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Report No.: 0064/18/ED/0769A

MONTHLY EM&A REPORT

June 2023

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/0769A	

Prepared by :

Toby Wan

Reviewed by : **Calvin Leung**

Certified by 2

14 win P 0

Calvin Leung **Environmental Team Leader** Fugro Technical Services Limited

A Fugro Group Company



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



Our ref: PL-202307020

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

Attention: Mr. Joseph YAN

13 July 2023

Dear Joseph,

NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for June 2023

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0769A, I have no adverse comment on it and verify this monthly report according to section 1.9 of the Environmental Permit with Permit No. EP- 463/2013/B.

Yours faithfully,

Li Wai Ming Kevin Independent Environmental Checker

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



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EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 June 2023 and 30 June 2023. As informed by the Contractor, major activities in the reporting month were summarized as below table:

Zone 1 Zone 2		Zone 3	Zone 4	Zone 5
 Trial pits excavation Road surface Maintenance Noise Barrier Foundation Works Slope Reinstatement and Drainage Works Noise Barrier Erection Works Relocation of Existing Fire Hydrants and relating Watermains Reinstatement of cycling track 	 Trial pits excavation Road surface Maintenance Noise Barrier Erection Works Noise Barrier Foundation Works Relocation of Existing Fire Hydrants and relating Watermains 	 Tree Works (preservation / felling/ pruning/ transplantation) Road surface Maintenance Reinstatement of footpath and cycle track Construction of Retaining Wall and Erection of Parapet Lift no.2 Installation + SR5 Foundation Works + Construction of [former staircase] Abutment Wall Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works Construction Works for Lift no.1 Construction Works N262 Bridge Deck Widening Relocation of Existing Fire Hydrants and relating Watermains Noise Barrier Foundation Works + Drainage Works 	 Road surface Maintenance Piling Construction Works + Road Drainage Works Noise Barrier Foundation Works Relocation of Existing Fire Hydrants and relating Watermains Reinstatement of cycling track 	 Road surface Maintenance Piling Construction Works + Road Drainage Works Noise Barrier Foundation Works Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope Reinstatement Works for Traffic Island Noise Barrier Erection Works Relocation of Existing Fire Hydrants and relating Watermains

Breaches of the Action and Limit Levels

- iii. 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- iv. Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- v. Regular night time noise monitoring was carried out on 1, 6, 15, 20 and 29 June 2023 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.



Complaint, Notification of Summons and Successful Prosecution

- vi. One complaint was received in the report month. The summaries are listed below:
 - A complaint was received by 1823 (CASE#3-7780620261) on 30th June 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Wai Wah Centre.
- vii. According to DSD's information, blockage of existing sewage occurred at Pai Tau Village on 12 June 2023. DSD carried out investigation and found that an existing manhole no. FMH4089640 near Tai Po Road within the site of CEDD contract no. NE/2017/05 was blocked by hard materials. This leads to sewerage overflow at Pau Tak Village. Details report for blockage of sewer manhole was shown in **Appendix N**.

Environmental Non-Compliance

- viii. Two non-compliance were found in the report month. The summaries are listed below:
 - 1. A non-compliance was found by ET on 8th June 2023 (Photos are shown in **Appendix O**). Three untreated muddy water discharge were found during the site inspection. At Zone 3, a blue pipe was found and connected with the drainage system, no treatment facility was found near by the pump and blue pipe. At Zone 4, N4, untreated muddy water surface run-off was observed, the water directly discharges into a guile without any treatment. At Zone 4, N4, untreated muddy water discharge was found through the blue pipe to the MTR area, no treatment facility was found near by the pump and blue pipe.
 - 2. A non-compliance was found by ET on 29th June 2023 (Photos are shown in **Appendix O**). An untreated muddy water discharge was found during the site inspection. At Zone 4, N4, the pump and blue pipe were found not connected to the sedimentation tank nearby. Untreated muddy water discharge was found through the blue pipe to the MTR area. The illegal discharge was stop by RE and ET immediately.

