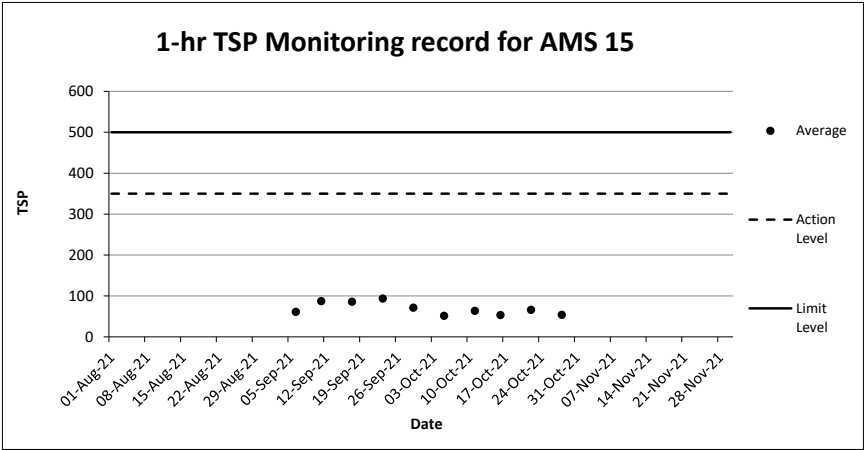
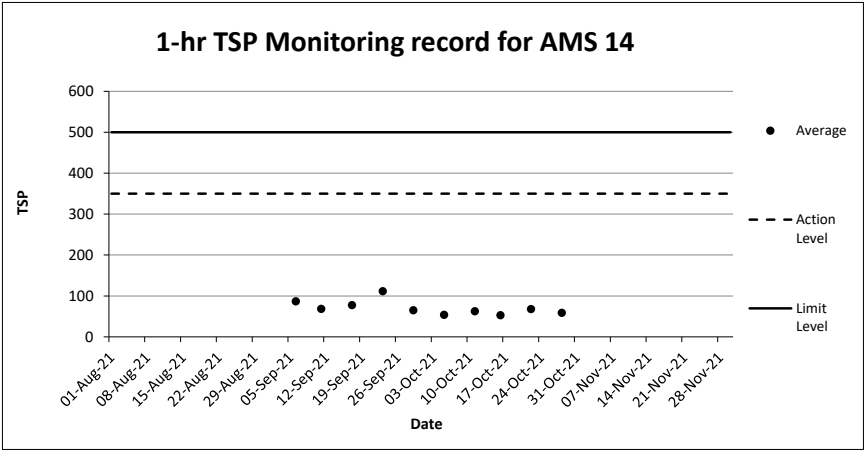
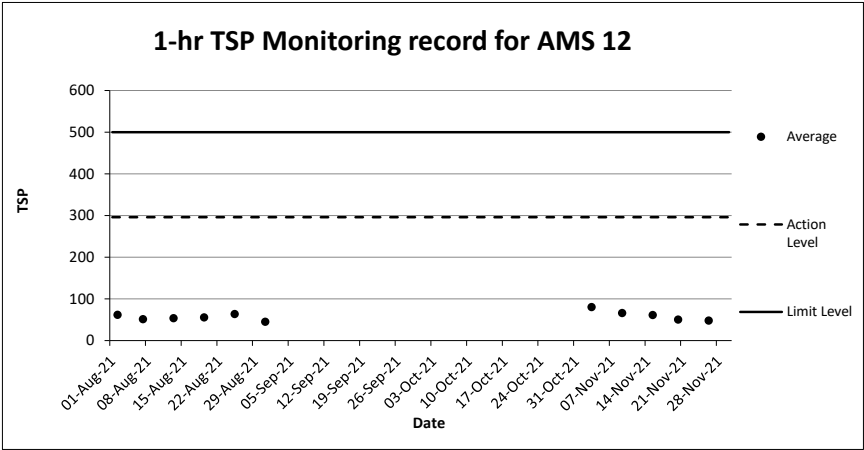
1-hour TSP ( $\mu\text{g}/\text{m}^3$ )										
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather		
06-Sep-21	17:57	57	61	66	61	350	500	Fine		
11-Sep-21	10:10	89	84	89	87			Fine		
17-Sep-21	17:36	80	91	87	86			Sunny		
23-Sep-21	07:16	102	96	84	94			Overcast		
29-Sep-21	18:34	74	72	68	71			Fine		
05-Oct-21	13:55	42	51	62	52			Fine		
11-Oct-21	17:45	64	65	62	64			Fine		
16-Oct-21	15:02	51	56	54	54			Fine		
22-Oct-21	12:24	64	69	66	66			Fine		
28-Oct-21	17:03	51	57	54	54			Fine		
<b>Average</b>					69					
<b>Max</b>					102					
<b>Min</b>					42					

**AMS 17 - 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-21	14:06	69	79	69	72	338	500	Sunny		
07-Aug-21	13:58	74	77	77	76			Fine		
13-Aug-21	13:05	87	77	67	77			Fine		
19-Aug-21	14:58	74	72	52	66			Fine		
25-Aug-21	13:03	97	79	74	83			Sunny		
31-Aug-21	09:10	87	64	69	73			Overcast		
03-Nov-21	13:05	67	71	73	70			Sunny		
09-Nov-21	16:56	60	65	61	62			Fine		
15-Nov-21	13:08	67	57	64	63			Fine		
20-Nov-21	08:19	62	56	57	58			Fine		
26-Nov-21	13:02	61	59	61	60			Sunny		
<b>Average</b>					69					
<b>Max</b>					97					
<b>Min</b>					52					

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





**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 ( $\mu\text{g}/\text{m}^3$ )
02/08/2021 07:24	48
02/08/2021 08:24	46
02/08/2021 09:24	50
02/08/2021 10:24	79
02/08/2021 11:24	72
02/08/2021 12:24	70
02/08/2021 13:24	84
02/08/2021 14:24	46
02/08/2021 15:24	50
02/08/2021 16:24	72
02/08/2021 17:24	77
02/08/2021 18:24	72
02/08/2021 19:24	53
02/08/2021 20:24	65
02/08/2021 21:24	60
02/08/2021 22:24	82
02/08/2021 23:24	72
03/08/2021 00:24	43
03/08/2021 01:24	62
03/08/2021 02:24	65
03/08/2021 03:24	72
03/08/2021 04:24	82
03/08/2021 05:24	67
03/08/2021 06:24	60
Average	65
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
07/08/2021 07:13	38
07/08/2021 08:13	74
07/08/2021 09:13	55
07/08/2021 10:13	48
07/08/2021 11:13	38
07/08/2021 12:13	70
07/08/2021 13:13	50
07/08/2021 14:13	70
07/08/2021 15:13	70
07/08/2021 16:13	67
07/08/2021 17:13	69
07/08/2021 18:13	67
07/08/2021 19:13	62
07/08/2021 20:13	50
07/08/2021 21:13	62
07/08/2021 22:13	41
07/08/2021 23:13	55
08/08/2021 00:13	50
08/08/2021 01:13	53
08/08/2021 02:13	65
08/08/2021 03:13	38
08/08/2021 04:13	46
08/08/2021 05:13	50
08/08/2021 06:13	50
Average	56
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
13/08/2021 07:16	80
13/08/2021 08:16	65
13/08/2021 09:16	84
13/08/2021 10:16	53
13/08/2021 11:16	79
13/08/2021 12:16	82
13/08/2021 13:16	72
13/08/2021 14:16	67
13/08/2021 15:16	50
13/08/2021 16:16	65
13/08/2021 17:16	65
13/08/2021 18:16	67
13/08/2021 19:16	60
13/08/2021 20:16	72
13/08/2021 21:16	86
13/08/2021 22:16	77
13/08/2021 23:16	65
14/08/2021 00:16	86
14/08/2021 01:16	77
14/08/2021 02:16	50
14/08/2021 03:16	79
14/08/2021 04:16	74
14/08/2021 05:16	77
14/08/2021 06:16	77
Average	71
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
19/08/2021 07:10	77
19/08/2021 08:10	79
19/08/2021 09:10	62
19/08/2021 10:10	86
19/08/2021 11:10	77
19/08/2021 12:10	77
19/08/2021 13:10	79
19/08/2021 14:10	65
19/08/2021 15:10	67
19/08/2021 16:10	82
19/08/2021 17:10	86
19/08/2021 18:10	84
19/08/2021 19:10	79
19/08/2021 20:10	74
19/08/2021 21:10	79
19/08/2021 22:10	79
19/08/2021 23:10	86
20/08/2021 00:10	46
20/08/2021 01:10	72
20/08/2021 02:10	67
20/08/2021 03:10	79
20/08/2021 04:10	50
20/08/2021 05:10	65
20/08/2021 06:10	86
Average	74
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
25/08/2021 07:18	58
25/08/2021 08:18	62
25/08/2021 09:18	96
25/08/2021 10:18	91
25/08/2021 11:18	96
25/08/2021 12:18	60
25/08/2021 13:18	96
25/08/2021 14:18	60
25/08/2021 15:18	74
25/08/2021 16:18	89
25/08/2021 17:18	84
25/08/2021 18:18	77
25/08/2021 19:18	86
25/08/2021 20:18	74
25/08/2021 21:18	97
25/08/2021 22:18	67
25/08/2021 23:18	70
26/08/2021 00:18	62
26/08/2021 01:18	84
26/08/2021 02:18	89
26/08/2021 03:18	74
26/08/2021 04:18	70
26/08/2021 05:18	60
26/08/2021 06:18	91
Average	78
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
31/08/2021 07:30	67
31/08/2021 08:30	50
31/08/2021 09:30	77
31/08/2021 10:30	89
31/08/2021 11:30	62
31/08/2021 12:30	50
31/08/2021 13:30	41
31/08/2021 14:30	60
31/08/2021 15:30	77
31/08/2021 16:30	77
31/08/2021 17:30	65
31/08/2021 18:30	46
31/08/2021 19:30	43
31/08/2021 20:30	41
31/08/2021 21:30	48
31/08/2021 22:30	77
31/08/2021 23:30	46
01/09/2021 00:30	53
01/09/2021 01:30	70
01/09/2021 02:30	74
01/09/2021 03:30	48
01/09/2021 04:30	46
01/09/2021 05:30	60
01/09/2021 06:30	46
Average	59
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)**

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

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
03/11/2021 07:21	53
03/11/2021 08:21	58
03/11/2021 09:21	65
03/11/2021 10:21	73
03/11/2021 11:21	71
03/11/2021 12:21	52
03/11/2021 13:21	55
03/11/2021 14:21	47
03/11/2021 15:21	59
03/11/2021 16:21	58
03/11/2021 17:21	67
03/11/2021 18:21	65
03/11/2021 19:21	70
03/11/2021 20:21	68
03/11/2021 21:21	56
03/11/2021 22:21	52
03/11/2021 23:21	47
04/11/2021 00:21	52
04/11/2021 01:21	62
04/11/2021 02:21	56
04/11/2021 03:21	65
04/11/2021 04:21	61
04/11/2021 05:21	55
04/11/2021 06:21	61
Average	59
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
09/11/2021 08:04	61
09/11/2021 09:04	68
09/11/2021 10:04	70
09/11/2021 11:04	65
09/11/2021 12:04	58
09/11/2021 13:04	56
09/11/2021 14:04	52
09/11/2021 15:04	52
09/11/2021 16:04	50
09/11/2021 17:04	47
09/11/2021 18:04	52
09/11/2021 19:04	43
09/11/2021 20:04	49
09/11/2021 21:04	47
09/11/2021 22:04	46
09/11/2021 23:04	49
10/11/2021 00:04	44
10/11/2021 01:04	43
10/11/2021 02:04	43
10/11/2021 03:04	41
10/11/2021 04:04	43
10/11/2021 05:04	47
10/11/2021 06:04	50
10/11/2021 07:04	49
Average	51
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
15/11/2021 07:22	36
15/11/2021 08:22	38
15/11/2021 09:22	48
15/11/2021 10:22	36
15/11/2021 11:22	39
15/11/2021 12:22	36
15/11/2021 13:22	58
15/11/2021 14:22	64
15/11/2021 15:22	59
15/11/2021 16:22	56
15/11/2021 17:22	47
15/11/2021 18:22	39
15/11/2021 19:22	47
15/11/2021 20:22	59
15/11/2021 21:22	53
15/11/2021 22:22	53
15/11/2021 23:22	44
16/11/2021 00:22	39
16/11/2021 01:22	55
16/11/2021 02:22	67
16/11/2021 03:22	50
16/11/2021 04:22	56
16/11/2021 05:22	56
16/11/2021 06:22	44
Average	49
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
20/11/2021 08:03	42
20/11/2021 09:03	42
20/11/2021 10:03	59
20/11/2021 11:03	41
20/11/2021 12:03	42
20/11/2021 13:03	59
20/11/2021 14:03	58
20/11/2021 15:03	45
20/11/2021 16:03	47
20/11/2021 17:03	35
20/11/2021 18:03	48
20/11/2021 19:03	61
20/11/2021 20:03	61
20/11/2021 21:03	44
20/11/2021 22:03	53
20/11/2021 23:03	55
21/11/2021 00:03	39
21/11/2021 01:03	35
21/11/2021 02:03	61
21/11/2021 03:03	61
21/11/2021 04:03	39
21/11/2021 05:03	36
21/11/2021 06:03	35
21/11/2021 07:03	56
Average	48
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
26/11/2021 07:16	39
26/11/2021 08:16	35
26/11/2021 09:16	33
26/11/2021 10:16	48
26/11/2021 11:16	41
26/11/2021 12:16	36
26/11/2021 13:16	45
26/11/2021 14:16	44
26/11/2021 15:16	48
26/11/2021 16:16	45
26/11/2021 17:16	53
26/11/2021 18:16	50
26/11/2021 19:16	48
26/11/2021 20:16	50
26/11/2021 21:16	29
26/11/2021 22:16	30
26/11/2021 23:16	42
27/11/2021 00:16	44
27/11/2021 01:16	47
27/11/2021 02:16	52
27/11/2021 03:16	47
27/11/2021 04:16	33
27/11/2021 05:16	50
27/11/2021 06:16	44
Average	43
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)**

**AMSS - Tin Liu**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
06/09/2021 07:16	65
06/09/2021 08:16	70
06/09/2021 09:16	89
06/09/2021 10:16	84
06/09/2021 11:16	77
06/09/2021 12:16	103
06/09/2021 13:16	96
06/09/2021 14:16	89
06/09/2021 15:16	79
06/09/2021 16:16	86
06/09/2021 17:16	77
06/09/2021 18:16	68
06/09/2021 19:16	91
06/09/2021 20:16	79
06/09/2021 21:16	67
06/09/2021 22:16	60
06/09/2021 23:16	58
07/09/2021 00:16	72
07/09/2021 01:16	65
07/09/2021 02:16	94
07/09/2021 03:16	84
07/09/2021 04:16	77
07/09/2021 05:16	68
07/09/2021 06:16	70
Average	78
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/09/2021 09:22	79
11/09/2021 10:22	82
11/09/2021 11:22	86
11/09/2021 12:22	82
11/09/2021 13:22	67
11/09/2021 14:22	67
11/09/2021 15:22	67
11/09/2021 16:22	86
11/09/2021 17:22	94
11/09/2021 18:22	84
11/09/2021 19:22	70
11/09/2021 20:22	86
11/09/2021 21:22	77
11/09/2021 22:22	86
11/09/2021 23:22	89
12/09/2021 00:22	84
12/09/2021 01:22	67
12/09/2021 02:22	74
12/09/2021 03:22	96
12/09/2021 04:22	77
12/09/2021 05:22	84
12/09/2021 06:22	79
12/09/2021 07:22	91
12/09/2021 08:22	89
Average	81
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
17/09/2021 08:42	44
17/09/2021 09:42	50
17/09/2021 10:42	52
17/09/2021 11:42	53
17/09/2021 12:42	56
17/09/2021 13:42	61
17/09/2021 14:42	92
17/09/2021 15:42	86
17/09/2021 16:42	78
17/09/2021 17:42	67
17/09/2021 18:42	73
17/09/2021 19:42	71
17/09/2021 20:42	77
17/09/2021 21:42	68
17/09/2021 22:42	70
17/09/2021 23:42	65
18/09/2021 00:42	83
18/09/2021 01:42	74
18/09/2021 02:42	71
18/09/2021 03:42	68
18/09/2021 04:42	67
18/09/2021 05:42	56
18/09/2021 06:42	53
18/09/2021 07:42	58
Average	66
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
23/09/2021 08:20	64
23/09/2021 09:20	70
23/09/2021 10:20	118
23/09/2021 11:20	118
23/09/2021 12:20	48
23/09/2021 13:20	62
23/09/2021 14:20	83
23/09/2021 15:20	94
23/09/2021 16:20	52
23/09/2021 17:20	67
23/09/2021 18:20	92
23/09/2021 19:20	100
23/09/2021 20:20	83
23/09/2021 21:20	62
23/09/2021 22:20	91
23/09/2021 23:20	115
24/09/2021 00:20	80
24/09/2021 01:20	82
24/09/2021 02:20	85
24/09/2021 03:20	117
24/09/2021 04:20	111
24/09/2021 05:20	109
24/09/2021 06:20	80
24/09/2021 07:20	74
Average	86
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
29/09/2021 08:40	33
29/09/2021 09:40	34
29/09/2021 10:40	41
29/09/2021 11:40	39
29/09/2021 12:40	38
29/09/2021 13:40	38
29/09/2021 14:40	45
29/09/2021 15:40	54
29/09/2021 16:40	63
29/09/2021 17:40	69
29/09/2021 18:40	76
29/09/2021 19:40	51
29/09/2021 20:40	61
29/09/2021 21:40	66
29/09/2021 22:40	59
29/09/2021 23:40	54
30/09/2021 00:40	51
30/09/2021 01:40	41
30/09/2021 02:40	38
30/09/2021 03:40	40
30/09/2021 04:40	40
30/09/2021 05:40	43
30/09/2021 06:40	41
30/09/2021 07:40	46
Average	48
Action Level	156
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)**

**AM55 - Tin Liu**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
05/10/2021 07:05	53
05/10/2021 08:05	33
05/10/2021 09:05	38
05/10/2021 10:05	41
05/10/2021 11:05	42
05/10/2021 12:05	53
05/10/2021 13:05	58
05/10/2021 14:05	58
05/10/2021 15:05	53
05/10/2021 16:05	33
05/10/2021 17:05	36
05/10/2021 18:05	56
05/10/2021 19:05	33
05/10/2021 20:05	53
05/10/2021 21:05	55
05/10/2021 22:05	41
05/10/2021 23:05	48
06/10/2021 00:05	41
06/10/2021 01:05	52
06/10/2021 02:05	36
06/10/2021 03:05	53
06/10/2021 04:05	32
06/10/2021 05:05	52
06/10/2021 06:05	39
Average	45
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/10/2021 07:00	50
11/10/2021 08:00	56
11/10/2021 09:00	48
11/10/2021 10:00	62
11/10/2021 11:00	53
11/10/2021 12:00	44
11/10/2021 13:00	59
11/10/2021 14:00	36
11/10/2021 15:00	67
11/10/2021 16:00	67
11/10/2021 17:00	47
11/10/2021 18:00	35
11/10/2021 19:00	41
11/10/2021 20:00	58
11/10/2021 21:00	48
11/10/2021 22:00	65
11/10/2021 23:00	44
12/10/2021 00:00	55
12/10/2021 01:00	65
12/10/2021 02:00	53
12/10/2021 03:00	59
12/10/2021 04:00	55
12/10/2021 05:00	61
12/10/2021 06:00	38
Average	53
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
16/10/2021 07:16	56
16/10/2021 08:16	27
16/10/2021 09:16	29
16/10/2021 10:16	27
16/10/2021 11:16	41
16/10/2021 12:16	47
16/10/2021 13:16	44
16/10/2021 14:16	35
16/10/2021 15:16	26
16/10/2021 16:16	39
16/10/2021 17:16	29
16/10/2021 18:16	41
16/10/2021 19:16	56
16/10/2021 20:16	58
16/10/2021 21:16	29
16/10/2021 22:16	33
16/10/2021 23:16	50
17/10/2021 00:16	39
17/10/2021 01:16	58
17/10/2021 02:16	38
17/10/2021 03:16	48
17/10/2021 04:16	52
17/10/2021 05:16	32
17/10/2021 06:16	30
Average	40
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
22/10/2021 08:40	40
22/10/2021 09:40	33
22/10/2021 10:40	33
22/10/2021 11:40	37
22/10/2021 12:40	38
22/10/2021 13:40	44
22/10/2021 14:40	52
22/10/2021 15:40	50
22/10/2021 16:40	58
22/10/2021 17:40	67
22/10/2021 18:40	73
22/10/2021 19:40	68
22/10/2021 20:40	58
22/10/2021 21:40	55
22/10/2021 22:40	53
22/10/2021 23:40	62
23/10/2021 00:40	61
23/10/2021 01:40	62
23/10/2021 02:40	62
23/10/2021 03:40	61
23/10/2021 04:40	58
23/10/2021 05:40	55
23/10/2021 06:40	53
23/10/2021 07:40	52
Average	54
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
28/10/2021 07:20	50
28/10/2021 08:20	44
28/10/2021 09:20	36
28/10/2021 10:20	38
28/10/2021 11:20	64
28/10/2021 12:20	55
28/10/2021 13:20	58
28/10/2021 14:20	56
28/10/2021 15:20	41
28/10/2021 16:20	45
28/10/2021 17:20	42
28/10/2021 18:20	44
28/10/2021 19:20	45
28/10/2021 20:20	44
28/10/2021 21:20	36
28/10/2021 22:20	61
28/10/2021 23:20	47
29/10/2021 00:20	58
29/10/2021 01:20	45
29/10/2021 02:20	53
29/10/2021 03:20	44
29/10/2021 04:20	53
29/10/2021 05:20	50
29/10/2021 06:20	47
Average	48
Action Level	156
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 ( $\mu\text{g}/\text{m}^3$ )
02/08/2021 07:39	35
02/08/2021 08:39	44
02/08/2021 09:39	47
02/08/2021 10:39	39
02/08/2021 11:39	46
02/08/2021 12:39	49
02/08/2021 13:39	54
02/08/2021 14:39	36
02/08/2021 15:39	35
02/08/2021 16:39	44
02/08/2021 17:39	32
02/08/2021 18:39	47
02/08/2021 19:39	46
02/08/2021 20:39	50
02/08/2021 21:39	46
02/08/2021 22:39	52
02/08/2021 23:39	52
03/08/2021 00:39	38
03/08/2021 01:39	41
03/08/2021 02:39	44
03/08/2021 03:39	43
03/08/2021 04:39	43
03/08/2021 05:39	41
03/08/2021 06:39	46
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
07/08/2021 07:27	44
07/08/2021 08:27	47
07/08/2021 09:27	33
07/08/2021 10:27	52
07/08/2021 11:27	54
07/08/2021 12:27	49
07/08/2021 13:27	49
07/08/2021 14:27	38
07/08/2021 15:27	39
07/08/2021 16:27	50
07/08/2021 17:27	35
07/08/2021 18:27	30
07/08/2021 19:27	44
07/08/2021 20:27	50
07/08/2021 21:27	33
07/08/2021 22:27	46
07/08/2021 23:27	55
08/08/2021 00:27	46
08/08/2021 01:27	47
08/08/2021 02:27	50
08/08/2021 03:27	44
08/08/2021 04:27	54
08/08/2021 05:27	50
08/08/2021 06:27	32
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
13/08/2021 07:32	49
13/08/2021 08:32	47
13/08/2021 09:32	41
13/08/2021 10:32	38
13/08/2021 11:32	38
13/08/2021 12:32	46
13/08/2021 13:32	32
13/08/2021 14:32	54
13/08/2021 15:32	58
13/08/2021 16:32	57
13/08/2021 17:32	49
13/08/2021 18:32	32
13/08/2021 19:32	33
13/08/2021 20:32	50
13/08/2021 21:32	44
13/08/2021 22:32	57
13/08/2021 23:32	58
14/08/2021 00:32	32
14/08/2021 01:32	33
14/08/2021 02:32	50
14/08/2021 03:32	58
14/08/2021 04:32	49
14/08/2021 05:32	36
14/08/2021 06:32	58
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
19/08/2021 07:23	46
19/08/2021 08:23	39
19/08/2021 09:23	38
19/08/2021 10:23	52
19/08/2021 11:23	60
19/08/2021 12:23	58
19/08/2021 13:23	38
19/08/2021 14:23	39
19/08/2021 15:23	57
19/08/2021 16:23	36
19/08/2021 17:23	43
19/08/2021 18:23	47
19/08/2021 19:23	60
19/08/2021 20:23	41
19/08/2021 21:23	38
19/08/2021 22:23	49
19/08/2021 23:23	43
20/08/2021 00:23	39
20/08/2021 01:23	57
20/08/2021 02:23	49
20/08/2021 03:23	35
20/08/2021 04:23	50
20/08/2021 05:23	46
20/08/2021 06:23	43
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
25/08/2021 07:27	65
25/08/2021 08:27	41
25/08/2021 09:27	49
25/08/2021 10:27	55
25/08/2021 11:27	61
25/08/2021 12:27	65
25/08/2021 13:27	54
25/08/2021 14:27	58
25/08/2021 15:27	63
25/08/2021 16:27	66
25/08/2021 17:27	63
25/08/2021 18:27	61
25/08/2021 19:27	57
25/08/2021 20:27	46
25/08/2021 21:27	54
25/08/2021 22:27	41
25/08/2021 23:27	66
26/08/2021 00:27	54
26/08/2021 01:27	52
26/08/2021 02:27	68
26/08/2021 03:27	54
26/08/2021 04:27	54
26/08/2021 05:27	68
26/08/2021 06:27	66
Average	57
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
31/08/2021 07:44	50
31/08/2021 08:44	54
31/08/2021 09:44	55
31/08/2021 10:44	39
31/08/2021 11:44	43
31/08/2021 12:44	49
31/08/2021 13:44	36
31/08/2021 14:44	52
31/08/2021 15:44	55
31/08/2021 16:44	46
31/08/2021 17:44	54
31/08/2021 18:44	39
31/08/2021 19:44	54
31/08/2021 20:44	47
31/08/2021 21:44	43
31/08/2021 22:44	47
31/08/2021 23:44	39
01/09/2021 00:44	46
01/09/2021 01:44	33
01/09/2021 02:44	50
01/09/2021 03:44	44
01/09/2021 04:44	52
01/09/2021 05:44	35
01/09/2021 06:44	39
Average	46
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)**