Reporting Changes

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

Future Key Issues

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

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



1. INTRODUCTION

1.1 Background

- 1.1.1 Contract No. NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Contract"), is the Works Contract involved the construction of road widening and retrofitting noise barriers on TPR-ST.
- 1.1.2 The Works of road widening on TPR-ST is classified as a designated project (DP) under the Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). The scale and scope of DP is classified as below:
 - Widening and reconstruction of an approximate 1.2 km long of the existing Tai Po Road (Sha Tin Section) from dual 2-lane to dual 3-lane carriageway; and improvement of the existing Sha Tin Rural Committee Road and its junctions.
- 1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-463/2013/B) and the updated EM&A Manual (Reference No.: 0064/18/ED/0122D). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:
 - (i) Road widening works of TPR-ST:
 - a. widening of TPR-ST of about 1.1 kilometres between Sha Tin Rural Committee Road (STRCR) and Fo Tan Road from dual two-lane to dual three-lane;
 - b.modification to the existing diamond interchange at TPR-ST / STRCR (STRCR Interchange);
 - c. provision of two pedestrian lifts, re-provision of staircase and cycle track ramp at the modified STRCR Interchange;
 - d. modification of existing cycle track subway no. NS30 near Sha Tin Plaza;
 - e. modification of the existing footbridge no. NF40 across TPR-ST near Wo Che Street;
 - f. modification of the existing footbridge no. NF66 near Fung Wo Lane;
 - g. installation of noise mitigation measures between Citylink Plaza and Mei Wo House of Wo Che Estate;
 - h.associated drainage works, waterworks, street lighting works and traffic control and surveillance system (TCSS).
 - (ii) Retrofitting of noise barriers along TPR-ST:
 - (a) western section between Citylink Plaza and Scenery Court;
 - (b) eastern section between Mei Wo House of Wo Che Estate and Fo Tan Road; and
 - (c) associated drainage works, waterworks and street lighting works.
 - (iii) Associated street furniture, road marking, traffic signs, directional signs, services and utilities, and
 - (iv) Associated landscaping works.
- 1.1.4 The location and boundary of the site is shown in **Figure 1**.



- 1.1.5 This Monthly EM&A report is required under EP-463/2013/B Condition 3.4. It is to report the results and findings of the EM&A programme required in the updated EM&A Manual.
- 1.1.6 This is the 55th monthly EM&A Report which summarized the impact monitoring results and audit findings for the construction of the road widening and retrofitting noise barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Project") within the period between 1 June 2023 and 30 June 2023.

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**.

Party	Position Name		Telephone		
Project Proponent (CEDD)	Senior Engineer	Mr. Joseph Yan	3152 3551		
Engineer's Representative (AECOM)	Chief Resident Engineer	Mr. Albert Yu	2276 0618		
IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture)	Independent Environmental Checker	Mr. Kevin Li	9779 2247		
Main Contractor (CCZJV)	Site Agent	Mr. S.Y. Wong	9257 8521		
	Environmental Officer	Ms. Ymen Wong	5267 6087		
	Environmental Team Leader	Mr. Calvin Leung	3565 4441		
ET (FTS)	Environmental Team Member	Mr. Toby Wan	3656 4450		

Table 1.1Contact Information of Key Personnel

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1.3 Construction Programme and Activities

- 1.3.1 This project was commenced on 29 November 2018 and the construction works is expected to be completed in year 2023. The construction programme is shown in **Appendix A.**
- 1.3.2 A summary of the major construction activities undertaken in the reporting month were shown in below table:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
 Trial pits excavation Road surface Maintenance Noise Barrier Foundation Works Slope Reinstatement and Drainage Works Noise Barrier Erection Works Relocation of Existing Fire Hydrants and relating Watermains Reinstatement of cycling track 	 Trial pits excavation Road surface Maintenance Noise Barrier Erection Works Noise Barrier Foundation Works Relocation of Existing Fire Hydrants and relating Watermains 	 Tree Works (preservation / felling/ pruning/ transplantation) Road surface Maintenance Reinstatement of footpath and cycle track Construction of Retaining Wall and Erection of Parapet Lift no.2 Installation + SR5 Foundation Works + Construction of [former staircase] Abutment Wall Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works Construction Works for Lift no.1 Construction Works for Lift no.1 Construction Works for Lift no.1 Relocation of Existing Fire Hydrants and relating Watermains Noise Barrier Foundation Works + Drainage Works 	 Road surface Maintenance Piling Construction Works + Road Drainage Works Noise Barrier Foundation Works Relocation of Existing Fire Hydrants and relating Watermains Reinstatement of cycling track 	 Road surface Maintenance Piling Construction Works + Road Drainage Works Noise Barrier Foundation Works Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope Reinstatement Works for Traffic Island Noise Barrier Erection Works Relocation of Existing Fire Hydrants and relating Watermains

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1.4 Status of Environmental Licenses, Notifications and Permits

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

Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	06/11/2018	Nil
Effluent Discharge License (Zone 1 – 5)	WT00032446-2018	09/11/2018	30/11/2023
Effluent Discharge License (Shui Chong Street)	WT00033829-2019	25/06/2019	30/06/2024
Construction Noise Permit for Road Closure, General Night Works (Zone $1-5$)	GW-RN0292-23	27/03/2023	26/06/2023
Construction Noise Permit for Road Closure, General Night Works (Zone 1 – 5)	GW-RN0627-23	27/06/2023	26/09/2023
Construction Noise Permit for Road Closure, General Night Works (Zone $1-5$)	GW-RN0514-23	16/05/2023	15/07/2023
Construction Noise Permit for 24 hours Water Pump (Zone 1 – 5)	GW-RN0287-23	01/04/2023	30/09/2023



2. AIR QUALITY

2.1 Monitoring Requirement

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

2.2 Monitoring Equipment

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

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

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS4	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114892
2	AMS7A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114893
3	AMS12	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114894
4	AMS17	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114895

Table 2.1 24-hour TSP Monitoring Equipment

*Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 5A, 7A, 14 and 15 portable Laser Particle Photometer Monitors will be utilized for 24-hour TSP monitoring instead of High Volume samplers (HVS). The correlation between HVS and the portable Laser Particle Photometer Monitors are presented in Appendix D.