**AMS7A - Sheung Wo Che**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
06/09/2021 07:29	57
06/09/2021 08:29	46
06/09/2021 09:29	52
06/09/2021 10:29	71
06/09/2021 11:29	57
06/09/2021 12:29	61
06/09/2021 13:29	56
06/09/2021 14:29	55
06/09/2021 15:29	46
06/09/2021 16:29	43
06/09/2021 17:29	44
06/09/2021 18:29	49
06/09/2021 19:29	60
06/09/2021 20:29	41
06/09/2021 21:29	52
06/09/2021 22:29	49
06/09/2021 23:29	58
07/09/2021 00:29	54
07/09/2021 01:29	63
07/09/2021 02:29	50
07/09/2021 03:29	60
07/09/2021 04:29	55
07/09/2021 05:29	58
07/09/2021 06:29	65
Average	54
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/09/2021 09:38	57
11/09/2021 10:38	50
11/09/2021 11:38	44
11/09/2021 12:38	58
11/09/2021 13:38	55
11/09/2021 14:38	57
11/09/2021 15:38	47
11/09/2021 16:38	47
11/09/2021 17:38	47
11/09/2021 18:38	52
11/09/2021 19:38	54
11/09/2021 20:38	58
11/09/2021 21:38	43
11/09/2021 22:38	54
11/09/2021 23:38	50
12/09/2021 00:38	54
12/09/2021 01:38	44
12/09/2021 02:38	49
12/09/2021 03:38	49
12/09/2021 04:38	49
12/09/2021 05:38	54
12/09/2021 06:38	55
12/09/2021 07:38	57
12/09/2021 08:38	57
Average	52
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
17/09/2021 08:30	36
17/09/2021 09:30	41
17/09/2021 10:30	41
17/09/2021 11:30	35
17/09/2021 12:30	46
17/09/2021 13:30	52
17/09/2021 14:30	57
17/09/2021 15:30	51
17/09/2021 16:30	92
17/09/2021 17:30	85
17/09/2021 18:30	84
17/09/2021 19:30	60
17/09/2021 20:30	57
17/09/2021 21:30	51
17/09/2021 22:30	52
17/09/2021 23:30	66
18/09/2021 00:30	65
18/09/2021 01:30	70
18/09/2021 02:30	72
18/09/2021 03:30	65
18/09/2021 04:30	68
18/09/2021 05:30	63
18/09/2021 06:30	85
18/09/2021 07:30	66
Average	61
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
23/09/2021 07:53	63
23/09/2021 08:53	50
23/09/2021 09:53	102
23/09/2021 10:53	104
23/09/2021 11:53	115
23/09/2021 12:53	69
23/09/2021 13:53	47
23/09/2021 14:53	79
23/09/2021 15:53	57
23/09/2021 16:53	113
23/09/2021 17:53	82
23/09/2021 18:53	63
23/09/2021 19:53	104
23/09/2021 20:53	58
23/09/2021 21:53	57
23/09/2021 22:53	84
23/09/2021 23:53	82
24/09/2021 00:53	60
24/09/2021 01:53	96
24/09/2021 02:53	76
24/09/2021 03:53	98
24/09/2021 04:53	85
24/09/2021 05:53	44
24/09/2021 06:53	46
Average	76
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
29/09/2021 09:01	44
29/09/2021 10:01	47
29/09/2021 11:01	44
29/09/2021 12:01	46
29/09/2021 13:01	53
29/09/2021 14:01	41
29/09/2021 15:01	41
29/09/2021 16:01	43
29/09/2021 17:01	49
29/09/2021 18:01	59
29/09/2021 19:01	53
29/09/2021 20:01	44
29/09/2021 21:01	55
29/09/2021 22:01	53
29/09/2021 23:01	41
30/09/2021 00:01	43
30/09/2021 01:01	50
30/09/2021 02:01	50
30/09/2021 03:01	49
30/09/2021 04:01	44
30/09/2021 05:01	39
30/09/2021 06:01	40
30/09/2021 07:01	40
30/09/2021 08:01	43
Average	46
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)**

**AMS7A - Sheung Wo Che**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
05/10/2021 07:22	56
05/10/2021 08:22	29
05/10/2021 09:22	46
05/10/2021 10:22	56
05/10/2021 11:22	36
05/10/2021 12:22	56
05/10/2021 13:22	33
05/10/2021 14:22	48
05/10/2021 15:22	39
05/10/2021 16:22	53
05/10/2021 17:22	39
05/10/2021 18:22	54
05/10/2021 19:22	53
05/10/2021 20:22	53
05/10/2021 21:22	46
05/10/2021 22:22	56
05/10/2021 23:22	54
06/10/2021 00:22	45
06/10/2021 01:22	45
06/10/2021 02:22	34
06/10/2021 03:22	36
06/10/2021 04:22	34
06/10/2021 05:22	54
06/10/2021 06:22	40
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/10/2021 07:16	54
11/10/2021 08:16	34
11/10/2021 09:16	62
11/10/2021 10:16	34
11/10/2021 11:16	50
11/10/2021 12:16	65
11/10/2021 13:16	43
11/10/2021 14:16	67
11/10/2021 15:16	62
11/10/2021 16:16	57
11/10/2021 17:16	37
11/10/2021 18:16	43
11/10/2021 19:16	39
11/10/2021 20:16	36
11/10/2021 21:16	46
11/10/2021 22:16	62
11/10/2021 23:16	33
12/10/2021 00:16	33
12/10/2021 01:16	54
12/10/2021 02:16	36
12/10/2021 03:16	36
12/10/2021 04:16	39
12/10/2021 05:16	36
12/10/2021 06:16	43
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
16/10/2021 07:33	64
16/10/2021 08:33	50
16/10/2021 09:33	57
16/10/2021 10:33	64
16/10/2021 11:33	50
16/10/2021 12:33	54
16/10/2021 13:33	50
16/10/2021 14:33	56
16/10/2021 15:33	53
16/10/2021 16:33	64
16/10/2021 17:33	36
16/10/2021 18:33	50
16/10/2021 19:33	43
16/10/2021 20:33	36
16/10/2021 21:33	46
16/10/2021 22:33	33
16/10/2021 23:33	53
17/10/2021 00:33	39
17/10/2021 01:33	34
17/10/2021 02:33	42
17/10/2021 03:33	48
17/10/2021 04:33	62
17/10/2021 05:33	33
17/10/2021 06:33	43
Average	48
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
22/10/2021 08:54	26
22/10/2021 09:54	36
22/10/2021 10:54	37
22/10/2021 11:54	56
22/10/2021 12:54	51
22/10/2021 13:54	50
22/10/2021 14:54	54
22/10/2021 15:54	50
22/10/2021 16:54	51
22/10/2021 17:54	61
22/10/2021 18:54	57
22/10/2021 19:54	54
22/10/2021 20:54	57
22/10/2021 21:54	50
22/10/2021 22:54	28
22/10/2021 23:54	37
23/10/2021 00:54	37
23/10/2021 01:54	28
23/10/2021 02:54	25
23/10/2021 03:54	30
23/10/2021 04:54	34
23/10/2021 05:54	39
23/10/2021 06:54	42
23/10/2021 07:54	43
Average	43
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
28/10/2021 07:38	39
28/10/2021 08:38	57
28/10/2021 09:38	45
28/10/2021 10:38	34
28/10/2021 11:38	51
28/10/2021 12:38	34
28/10/2021 13:38	34
28/10/2021 14:38	51
28/10/2021 15:38	34
28/10/2021 16:38	60
28/10/2021 17:38	53
28/10/2021 18:38	56
28/10/2021 19:38	57
28/10/2021 20:38	42
28/10/2021 21:38	39
28/10/2021 22:38	48
28/10/2021 23:38	56
29/10/2021 00:38	51
29/10/2021 01:38	40
29/10/2021 02:38	43
29/10/2021 03:38	37
29/10/2021 04:38	42
29/10/2021 05:38	37
29/10/2021 06:38	59
Average	46
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)**

**AMS7A - Sheung Wo Che**

Date and Time	TSP Concentration (µg/m³)
03/11/2021 07:36	74
03/11/2021 08:36	51
03/11/2021 09:36	57
03/11/2021 10:36	66
03/11/2021 11:36	71
03/11/2021 12:36	85
03/11/2021 13:36	85
03/11/2021 14:36	77
03/11/2021 15:36	76
03/11/2021 16:36	94
03/11/2021 17:36	93
03/11/2021 18:36	76
03/11/2021 19:36	71
03/11/2021 20:36	65
03/11/2021 21:36	59
03/11/2021 22:36	64
03/11/2021 23:36	68
04/11/2021 00:36	60
04/11/2021 01:36	54
04/11/2021 02:36	62
04/11/2021 03:36	67
04/11/2021 04:36	57
04/11/2021 05:36	64
04/11/2021 06:36	70
Average	69
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
09/11/2021 08:22	53
09/11/2021 09:22	56
09/11/2021 10:22	61
09/11/2021 11:22	63
09/11/2021 12:22	66
09/11/2021 13:22	63
09/11/2021 14:22	60
09/11/2021 15:22	60
09/11/2021 16:22	61
09/11/2021 17:22	54
09/11/2021 18:22	56
09/11/2021 19:22	53
09/11/2021 20:22	47
09/11/2021 21:22	51
09/11/2021 22:22	8
09/11/2021 23:22	56
10/11/2021 00:22	54
10/11/2021 01:22	51
10/11/2021 02:22	45
10/11/2021 03:22	45
10/11/2021 04:22	51
10/11/2021 05:22	44
10/11/2021 06:22	50
10/11/2021 07:22	54
Average	53
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
15/11/2021 07:39	50
15/11/2021 08:39	50
15/11/2021 09:39	53
15/11/2021 10:39	53
15/11/2021 11:39	34
15/11/2021 12:39	51
15/11/2021 13:39	40
15/11/2021 14:39	53
15/11/2021 15:39	40
15/11/2021 16:39	40
15/11/2021 17:39	42
15/11/2021 18:39	53
15/11/2021 19:39	33
15/11/2021 20:39	51
15/11/2021 21:39	37
15/11/2021 22:39	50
15/11/2021 23:39	51
16/11/2021 00:39	36
16/11/2021 01:39	45
16/11/2021 02:39	34
16/11/2021 03:39	45
16/11/2021 04:39	33
16/11/2021 05:39	62
16/11/2021 06:39	53
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
20/11/2021 07:50	50
20/11/2021 08:50	51
20/11/2021 09:50	42
20/11/2021 10:50	48
20/11/2021 11:50	48
20/11/2021 12:50	36
20/11/2021 13:50	48
20/11/2021 14:50	42
20/11/2021 15:50	54
20/11/2021 16:50	37
20/11/2021 17:50	37
20/11/2021 18:50	40
20/11/2021 19:50	48
20/11/2021 20:50	48
20/11/2021 21:50	43
20/11/2021 22:50	37
20/11/2021 23:50	43
21/11/2021 00:50	39
21/11/2021 01:50	53
21/11/2021 02:50	40
21/11/2021 03:50	40
21/11/2021 04:50	45
21/11/2021 05:50	40
21/11/2021 06:50	51
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
26/11/2021 07:32	53
26/11/2021 08:32	48
26/11/2021 09:32	48
26/11/2021 10:32	54
26/11/2021 11:32	48
26/11/2021 12:32	50
26/11/2021 13:32	59
26/11/2021 14:32	57
26/11/2021 15:32	42
26/11/2021 16:32	43
26/11/2021 17:32	45
26/11/2021 18:32	54
26/11/2021 19:32	40
26/11/2021 20:32	37
26/11/2021 21:32	40
26/11/2021 22:32	53
26/11/2021 23:32	43
27/11/2021 00:32	34
27/11/2021 01:32	45
27/11/2021 02:32	50
27/11/2021 03:32	53
27/11/2021 04:32	54
27/11/2021 05:32	57
27/11/2021 06:32	57
Average	49
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 ( $\mu\text{g}/\text{m}^3$ )
02/08/2021 07:55	40
02/08/2021 08:55	49
02/08/2021 09:55	54
02/08/2021 10:55	50
02/08/2021 11:55	63
02/08/2021 12:55	60
02/08/2021 13:55	60
02/08/2021 14:55	66
02/08/2021 15:55	60
02/08/2021 16:55	55
02/08/2021 17:55	61
02/08/2021 18:55	60
02/08/2021 19:55	41
02/08/2021 20:55	69
02/08/2021 21:55	52
02/08/2021 22:55	61
02/08/2021 23:55	63
03/08/2021 00:55	58
03/08/2021 01:55	57
03/08/2021 02:55	50
03/08/2021 03:55	41
03/08/2021 04:55	40
03/08/2021 05:55	58
03/08/2021 06:55	55
Average	55
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
07/08/2021 07:45	60
07/08/2021 08:45	49
07/08/2021 09:45	44
07/08/2021 10:45	50
07/08/2021 11:45	43
07/08/2021 12:45	40
07/08/2021 13:45	55
07/08/2021 14:45	60
07/08/2021 15:45	35
07/08/2021 16:45	49
07/08/2021 17:45	47
07/08/2021 18:45	49
07/08/2021 19:45	37
07/08/2021 20:45	54
07/08/2021 21:45	38
07/08/2021 22:45	41
07/08/2021 23:45	40
08/08/2021 00:45	54
08/08/2021 01:45	34
08/08/2021 02:45	58
08/08/2021 03:45	38
08/08/2021 04:45	44
08/08/2021 05:45	32
08/08/2021 06:45	52
Average	46
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
13/08/2021 07:47	41
13/08/2021 08:47	38
13/08/2021 09:47	50
13/08/2021 10:47	43
13/08/2021 11:47	58
13/08/2021 12:47	55
13/08/2021 13:47	38
13/08/2021 14:47	63
13/08/2021 15:47	40
13/08/2021 16:47	55
13/08/2021 17:47	61
13/08/2021 18:47	46
13/08/2021 19:47	38
13/08/2021 20:47	44
13/08/2021 21:47	49
13/08/2021 22:47	54
13/08/2021 23:47	55
14/08/2021 00:47	38
14/08/2021 01:47	44
14/08/2021 02:47	49
14/08/2021 03:47	61
14/08/2021 04:47	49
14/08/2021 05:47	46
14/08/2021 06:47	50
Average	49
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
19/08/2021 07:39	40
19/08/2021 08:39	60
19/08/2021 09:39	57
19/08/2021 10:39	46
19/08/2021 11:39	61
19/08/2021 12:39	61
19/08/2021 13:39	38
19/08/2021 14:39	49
19/08/2021 15:39	35
19/08/2021 16:39	55
19/08/2021 17:39	37
19/08/2021 18:39	57
19/08/2021 19:39	34
19/08/2021 20:39	35
19/08/2021 21:39	47
19/08/2021 22:39	34
19/08/2021 23:39	35
20/08/2021 00:39	35
20/08/2021 01:39	46
20/08/2021 02:39	44
20/08/2021 03:39	44
20/08/2021 04:39	52
20/08/2021 05:39	54
20/08/2021 06:39	52
Average	46
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
25/08/2021 07:44	41
25/08/2021 08:44	58
25/08/2021 09:44	66
25/08/2021 10:44	67
25/08/2021 11:44	44
25/08/2021 12:44	55
25/08/2021 13:44	46
25/08/2021 14:44	50
25/08/2021 15:44	43
25/08/2021 16:44	60
25/08/2021 17:44	55
25/08/2021 18:44	40
25/08/2021 19:44	63
25/08/2021 20:44	46
25/08/2021 21:44	58
25/08/2021 22:44	41
25/08/2021 23:44	40
26/08/2021 00:44	54
26/08/2021 01:44	40
26/08/2021 02:44	54
26/08/2021 03:44	66
26/08/2021 04:44	52
26/08/2021 05:44	52
26/08/2021 06:44	55
Average	52
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
31/08/2021 07:56	35
31/08/2021 08:56	32
31/08/2021 09:56	32
31/08/2021 10:56	46
31/08/2021 11:56	43
31/08/2021 12:56	35
31/08/2021 13:56	49
31/08/2021 14:56	37
31/08/2021 15:56	43
31/08/2021 16:56	44
31/08/2021 17:56	49
31/08/2021 18:56	31
31/08/2021 19:56	49
31/08/2021 20:56	35
31/08/2021 21:56	49
31/08/2021 22:56	35
31/08/2021 23:56	32
01/09/2021 00:56	40
01/09/2021 01:56	31
01/09/2021 02:56	44
01/09/2021 03:56	46
01/09/2021 04:56	43
01/09/2021 05:56	44
01/09/2021 06:56	32
Average	40
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 12 - Fung Wo Estate**

Date and Time	TSP Concentration (µg/m³)
03/11/2021 07:48	57
03/11/2021 08:48	70
03/11/2021 09:48	53
03/11/2021 10:48	73
03/11/2021 11:48	78
03/11/2021 12:48	83
03/11/2021 13:48	81
03/11/2021 14:48	69
03/11/2021 15:48	75
03/11/2021 16:48	77
03/11/2021 17:48	70
03/11/2021 18:48	62
03/11/2021 19:48	56
03/11/2021 20:48	69
03/11/2021 21:48	72
03/11/2021 22:48	81
03/11/2021 23:48	86
04/11/2021 00:48	57
04/11/2021 01:48	62
04/11/2021 02:48	61
04/11/2021 03:48	73
04/11/2021 04:48	69
04/11/2021 05:48	70
04/11/2021 06:48	78
Average	70
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
09/11/2021 08:40	59
09/11/2021 09:40	59
09/11/2021 10:40	65
09/11/2021 11:40	68
09/11/2021 12:40	66
09/11/2021 13:40	63
09/11/2021 14:40	69
09/11/2021 15:40	65
09/11/2021 16:40	62
09/11/2021 17:40	65
09/11/2021 18:40	57
09/11/2021 19:40	60
09/11/2021 20:40	56
09/11/2021 21:40	51
09/11/2021 22:40	51
09/11/2021 23:40	49
10/11/2021 00:40	47
10/11/2021 01:40	50
10/11/2021 02:40	56
10/11/2021 03:40	51
10/11/2021 04:40	50
10/11/2021 05:40	47
10/11/2021 06:40	44
10/11/2021 07:40	53
Average	57
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
15/11/2021 07:56	57
15/11/2021 08:56	50
15/11/2021 09:56	62
15/11/2021 10:56	64
15/11/2021 11:56	59
15/11/2021 12:56	37
15/11/2021 13:56	50
15/11/2021 14:56	40
15/11/2021 15:56	48
15/11/2021 16:56	54
15/11/2021 17:56	37
15/11/2021 18:56	38
15/11/2021 19:56	51
15/11/2021 20:56	42
15/11/2021 21:56	53
15/11/2021 22:56	56
15/11/2021 23:56	43
16/11/2021 00:56	56
16/11/2021 01:56	43
16/11/2021 02:56	48
16/11/2021 03:56	56
16/11/2021 04:56	45
16/11/2021 05:56	62
16/11/2021 06:56	38
Average	50
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
20/11/2021 07:34	48
20/11/2021 08:34	37
20/11/2021 09:34	48
20/11/2021 10:34	50
20/11/2021 11:34	53
20/11/2021 12:34	35
20/11/2021 13:34	32
20/11/2021 14:34	40
20/11/2021 15:34	40
20/11/2021 16:34	43
20/11/2021 17:34	46
20/11/2021 18:34	35
20/11/2021 19:34	37
20/11/2021 20:34	30
20/11/2021 21:34	30
20/11/2021 22:34	32
20/11/2021 23:34	30
21/11/2021 00:34	54
21/11/2021 01:34	45
21/11/2021 02:34	37
21/11/2021 03:34	35
21/11/2021 04:34	46
21/11/2021 05:34	54
21/11/2021 06:34	30
Average	40
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
26/11/2021 07:47	54
26/11/2021 08:47	42
26/11/2021 09:47	32
26/11/2021 10:47	43
26/11/2021 11:47	53
26/11/2021 12:47	32
26/11/2021 13:47	59
26/11/2021 14:47	30
26/11/2021 15:47	40
26/11/2021 16:47	35
26/11/2021 17:47	38
26/11/2021 18:47	54
26/11/2021 19:47	32
26/11/2021 20:47	34
26/11/2021 21:47	59
26/11/2021 22:47	42
26/11/2021 23:47	32
27/11/2021 00:47	30
27/11/2021 01:47	56
27/11/2021 02:47	35
27/11/2021 03:47	48
27/11/2021 04:47	32
27/11/2021 05:47	57
27/11/2021 06:47	30
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)**

**AMS14 - Ha Wo Che**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
06/09/2021 07:43	62
06/09/2021 08:43	57
06/09/2021 09:43	84
06/09/2021 10:43	87
06/09/2021 11:43	89
06/09/2021 12:43	69
06/09/2021 13:43	77
06/09/2021 14:43	72
06/09/2021 15:43	87
06/09/2021 16:43	82
06/09/2021 17:43	79
06/09/2021 18:43	62
06/09/2021 19:43	69
06/09/2021 20:43	64
06/09/2021 21:43	62
06/09/2021 22:43	57
06/09/2021 23:43	87
07/09/2021 00:43	77
07/09/2021 01:43	89
07/09/2021 02:43	64
07/09/2021 03:43	72
07/09/2021 04:43	55
07/09/2021 05:43	64
07/09/2021 06:43	67
Average	72
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/09/2021 10:00	47
11/09/2021 11:00	49
11/09/2021 12:00	69
11/09/2021 13:00	69
11/09/2021 14:00	67
11/09/2021 15:00	54
11/09/2021 16:00	55
11/09/2021 17:00	55
11/09/2021 18:00	49
11/09/2021 19:00	67
11/09/2021 20:00	58
11/09/2021 21:00	69
11/09/2021 22:00	55
11/09/2021 23:00	58
12/09/2021 00:00	54
12/09/2021 01:00	66
12/09/2021 02:00	46
12/09/2021 03:00	64
12/09/2021 04:00	63
12/09/2021 05:00	60
12/09/2021 06:00	61
12/09/2021 07:00	67
12/09/2021 08:00	67
12/09/2021 09:00	60
Average	60
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
17/09/2021 09:07	40
17/09/2021 10:07	40
17/09/2021 11:07	44
17/09/2021 12:07	52
17/09/2021 13:07	51
17/09/2021 14:07	55
17/09/2021 15:07	80
17/09/2021 16:07	77
17/09/2021 17:07	75
17/09/2021 18:07	66
17/09/2021 19:07	67
17/09/2021 20:07	73
17/09/2021 21:07	70
17/09/2021 22:07	66
17/09/2021 23:07	63
18/09/2021 00:07	58
18/09/2021 01:07	58
18/09/2021 02:07	66
18/09/2021 03:07	60
18/09/2021 04:07	61
18/09/2021 05:07	55
18/09/2021 06:07	49
18/09/2021 07:07	51
18/09/2021 08:07	55
Average	60
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
23/09/2021 07:39	113
23/09/2021 08:39	58
23/09/2021 09:39	69
23/09/2021 10:39	116
23/09/2021 11:39	80
23/09/2021 12:39	61
23/09/2021 13:39	73
23/09/2021 14:39	84
23/09/2021 15:39	66
23/09/2021 16:39	101
23/09/2021 17:39	119
23/09/2021 18:39	115
23/09/2021 19:39	101
23/09/2021 20:39	116
23/09/2021 21:39	118
23/09/2021 22:39	92
23/09/2021 23:39	60
24/09/2021 00:39	58
24/09/2021 01:39	87
24/09/2021 02:39	89
24/09/2021 03:39	92
24/09/2021 04:39	107
24/09/2021 05:39	89
24/09/2021 06:39	63
Average	89
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
29/09/2021 09:11	32
29/09/2021 10:11	40
29/09/2021 11:11	38
29/09/2021 12:11	37
29/09/2021 13:11	37
29/09/2021 14:11	35
29/09/2021 15:11	43
29/09/2021 16:11	40
29/09/2021 17:11	64
29/09/2021 18:11	70
29/09/2021 19:11	61
29/09/2021 20:11	47
29/09/2021 21:11	55
29/09/2021 22:11	52
29/09/2021 23:11	51
30/09/2021 00:11	46
30/09/2021 01:11	40
30/09/2021 02:11	44
30/09/2021 03:11	51
30/09/2021 04:11	58
30/09/2021 05:11	46
30/09/2021 06:11	51
30/09/2021 07:11	52
30/09/2021 08:11	61
Average	48
Action Level	174
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)**

**AMS14 - Ha Wo Che**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
05/10/2021 07:41	42
05/10/2021 08:41	57
05/10/2021 09:41	56
05/10/2021 10:41	57
05/10/2021 11:41	48
05/10/2021 12:41	34
05/10/2021 13:41	37
05/10/2021 14:41	57
05/10/2021 15:41	53
05/10/2021 16:41	42
05/10/2021 17:41	51
05/10/2021 18:41	48
05/10/2021 19:41	53
05/10/2021 20:41	35
05/10/2021 21:41	32
05/10/2021 22:41	42
05/10/2021 23:41	46
06/10/2021 00:41	48
06/10/2021 01:41	54
06/10/2021 02:41	56
06/10/2021 03:41	37
06/10/2021 04:41	51
06/10/2021 05:41	32
06/10/2021 06:41	56
<b>Average</b>	<b>47</b>
<b>Action Level</b>	<b>174</b>
<b>Limit Level</b>	<b>260</b>

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/10/2021 07:32	62
11/10/2021 08:32	45
11/10/2021 09:32	48
11/10/2021 10:32	42
11/10/2021 11:32	46
11/10/2021 12:32	62
11/10/2021 13:32	64
11/10/2021 14:32	62
11/10/2021 15:32	42
11/10/2021 16:32	40
11/10/2021 17:32	42
11/10/2021 18:32	56
11/10/2021 19:32	53
11/10/2021 20:32	59
11/10/2021 21:32	54
11/10/2021 22:32	53
11/10/2021 23:32	40
12/10/2021 00:32	57
12/10/2021 01:32	64
12/10/2021 02:32	59
12/10/2021 03:32	62
12/10/2021 04:32	57
12/10/2021 05:32	56
12/10/2021 06:32	45
<b>Average</b>	<b>53</b>
<b>Action Level</b>	<b>174</b>
<b>Limit Level</b>	<b>260</b>

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
16/10/2021 07:49	53
16/10/2021 08:49	48
16/10/2021 09:49	57
16/10/2021 10:49	50
16/10/2021 11:49	48
16/10/2021 12:49	46
16/10/2021 13:49	45
16/10/2021 14:49	46
16/10/2021 15:49	35
16/10/2021 16:49	50
16/10/2021 17:49	53
16/10/2021 18:49	50
16/10/2021 19:49	57
16/10/2021 20:49	46
16/10/2021 21:49	56
16/10/2021 22:49	37
16/10/2021 23:49	35
17/10/2021 00:49	42
17/10/2021 01:49	30
17/10/2021 02:49	56
17/10/2021 03:49	34
17/10/2021 04:49	38
17/10/2021 05:49	35
17/10/2021 06:49	42
<b>Average</b>	<b>45</b>
<b>Action Level</b>	<b>174</b>
<b>Limit Level</b>	<b>260</b>

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
22/10/2021 09:16	38
22/10/2021 10:16	40
22/10/2021 11:16	45
22/10/2021 12:16	46
22/10/2021 13:16	58
22/10/2021 14:16	54
22/10/2021 15:16	62
22/10/2021 16:16	70
22/10/2021 17:16	67
22/10/2021 18:16	66
22/10/2021 19:16	64
22/10/2021 20:16	58
22/10/2021 21:16	50
22/10/2021 22:16	53
22/10/2021 23:16	51
23/10/2021 00:16	56
23/10/2021 01:16	58
23/10/2021 02:16	56
23/10/2021 03:16	46
23/10/2021 04:16	45
23/10/2021 05:16	42
23/10/2021 06:16	42
23/10/2021 07:16	37
23/10/2021 08:16	43
<b>Average</b>	<b>52</b>
<b>Action Level</b>	<b>174</b>
<b>Limit Level</b>	<b>260</b>

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
28/10/2021 07:52	42
28/10/2021 08:52	43
28/10/2021 09:52	56
28/10/2021 10:52	56
28/10/2021 11:52	45
28/10/2021 12:52	51
28/10/2021 13:52	53
28/10/2021 14:52	43
28/10/2021 15:52	42
28/10/2021 16:52	61
28/10/2021 17:52	64
28/10/2021 18:52	51
28/10/2021 19:52	57
28/10/2021 20:52	38
28/10/2021 21:52	56
28/10/2021 22:52	43
28/10/2021 23:52	38
29/10/2021 00:52	57
29/10/2021 01:52	39
29/10/2021 02:52	51
29/10/2021 03:52	43
29/10/2021 04:52	59
29/10/2021 05:52	46
29/10/2021 06:52	40
<b>Average</b>	<b>49</b>
<b>Action Level</b>	<b>174</b>
<b>Limit Level</b>	<b>260</b>

- 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 15 - Ha Wo Che**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
06/09/2021 07:57	38
06/09/2021 08:57	41
06/09/2021 09:57	58
06/09/2021 10:57	52
06/09/2021 11:57	63
06/09/2021 12:57	49
06/09/2021 13:57	44
06/09/2021 14:57	35
06/09/2021 15:57	54
06/09/2021 16:57	47
06/09/2021 17:57	57
06/09/2021 18:57	61
06/09/2021 19:57	66
06/09/2021 20:57	54
06/09/2021 21:57	47
06/09/2021 22:57	46
06/09/2021 23:57	39
07/09/2021 00:57	37
07/09/2021 01:57	32
07/09/2021 02:57	41
07/09/2021 03:57	38
07/09/2021 04:57	35
07/09/2021 05:57	49
07/09/2021 06:57	52
Average	47
Action Level	172
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
11/09/2021 10:10	89
11/09/2021 11:10	84
11/09/2021 12:10	89
11/09/2021 13:10	64
11/09/2021 14:10	77
11/09/2021 15:10	62
11/09/2021 16:10	77
11/09/2021 17:10	97
11/09/2021 18:10	62
11/09/2021 19:10	87
11/09/2021 20:10	89
11/09/2021 21:10	94
11/09/2021 22:10	82
11/09/2021 23:10	62
12/09/2021 00:10	64
12/09/2021 01:10	82
12/09/2021 02:10	79
12/09/2021 03:10	94
12/09/2021 04:10	84
12/09/2021 05:10	72
12/09/2021 06:10	82
12/09/2021 07:10	79
12/09/2021 08:10	64
12/09/2021 09:10	82
Average	79
Action Level	172
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
17/09/2021 09:36	65
17/09/2021 10:36	61
17/09/2021 11:36	61
17/09/2021 12:36	68
17/09/2021 13:36	57
17/09/2021 14:36	53
17/09/2021 15:36	70
17/09/2021 16:36	78
17/09/2021 17:36	80
17/09/2021 18:36	91
17/09/2021 19:36	87
17/09/2021 20:36	86
17/09/2021 21:36	82
17/09/2021 22:36	82
17/09/2021 23:36	72
18/09/2021 00:36	68
18/09/2021 01:36	59
18/09/2021 02:36	68
18/09/2021 03:36	57
18/09/2021 04:36	53
18/09/2021 05:36	55
18/09/2021 06:36	63
18/09/2021 07:36	76
18/09/2021 08:36	82
Average	70
Action Level	172
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
23/09/2021 07:16	102
23/09/2021 08:16	96
23/09/2021 09:16	84
23/09/2021 10:16	77
23/09/2021 11:16	73
23/09/2021 12:16	90
23/09/2021 13:16	86
23/09/2021 14:16	90
23/09/2021 15:16	58
23/09/2021 16:16	103
23/09/2021 17:16	87
23/09/2021 18:16	54
23/09/2021 19:16	64
23/09/2021 20:16	99
23/09/2021 21:16	93
23/09/2021 22:16	71
23/09/2021 23:16	79
24/09/2021 00:16	87
24/09/2021 01:16	93
24/09/2021 02:16	55
24/09/2021 03:16	50
24/09/2021 04:16	98
24/09/2021 05:16	64
24/09/2021 06:16	86
Average	81
Action Level	172
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
29/09/2021 09:34	34
29/09/2021 10:34	30
29/09/2021 11:34	42
29/09/2021 12:34	40
29/09/2021 13:34	46
29/09/2021 14:34	55
29/09/2021 15:34	55
29/09/2021 16:34	53
29/09/2021 17:34	61
29/09/2021 18:34	74
29/09/2021 19:34	72
29/09/2021 20:34	68
29/09/2021 21:34	67
29/09/2021 22:34	65
29/09/2021 23:34	65
30/09/2021 00:34	57
30/09/2021 01:34	49
30/09/2021 02:34	53
30/09/2021 03:34	55
30/09/2021 04:34	59
30/09/2021 05:34	65
30/09/2021 06:34	63
30/09/2021 07:34	69
30/09/2021 08:34	70
Average	57
Action Level	172
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 15 - Ha Wo Che**

Date and Time	TSP Concentration (µg/m³)
05/10/2021 07:55	56
05/10/2021 08:55	40
05/10/2021 09:55	44
05/10/2021 10:55	50
05/10/2021 11:55	40
05/10/2021 12:55	45
05/10/2021 13:55	42
05/10/2021 14:55	51
05/10/2021 15:55	62
05/10/2021 16:55	61
05/10/2021 17:55	40
05/10/2021 18:55	34
05/10/2021 19:55	36
05/10/2021 20:55	36
05/10/2021 21:55	61
05/10/2021 22:55	44
05/10/2021 23:55	47
06/10/2021 00:55	40
06/10/2021 01:55	50
06/10/2021 02:55	44
06/10/2021 03:55	37
06/10/2021 04:55	37
06/10/2021 05:55	37
06/10/2021 06:55	40
Average	45
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
11/10/2021 07:45	62
11/10/2021 08:45	39
11/10/2021 09:45	47
11/10/2021 10:45	48
11/10/2021 11:45	61
11/10/2021 12:45	53
11/10/2021 13:45	48
11/10/2021 14:45	34
11/10/2021 15:45	54
11/10/2021 16:45	34
11/10/2021 17:45	64
11/10/2021 18:45	65
11/10/2021 19:45	62
11/10/2021 20:45	40
11/10/2021 21:45	67
11/10/2021 22:45	45
11/10/2021 23:45	51
12/10/2021 00:45	56
12/10/2021 01:45	51
12/10/2021 02:45	36
12/10/2021 03:45	59
12/10/2021 04:45	61
12/10/2021 05:45	36
12/10/2021 06:45	44
Average	51
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
16/10/2021 08:02	54
16/10/2021 09:02	39
16/10/2021 10:02	53
16/10/2021 11:02	33
16/10/2021 12:02	42
16/10/2021 13:02	34
16/10/2021 14:02	37
16/10/2021 15:02	51
16/10/2021 16:02	56
16/10/2021 17:02	54
16/10/2021 18:02	45
16/10/2021 19:02	51
16/10/2021 20:02	51
16/10/2021 21:02	42
16/10/2021 22:02	44
16/10/2021 23:02	36
17/10/2021 00:02	59
17/10/2021 01:02	31
17/10/2021 02:02	39
17/10/2021 03:02	44
17/10/2021 04:02	51
17/10/2021 05:02	54
17/10/2021 06:02	61
17/10/2021 07:02	31
Average	46
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
22/10/2021 09:24	45
22/10/2021 10:24	50
22/10/2021 11:24	58
22/10/2021 12:24	64
22/10/2021 13:24	69
22/10/2021 14:24	66
22/10/2021 15:24	55
22/10/2021 16:24	48
22/10/2021 17:24	44
22/10/2021 18:24	42
22/10/2021 19:24	37
22/10/2021 20:24	39
22/10/2021 21:24	39
22/10/2021 22:24	44
22/10/2021 23:24	41
23/10/2021 00:24	33
23/10/2021 01:24	36
23/10/2021 02:24	34
23/10/2021 03:24	36
23/10/2021 04:24	41
23/10/2021 05:24	44
23/10/2021 06:24	39
23/10/2021 07:24	47
23/10/2021 08:24	37
Average	45
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
28/10/2021 08:03	57
28/10/2021 09:03	34
28/10/2021 10:03	56
28/10/2021 11:03	50
28/10/2021 12:03	36
28/10/2021 13:03	33
28/10/2021 14:03	44
28/10/2021 15:03	57
28/10/2021 16:03	42
28/10/2021 17:03	51
28/10/2021 18:03	57
28/10/2021 19:03	54
28/10/2021 20:03	40
28/10/2021 21:03	39
28/10/2021 22:03	48
28/10/2021 23:03	51
29/10/2021 00:03	57
29/10/2021 01:03	48
29/10/2021 02:03	36
29/10/2021 03:03	57
29/10/2021 04:03	44
29/10/2021 05:03	31
29/10/2021 06:03	47
29/10/2021 07:03	56
Average	47
Action Level	172
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 ( $\mu\text{g}/\text{m}^3$ )
02/08/2021 08:06	67
02/08/2021 09:06	50
02/08/2021 10:06	52
02/08/2021 11:06	50
02/08/2021 12:06	74
02/08/2021 13:06	72
02/08/2021 14:06	69
02/08/2021 15:06	79
02/08/2021 16:06	69
02/08/2021 17:06	67
02/08/2021 18:06	82
02/08/2021 19:06	64
02/08/2021 20:06	62
02/08/2021 21:06	64
02/08/2021 22:06	79
02/08/2021 23:06	69
03/08/2021 00:06	64
03/08/2021 01:06	64
03/08/2021 02:06	59
03/08/2021 03:06	74
03/08/2021 04:06	59
03/08/2021 05:06	62
03/08/2021 06:06	52
03/08/2021 07:06	57
Average	65
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
07/08/2021 07:58	69
07/08/2021 08:58	62
07/08/2021 09:58	50
07/08/2021 10:58	45
07/08/2021 11:58	77
07/08/2021 12:58	72
07/08/2021 13:58	74
07/08/2021 14:58	77
07/08/2021 15:58	77
07/08/2021 16:58	59
07/08/2021 17:58	62
07/08/2021 18:58	40
07/08/2021 19:58	67
07/08/2021 20:58	59
07/08/2021 21:58	67
07/08/2021 22:58	77
07/08/2021 23:58	50
08/08/2021 00:58	57
08/08/2021 01:58	69
08/08/2021 02:58	72
08/08/2021 03:58	64
08/08/2021 04:58	52
08/08/2021 05:58	72
08/08/2021 06:58	64
Average	64
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
13/08/2021 08:05	52
13/08/2021 09:05	52
13/08/2021 10:05	69
13/08/2021 11:05	77
13/08/2021 12:05	50
13/08/2021 13:05	87
13/08/2021 14:05	77
13/08/2021 15:05	67
13/08/2021 16:05	57
13/08/2021 17:05	57
13/08/2021 18:05	64
13/08/2021 19:05	69
13/08/2021 20:05	69
13/08/2021 21:05	79
13/08/2021 22:05	64
13/08/2021 23:05	77
14/08/2021 00:05	87
14/08/2021 01:05	55
14/08/2021 02:05	59
14/08/2021 03:05	64
14/08/2021 04:05	67
14/08/2021 05:05	84
14/08/2021 06:05	74
14/08/2021 07:05	47
Average	67
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
19/08/2021 07:58	67
19/08/2021 08:58	59
19/08/2021 09:58	69
19/08/2021 10:58	42
19/08/2021 11:58	45
19/08/2021 12:58	55
19/08/2021 13:58	50
19/08/2021 14:58	74
19/08/2021 15:58	72
19/08/2021 16:58	52
19/08/2021 17:58	72
19/08/2021 18:58	67
19/08/2021 19:58	59
19/08/2021 20:58	50
19/08/2021 21:58	77
19/08/2021 22:58	42
19/08/2021 23:58	47
20/08/2021 00:58	55
20/08/2021 01:58	52
20/08/2021 02:58	77
20/08/2021 03:58	69
20/08/2021 04:58	42
20/08/2021 05:58	42
20/08/2021 06:58	72
Average	59
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
25/08/2021 08:03	72
25/08/2021 09:03	64
25/08/2021 10:03	89
25/08/2021 11:03	55
25/08/2021 12:03	59
25/08/2021 13:03	97
25/08/2021 14:03	79
25/08/2021 15:03	74
25/08/2021 16:03	57
25/08/2021 17:03	72
25/08/2021 18:03	52
25/08/2021 19:03	69
25/08/2021 20:03	74
25/08/2021 21:03	59
25/08/2021 22:03	94
25/08/2021 23:03	72
26/08/2021 00:03	64
26/08/2021 01:03	64
26/08/2021 02:03	97
26/08/2021 03:03	74
26/08/2021 04:03	67
26/08/2021 05:03	74
26/08/2021 06:03	69
26/08/2021 07:03	69
Average	72
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
31/08/2021 08:10	42
31/08/2021 09:10	87
31/08/2021 10:10	64
31/08/2021 11:10	69
31/08/2021 12:10	47
31/08/2021 13:10	62
31/08/2021 14:10	59
31/08/2021 15:10	57
31/08/2021 16:10	79
31/08/2021 17:10	55
31/08/2021 18:10	77
31/08/2021 19:10	57
31/08/2021 20:10	67
31/08/2021 21:10	72
31/08/2021 22:10	59
31/08/2021 23:10	69
01/09/2021 00:10	84
01/09/2021 01:10	64
01/09/2021 02:10	47
01/09/2021 03:10	62
01/09/2021 04:10	67
01/09/2021 05:10	74
01/09/2021 06:10	59
01/09/2021 07:10	79
Average	65
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 17 - Wo Che Estate**

Date and Time	TSP Concentration (µg/m³)
03/11/2021 08:05	61
03/11/2021 09:05	54
03/11/2021 10:05	75
03/11/2021 11:05	51
03/11/2021 12:05	57
03/11/2021 13:05	67
03/11/2021 14:05	71
03/11/2021 15:05	73
03/11/2021 16:05	64
03/11/2021 17:05	61
03/11/2021 18:05	62
03/11/2021 19:05	54
03/11/2021 20:05	57
03/11/2021 21:05	62
03/11/2021 22:05	56
03/11/2021 23:05	61
04/11/2021 00:05	70
04/11/2021 01:05	64
04/11/2021 02:05	59
04/11/2021 03:05	56
04/11/2021 04:05	67
04/11/2021 05:05	68
04/11/2021 06:05	71
04/11/2021 07:05	65
Average	63
Action Level	171
Limit Level	260

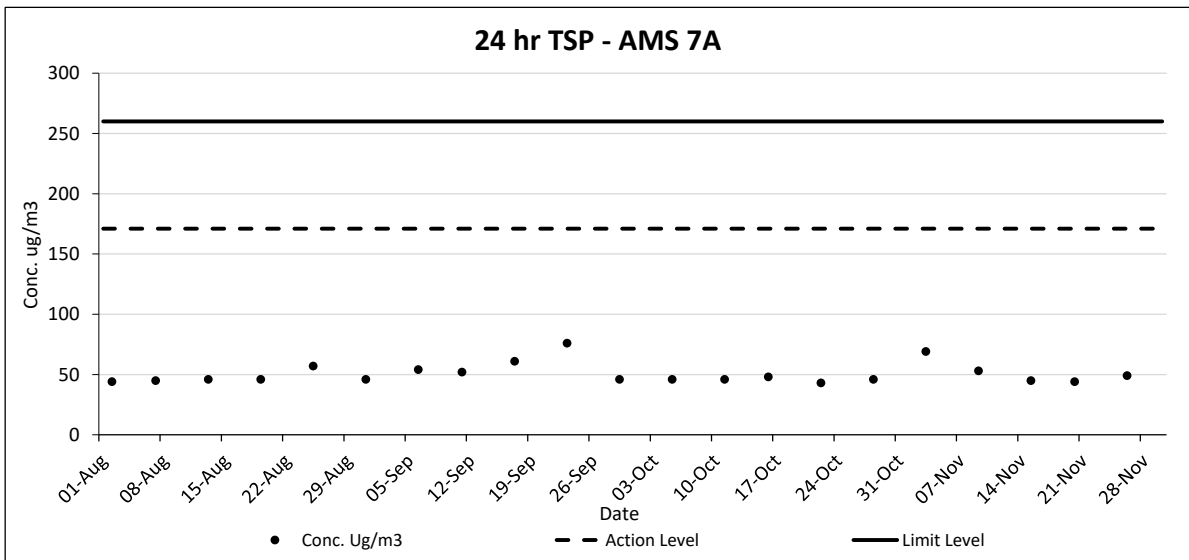
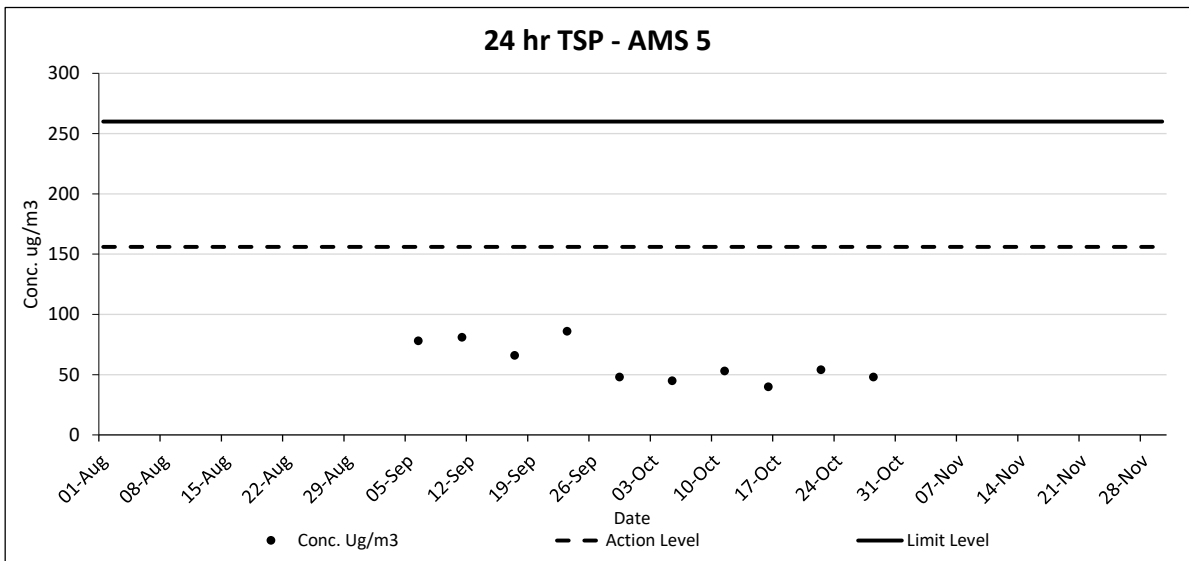
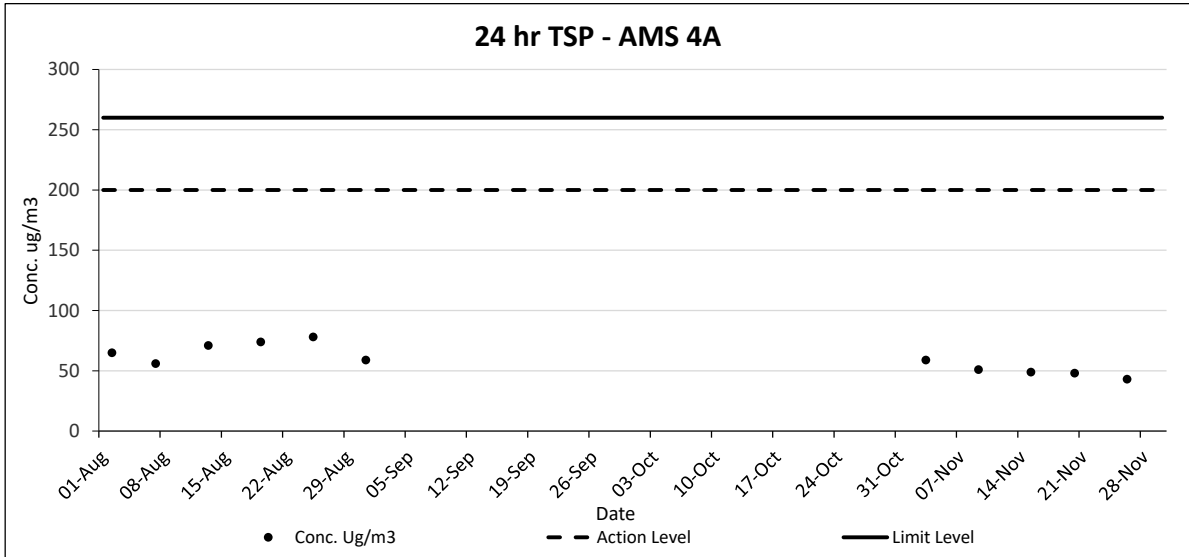
Date and Time	TSP Concentration (µg/m³)
09/11/2021 08:56	55
09/11/2021 09:56	51
09/11/2021 10:56	48
09/11/2021 11:56	48
09/11/2021 12:56	52
09/11/2021 13:56	51
09/11/2021 14:56	51
09/11/2021 15:56	55
09/11/2021 16:56	60
09/11/2021 17:56	65
09/11/2021 18:56	61
09/11/2021 19:56	57
09/11/2021 20:56	58
09/11/2021 21:56	51
09/11/2021 22:56	48
09/11/2021 23:56	41
10/11/2021 00:56	41
10/11/2021 01:56	44
10/11/2021 02:56	39
10/11/2021 03:56	45
10/11/2021 04:56	48
10/11/2021 05:56	45
10/11/2021 06:56	42
10/11/2021 07:56	49
Average	50
Action Level	171
Limit Level	260

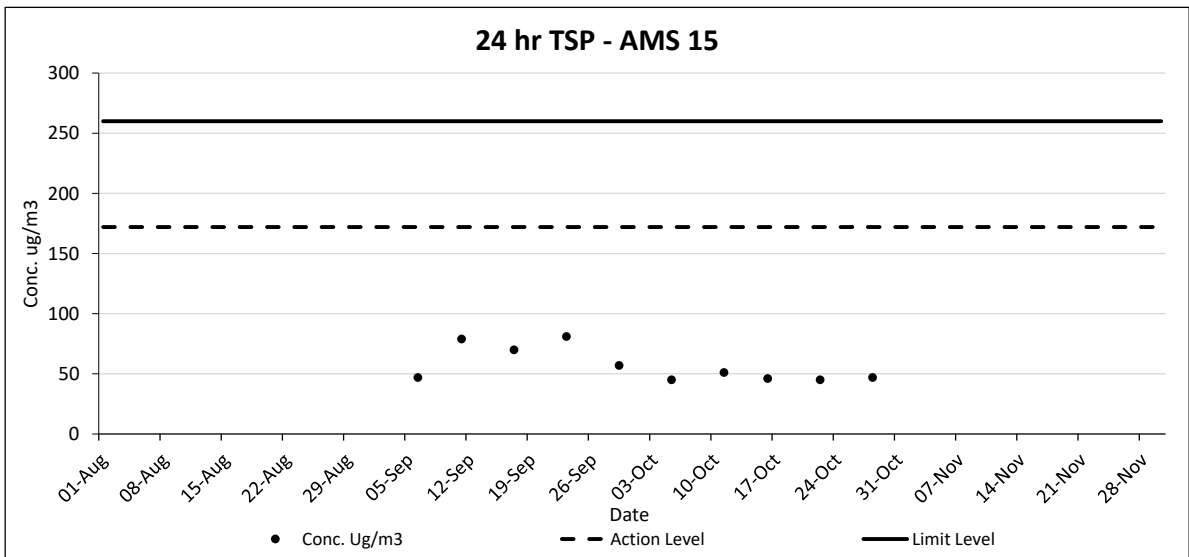
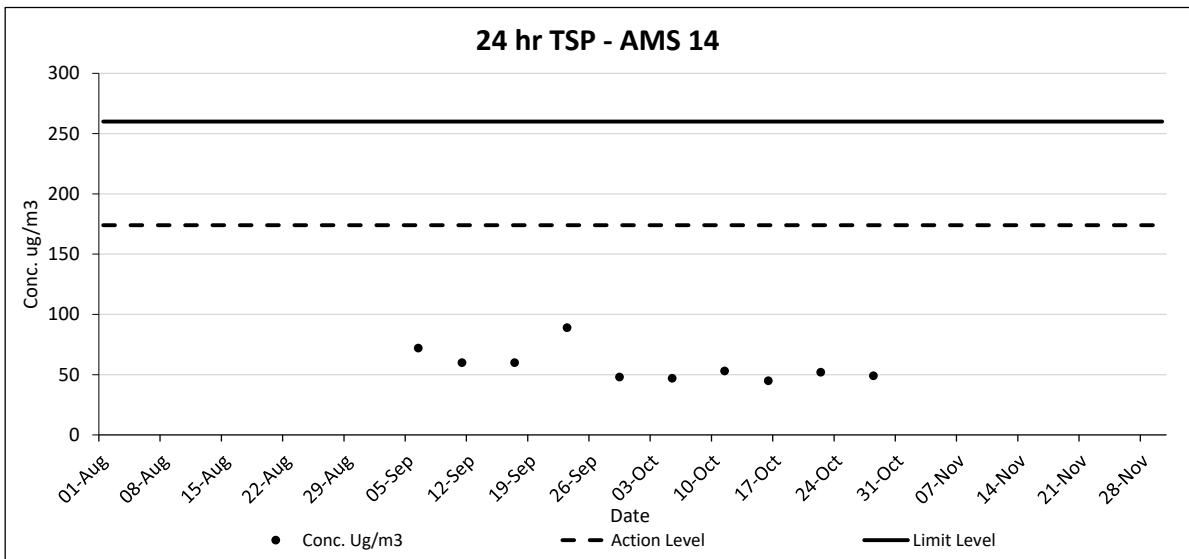
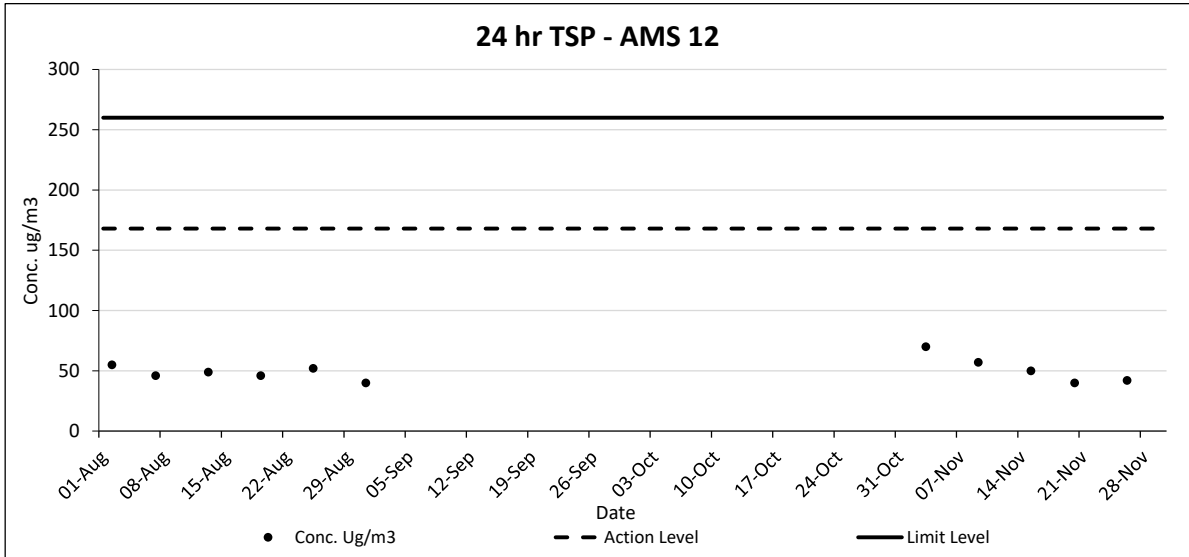
Date and Time	TSP Concentration (µg/m³)
15/11/2021 08:08	61
15/11/2021 09:08	54
15/11/2021 10:08	62
15/11/2021 11:08	59
15/11/2021 12:08	47
15/11/2021 13:08	67
15/11/2021 14:08	57
15/11/2021 15:08	64
15/11/2021 16:08	56
15/11/2021 17:08	53
15/11/2021 18:08	54
15/11/2021 19:08	67
15/11/2021 20:08	45
15/11/2021 21:08	53
15/11/2021 22:08	61
15/11/2021 23:08	59
16/11/2021 00:08	65
16/11/2021 01:08	59
16/11/2021 02:08	42
16/11/2021 03:08	36
16/11/2021 04:08	64
16/11/2021 05:08	54
16/11/2021 06:08	51
16/11/2021 07:08	65
Average	56
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
20/11/2021 07:19	40
20/11/2021 08:19	62
20/11/2021 09:19	56
20/11/2021 10:19	57
20/11/2021 11:19	37
20/11/2021 12:19	53
20/11/2021 13:19	34
20/11/2021 14:19	37
20/11/2021 15:19	48
20/11/2021 16:19	59
20/11/2021 17:19	53
20/11/2021 18:19	34
20/11/2021 19:19	51
20/11/2021 20:19	53
20/11/2021 21:19	47
20/11/2021 22:19	39
20/11/2021 23:19	36
21/11/2021 00:19	39
21/11/2021 01:19	64
21/11/2021 02:19	56
21/11/2021 03:19	44
21/11/2021 04:19	54
21/11/2021 05:19	51
21/11/2021 06:19	40
Average	48
Action Level	171
Limit Level	260

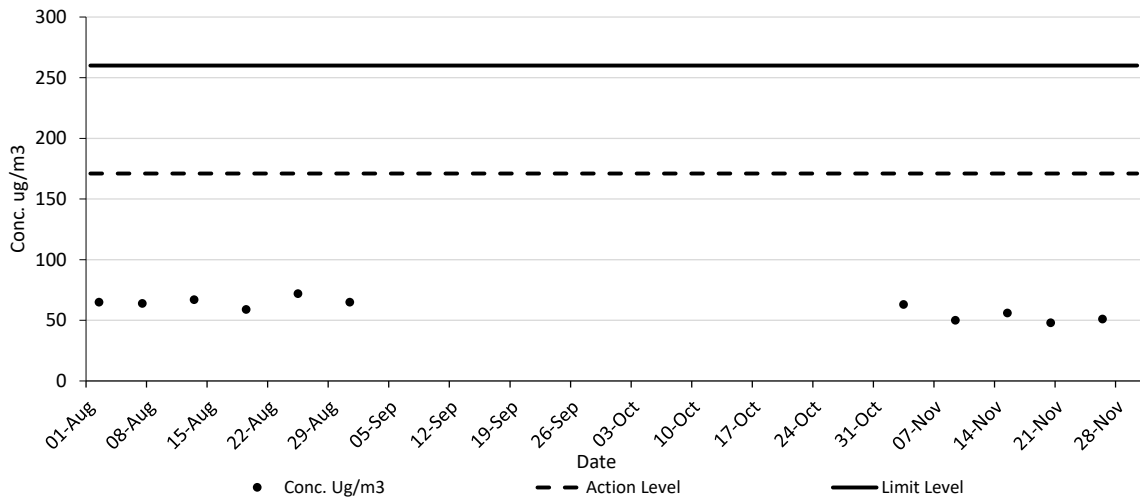
Date and Time	TSP Concentration (µg/m³)
26/11/2021 08:02	34
26/11/2021 09:02	59
26/11/2021 10:02	57
26/11/2021 11:02	48
26/11/2021 12:02	37
26/11/2021 13:02	61
26/11/2021 14:02	59
26/11/2021 15:02	61
26/11/2021 16:02	47
26/11/2021 17:02	44
26/11/2021 18:02	61
26/11/2021 19:02	36
26/11/2021 20:02	57
26/11/2021 21:02	61
26/11/2021 22:02	56
26/11/2021 23:02	50
27/11/2021 00:02	51
27/11/2021 01:02	44
27/11/2021 02:02	56
27/11/2021 03:02	62
27/11/2021 04:02	45
27/11/2021 05:02	56
27/11/2021 06:02	48
27/11/2021 07:02	39
Average	51
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 hr TSP - AMS 17



## 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-21	11:40	68.4	64.5	70.0	75	68.4	Sunny	0.3
13-Aug-21	11:32	67.3	63.0	68.5		67.3	Fine	0.3
19-Aug-21	13:55	66.0	63.5	69.5		66.0	Fine	0.4
25-Aug-21	13:06	66.8	63.5	68.5		66.8	Sunny	0.5
31-Aug-21	13:48	65.9	61.0	68.5		65.9	Overcast	0.3
06-Sep-21	16:19	67.0	64.5	68.5		67.0	Fine	0.5
17-Sep-21	13:06	66.5	64.0	68.0		66.5	Sunny	0.8
23-Sep-21	17:25	64.5	62.0	66.5		64.5	Overcast	0.5
29-Sep-21	09:09	63.6	61.5	65.5		63.6	Fine	0.9
05-Oct-21	13:00	65.2	63.0	66.5		65.2	Fine	0.5
11-Oct-21	11:17	66.1	63.5	68.5		66.1	Fine	0.6
22-Oct-21	13:22	67.3	64.5	69.0		67.3	Fine	0.5
28-Oct-21	16:59	63.9	61.5	65.0		63.9	Fine	0.4
03-Nov-21	08:37	62.9	60.0	64.0		62.9	Sunny	0.6
09-Nov-21	08:31	64.6	63.0	65.0		64.6	Fine	0.9
15-Nov-21	08:12	63.2	61.5	64.5		63.2	Fine	0.4
26-Nov-21	08:35	63.8	61.5	65.0	63.8	Sunny	0.6	

### 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-21	08:39	54.6	52.0	55.0	75	54.6	Sunny	0.5
13-Aug-21	08:33	53.9	51.0	55.0		53.9	Fine	0.7
19-Aug-21	08:27	54.3	52.0	55.5		54.3	Fine	0.6
25-Aug-21	08:45	55.0	53.0	56.0		55.0	Sunny	0.2
31-Aug-21	08:54	54.0	51.5	55.0		54.0	Overcast	1.1
06-Sep-21	08:42	54.7	53.0	55.5		54.7	Fine	0.8
17-Sep-21	08:29	53.9	51.5	55.0		53.9	Sunny	0.4
23-Sep-21	10:34	54.0	52.0	55.0		54.0	Overcast	1.2
29-Sep-21	09:48	54.9	52.0	56.0		54.9	Fine	0.8
05-Oct-21	08:31	54.2	51.5	56.0		54.2	Fine	0.7
11-Oct-21	08:20	53.3	51.0	55.0		53.3	Fine	0.8
22-Oct-21	08:32	53.7	51.5	54.5		53.7	Fine	1.1
28-Oct-21	08:30	53.4	52.0	54.5		53.4	Fine	0.8
03-Nov-21	09:25	51.6	49.5	52.5		51.6	Sunny	1.2
09-Nov-21	09:20	54.4	51.5	56.0		54.4	Fine	0.9
15-Nov-21	10:09	51.7	50.0	53.0		51.7	Fine	0.3
26-Nov-21	09:20	53.0	51.5	54.0	53.0	Sunny	0.7	

### 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-21	10:32	66.6	65.0	67.5	75	66.6	Sunny	0.8
13-Aug-21	10:25	68.2	64.0	69.0		68.2	Fine	1.1
19-Aug-21	14:38	68.1	64.5	69.0		68.1	Fine	1.2
25-Aug-21	10:38	68.4	65.5	70.5		68.4	Sunny	1.0
31-Aug-21	11:03	68.6	63.5	69.5		68.6	Overcast	0.8
06-Sep-21	15:44	66.0	63.5	67.5		66.0	Fine	0.8
17-Sep-21	11:06	65.6	63.5	67.0		65.6	Sunny	0.9
23-Sep-21	09:52	68.6	66.5	70.5		68.6	Overcast	1.0
29-Sep-21	08:30	68.7	64.0	71.0		68.7	Fine	0.9
05-Oct-21	10:30	68.0	65.0	70.0		68.0	Fine	1.3
11-Oct-21	10:06	67.9	65.0	70.0		67.9	Fine	1.1
22-Oct-21	10:19	67.9	64.5	69.0		67.9	Fine	0.6
28-Oct-21	16:18	68.2	65.5	69.5		68.2	Fine	0.9
03-Nov-21	11:16	67.7	66.0	68.5		67.7	Sunny	0.8
09-Nov-21	09:57	67.9	65.5	69.5		67.9	Fine	1.2
15-Nov-21	08:50	68.2	65.0	69.5		68.2	Fine	0.9
26-Nov-21	09:57	67.8	64.0	68.5	67.8	Sunny	1.1	

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

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

**NMS 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-21	09:17	64.7	62.5	66.0	75	64.7	Sunny	0.2
13-Aug-21	09:14	64.0	62.0	65.5		64.0	Fine	0.4
19-Aug-21	09:03	65.4	63.5	66.5		65.4	Fine	0.6
25-Aug-21	09:26	63.8	60.0	65.0		63.8	Sunny	0.7
31-Aug-21	09:46	67.1	62.5	68.0		67.1	Overcast	0.3
06-Sep-21	09:26	64.7	63.0	66.0		64.7	Fine	0.5
17-Sep-21	09:04	63.4	61.0	65.5		63.4	Sunny	0.6
23-Sep-21	11:12	65.5	63.0	67.5		65.5	Overcast	0.5
29-Sep-21	11:33	65.6	61.5	67.0		65.6	Fine	0.6
05-Oct-21	09:14	65.5	62.0	66.5		65.5	Fine	0.9
11-Oct-21	08:48	64.8	62.5	66.0		64.8	Fine	0.9
22-Oct-21	09:09	65.0	62.5	67.0		65.0	Fine	1.0
28-Oct-21	09:08	64.8	62.0	66.0		64.8	Fine	0.6
03-Nov-21	10:06	66.2	61.5	68.5		66.2	Sunny	0.4
09-Nov-21	13:04	66.2	64.0	67.5		66.2	Fine	0.6
15-Nov-21	10:47	64.6	62.0	65.5		64.6	Fine	0.8
26-Nov-21	13:08	64.0	62.0	66.5		64.0	Sunny	0.4

**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-21	11:05	69.5	67.0	70.5	75	69.5	Sunny	0.4
13-Aug-21	11:00	68.7	66.5	70.5		68.7	Fine	1.0
19-Aug-21	15:11	71.3	66.0	74.0		71.3	Fine	0.6
25-Aug-21	11:20	69.5	66.0	71.0		69.5	Sunny	1.2
31-Aug-21	11:37	70.6	67.5	71.5		70.6	Overcast	0.5
06-Sep-21	15:10	71.8	69.5	73.0		71.8	Fine	0.8
17-Sep-21	10:32	70.0	67.0	72.0		70.0	Sunny	0.5
23-Sep-21	09:18	69.1	67.0	70.5		69.1	Overcast	1.2
29-Sep-21	10:24	71.3	67.0	73.5		71.3	Fine	0.9
05-Oct-21	11:04	70.0	67.0	72.0		70.0	Fine	0.8
11-Oct-21	10:39	69.5	68.0	70.5		69.5	Fine	1.0
22-Oct-21	10:53	69.3	67.0	70.5		69.3	Fine	0.8
28-Oct-21	15:44	69.5	66.0	71.0		69.5	Fine	0.8
03-Nov-21	13:05	70.5	67.5	72.0		70.5	Sunny	0.5
09-Nov-21	10:32	71.0	68.0	73.0		71	Fine	1.4
15-Nov-21	09:24	69.7	66.5	71.0		69.7	Fine	0.7
26-Nov-21	10:34	69.0	67.0	70.5		69	Sunny	0.8

**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-21	13:03	70.8	68.0	72.5	75	70.8	Sunny	1.0
13-Aug-21	13:08	71.6	69.0	73.0		71.6	Fine	0.8
19-Aug-21	15:47	70.0	67.5	72.5		70.0	Fine	1.1
25-Aug-21	13:58	70.3	67.5	72.0		70.3	Sunny	0.9
31-Aug-21	13:00	71.0	68.0	73.0		71.0	Overcast	1.3
06-Sep-21	14:32	73.9	72.5	75.0		73.9	Fine	1.0
17-Sep-21	11:38	73.2	71.5	74.5		73.2	Sunny	0.8
23-Sep-21	08:40	74.0	72.5	75.5		74.0	Overcast	0.8
29-Sep-21	10:58	72.9	67.5	75.0		72.9	Fine	1.2
05-Oct-21	13:40	72.8	69.5	74.0		72.8	Fine	1.1
11-Oct-21	13:09	73.3	70.5	75.5		73.3	Fine	1.6
22-Oct-21	11:29	72.2	69.5	73.5		72.2	Fine	1.2
28-Oct-21	15:08	71.3	67.0	74.5		71.3	Fine	1.0
03-Nov-21	13:42	73.4	71.5	75.5		73.4	Sunny	1.0
09-Nov-21	11:07	70.6	66.5	71.5		70.6	Fine	0.9
15-Nov-21	13:04	71.2	70.0	72.5		71.2	Fine	1.1
26-Nov-21	11:10	72.4	70.5	73.5		72.4	Sunny	0.9

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

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



**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-21	09:58	65.0	63.5	67.5	75	65.0	Sunny	0.5
13-Aug-21	09:47	64.4	62.0	66.0		64.4	Fine	0.7
19-Aug-21	09:49	64.5	62.0	65.5		64.5	Fine	0.7
25-Aug-21	09:59	64.2	61.5	66.0		64.2	Sunny	0.6
31-Aug-21	10:25	66.5	63.5	67.5		66.5	Overcast	0.7
06-Sep-21	09:59	64.4	62.5	66.5		64.4	Fine	0.6
17-Sep-21	09:47	63.3	61.0	64.5		63.3	Sunny	0.6
23-Sep-21	13:00	64.3	62.0	66.5		64.3	Overcast	0.9
29-Sep-21	13:00	68.9	66.3	71.0		68.9	Fine	0.8
05-Oct-21	09:48	65.3	62.5	66.5		65.3	Fine	0.7
11-Oct-21	09:30	64.6	62.0	67.0		64.6	Fine	0.5
22-Oct-21	09:43	64.4	63.0	66.0		64.4	Fine	1.1
28-Oct-21	09:42	64.7	62.5	67.0		64.7	Fine	1.0
03-Nov-21	10:40	64.6	61.0	67.0		64.6	Sunny	0.4
09-Nov-21	13:38	64.5	63.0	65.5		64.5	Fine	0.7
15-Nov-21	11:30	64.5	61.5	65.5		64.5	Fine	0.8
26-Nov-21	13:46	63.6	61.5	65.0		63.6	Sunny	0.4

**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-21	08:36	65.3	63.0	67.5	75	65.3	Sunny	0.8
14-Aug-21	08:41	64.2	62.5	66.0		64.2	Fine	0.4
20-Aug-21	08:19	65.0	62.0	66.5		65.0	Sunny	1.1
26-Aug-21	08:35	65.2	62.0	66.5		65.2	Sunny	0.4
30-Aug-21	08:46	65.5	63.5	67.0		65.5	Overcast	0.7
07-Sep-21	16:04	67.7	66.5	68.5		67.7	Fine	0.6
18-Sep-21	08:40	64.5	61.5	66.5		64.5	Fine	1.1
24-Sep-21	08:37	64.7	62.5	66.0		64.7	Fine	0.7
30-Sep-21	08:41	65.2	63.0	67.0		65.2	Fine	0.9
06-Oct-21	08:43	65.4	63.0	66.5		65.4	Fine	1.3
12-Oct-21	15:30	66.4	65.0	67.5		66.4	Fine	1.5
23-Oct-21	08:20	69.7	66.5	72.0		69.7	Fine	0.7
29-Oct-21	15:57	67.8	66.5	69.0		67.8	Fine	0.8
04-Nov-21	15:59	67.4	66.0	68.5		67.4	Fine	0.9
10-Nov-21	09:13	58.7	53.5	61.0		58.7	Fine	0.3
16-Nov-21	08:04	65.6	63.0	66.5		65.6	Fine	1.2
27-Nov-21	08:26	64.6	61.5	66.0		64.6	Sunny	0.8

**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-21	09:47	69.0	61.5	70.0	75	69.0	Sunny	0.4
14-Aug-21	09:56	67.0	60.0	69.0		67.0	Fine	1.2
20-Aug-21	09:29	66.3	60.0	67.5		66.3	Sunny	0.5
26-Aug-21	09:52	64.5	59.5	66.0		64.5	Sunny	0.8
30-Aug-21	09:59	67.7	59.5	69.5		67.7	Overcast	0.5
07-Sep-21	15:26	62.5	60.5	64.0		62.5	Fine	0.4
18-Sep-21	09:57	61.8	58.0	63.0		61.8	Fine	0.7
24-Sep-21	09:53	65.9	61.5	68.0		65.9	Fine	0.5
30-Sep-21	10:02	63.5	59.5	66.0		63.5	Fine	1.1
06-Oct-21	10:05	67.3	63.5	69.0		67.3	Fine	0.8
12-Oct-21	07:55	69.8	65.0	71.5		69.8	Fine	1.1
23-Oct-21	09:44	70.3	66.5	74.0		70.3	Fine	1.1
29-Oct-21	14:09	66.0	63.0	67.0		66.0	Fine	0.5
04-Nov-21	15:22	67.4	65.0	69.5		67.4	Fine	1.2
10-Nov-21	10:25	61.6	55.5	63.5		61.6	Fine	0.2
16-Nov-21	09:18	63.4	60.0	65.5		63.4	Fine	0.5
27-Nov-21	09:39	65.9	60.5	68.0		65.9	Sunny	0.4

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

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

### 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-21	10:22	63.3	59.0	64.5	70	63.3	Sunny	1.1
14-Aug-21	10:33	64.9	60.5	65.5		64.9	Fine	0.2
20-Aug-21	10:07	63.8	60.0	64.5		63.8	Sunny	1.0
26-Aug-21	10:33	63.8	61.5	65.0		63.8	Sunny	1.2
30-Aug-21	10:40	62.2	60.5	64.0		62.2	Overcast	0.8
07-Sep-21	14:13	62.6	59.0	64.0		62.6	Fine	0.7
18-Sep-21	10:39	63.5	59.0	64.5		63.5	Fine	1.1
24-Sep-21	10:31	62.3	57.5	64.0		62.3	Fine	1.2
30-Sep-21	10:39	63.4	60.0	65.5		63.4	Fine	1.0
06-Oct-21	10:40	63.6	60.5	66.0		63.6	Fine	0.7
12-Oct-21	08:30	64.0	61.0	66.0		64.0	Fine	1.0
23-Oct-21	10:22	62.6	60.5	64.0		62.6	Fine	0.7
29-Oct-21	13:02	65.4	61.5	66.0		65.4	Fine	0.8
04-Nov-21	14:48	67.7	66.0	68.5		67.7	Fine	0.9
10-Nov-21	11:03	62.2	57.5	64.5		62.2	Fine	0.2
16-Nov-21	09:56	64.6	61.5	66.0		64.6	Fine	1.0
27-Nov-21	10:20	64.4	62.0	66.0		64.4	Sunny	1.0

For Shatin Tsung Tsin School, 70 dB(A) noise level is set for school for normal days. The examination period was 17-19, 22-23 November 2021. Hence, the daytime noise level changed from 70 to 65 dB(A).

### 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-21	09:30	56.4	52.0	57.0	75	56.4	Sunny	0.6
14-Aug-21	09:22	56.3	52.0	57.0		56.3	Fine	1.0
20-Aug-21	16:10	58.1	52.0	59.5		58.1	Sunny	0.6
26-Aug-21	11:17	55.9	52.0	58.0		55.9	Sunny	0.4
30-Aug-21	09:28	57.9	54.0	59.5		57.9	Overcast	0.9
07-Sep-21	09:04	57.1	53.5	59.5		57.1	Fine	0.6
18-Sep-21	09:33	56.5	54.0	58.0		56.5	Fine	0.5
24-Sep-21	09:17	56.4	54.5	58.0		56.4	Fine	0.4
30-Sep-21	17:00	57.9	55.5	59.0		57.9	Fine	0.6
06-Oct-21	16:57	61.5	58.5	63.0		61.5	Fine	0.7
12-Oct-21	14:16	60.0	56.5	61.0		60.0	Fine	1.0
23-Oct-21	16:16	62.2	60.0	64.5		62.2	Fine	0.7
29-Oct-21	11:08	64.6	61.5	66.5		64.6	Fine	0.7
04-Nov-21	13:02	55.5	52.5	58.5		55.5	Fine	1.0
10-Nov-21	14:58	59.8	53.5	63.0		59.8	Fine	0.3
16-Nov-21	16:16	61.4	59.0	62.5		61.4	Fine	0.8
27-Nov-21	09:03	60.6	58.0	61.5		60.6	Sunny	0.5

### 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-21	10:59	64.0	62.0	66.0	70	64.0	Sunny	1.2
14-Aug-21	11:08	64.8	63.0	66.0		64.8	Fine	0.8
20-Aug-21	10:42	63.0	61.0	65.5		63.0	Sunny	0.8
26-Aug-21	11:16	62.5	59.5	63.5		62.5	Sunny	1.1
30-Aug-21	11:17	62.9	60.0	64.0		62.9	Overcast	0.8
07-Sep-21	14:48	64.3	61.5	66.5		64.3	Fine	0.7
18-Sep-21	11:20	64.3	60.5	65.5		64.3	Fine	0.9
24-Sep-21	11:15	63.6	60.0	65.0		63.6	Fine	1.1
30-Sep-21	11:25	63.9	60.5	65.0		63.9	Fine	1.2
06-Oct-21	11:16	64.8	62.0	66.5		64.8	Fine	1.1
12-Oct-21	09:03	63.1	60.0	65.0		63.1	Fine	1.3
23-Oct-21	11:00	63.4	61.0	66.0		63.4	Fine	0.7
29-Oct-21	13:35	63.2	61.0	65.0		63.2	Fine	0.9
04-Nov-21	14:13	63.8	61.5	65.5	63.8	Fine	0.8	
10-Nov-21	13:01	63.1	58.0	65.0	63.1	Fine	0.4	
16-Nov-21	10:35	62.0	60.0	63.5	62.0	Fine	1.3	
27-Nov-21	10:57	60.1	58.0	61.5	60.1	Sunny	0.6	

For SKH Holy Spirit Primary School, 70 dB(A) noise level is set for school for normal days. The examination period began on 26<sup>th</sup> to 29<sup>th</sup> October 2021. Hence, the daytime noise level changed from 70 to 65 dB(A).

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

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

**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-21	11:34	59.9	56.0	61.5	75	59.9	Sunny	0.5
14-Aug-21	11:43	59.5	57.0	61.0		59.5	Fine	0.5
20-Aug-21	11:27	60.7	58.5	62.0		60.7	Sunny	0.6
26-Aug-21	13:10	59.3	56.0	61.5		59.3	Sunny	0.5
30-Aug-21	13:10	60.0	56.5	64.0		60.0	Overcast	0.3
07-Sep-21	13:38	61.0	58.5	62.5		61.0	Fine	0.8
18-Sep-21	13:05	59.9	56.5	61.0		59.9	Fine	0.6
24-Sep-21	13:03	60.4	57.5	62.5		60.4	Fine	0.8
30-Sep-21	13:00	62.2	59.0	63.0		62.2	Fine	0.8
06-Oct-21	13:07	59.0	55.5	61.0		59.0	Fine	0.6
12-Oct-21	09:40	60.9	57.0	63.5		60.9	Fine	0.7
23-Oct-21	11:38	66.8	63.5	68.0		66.8	Fine	0.6
29-Oct-21	11:43	61.5	59.5	63.0		61.5	Fine	0.9
04-Nov-21	10:46	63.2	60.0	65.5		63.2	Fine	0.9
10-Nov-21	13:38	58.3	54.0	60.5		58.3	Fine	0.2
16-Nov-21	11:12	61.4	58.5	63.5		61.4	Fine	0.6
27-Nov-21	11:32	59.0	57.0	60.5		59.0	Sunny	0.3

**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-21	10:06	63.0	61.0	64.0	75	63.0	Sunny	0.6
14-Aug-21	09:58	62.9	60.5	64.5		62.9	Fine	0.9
20-Aug-21	15:32	62.2	61.0	63.5		62.2	Sunny	0.7
26-Aug-21	10:40	64.1	60.0	66.0		64.1	Sunny	0.5
30-Aug-21	10:07	62.3	60.0	63.6		62.3	Overcast	0.6
07-Sep-21	09:38	61.8	59.0	64.0		61.8	Fine	0.5
18-Sep-21	10:15	64.8	60.5	65.5		64.8	Fine	0.8
24-Sep-21	09:59	63.8	61.0	65.5		63.8	Fine	0.4
30-Sep-21	16:19	62.5	59.5	64.0		62.5	Fine	0.8
06-Oct-21	16:18	63.0	59.5	65.0		63.0	Fine	1.0
12-Oct-21	13:39	61.6	58.0	62.5		61.6	Fine	1.0
23-Oct-21	15:40	64.0	61.0	66.3		64.0	Fine	0.6
29-Oct-21	10:35	63.4	61.0	65.0		63.4	Fine	0.7
04-Nov-21	11:20	62.7	60.5	65.5		62.7	Fine	1.4
10-Nov-21	14:19	57.8	52.5	61.5		57.8	Fine	0.3
16-Nov-21	15:37	60.6	57.5	62.0		60.6	Fine	0.6
27-Nov-21	09:43	61.8	59.5	63.0		61.8	Sunny	0.5

**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-21	09:29	59.2	56.5	61.5	75	59.2	Sunny	0.5
13-Aug-21	10:14	59.2	56.0	62.0		59.2	Fine	0.3
19-Aug-21	11:05	61.8	56.0	63.5		61.8	Fine	0.8
25-Aug-21	09:30	58.0	56.0	60.0		58.0	Sunny	1.1
31-Aug-21	10:45	61.5	59.5	63.0		61.5	Overcast	0.9
06-Sep-21	11:16	58.6	56.0	60.5		58.6	Fine	0.8
17-Sep-21	09:17	59.0	56.5	61.5		59.0	Sunny	1.0
23-Sep-21	14:25	58.4	56.0	60.5		58.4	Overcast	0.4
29-Sep-21	16:05	64.0	62.0	66.5		64.0	Fine	0.6
05-Oct-21	15:00	60.9	58.0	62.0		60.9	Fine	1.2
11-Oct-21	14:28	59.0	54.5	61.0		59.0	Fine	1.3
22-Oct-21	09:24	61.2	58.0	62.5		61.2	Fine	0.9
28-Oct-21	11:05	62.5	59.0	63.5		62.5	Fine	0.7
03-Nov-21	09:38	61.3	85.5	63.0		61.3	Sunny	0.4
09-Nov-21	14:49	58.9	56.5	61.0		58.9	Fine	0.8
15-Nov-21	14:25	62.3	59.5	63.5		62.3	Fine	0.5
26-Nov-21	08:50	57.8	56.0	59.5		57.8	Sunny	0.5

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

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

### 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-21	10:04	60.5	57.0	62.0	75	60.5	Sunny	0.5
13-Aug-21	10:52	64.7	60.0	67.5		64.7	Fine	0.3
19-Aug-21	11:40	62.0	59.5	63.0		62.0	Fine	0.9
25-Aug-21	10:09	62.1	58.0	65.5		62.1	Sunny	0.8
31-Aug-21	09:30	61.4	57.5	64.0		61.4	Overcast	0.5
06-Sep-21	13:08	63.7	58.5	66.0		63.7	Fine	0.9
17-Sep-21	10:00	62.7	58.0	64.0		62.7	Sunny	0.7
23-Sep-21	15:02	63.8	60.0	65.0		63.8	Overcast	1.0
29-Sep-21	15:26	63.0	60.5	65.0		63.0	Fine	1.4
05-Oct-21	15:37	63.0	60.0	64.5		63.0	Fine	1.2
11-Oct-21	15:05	62.5	58.5	64.0		62.5	Fine	1.0
22-Oct-21	10:03	62.1	59.5	63.5		62.1	Fine	0.9
28-Oct-21	13:00	61.0	58.5	63.0		61.0	Fine	1.1
03-Nov-21	10:15	64.4	61.5	66.0		64.4	Sunny	1.0
09-Nov-21	15:24	61.0	58.5	63.0		61.0	Fine	0.9
15-Nov-21	15:00	63.6	60.0	65.0		63.6	Fine	1.0
26-Nov-21	09:24	61.7	58.5	64.0		61.7	Sunny	0.9

### 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-21	13:00	63.3	60.5	65.0	70	63.3	Sunny	0.8
14-Aug-21	13:26	64.2	62.5	65.5		64.2	Fine	1.1
20-Aug-21	13:10	64.5	61.5	66.0		64.5	Sunny	0.8
26-Aug-21	13:58	63.7	62.0	65.0		63.7	Sunny	0.9
30-Aug-21	13:52	64.2	62.0	66.5		64.2	Overcast	0.6
07-Sep-21	10:52	62.3	60.0	63.5		62.3	Fine	0.6
18-Sep-21	13:50	60.0	58.0	61.5		60	Fine	1.0
24-Sep-21	13:59	61.3	59.5	62.0		61.3	Fine	0.9
30-Sep-21	13:38	61.6	59.5	63.0		61.6	Fine	0.8
06-Oct-21	13:50	63.1	60.0	66.0		63.1	Fine	1.4
12-Oct-21	10:18	64.8	62.0	68.0		64.8	Fine	1.1
23-Oct-21	14:58	61.8	60.0	63.5		61.8	Fine	0.6
29-Oct-21	09:22	64.5	61.5	65.0		64.5	Fine	0.8
04-Nov-21	09:34	62.6	59.5	64.0	62.6	Fine	1.4	
10-Nov-21	16:58	58.6	53.5	61.5	70	58.6	Fine	0.3
16-Nov-21	13:03	62.9	61.5	64.0		62.9	Fine	0.9
27-Nov-21	13:11	60.9	58.0	62.0		60.9	Sunny	1.0

For Shatin Pui Ying College, 70 dB(A) noise level is set for school for normal days. The examination period began on 25<sup>th</sup> to 29<sup>th</sup> October 2021. Hence, the daytime noise level changed from 70 to 65 dB(A).

### 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-21	10:43	60.2	56.0	63.0	75	60.2	Sunny	0.3
13-Aug-21	11:29	59.5	54.0	61.0		59.5	Fine	0.5
19-Aug-21	13:00	59.5	57.0	61.0		59.5	Fine	0.4
25-Aug-21	10:41	64.4	58.0	65.5		64.4	Sunny	1.0
31-Aug-21	10:07	61.5	59.5	63.0		61.5	Overcast	0.7
06-Sep-21	13:46	60.2	57.0	62.0		60.2	Fine	0.9
17-Sep-21	10:32	63.4	60.0	65.5		63.4	Sunny	0.4
23-Sep-21	15:40	61.5	57.0	64.0		61.5	Overcast	0.5
29-Sep-21	14:51	61.4	58.5	63.5		61.4	Fine	0.7
05-Oct-21	16:15	61.8	59.5	62.5		61.8	Fine	1.0
11-Oct-21	15:38	60.7	56.0	62.5		60.7	Fine	1.2
22-Oct-21	10:35	59.1	56.5	61.0		59.1	Fine	0.4
28-Oct-21	13:33	60.6	57.0	61.5		60.6	Fine	1.3
03-Nov-21	10:50	60.2	58.0	62.0		60.2	Sunny	1.0
09-Nov-21	15:57	57.1	54.5	58.5		57.1	Fine	0.6
15-Nov-21	15:33	61.1	58.0	62.5		61.1	Fine	0.9
26-Nov-21	10:02	63.5	59.5	65.0		63.5	Sunny	0.6

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

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

**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-21	11:26	63.2	61.5	64.5	75	63.2	Sunny	0.9
14-Aug-21	13:02	66.5	64.5	68.0		66.5	Fine	0.8
20-Aug-21	13:45	64.4	63.0	66.0		64.4	Sunny	0.4
26-Aug-21	09:45	68.5	64.5	70.0		68.5	Sunny	0.7
30-Aug-21	13:00	67.1	65.0	69.0		67.1	Overcast	0.5
07-Sep-21	11:28	66.6	64.5	68.0		66.6	Fine	0.7
18-Sep-21	11:35	64.5	61.5	66.0		64.5	Fine	0.9
24-Sep-21	13:05	65.9	64.0	67.0		65.9	Fine	0.4
30-Sep-21	14:20	64.2	62.0	66.0		64.2	Fine	0.6
06-Oct-21	14:28	66.5	65.0	68.0		66.5	Fine	0.9
12-Oct-21	10:55	63.3	61.5	65.0		63.3	Fine	0.8
23-Oct-21	13:38	67.9	65.0	70.3		67.9	Fine	0.8
29-Oct-21	08:48	63.1	61.5	65.0		63.1	Fine	0.7
04-Nov-21	08:58	63.1	61.5	65.0		63.1	Fine	1.1
10-Nov-21	17:33	57.4	53.0	59.5		57.4	Fine	0.2
16-Nov-21	13:43	66.0	62.0	68.5		66.0	Fine	0.4
27-Nov-21	10:58	63.5	60.0	65.0		63.5	Sunny	0.4

**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-21	13:20	62.3	60.5	63.0	75	62.3	Sunny	0.7
14-Aug-21	13:44	63.4	62.5	65.0		63.4	Fine	0.7
20-Aug-21	14:21	64.9	62.5	67.0		64.9	Sunny	0.5
26-Aug-21	08:43	60.8	58.5	61.5		60.8	Sunny	0.7
30-Aug-21	13:36	62.1	60.0	63.5		62.1	Overcast	0.6
07-Sep-21	13:03	60.2	58.0	61.5		60.2	Fine	0.5
18-Sep-21	13:02	63.2	61.5	64.0		63.2	Fine	0.5
24-Sep-21	13:48	63.1	60.0	65.5		63.1	Fine	0.3
30-Sep-21	14:54	64.4	62.5	66.0		64.4	Fine	0.7
06-Oct-21	15:00	64.1	60.5	65.5		64.1	Fine	0.9
12-Oct-21	11:29	62.9	61.0	64.0		62.9	Fine	0.5
23-Oct-21	14:15	66.8	64.5	69.0		66.8	Fine	1.1
29-Oct-21	08:11	61.1	59.0	63.0		61.1	Fine	0.6
04-Nov-21	08:24	61.1	59.0	63.0		61.1	Fine	0.8
10-Nov-21	18:08	60.1	55.0	62.5		60.1	Fine	0.2
16-Nov-21	14:18	63.7	60.5	65.5		63.7	Fine	0.5
27-Nov-21	11:30	63.2	60.5	66.0		63.2	Sunny	0.5

**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-21	08:45	62.9	60.0	65.0	75	62.9	Sunny	0.9
13-Aug-21	08:36	67.3	61.5	67.5		67.3	Fine	0.5
19-Aug-21	10:30	62.2	60.0	64.0		62.2	Fine	0.2
25-Aug-21	08:54	64.2	61.0	66.0		64.2	Sunny	1.0
31-Aug-21	11:32	65.1	61.5	67.0		65.1	Overcast	0.7
06-Sep-21	10:37	62.5	60.0	64.5		62.5	Fine	0.3
17-Sep-21	08:39	63.3	61.0	65.5		63.3	Sunny	0.6
23-Sep-21	13:36	67.1	61.5	68.0		67.1	Overcast	0.8
29-Sep-21	16:47	65.4	63.0	67.5		65.4	Fine	0.8
05-Oct-21	14:18	64.7	61.5	66.0		64.7	Fine	0.6
11-Oct-21	13:45	66.9	62.0	68.0		66.9	Fine	0.6
22-Oct-21	08:48	66.6	62.5	68.5		66.6	Fine	0.6
28-Oct-21	10:24	65.7	62.0	67.0		65.7	Fine	0.5
03-Nov-21	08:51	66.2	63.5	68.0		66.2	Sunny	0.7
09-Nov-21	14:12	65.1	61.0	67.5		65.1	Fine	0.9
15-Nov-21	13:42	65.7	62.5	67.0		65.7	Fine	0.8
26-Nov-21	13:20	65.2	60.5	66.5		65.2	Sunny	0.7

**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-21	09:08	64.7	63.5	66.5	75	64.7	Sunny	0.7
14-Aug-21	09:14	64.5	62.5	66.0		64.5	Fine	0.5
20-Aug-21	08:51	64.6	62.5	65.5		64.6	Sunny	0.9
26-Aug-21	09:08	65.6	63.0	66.5		65.6	Sunny	0.5
30-Aug-21	09:20	64.8	63.0	65.5		64.8	Overcast	0.5
07-Sep-21	16:37	68.1	67.0	69.0		68.1	Fine	0.9
18-Sep-21	09:13	64.1	62.0	66.0		64.1	Fine	0.8
24-Sep-21	09:10	64.5	62.5	66.0		64.5	Fine	0.7
30-Sep-21	09:15	64.7	62.0	65.5		64.7	Fine	0.7
06-Oct-21	09:26	64.5	62.0	66.0		64.5	Fine	1.5
12-Oct-21	16:04	63.0	61.5	64.5		63.0	Fine	1.0
23-Oct-21	08:56	68.9	66.0	71.5		68.9	Fine	0.7
29-Oct-21	15:22	68.6	66.0	70.0		68.6	Fine	0.7
04-Nov-21	16:33	67.3	66.0	69.5		67.3	Fine	0.8
10-Nov-21	09:47	60.4	53.5	62.5		60.4	Fine	0.4
16-Nov-21	08:37	64.0	61.5	66.5		64.0	Fine	1
27-Nov-21	09:00	63.1	62.0	65.0		63.1	Sunny	0.7

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

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

**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-21	08:57	59.6	54.0	63.0	75	59.6	Sunny	1.0
14-Aug-21	08:38	58.9	54.0	63.5		58.9	Fine	0.6
20-Aug-21	16:48	60.6	55.0	62.5		60.6	Sunny	0.6
26-Aug-21	13:06	59.4	56.5	62.5		59.4	Sunny	0.7
30-Aug-21	08:42	65.6	61.5	66.5		65.6	Overcast	0.4
07-Sep-21	08:27	64.4	56.5	67.5		64.4	Fine	0.6
18-Sep-21	08:53	59.3	55.0	62.0		59.3	Fine	0.7
24-Sep-21	08:41	66.5	62.0	69.5		66.5	Fine	0.6
30-Sep-21	17:39	59.5	55.0	61.0		59.5	Fine	0.8
06-Oct-21	17:13	60.0	56.0	61.5		60.0	Fine	0.8
12-Oct-21	14:53	58.9	55.0	60.0		58.9	Fine	0.7
23-Oct-21	16:52	70.4	66.0	73.0		70.4	Fine	0.4
29-Oct-21	14:44	64.0	62.5	66.0		64.0	Fine	0.8
04-Nov-21	13:37	65.5	60.0	69.0		65.5	Fine	0.7
10-Nov-21	15:34	63.7	57.5	66.0		63.7	Fine	0.4
16-Nov-21	16:55	66.1	63.5	68.0		66.1	Fine	0.5
27-Nov-21	08:50	64.7	59.5	66.5	64.7	Sunny	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-21	10:44	66.7	64.0	68.5	75	66.7	Sunny	0.4
14-Aug-21	10:34	70.1	68.0	72.0		70.1	Fine	0.4
20-Aug-21	14:58	70.5	67.5	73.0		70.5	Sunny	0.4
26-Aug-21	09:58	68.7	66.5	70.0		68.7	Sunny	0.9
30-Aug-21	10:45	71.9	70.0	74.0		71.9	Overcast	1.1
07-Sep-21	10:14	70.2	67.0	72.0		70.2	Fine	0.8
18-Sep-21	10:56	70.7	68.5	72.0		70.7	Fine	0.7
24-Sep-21	10:43	68.6	66.5	70.0		68.6	Fine	0.7
30-Sep-21	15:33	68.8	66.5	69.5		68.8	Fine	0.2
06-Oct-21	15:41	68.9	62.5	71.0		68.9	Fine	0.5
12-Oct-21	13:02	63.5	60.0	65.0		63.5	Fine	0.6
23-Oct-21	13:00	72.4	68.5	75.5		72.4	Fine	1.3
29-Oct-21	09:58	69.4	67.0	91.5		69.4	Fine	0.9
04-Nov-21	10:09	71.2	67.5	73.5		71.2	Fine	1.2
10-Nov-21	16:22	68.4	61.0	71.5		68.4	Fine	0.2
16-Nov-21	14:59	71.0	68.0	73.0		71.0	Fine	0.3
27-Nov-21	10:21	70.9	68.5	72.0	70.9	Sunny	0.8	

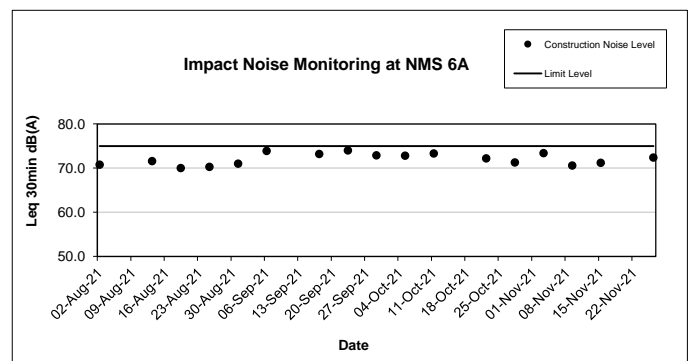
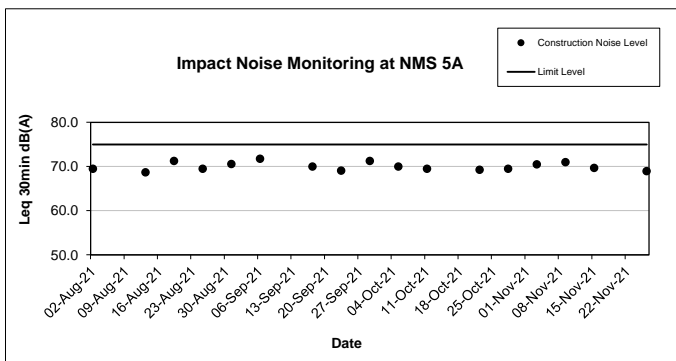
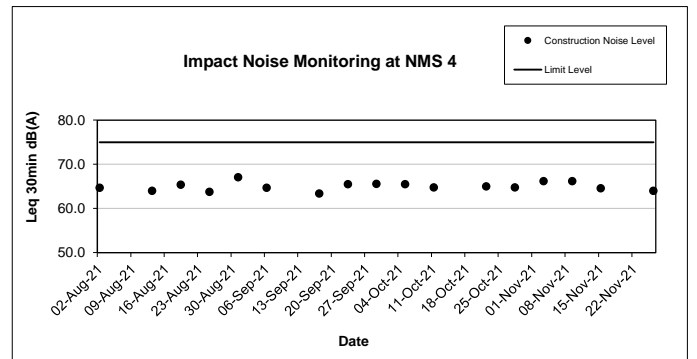
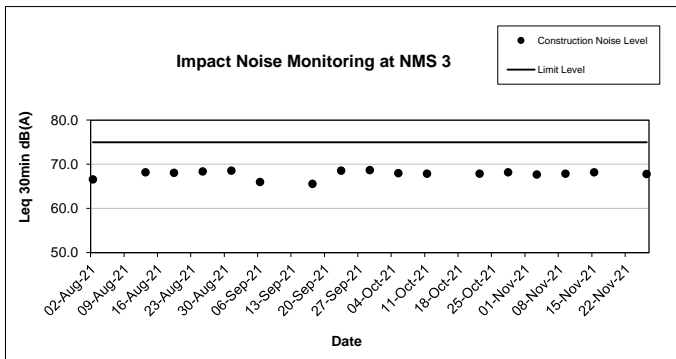
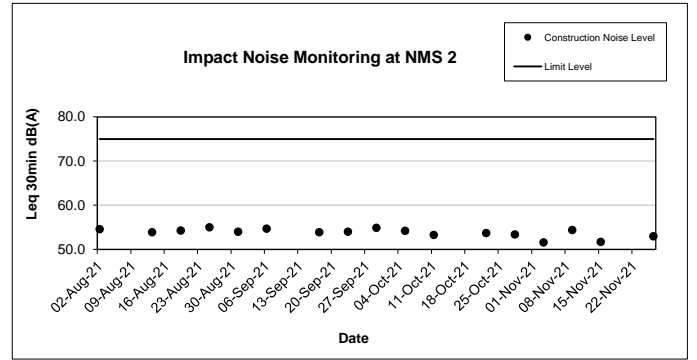
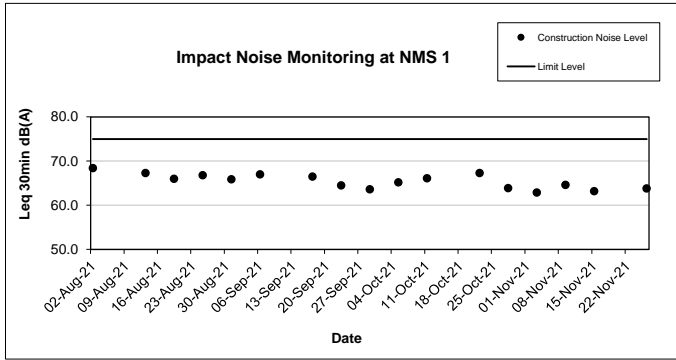
**NMS 27 Jockey Club Ti-I College**

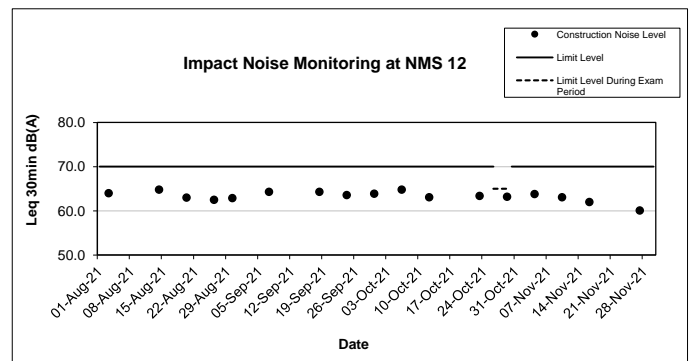
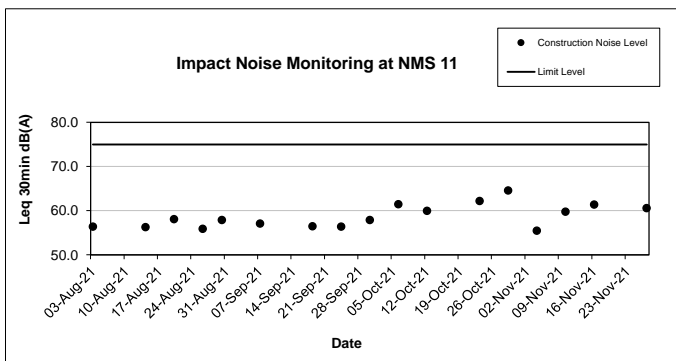
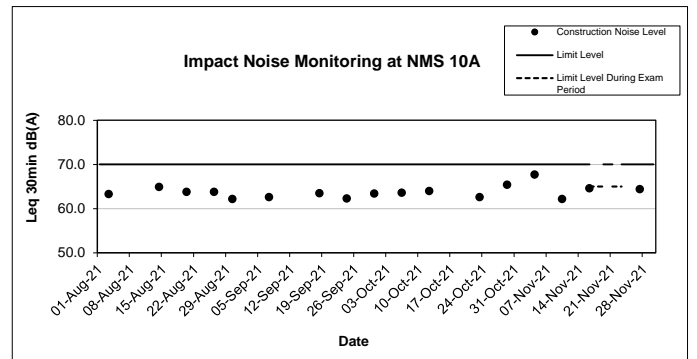
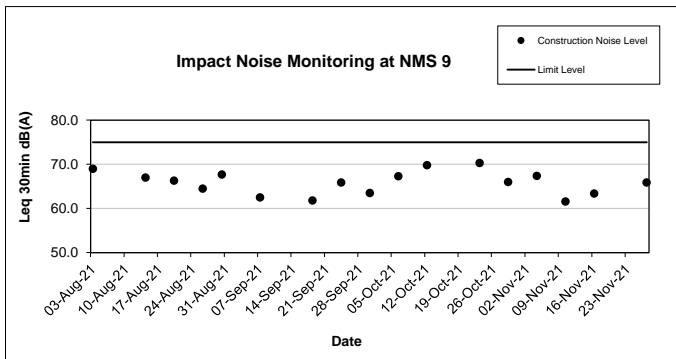
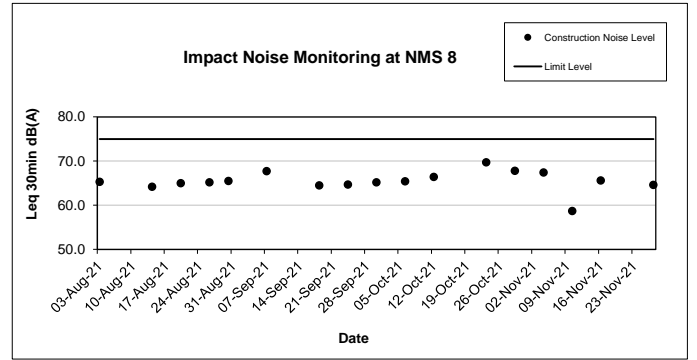
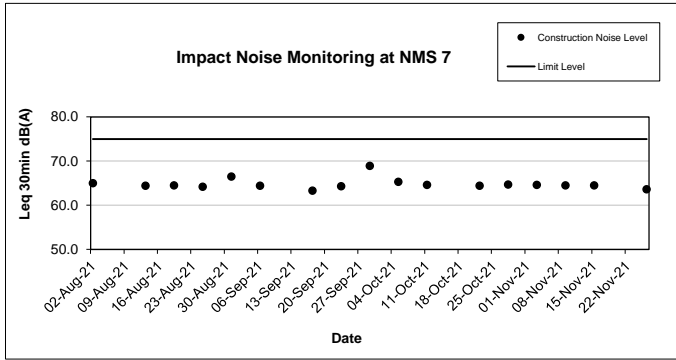
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
02-Aug-21	11:31	64.8	62.0	66.5	70	64.8	Sunny	0.7
13-Aug-21	13:00	65.5	63.0	67.0		65.5	Fine	0.8
19-Aug-21	16:39	63.7	60.5	65.5		63.7	Fine	0.8
25-Aug-21	11:25	64.0	62.0	65.5		64.0	Sunny	0.4
31-Aug-21	14:45	63.5	60.5	65.0		63.5	Overcast	0.7
06-Sep-21	17:15	64.3	62.0	65.5		64.3	Fine	0.6
17-Sep-21	11:24	64.8	62.0	66.5		64.8	Sunny	0.9
23-Sep-21	16:35	66.0	62.5	67.0		66.0	Overcast	0.6
29-Sep-21	13:56	64.2	61.0	66.0		64.2	Fine	0.9
05-Oct-21	17:11	65.4	63.5	67.0		65.4	Fine	0.6
11-Oct-21	16:30	64.0	62.0	66.0		64.0	Fine	1.4
22-Oct-21	11:28	63.7	60.5	65.5		63.7	Fine	1.0
28-Oct-21	14:19	64.2	61.0	66.5		64.2	Fine	1.3
03-Nov-21	13:10	64.8	62.0	66.5		64.8	Sunny	0.6
09-Nov-21	16:38	62.7	60.5	64.0		62.7	Fine	0.9
15-Nov-21	16:20	63.2	61.5	65.0		65	Fine	0.4
26-Nov-21	11:09	64.5	61.0	66.5	70	64.5	Sunny	0.3

For Jockey Club Ti-I College, 70 dB(A) noise level is set for school for normal days. The examination period was 11-18 November 2021. Hence, the daytime noise level changed from 70 to 65 dB(A).

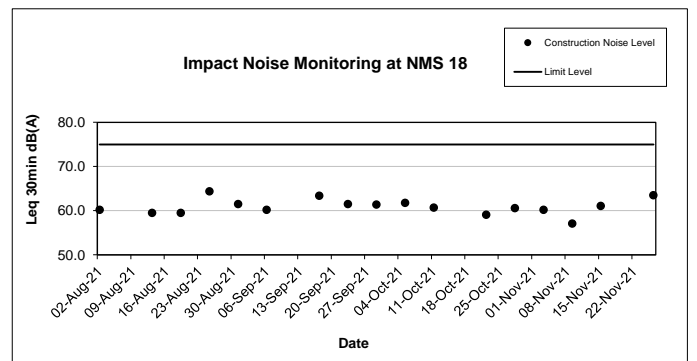
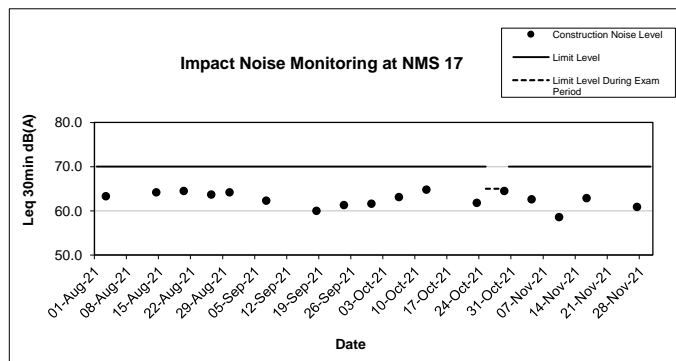
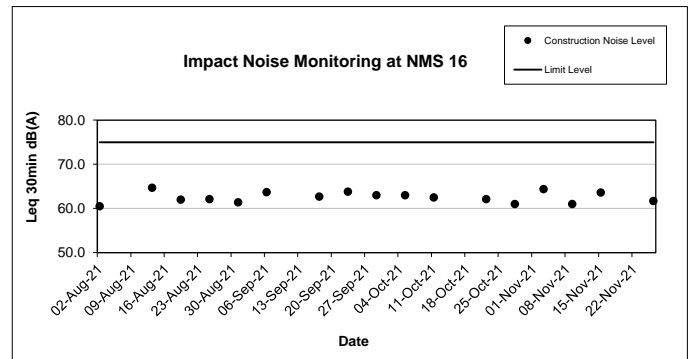
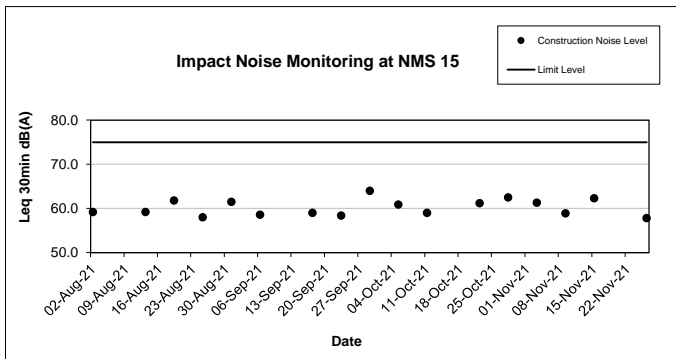
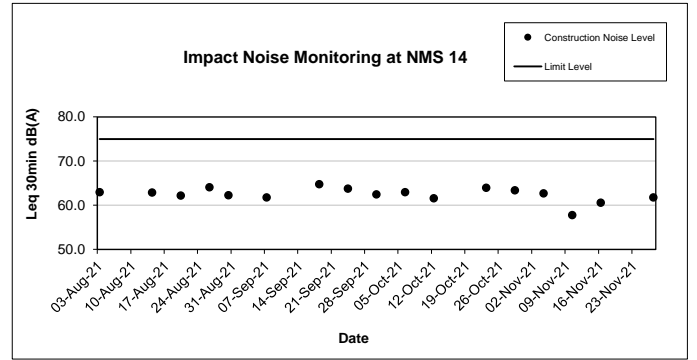
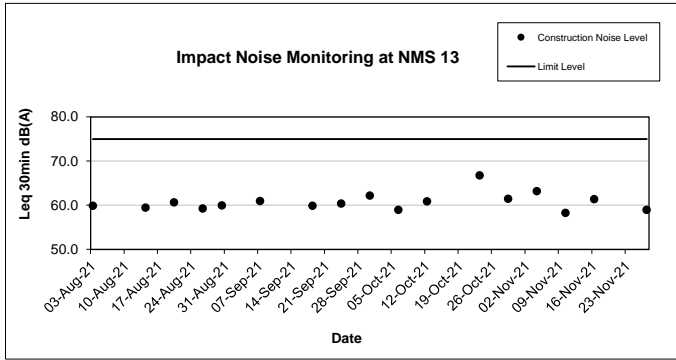
If measured noise level (L<sub>eq</sub>) > limit level, Corrected noise level (CNL) is calculated as:

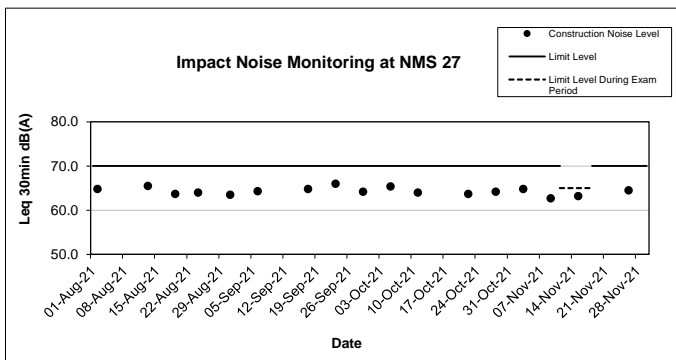
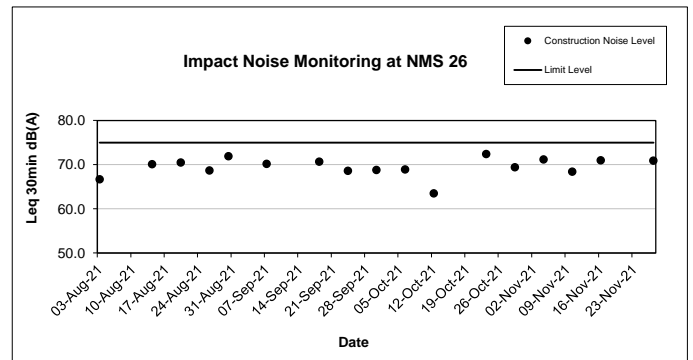
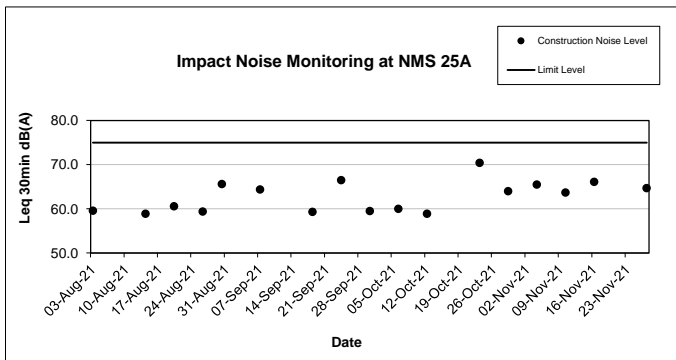
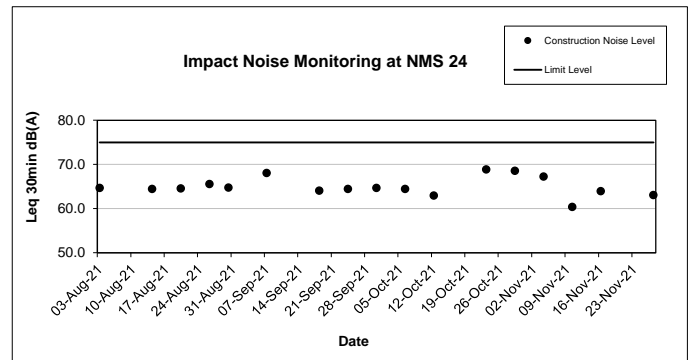
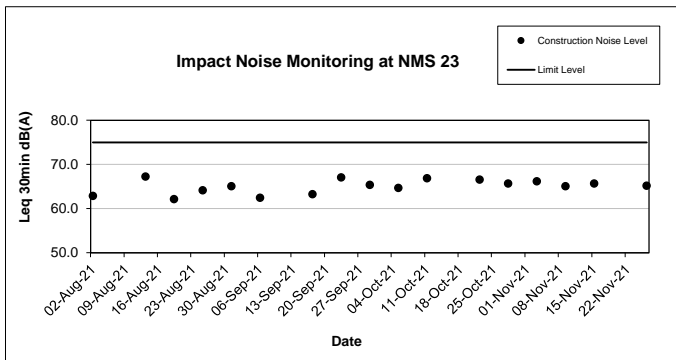
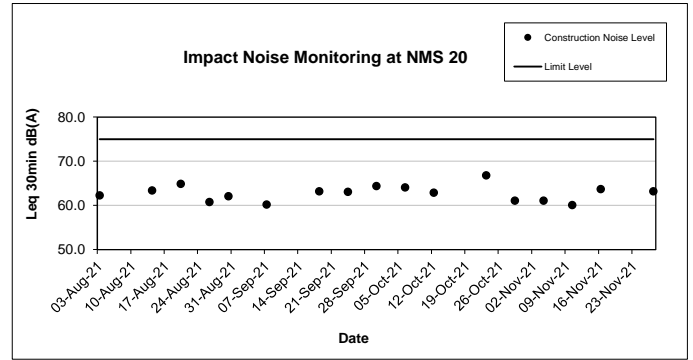
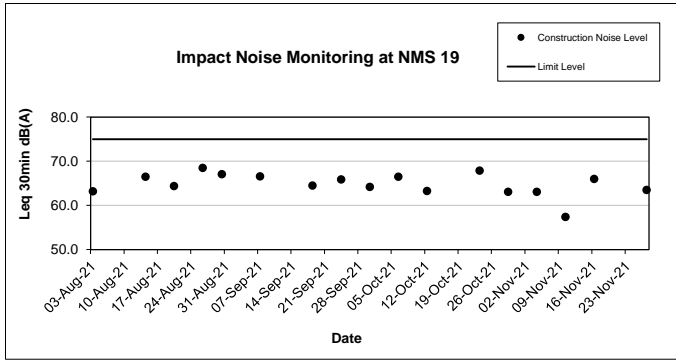
$$Corrected\ noise\ level\ (CNL) = 10 \times \log \left[ \left( 10^{\frac{Measured\ noise\ level, L_{eq}}{10}} \right) - \left( 10^{\frac{Baseline\ noise\ level}{10}} \right) \right]$$











## 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)
06-Aug-21	23:00	59.6	61.4	52.8 - 66.3	55	Measured Noise Level-Baseline	Overcast	0.9
12-Aug-21	23:00	59.1				Measured Noise Level-Baseline	Fine	0.7
19-Aug-21	23:00	59.0				Measured Noise Level-Baseline	Fine	0.7
26-Aug-21	23:00	57.0				Measured Noise Level-Baseline	Fine	0.6
02-Sep-21	23:00	59.7				Measured Noise Level-Baseline	Fine	0.8
09-Sep-21	23:00	57.6				Measured Noise Level-Baseline	Fine	0.5
16-Sep-21	23:00	59.8				Measured Noise Level-Baseline	Fine	0.7
23-Sep-21	23:00	56.9				Measured Noise Level-Baseline	Fine	0.5
29-Sep-21	23:00	59.8				Measured Noise Level-Baseline	Fine	0.4
07-Oct-21	23:00	58.1				Measured Noise Level-Baseline	Overcast	0.5
11-Oct-21	23:00	58.5				Measured Noise Level-Baseline	Overcast	2.5
21-Oct-21	23:00	59.0				Measured Noise Level-Baseline	Fine	0.8
28-Oct-21	23:00	59.9				Measured Noise Level-Baseline	Fine	0.7
04-Nov-21	23:00	59.1				Measured Noise Level-Baseline	Fine	0.6
11-Nov-21	23:03	61.2				Measured Noise Level-Baseline	Fine	1.0
18-Nov-21	23:00	58.2				Measured Noise Level-Baseline	Fine	0.5
25-Nov-21	23:00	60.9				Measured Noise Level-Baseline	Fine	0.5

### 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)
06-Aug-21	23:00	52.9	49.7	40.1 - 58.2	55	Measured Noise Level-Limit Level	Overcast	1.1
12-Aug-21	23:03	53.2				Measured Noise Level-Limit Level	Fine	0.8
20-Aug-21	01:51	52.7				Measured Noise Level-Limit Level	Fine	0.4
26-Aug-21	23:11	52.7				Measured Noise Level-Limit Level	Fine	0.9
03-Sep-21	02:17	53.2				Measured Noise Level-Limit Level	Fine	1.4
09-Sep-21	23:30	52.8				Measured Noise Level-Limit Level	Fine	1.2
17-Sep-21	02:03	52.6				Measured Noise Level-Limit Level	Fine	0.6
24-Sep-21	02:59	51.1				Measured Noise Level-Limit Level	Fine	0.9
30-Sep-21	01:06	53.0				Measured Noise Level-Limit Level	Fine	0.7
08-Oct-21	03:16	51.8				Measured Noise Level-Limit Level	Overcast	1.2
11-Oct-21	23:03	53.0				Measured Noise Level-Limit Level	Overcast	2.9
21-Oct-21	23:00	53.7				Measured Noise Level-Limit Level	Fine	0.6
28-Oct-21	23:00	50.7				Measured Noise Level-Limit Level	Fine	0.6
05-Nov-21	02:46	54.9				Measured Noise Level-Limit Level	Fine	0.5
11-Nov-21	23:00	52.1				Measured Noise Level-Limit Level	Fine	0.6
19-Nov-21	02:48	53.5				Measured Noise Level-Limit Level	Fine	1.0
25-Nov-21	23:08	51.7				Measured Noise Level-Limit Level	Fine	0.7

### 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)
06-Aug-21	23:21	67.5	70.9	60.2 - 78.9	55	Measured Noise Level-Baseline	Overcast	0.6
12-Aug-21	23:20	62.9				Measured Noise Level-Baseline	Fine	0.6
20-Aug-21	01:29	62.4				Measured Noise Level-Baseline	Fine	0.5
26-Aug-21	23:20	60.3				Measured Noise Level-Baseline	Fine	0.3
03-Sep-21	01:54	67.0				Measured Noise Level-Baseline	Fine	0.8
09-Sep-21	23:21	68.6				Measured Noise Level-Baseline	Fine	0.5
17-Sep-21	01:39	61.6				Measured Noise Level-Baseline	Fine	1.2
23-Sep-21	23:20	68.2				Measured Noise Level-Baseline	Fine	0.5
30-Sep-21	00:38	62.0				Measured Noise Level-Baseline	Fine	0.9
07-Oct-21	23:21	68.8				Measured Noise Level-Baseline	Overcast	0.4
11-Oct-21	23:22	66.1				Measured Noise Level-Baseline	Overcast	1.8
21-Oct-21	23:22	63.0				Measured Noise Level-Baseline	Fine	0.7
28-Oct-21	23:21	60.9				Measured Noise Level-Baseline	Fine	0.6
04-Nov-21	23:00	61.2				Measured Noise Level-Baseline	Fine	0.7
11-Nov-21	23:22	63.0				Measured Noise Level-Baseline	Fine	0.6
18-Nov-21	23:03	63.9				Measured Noise Level-Baseline	Fine	0.5
25-Nov-21	23:49	64.1				Measured Noise Level-Baseline	Fine	0.8

**NMS 4 Tin Liu**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-Aug-21	02:44	58.8	62.6	53.1 - 68.1	55	Measured Noise Level-Baseline	Overcast	0.6
12-Aug-21	23:30	61.9				Measured Noise Level-Baseline	Fine	0.3
20-Aug-21	01:50	60.1				Measured Noise Level-Baseline	Fine	0.7
26-Aug-21	23:34	61.0				Measured Noise Level-Baseline	Fine	0.4
03-Sep-21	02:53	59.1				Measured Noise Level-Baseline	Fine	0.4
09-Sep-21	23:53	62.5				Measured Noise Level-Baseline	Fine	0.9
17-Sep-21	02:57	59.5				Measured Noise Level-Baseline	Fine	0.8
24-Sep-21	02:36	60.8				Measured Noise Level-Baseline	Fine	0.7
30-Sep-21	02:49	59.0				Measured Noise Level-Baseline	Fine	0.5
08-Oct-21	02:45	60.4				Measured Noise Level-Baseline	Overcast	0.6
11-Oct-21	23:29	60.4				Measured Noise Level-Baseline	Overcast	2.8
21-Oct-21	23:26	61.2				Measured Noise Level-Baseline	Fine	0.8
28-Oct-21	23:27	61.1				Measured Noise Level-Baseline	Fine	0.4
05-Nov-21	03:00	60.0				Measured Noise Level-Baseline	Fine	0.7
11-Nov-21	23:22	62.3				Measured Noise Level-Baseline	Fine	0.8
19-Nov-21	02:47	61.1				Measured Noise Level-Baseline	Fine	0.9
25-Nov-21	23:30	62.1				Measured Noise Level-Baseline	Fine	0.5

**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)
06-Aug-21	23:18	71.2	67.9	62.0 - 75.2	55	68.5**	Overcast	0.5
12-Aug-21	23:40	67.9				Measured Noise Level-Baseline	Fine	0.9
19-Aug-21	23:19	68.0				51.6*	Fine	0.7
26-Aug-21	23:42	68.0				51.6*	Fine	0.4
02-Sep-21	23:19	70.9				68.0*	Fine	0.6
09-Sep-21	23:42	67.8				Measured Noise Level-Baseline	Fine	0.4
16-Sep-21	23:19	70.9				67.8*	Fine	0.6
23-Sep-21	23:41	68.0				49.8*	Fine	0.6
29-Sep-21	23:20	70.7				67.4*	Fine	0.4
07-Oct-21	23:40	68.0				51.6*	Overcast	0.8
11-Oct-21	23:43	64.8				Measured Noise Level-Baseline	Overcast	2.2
21-Oct-21	23:40	68.0				51.6*	Fine	0.9
28-Oct-21	23:44	69.6				64.7**	Fine	0.5
04-Nov-21	23:25	67.6				Measured Noise Level-Baseline	Fine	0.8
11-Nov-21	23:44	63.3				Measured Noise Level-Baseline	Fine	0.5
18-Nov-21	23:23	68.0				51.6*	Fine	0.9
25-Nov-21	23:27	65.4				Measured Noise Level-Baseline	Fine	1.5

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

**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)
06-Aug-21	23:41	67.5	71.5	65.0 - 85.9	55	Measured Noise Level-Baseline	Overcast	0.7
12-Aug-21	23:58	70.5				Measured Noise Level-Baseline	Fine	0.7
20-Aug-21	01:08	65.9				Measured Noise Level-Baseline	Fine	1.1
26-Aug-21	23:59	69.3				Measured Noise Level-Baseline	Fine	0.7
03-Sep-21	01:06	66.1				Measured Noise Level-Baseline	Fine	0.4
10-Sep-21	00:00	68.8				Measured Noise Level-Baseline	Fine	0.7
17-Sep-21	01:19	63.0				Measured Noise Level-Baseline	Fine	0.9
23-Sep-21	23:58	68.9				Measured Noise Level-Baseline	Fine	0.5
30-Sep-21	00:18	63.7				Measured Noise Level-Baseline	Fine	0.6
07-Oct-21	23:58	69.5				Measured Noise Level-Baseline	Overcast	0.9
12-Oct-21	00:04	63.2				Measured Noise Level-Baseline	Overcast	2.4
21-Oct-21	23:58	68.8				Measured Noise Level-Baseline	Fine	0.6
29-Oct-21	00:18	71.3				Measured Noise Level-Baseline	Fine	0.9
04-Nov-21	23:31	69.7				Measured Noise Level-Baseline	Fine	0.8
12-Nov-21	00:07	70.7				Measured Noise Level-Baseline	Fine	0.9
18-Nov-21	23:35	70.1				Measured Noise Level-Baseline	Fine	0.8
26-Nov-21	00:09	69.9				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)
07-Aug-21	02:25	58.5	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Overcast	0.5
12-Aug-21	23:51	57.0				Measured Noise Level<Baseline	Fine	0.3
20-Aug-21	01:30	58.4				Measured Noise Level<Baseline	Fine	0.5
26-Aug-21	23:52	58.2				Measured Noise Level<Baseline	Fine	0.6
03-Sep-21	02:32	59.2				46.1*	Fine	0.8
10-Sep-21	00:14	59.8				52.1*	Fine	0.9
17-Sep-21	02:38	58.5				Measured Noise Level<Baseline	Fine	0.8
24-Sep-21	02:15	59.3				47.5*	Fine	1.0
30-Sep-21	02:31	58.8				Measured Noise Level<Baseline	Fine	0.6
08-Oct-21	02:23	59.2				45.7*	Overcast	0.5
11-Oct-21	23:49	59.4				48.8*	Overcast	1.5
21-Oct-21	23:48	59.4				48.8*	Fine	1.1
28-Oct-21	23:48	60.2				54.0*	Fine	0.7
05-Nov-21	02:35	59.7				51.4*	Fine	0.8
11-Nov-21	23:42	59.3				47.5*	Fine	1.0
19-Nov-21	02:27	58.8				Measured Noise Level<Baseline	Fine	0.6
25-Nov-21	23:54	58.0				Measured Noise Level<Baseline	Fine	0.5

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

**NMS 8 Shatin Plaza**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-Aug-21	00:03	61.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:48	59.6				Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	00:47	59.8				Measured Noise Level<Baseline	Fine	0.9
27-Aug-21	00:40	61.7				Measured Noise Level<Baseline	Fine	0.8
03-Sep-21	00:45	60.4				Measured Noise Level<Baseline	Fine	0.8
10-Sep-21	00:30	62.4				Measured Noise Level<Baseline	Fine	0.7
17-Sep-21	00:54	59.7				Measured Noise Level<Baseline	Fine	0.4
24-Sep-21	00:26	58.7				Measured Noise Level<Baseline	Fine	0.5
30-Sep-21	00:52	61.6				Measured Noise Level<Baseline	Fine	0.7
08-Oct-21	00:24	61.3				Measured Noise Level<Baseline	Overcast	0.9
12-Oct-21	00:28	62.0				Measured Noise Level<Baseline	Overcast	2.0
22-Oct-21	00:23	61.2				Measured Noise Level<Baseline	Fine	1.0
29-Oct-21	00:42	62.8				Measured Noise Level<Baseline	Fine	0.7
04-Nov-21	23:58	57.2				Measured Noise Level<Baseline	Fine	0.5
12-Nov-21	00:30	62.2				Measured Noise Level<Baseline	Fine	1.1
19-Nov-21	00:01	64.2				Measured Noise Level<Baseline	Fine	0.7
26-Nov-21	00:42	62.6				Measured Noise Level<Baseline	Fine	1.0

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 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)
07-Aug-21	02:03	54.3	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Overcast	0.6
13-Aug-21	01:12	56.4				53.3*	Fine	0.8
20-Aug-21	00:22	55.2				50.3*	Fine	0.4
27-Aug-21	01:00	56.0				52.4*	Fine	0.6
02-Sep-21	23:00	56.6				53.8*	Fine	0.7
10-Sep-21	01:11	55.8				52.0*	Fine	0.6
17-Sep-21	00:32	56.4				53.3*	Fine	0.6
24-Sep-21	01:00	57.0				54.4*	Fine	0.4
30-Sep-21	00:29	55.1				50.0*	Fine	1.1
08-Oct-21	01:11	56.8				54.1*	Overcast	1.2
12-Oct-21	00:55	55.3				50.6*	Overcast	2.8
22-Oct-21	01:10	57.0				54.4*	Fine	0.8
29-Oct-21	01:26	52.9				Measured Noise Level<Limit Level	Fine	0.9
05-Nov-21	00:30	55.5				51.2*	Fine	0.8
12-Nov-21	01:15	57.0				54.4*	Fine	0.6
19-Nov-21	00:31	57.1				54.6*	Fine	0.7
26-Nov-21	01:25	56.8				54.1*	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)
07-Aug-21	01:45	55.0	53.2	46.1 - 62.8	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:54	54.8				Measured Noise Level<Limit Level	Fine	0.6
20-Aug-21	00:48	53.2				Measured Noise Level<Limit Level	Fine	0.6
27-Aug-21	00:50	54.2				Measured Noise Level<Limit Level	Fine	0.3
03-Sep-21	01:52	50.9				Measured Noise Level<Limit Level	Fine	0.9
10-Sep-21	01:17	53.8				Measured Noise Level<Limit Level	Fine	0.8
17-Sep-21	01:57	54.9				Measured Noise Level<Limit Level	Fine	0.4
24-Sep-21	01:08	54.7				Measured Noise Level<Limit Level	Fine	0.4
30-Sep-21	01:53	53.9				Measured Noise Level<Limit Level	Fine	0.5
08-Oct-21	01:10	56.8				54.3*	Overcast	0.6
12-Oct-21	01:00	53.6				Measured Noise Level<Limit Level	Overcast	0.6
22-Oct-21	00:50	53.1				Measured Noise Level<Limit Level	Fine	0.6
29-Oct-21	00:53	49.1				Measured Noise Level<Limit Level	Fine	0.3
05-Nov-21	01:37	53.0				Measured Noise Level<Limit Level	Fine	0.6
12-Nov-21	00:30	56.8				54.3*	Fine	0.6
19-Nov-21	01:45	53.9				Measured Noise Level<Limit Level	Fine	0.6
26-Nov-21	01:05	54.1				Measured Noise Level<Limit Level	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)
07-Aug-21	00:19	56.2	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Overcast	0.9
13-Aug-21	01:40	59.2				54.7*	Fine	0.7
20-Aug-21	00:08	54.5				Measured Noise Level<Limit Level	Fine	0.5
27-Aug-21	01:18	55.8				Measured Noise Level<Baseline	Fine	0.4
03-Sep-21	00:19	54.8				Measured Noise Level<Limit Level	Fine	0.6
10-Sep-21	01:34	55.9				Measured Noise Level<Baseline	Fine	0.3
17-Sep-21	00:26	58.9				53.8*	Fine	0.9
24-Sep-21	01:21	59.2				54.6*	Fine	0.4
30-Sep-21	00:27	56.1				Measured Noise Level<Baseline	Fine	0.6
08-Oct-21	01:41	57.8				48.2*	Overcast	0.9
12-Oct-21	01:17	56.5				Measured Noise Level<Baseline	Overcast	2.6
22-Oct-21	01:38	54.5				Measured Noise Level<Limit Level	Fine	0.8
29-Oct-21	01:49	54.9				Measured Noise Level<Limit Level	Fine	0.5
05-Nov-21	00:24	55.4				Measured Noise Level<Baseline	Fine	0.7
12-Nov-21	01:39	54.0				Measured Noise Level<Limit Level	Fine	0.6
19-Nov-21	00:13	58.1				50.4*	Fine	0.9
26-Nov-21	01:48	54.1				Measured Noise Level<Limit Level	Fine	0.9

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)
07-Aug-21	00:42	56.5	54.1	46.1 - 62.8	55	52.8*	Overcast	0.8
13-Aug-21	01:15	56.4				52.5*	Fine	0.9
19-Aug-21	23:00	56.5				52.8*	Fine	0.7
27-Aug-21	01:09	56.2				52.0*	Fine	0.5
03-Sep-21	00:21	54.1				Measured Noise Level<Limit Level	Fine	0.9
10-Sep-21	01:42	55.6				50.4*	Fine	1.0
17-Sep-21	23:00	55.7				50.4*	Fine	0.7
24-Sep-21	00:48	56.9				53.8*	Fine	0.6
30-Sep-21	23:00	56.0				51.5*	Fine	0.7
08-Oct-21	00:49	57.3				54.5*	Overcast	1.5
12-Oct-21	01:27	55.3				49.1*	Overcast	2.5
22-Oct-21	01:13	54.6				Measured Noise Level<Limit Level	Fine	0.7
29-Oct-21	01:12	53.2				Measured Noise Level<Limit Level	Fine	1.1
05-Nov-21	01:53	54.1				Measured Noise Level<Limit Level	Fine	0.9
12-Nov-21	00:49	56.1				51.8*	Fine	0.9
19-Nov-21	01:54	57.0				53.9*	Fine	0.6
26-Nov-21	01:26	56.9				53.7*	Fine	1.3

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)
07-Aug-21	01:25	56.2	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Overcast	0.4
13-Aug-21	01:38	58.5				Measured Noise Level<Baseline	Fine	0.6
20-Aug-21	00:08	53.4				Measured Noise Level<Limit Level	Fine	0.9
27-Aug-21	01:32	58.5				Measured Noise Level<Baseline	Fine	0.5
03-Sep-21	01:29	56.5				Measured Noise Level<Baseline	Fine	0.4
10-Sep-21	02:06	57.0				Measured Noise Level<Baseline	Fine	0.4
17-Sep-21	01:32	55.4				Measured Noise Level<Baseline	Fine	0.4
24-Sep-21	00:24	58.4				Measured Noise Level<Baseline	Fine	0.7
30-Sep-21	01:33	54.9				Measured Noise Level<Limit Level	Fine	0.5
08-Oct-21	00:26	57.8				Measured Noise Level<Baseline	Overcast	1.2
12-Oct-21	01:54	58.0				Measured Noise Level<Baseline	Overcast	3.4
22-Oct-21	01:40	56.6				Measured Noise Level<Baseline	Fine	0.6
29-Oct-21	01:32	56.8				Measured Noise Level<Baseline	Fine	0.4
05-Nov-21	01:56	58.7				Measured Noise Level<Baseline	Fine	0.7
12-Nov-21	01:11	56.7				Measured Noise Level<Baseline	Fine	1.4
19-Nov-21	01:25	58.9				42.5*	Fine	0.9
26-Nov-21	01:45	59.3				49.7*	Fine	0.9

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 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)
07-Aug-21	01:02	60.0	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Overcast	1.3
13-Aug-21	01:58	59.9				Measured Noise Level<Baseline	Fine	1.1
19-Aug-21	23:19	57.7				Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	01:51	59.9				Measured Noise Level<Baseline	Fine	0.7
03-Sep-21	00:02	60.7				51.7*	Fine	0.6
10-Sep-21	02:24	57.4				Measured Noise Level<Baseline	Fine	0.7
16-Sep-21	23:24	55.3				Measured Noise Level=Baseline	Fine	0.8
23-Sep-21	23:59	59.2				Measured Noise Level<Baseline	Fine	0.8
29-Sep-21	23:19	57.8				Measured Noise Level<Baseline	Fine	0.8
08-Oct-21	00:02	59.7				Measured Noise Level<Baseline	Overcast	1.2
12-Oct-21	02:15	56.7				Measured Noise Level<Baseline	Overcast	3.6
22-Oct-21	01:59	55.8				Measured Noise Level<Baseline	Fine	1.2
29-Oct-21	01:56	54.8				Measured Noise Level<Limit Level	Fine	0.8
05-Nov-21	01:31	56.3				Measured Noise Level<Baseline	Fine	1.0
12-Nov-21	01:30	54.8				Measured Noise Level<Limit Level	Fine	0.7
19-Nov-21	01:32	58.8				Measured Noise Level<Baseline	Fine	0.9
26-Nov-21	02:05	59.9				Measured Noise Level<Baseline	Fine	0.4

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

### 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)
07-Aug-21	01:20	58.5	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	02:15	61.8				Measured Noise Level<Baseline	Fine	0.6
19-Aug-21	23:38	54.0				Measured Noise Level<Limit Level	Fine	0.6
27-Aug-21	02:10	58.0				Measured Noise Level<Baseline	Fine	0.2
03-Sep-21	23:42	58.9				Measured Noise Level<Baseline	Fine	0.6
10-Sep-21	02:43	57.2				Measured Noise Level<Baseline	Fine	0.7
16-Sep-21	23:44	55.3				Measured Noise Level<Baseline	Fine	0.6
23-Sep-21	23:39	59.8				Measured Noise Level<Baseline	Fine	0.3
29-Sep-21	23:39	54.6				Measured Noise Level<Limit Level	Fine	1.3
07-Oct-21	23:44	59.2				Measured Noise Level<Baseline	Overcast	1.2
12-Oct-21	02:33	58.4				Measured Noise Level<Baseline	Overcast	2.8
22-Oct-21	01:59	55.8				Measured Noise Level<Baseline	Fine	1.2
29-Oct-21	02:13	55.3				Measured Noise Level<Baseline	Fine	0.8
05-Nov-21	01:13	55.9				Measured Noise Level<Baseline	Fine	0.6
12-Nov-21	01:52	53.3				Measured Noise Level<Limit Level	Fine	0.6
19-Nov-21	01:15	56.0				Measured Noise Level<Baseline	Fine	0.7
26-Nov-21	02:28	57.8				Measured Noise Level<Baseline	Fine	0.4

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)
07-Aug-21	00:44	60.0	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Overcast	0.5
13-Aug-21	02:00	61.9				48.4*	Fine	0.6
20-Aug-21	00:31	60.2				Measured Noise Level<Baseline	Fine	0.5
27-Aug-21	01:55	57.3				Measured Noise Level<Baseline	Fine	0.6
03-Sep-21	00:42	59.4				Measured Noise Level<Baseline	Fine	0.6
10-Sep-21	01:59	61.2				Measured Noise Level<Baseline	Fine	0.0
17-Sep-21	00:48	60.3				Measured Noise Level<Baseline	Fine	0.5
24-Sep-21	01:45	59.9				Measured Noise Level<Baseline	Fine	0.4
30-Sep-21	00:49	60.7				Measured Noise Level<Baseline	Fine	0.5
08-Oct-21	02:06	62.0				50.2*	Overcast	1.0
12-Oct-21	01:40	57.3				Measured Noise Level<Baseline	Overcast	2.2
22-Oct-21	02:04	61.4				Measured Noise Level<Baseline	Fine	0.9
29-Oct-21	02:15	61.6				Measured Noise Level<Baseline	Fine	0.5
05-Nov-21	00:49	61.0				Measured Noise Level<Baseline	Fine	0.6
12-Nov-21	02:01	58.4				Measured Noise Level<Baseline	Fine	1.2
19-Nov-21	00:38	60.8				Measured Noise Level<Baseline	Fine	0.6
26-Nov-21	02:20	58.7				Measured Noise Level<Baseline	Fine	0.5

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

**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)
07-Aug-21	01:03	54.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Overcast	0.4
13-Aug-21	02:20	56.0				Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	00:50	54.3				Measured Noise Level<Limit Level	Fine	0.8
27-Aug-21	01:37	52.3				Measured Noise Level<Limit Level	Fine	0.6
03-Sep-21	00:59	53.6				Measured Noise Level<Limit Level	Fine	0.5
10-Sep-21	02:17	56.8				Measured Noise Level<Baseline	Fine	0.0
17-Sep-21	01:06	54.5				Measured Noise Level<Limit Level	Fine	0.8
24-Sep-21	02:03	57.2				Measured Noise Level<Baseline	Fine	0.7
30-Sep-21	01:09	54.6				Measured Noise Level<Limit Level	Fine	0.5
08-Oct-21	02:26	57.9				44.4*	Overcast	0.7
12-Oct-21	02:01	53.9				Measured Noise Level<Limit Level	Overcast	2.7
22-Oct-21	02:24	54.0				Measured Noise Level<Limit Level	Fine	0.7
29-Oct-21	02:33	55.3				Measured Noise Level<Baseline	Fine	0.5
05-Nov-21	01:09	53.8				Measured Noise Level<Limit Level	Fine	0.5
12-Nov-21	02:20	53.3				Measured Noise Level<Limit Level	Fine	0.9
19-Nov-21	00:58	55.5				Measured Noise Level<Baseline	Fine	0.5
26-Nov-21	02:40	56.1				Measured Noise Level<Baseline	Fine	0.3

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

**NMS 23 Pai Tau**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-Aug-21	00:22	60.2	59.9	47.8 - 69.8	55	48.4*	Overcast	0.3
13-Aug-21	00:15	58.3				Measured Noise Level<Baseline	Fine	0.7
20-Aug-21	02:13	58.3				Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	00:13	60.0				43.6*	Fine	0.8
03-Sep-21	01:29	57.9				Measured Noise Level<Baseline	Fine	0.6
10-Sep-21	00:38	60.2				47.9*	Fine	0.8
17-Sep-21	02:20	57.2				Measured Noise Level<Baseline	Fine	0.6
24-Sep-21	01:53	60.8				53.5*	Fine	0.9
30-Sep-21	01:31	56.3				Measured Noise Level<Baseline	Fine	0.7
08-Oct-21	01:59	60.5				51.6*	Overcast	1.3
12-Oct-21	00:22	59.7				Measured Noise Level<Baseline	Overcast	2.1
22-Oct-21	00:09	61.2				55.3*	Fine	1.0
29-Oct-21	00:15	60.2				48.4*	Fine	0.3
05-Nov-21	02:23	57.3				Measured Noise Level<Baseline	Fine	0.6
12-Nov-21	00:08	58.5				Measured Noise Level<Baseline	Fine	0.8
19-Nov-21	02:24	60.3				49.7*	Fine	0.9
26-Nov-21	00:16	60.5				51.6*	Fine	1.1

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 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)
06-Aug-21	23:55	58.3	58.0	50.2 - 66.7	55	46.5*	Overcast	0.6
13-Aug-21	00:30	58.8				51.1*	Fine	0.4
19-Aug-21	23:39	58.5				48.9*	Fine	0.6
27-Aug-21	00:21	57.9				Measured Noise Level<Baseline	Fine	0.5
02-Sep-21	23:57	59.2				53.2*	Fine	0.5
10-Sep-21	00:48	57.3				Measured Noise Level<Baseline	Fine	0.4
17-Sep-21	00:04	58.7				50.7*	Fine	0.5
24-Sep-21	00:45	58.7				50.7*	Fine	0.8
30-Sep-21	00:02	58.4				47.9*	Fine	0.5
08-Oct-21	00:43	58.4				47.8*	Overcast	0.9
12-Oct-21	02:31	54.7				Measured Noise Level<Limit Level	Overcast	2.8
22-Oct-21	00:42	58.3				46.5*	Fine	0.8
29-Oct-21	01:00	58.6				49.7*	Fine	0.6
04-Nov-21	23:50	56.4				Measured Noise Level<Baseline	Fine	0.9
12-Nov-21	00:48	58.4				47.8*	Fine	1.0
18-Nov-21	23:48	56.5				Measured Noise Level<Baseline	Fine	0.9
26-Nov-21	01:00	57.8				Measured Noise Level<Baseline	Fine	1.0

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

### NMS 25A Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-Aug-21	02:03	55.9	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:32	57.1				Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	01:08	57.8				Measured Noise Level<Baseline	Fine	0.6
27-Aug-21	00:32	54.9				Measured Noise Level<Limit Level	Fine	0.4
03-Sep-21	02:11	52.0				Measured Noise Level<Limit Level	Fine	0.6
10-Sep-21	00:59	52.3				Measured Noise Level<Limit Level	Fine	0.4
17-Sep-21	02:15	56.6				Measured Noise Level<Baseline	Fine	0.5
24-Sep-21	01:32	53.9				Measured Noise Level<Limit Level	Fine	0.4
30-Sep-21	02:11	58.0				Measured Noise Level<Baseline	Fine	0.7
08-Oct-21	01:38	59.8				43.4*	Overcast	1.0
12-Oct-21	00:42	54.2				Measured Noise Level<Limit Level	Overcast	3.1
22-Oct-21	00:29	56.0				Measured Noise Level<Baseline	Fine	0.7
29-Oct-21	00:36	51.8				Measured Noise Level<Limit Level	Fine	0.4
05-Nov-21	02:16	54.0				Measured Noise Level<Limit Level	Fine	0.9
12-Nov-21	02:56	55.7				Measured Noise Level<Baseline	Fine	0.7
19-Nov-21	02:03	56.4				Measured Noise Level<Baseline	Fine	0.9
26-Nov-21	00:44	55.1				Measured Noise Level<Baseline	Fine	0.4

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

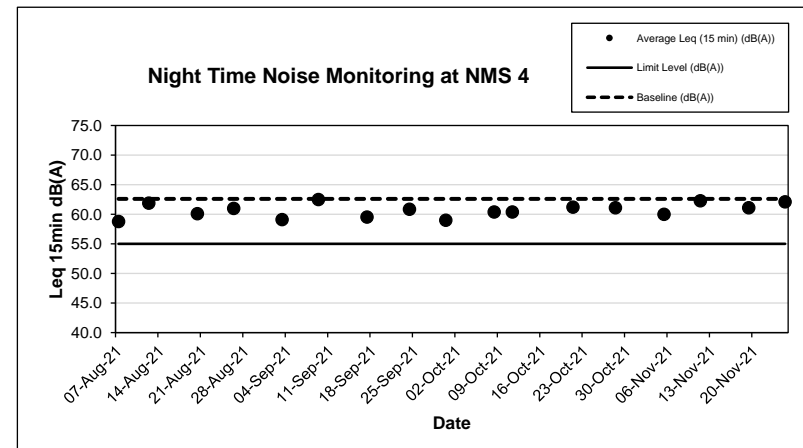
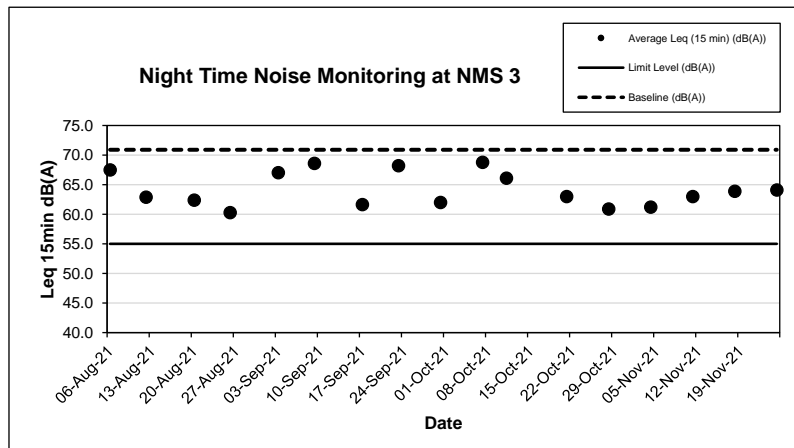
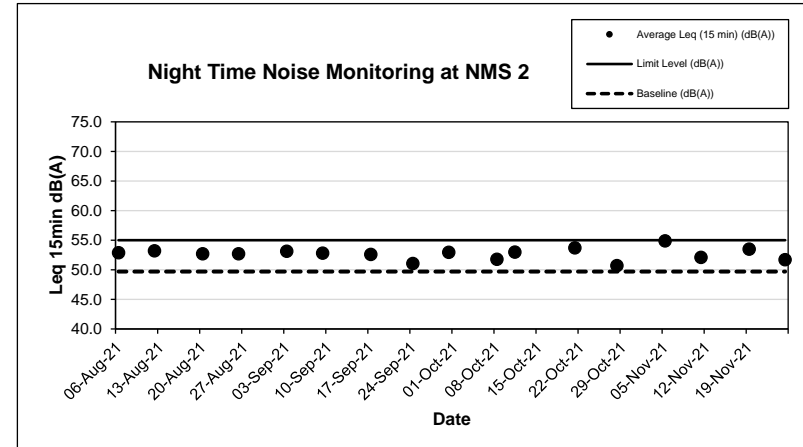
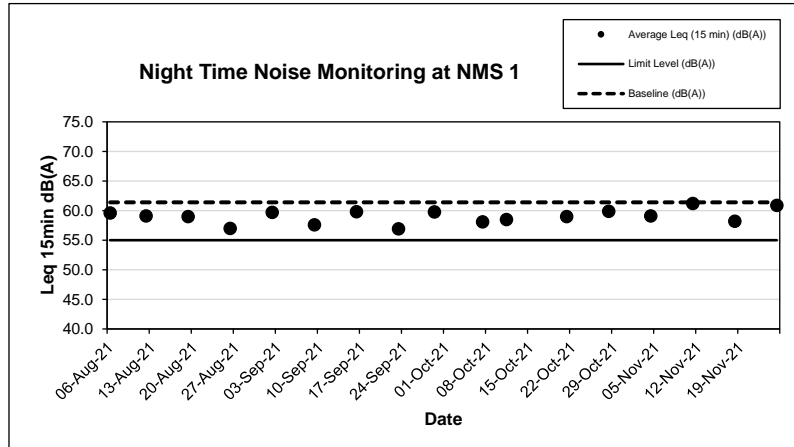
### NMS 26 Wo Che Estate

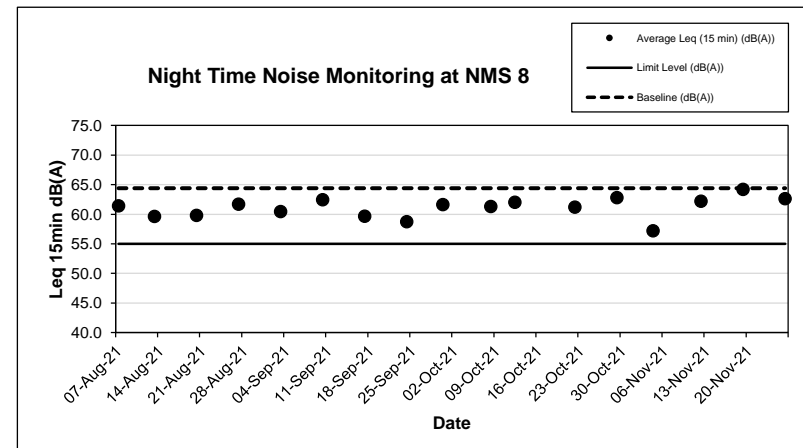
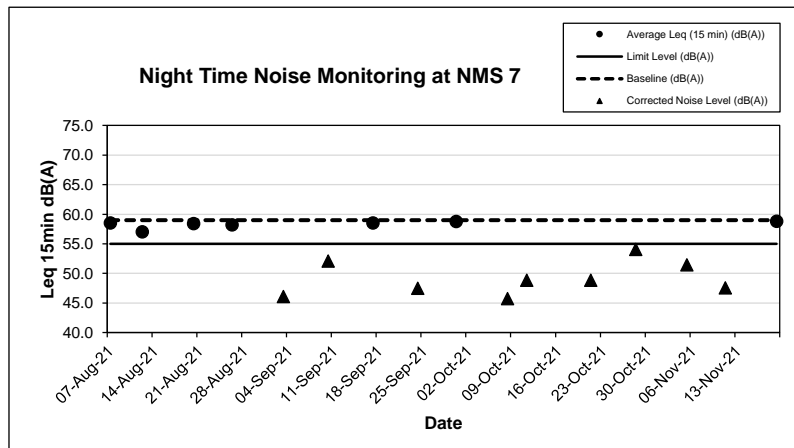
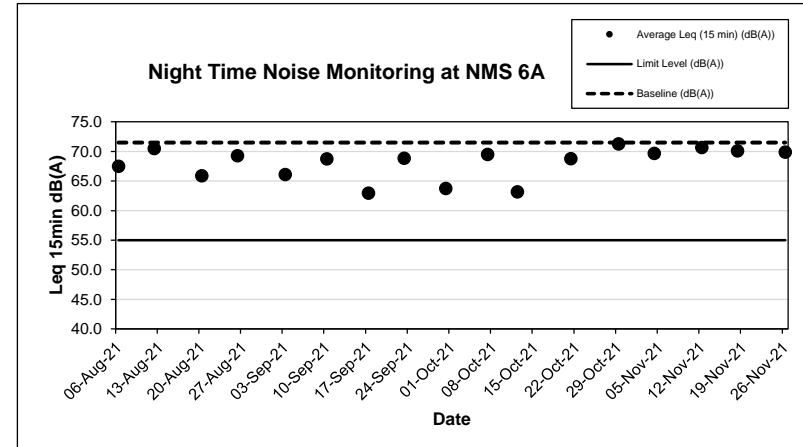
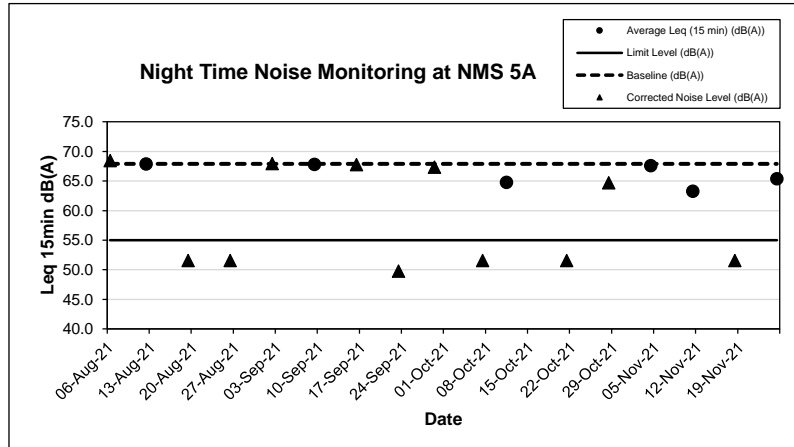
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-Aug-21	01:43	60.4	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Overcast	0.8
13-Aug-21	02:40	61.0				Measured Noise Level<Baseline	Fine	0.9
20-Aug-21	00:01	61.0				Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	02:30	60.2				Measured Noise Level<Baseline	Fine	0.4
02-Sep-21	23:21	61.0				Measured Noise Level<Baseline	Fine	1.3
10-Sep-21	03:02	60.9				Measured Noise Level<Baseline	Fine	0.5
17-Sep-21	00:10	59.7				Measured Noise Level<Baseline	Fine	0.4
23-Sep-21	23:18	61.5				49.4*	Fine	1.1
30-Sep-21	00:07	60.0				Measured Noise Level<Baseline	Fine	0.9
07-Oct-21	23:21	61.7				52.1*	Overcast	1.6
12-Oct-21	03:02	60.6				Measured Noise Level<Baseline	Overcast	2.3
22-Oct-21	02:54	60.6				Measured Noise Level<Baseline	Fine	0.5
29-Oct-21	02:38	61.7				52.1*	Fine	0.6
05-Nov-21	00:54	60.5				Measured Noise Level<Baseline	Fine	0.6
12-Nov-21	02:29	59.5				Measured Noise Level<Baseline	Fine	1.2
19-Nov-21	00:53	61.3				44.9*	Fine	0.5
26-Nov-21	03:07	60.5				Measured Noise Level<Baseline	Fine	0.5

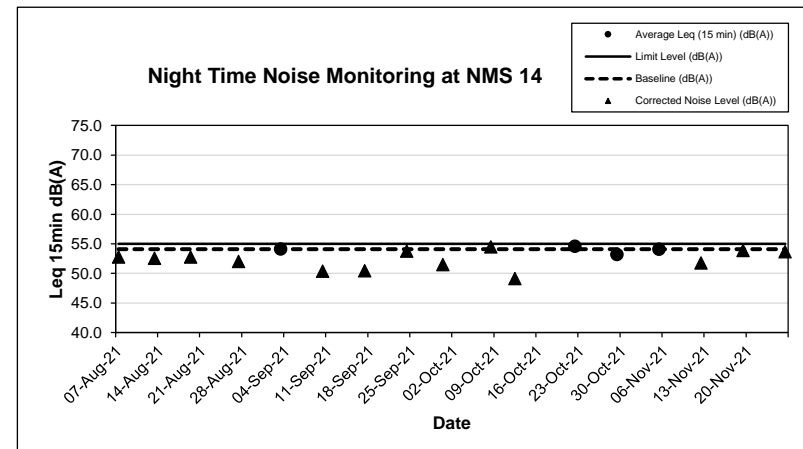
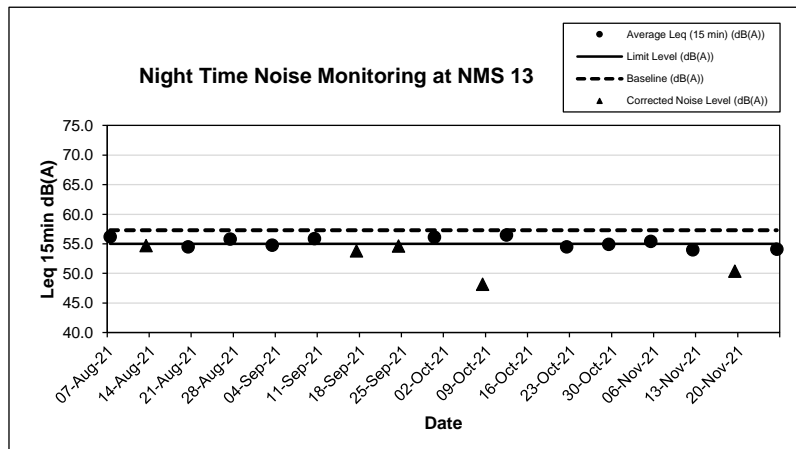
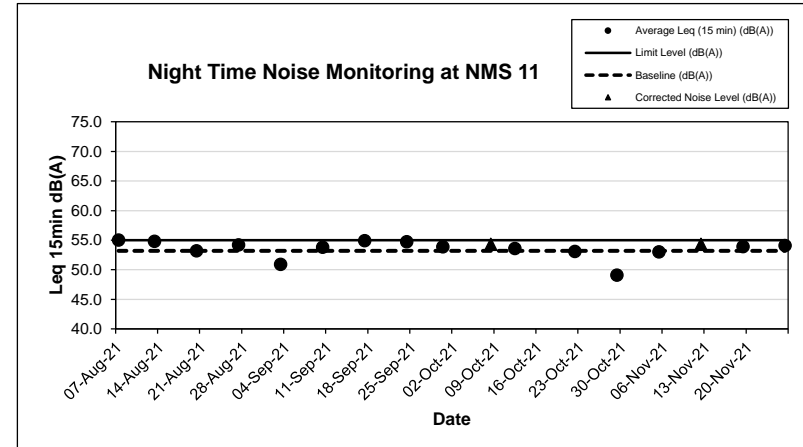
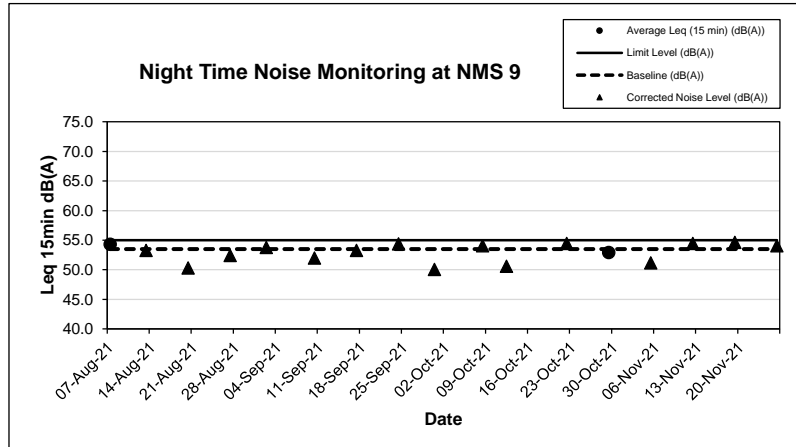
Note: \*Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

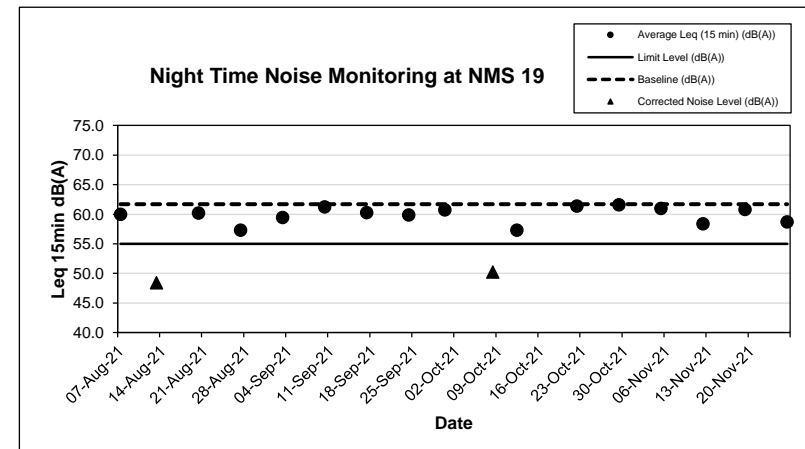
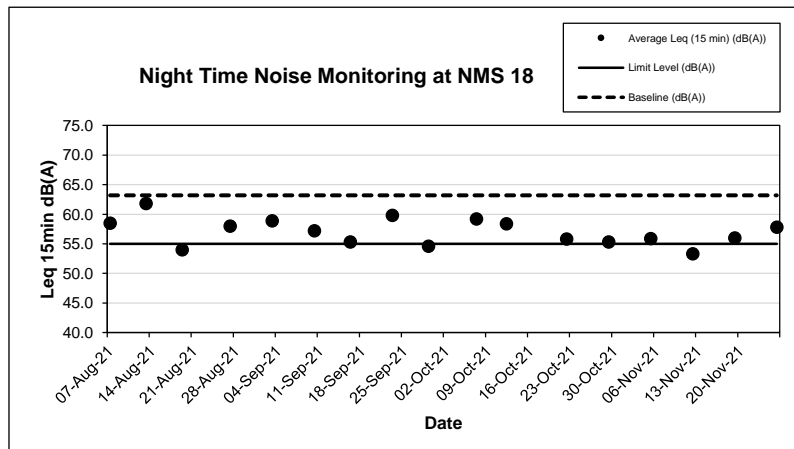
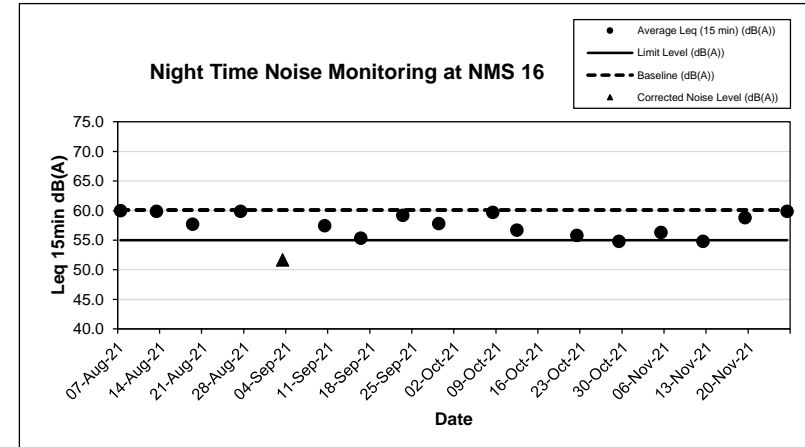
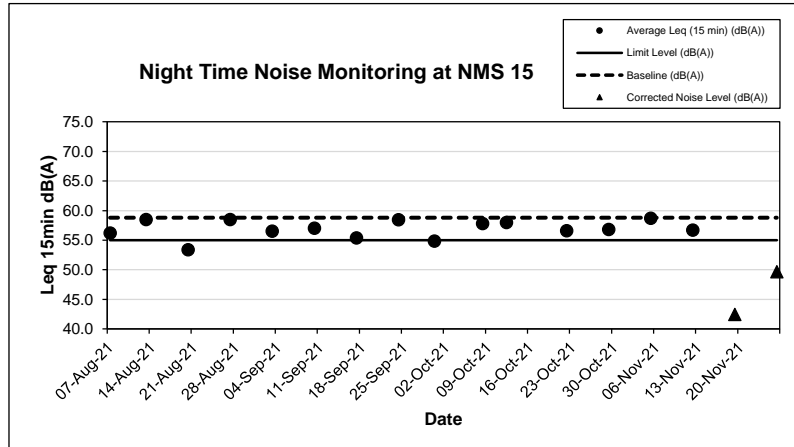
If measured noise level ( $L_{eq}$ ) > limit level, Corrected noise level (CNL) is calculated as:

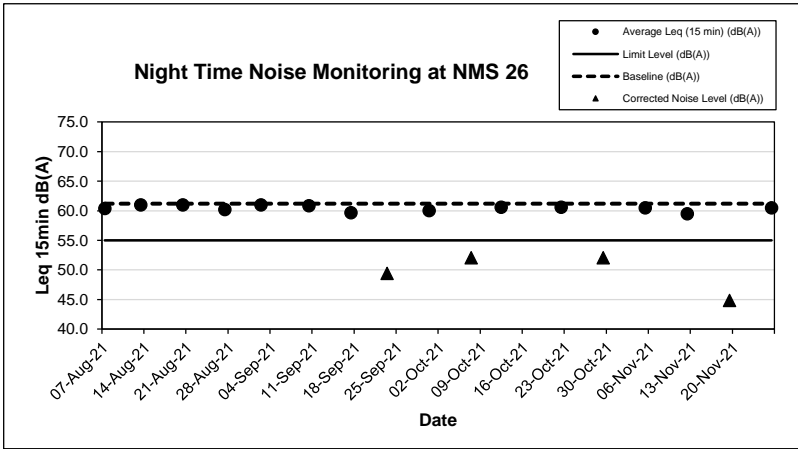
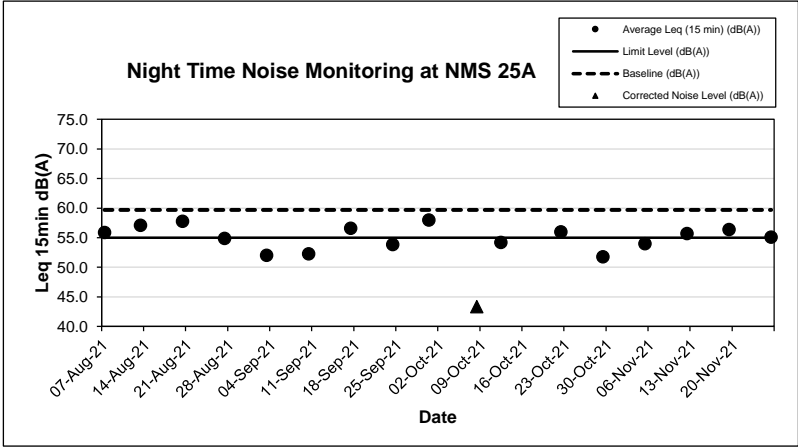
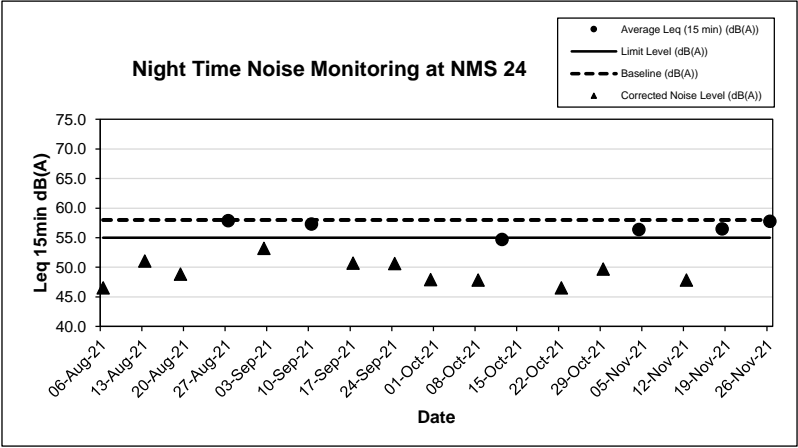
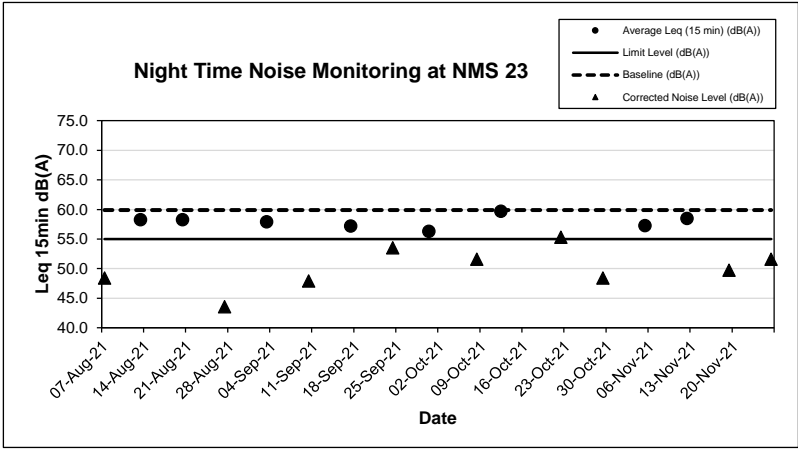
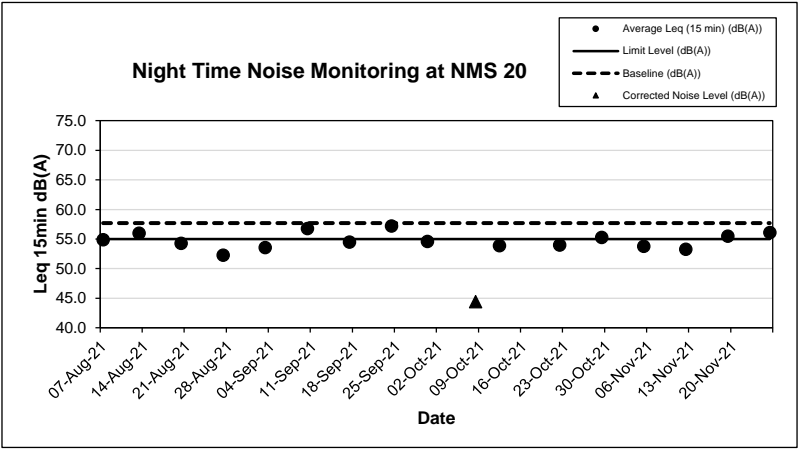
$$10 \times \log \left[ \left( 10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left( 10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$











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## Appendix E

### Waste Flow Table



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Waste Flow Table for Year 2018											
Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics <sup>2</sup>	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(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>

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Waste Flow Table for Year 2019											
Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics <sup>2</sup>	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(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>

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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
Sub-Total	7.332	0.000	0.075	0.000	7.257	0.498	0.006	0.189	0.016	0.000	0.206
2020 Jul	2.008	0.000	0.014	0.000	1.994	0.000	0.002	0.047	0.006	0.000	0.067
2020 Aug	2.215	0.000	0.018	0.000	2.197	0.000	0.001	0.040	0.006	0.000	0.014
2020 Sep	4.305	0.000	0.000	0.000	4.305	0.000	0.002	0.042	0.009	0.000	0.044
2020 Oct	3.073	0.000	0.002	0.000	3.071	0.000	0.001	0.019	0.005	0.000	0.029
2020 Nov	1.670	0.000	0.000	0.000	1.670	0.000	0.001	0.030	0.006	0.000	0.036
2020 Dec	3.498	0.000	0.000	0.000	3.498	0.000	24.751	0.036	0.006	0.000	0.042
Total	24.101	0.000	0.109	0.000	23.992	0.498	24.764	0.403	0.054	0.000	0.438

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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	0.000	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											
<b>Total</b>	<b>34.084</b>	<b>0.000</b>	<b>0.476</b>	<b>0.000</b>	<b>33.608</b>	<b>0.866</b>	<b>0.015</b>	<b>0.328</b>	<b>2.543</b>	<b>0.000</b>	<b>0.631</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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### **Appendix F**

#### **Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions**

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## Environmental Complaints Log

Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
COM-2019-005	2/2/2019	EPD	Noise	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional ad-hoc noise monitoring on 19:00 14th February 2019 to 07:00 15 <sup>th</sup> February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact.	Project-related	Closed
COM-2019-006	22/2/2019	Project Hotline of NE/2017/05	Noise	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.	Project-related	Closed
COM-2019-0010	28/3/2019	Project Hotline of NE/2017/05	Noise.	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during	Project-non related	Closed

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				restricted hour.		
COM-2019-0033	26/7/2019	Police visit on-site	Noise	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.	Project-non related	Closed
COM-2019-0045	30/8/2019	1823	Noise	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 $\leq 10$ kg (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	Project-related	Closed
COM-2019-0056	9/10/2019	Project Hotline of NE/2017/05 and EPD	Noise	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	Project-related	Closed

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				covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.		
COM-2019-0057	9/10/2019	EPD	Noise	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.	Project-related	Closed
COM-2019-0066	6/11/2019	EPD	Noise	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.	Project-related	Closed
COM-2020-0083	29/02/2020	Project email of NE/2017/05	Noise and Dust	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. Contractor was reminded to enhance the water spray frequency on the construction site for mitigation measures on dust control. Also, Contractor should provide green tarpaulin curtain and additional acoustic Sound Proof Canvas as a secondary layer at the bottom of the mini-pile drilling machine to secure the total enclose condition to minimize the visual and noise impacts to nearby NSRs.	Project-non related	Closed
COM-2020-0089	24/03/2020	Project hotline	Noise	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. Loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24 <sup>th</sup> Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for	Project-non related	Closed



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				the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PME 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.		
COM-2020-0090	27/03/2020	Project hotline	Noise	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.	Project-non related	Closed
COM-2020-0091	28/03/2020					
COM-2020-0093	06/04/2020	Project hotline	Noise	The complaint case on 6 <sup>th</sup> Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 <sup>th</sup> April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night	Project-non related	Closed

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				time limit 55dB (A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement.		
COM-2020-0096	20/04/2020	Project hotline	Noise	<p>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 20th Apr 2020 at 10:57 a.m. and 21st Apr 2020 at 9:03 a.m., while the other one was through project email on 20th 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.</p> <p>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 20th &amp; 21st 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 20th and 21st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22nd 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 22nd Apr 2020 was similar to 20th and 21st Apr 2020. Therefore, ET's day-time monitoring result on 22nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20th and 21st April 2020.</p>	Project-non related	Closed
COM-2020-0097	20/04/2020	Project Email				
COM-2020-0098	21/04/2020	Project hotline				
COM-2020-0099	21/04/2020	Project hotline	Noise	<p>The complaint cases on 21<sup>st</sup> Apr 2020 was received by project hotline from Police.</p> <p>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</p>	Project-non related	Closed

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				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.		
COM-2020-0100	23/04/2020	Project hotline	Noise	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.	Project-non related	Closed
COM-2020-0101	28/04/2020	1823 (CASE#3-	Noise	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	Project-non	Closed

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		631675981 7)		works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. The major construction works was road surface remedial work since 15 <sup>th</sup> April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road surface remedial works on 27 <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.	related	
COM-2020-0151	10/11/2020	EPD (EPD ref.: RN25799- 20)	Water	The complainant on 10 <sup>th</sup> November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00. The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the	Project- non related	Closed

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				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 to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes.		
COM-2020-153	20/11/2020	1823 (CASE#3-656139346 5)	Noise	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. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.	Project related	Closed

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0064/18/ED/0546A	24/11/2020	EPD	Water	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 comply 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.	Project related	Closed
COM-2020-154	27/11/2020	1823 (CASE#3-6561393465)	Noise	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> and 27 <sup>th</sup> November 2020. The major construction works were works related to removal of central median (at night-time) under the approved road closure with CNP no.GW-RN0799-20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 <sup>th</sup> November 2020 through logging in the webpage of EPD before the commencement of the construction work in relation to the CNP GW-RN0799-20 (conditions 3.d.11 and 4.d.8). The Main Contractor provided photo records showing that mitigation measures of the movable acoustic 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	Project Related	Closed

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				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	30/11/2020	1823 (CASE#3-656631592 2)	Dust	<p>According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Lok King Street near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in November were mini-piling works and slope works of soil replacement. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring in November 2020 and on the 3rd December 2020 at selected air monitoring stations AMS6, 8, 11A &amp; 13 and AMS5, 4A, 7A &amp; 12 respectively.</p> <p>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 in November 2020 and on the 3rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to enhance the mitigation measures in dust control such as increase the water spray frequency at the construction site to suppress dust emission. The Main Contractor proposed to properly maintain the coverings on exposed slopes and keep them in good condition for minimizing dust impact. The Main Contractor proposed to frequently spraying of haul road especially at area where active movement of vehicles and pave the haul road where necessary to reduce dust impact.</p>	Project Related	Closed

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COM-2020-157	07/12/2020	STDC	Dust	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 on the 3rd, 9th & 15th 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 3rd, 9th & 15th December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact. The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur.	Project Related	Closed
COM-2020-161	18/12/2020	EPD	Noise	The complaint was received via email notification by EPD on 18th December 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate during night-time on 7 <sup>th</sup> & 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> & 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. 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	Project Related	Closed



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				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 at all noise monitoring stations, especially measured at six noise monitoring stations where locate close to the works area (Sha Tin station to nearby Fung Wo Estate in Zone 4), the measured result at NMS16, NMS18 and NMS26 were lower than that of measured in 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	Dust	A complainant who did not wish to disclose his identity called 1823 hotline on 22nd February 2021 regarding the dust nuisance at slip road to Fo Tan Road. A repetitive case with reference no. 3-6566315922 was referred to the Main Contractor of the captioned Project and ET on 23rd February 2021. According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in February 2021 was mini-piling works. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to minimize the dust impact. The Main Contractor proposed to reduce the	Project Related	Closed

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				exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.		
COM-2020-168	20/02/2021	1823	Noise	The complaint was received via 1823 on 20 <sup>th</sup> February 2021 01:00am concerning about the night-time construction works near Sha Tin Police Station at 19 <sup>th</sup> 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> February 2021. The major construction works were lane shifting works conducted on 19 <sup>th</sup> February 2021 at night-time under approved road closure setup with in-force Construction Noise Permit (CNP) no.GW-RN0798-020. According to the Main Contractor, since Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. According to the Main Contractor, no concurrent operation of Power Mechanical Equipment (PME) and idling were switched off during the loading and unloading of materials and rubble by manual handling of road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 25 <sup>th</sup> February to 03:00 26 <sup>th</sup> February 2021. The five noise monitoring stations close to the complaint receiving area of Zone 3 & 4 are NMS13, NMS14, NMS15, NMS16 & NMS26. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at five noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured result at NMS15, NMS16 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13 and NMS14 were lower than that of the limit level in 55 dB(A). The Main Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0798-20) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during the restricted hour.	Project Related	Closed
COM-2021-0170	03/03/2021	1823	Dust and Noise	The complaint on 3 <sup>rd</sup> March 2021 at 1:25 pm complained about the noise, dust and nuisance generated and insufficient dust mitigation works during the night-time	Project Related	Closed

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				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 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	Noise	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 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	Project Related	Closed

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				sight from the engine or noise emission part to the nearby NSRs when using PMEs.		
COM-2021-0193	09/05/2021	1823	Noise	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 & 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) $L_{eq}$ (30 minutes) at the facade of dwellings and 70 dB(A) $L_{eq}$ (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 the line of sight from the engine and noise emission parts to the nearby NSRs.	Project Related	Closed
COM-2021-0200 and COM-2021-0202	07/06/2021	1823	Noise	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	Project Related	Closed

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				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) $L_{eq(30\text{ minutes})}$ at the facade of dwellings and 70 dB(A) $L_{eq(30\text{ minutes})}$ 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 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	Air (Odour)	A resident of Paris Park Villa complained about the poor air quality around his living area between 19 <sup>th</sup> and 26 <sup>th</sup> 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.	Project Non-Related	Closed

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				<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 (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).</p> <p>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, pilling 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</p>		

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				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.		
DSD Ref: MS 8/0/CE2815 /0 pt.6	01/09/2021	DSD	Water	<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</p>	Project Related	Closed

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				<p>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 inspections 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. Observations, recommendations and reminders proposed by the EPIs and ET are grouped and shown in Appendix M.</p> <p>Rectification has 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 piling works can be restarted. However, EPIs reminded that the 2nd piling machine can only be operated until the 2nd WetSep is functioning 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 piling 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 piling 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 cases from happening in the future.</p>		



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				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 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	28/10/2021	EPD	Noise	<p>A complaint was received by the EPD Regional Office (North) on 28<sup>th</sup> October 2021. The complainant was 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 follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the</p>	Project Related	Closed

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				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	05/11/2021	1823	Noise	<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, 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</p>	Project Related	Closed

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				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 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.		
EPD ref.: RN25674- 21	17/11/2021	EPD	Noise	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. 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> and 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 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. 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 send to EPD on 12 <sup>th</sup> November 2021 and Notice to Affected Residents – PN162	Project Related	Closed

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				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.		
COM-2021-0262	20/11/2021	1823	Noise	<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. 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 Arrangement (TTA) implementation, asphalt removal, unloading and handling of asphalt during pavement, asphalt compaction, 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 send 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.</p>	Project Related	Closed
COM-2021-0263	26/11/2021	1823	Noise	<p>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</p>	Project Related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				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 send 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.		
COM-2021-0264	24/11/2021	1823	Noise	<p>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 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> 24<sup>th</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 Arrangement (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, constriction time period, PMEs type and groups and mitigation measures. While prior notification was send 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>	Project Related	Closed

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### Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints in the Reporting Period			Cumulative Project-to-Date
		Sep 2021	Oct 2021	Nov 2021	
Air	5	0	0	0	5
Noise	27	0	1	5	33
Water	2	1	0	0	3
Waste	0	0	0	0	0
<b>Total</b>	<b>33*</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>40*</b>

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

### Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Reporting Period			Cumulative Project-to-Date
		Sep 2021	Oct 2021	Nov 2021	
Air	0	0	0	0	0
Noise	0	0	0	0	0
Water	0	0	0	0	0
Waste	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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### **Appendix G**

#### **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	Partially 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	Partially 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

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		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Implemented
		• 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	Partially 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	Not Applicable
<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
<b>Air Quality Measures</b>				
<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,	Contractor	Implemented

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		especially during the dry season (October to December). It is also suggested that watering with 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
4.12.1		• 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
		• 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	Partially 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	Contractor	Implemented

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		and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.		
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
<b>Water Quality Measures</b>				
		• 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	Partially Implemented
5.7	Within the boundaries of all construction sites.	• 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	Partially 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	Partially 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	Contractor	Partially Implemented

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		constructed prior to the commencement of site formation and earthworks.		
		<ul style="list-style-type: none"> <li>The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory.</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap.</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <li>The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals.</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should</li> </ul>	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
Section 12.6 of the Approved EIA Report		be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. Wastewater collected from canteen kitchens should be discharged to the foul sewers via grease traps which provide a minimum of 20 minutes retention during peak flow. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO.		
		• 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	Partially Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Partially Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Partially Implemented
		(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	Partially 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>				
Table 6.5	<b>Construction Phase</b>			

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase	
	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	
		• 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	

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		<ul style="list-style-type: none"> <li>Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible.</li> </ul>	Contractor	Not Applicable
<u>Waste Management Measures</u>				
7.6.2 to 7.6.4	Within the boundaries of all construction sites.	<ul style="list-style-type: none"> <li>In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.</li> </ul>	Contractor	Implemented
7.6.5 to 7.6.6		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Implemented
7.6.7	Within the boundaries of all construction sites as well as transportation routes to designed areas for off-site disposal	<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Implemented
7.6.8 to 7.6.9		<ul style="list-style-type: none"> <li>The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include:</li> </ul>		
		<ul style="list-style-type: none"> <li>A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>The environmental performance of the contractor and his sub-contractors;</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and</li> </ul>	Contractor	Implemented

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7.6.10	of materials/Prior to and during construction activities.	<ul style="list-style-type: none"> <li>The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&amp;D materials and non-inert C&amp;D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.</li> </ul>	Contractor	Implemented
		<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	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

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<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	Partially Implemented
		<ul style="list-style-type: none"> <li>have a capacity of less than 450L unless the specifications have been approved by the EPD; and</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).</li> </ul>	Contractor	Partially Implemented
		The storage area for chemical wastes should:		
		<ul style="list-style-type: none"> <li>be clearly labelled and used solely for the storage of chemical waste;</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>be enclosed on at least 3 sides;</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>have adequate ventilation;</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and</li> </ul>	Contractor	Partially Implemented
		<ul style="list-style-type: none"> <li>be arranged so that incompatible materials are adequately separated.</li> </ul>	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other 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:		
		<ul style="list-style-type: none"> <li>via a licensed waste collector; and</li> </ul>	Contractor	Implemented
<ul style="list-style-type: none"> <li>to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or</li> </ul>	Contractor	Implemented		
<ul style="list-style-type: none"> <li>to a reuser of the waste, under approval from EPD.</li> </ul>	Contractor	Not Applicable		
7.6.18 to 7.6.20		<ul style="list-style-type: none"> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed</li> </ul>	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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.		
		• 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 requirements.	Contractor	Implemented
		• 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>	<b><i>General Condition</i></b>			
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 any 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