Table 2.2 1-hour TSP Monitoring Equipment

Item	Location	Brand	Model Equipment		Serial Number
1	AMS4	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114892
2	AMS7A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114893
3	AMS12	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114894
4	AMS17	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114895

2.3 Monitoring Methodology

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

HVS Installation

The following guidelines were adopted during the installation of HVS:

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

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- Airflow around the samplers is unrestricted.
- The samplers are more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.

Filters Preparation

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

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

Operating / Analytical Procedures

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

- Prior to the commencement of the dust sampling, the flow rate of the HVS are properly set (between 0.6 m³/min and 1.7 m³/min) in accordance with the EM&A manual. The flow rate shall be indicated on the flow rate chart.
- The power supply shall be checked to ensure the samplers worked properly.
- On sampling, the samplers shall be operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station.
- The filter holding frame is then removed by loosening the four nuts and carefully a weighted and conditioned filter is centered with the stamped number upwards, on a supporting screen.
- The filter shall be aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame is tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid shall be closed and secured with the aluminum strip.
- The timer is then programmed. Information shall be recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter shall be removed and sent to laboratory for weighing. The elapsed time is also recorded.
- Before weighing, all filters are equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%. Weighing results are returned to MCL for further analysis of TSP concentrations collected by each filter.



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

Operating / Analytical Procedures

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

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

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

2.3.3 1-hour TSP air quality monitoring

Operating / Analytical Procedures

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

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

2.4 Maintenance / Calibration

2.4.1 24-hour TSP air quality monitoring

The following maintenance / calibration are required for the HVS:

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



- 1-hour TSP air quality monitoring 2.4.2
 - The portable TSP monitor should be calibrated at 1-year intervals.

2.5 **Monitoring Locations**

2.5.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind direction in June 2023 was southwest. The most updated locations are summarized in Table 2.3 and shown in Figure 2a.

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

Monitoring Location		Land uses
AMS4	Wai Wah Centre (Site Boundary)	Residential Village
AMS7A	Sheung Wo Che	Residential Village
AMS12	Fung Wo Estate	Residential Village
AMS17	Wo Che Estate	Residential Village

2.6 **Results and Observations**

- 2.6.1 The schedule of air quality monitoring in reporting month is provided in Appendix E.
- No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP at AMS 4, 7A, 12 2.6.2 and 17 in the reporting month.
- 2.6.3 During the reporting month, major dust sources included trial pits excavation, piling works. demolition of existing parapet, removal of existing staircase, road surface maintenance and ELS works were observed in the site. Other factors such as road traffic along Tai Po Road may affect the monitoring results.
- 2.6.4 The weather conditions during the monitoring are provided in Appendix K.
- 2.6.5 The monitoring data of 24-hr and 1-hr TSP are summarized in Table 2.4 and 2.5. Detailed monitoring data are presented in Appendix F.

Table 2.4 Summary of 24-hr TSP Monitoring Results					
Parameter	Monitoring Station	Limit Level (µg/ m ³)			
	AMS4	46	34-62	200	
24-hr TSP in µg/m³	AMS7A	48	38-62	171	260
	AMS12	51	42-66	168	200
	AMS17	49	41-59	171	

Table 2.5

Summary of 1-hr TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m ³)	Limit Level (µg/ m ³)
1-hr TSP in µg/m³	AMS4	53	37-73	348	
	AMS7A	53	40-76	344	500
	AMS12	56	41-76	296	500
	AMS17	54	43-69	338	

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

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3. NOISE

3.1 Monitoring Requirement

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

3.2 Monitoring Equipment

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

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

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	0873599
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488303
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488293
4	Casella	CEL-63X Series	Integrating Sound Level Meter	4181587
5	Casella	CEL-120 Series	Calibrator	2525896
6	Casella	CEL-120 Series	Calibrator	2525984
7	Casella	CEL-120 Series	Calibrator	4358250
8	Casella	CEL-120 Series	Calibrator	5230758

Table 3.1 Noise Monitoring Equipment

3.3 Monitoring Parameters and Frequency

Table 3.2 presents the noise monitoring parameters and frequencies.

Table 3.2 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency and Period
LAeq (30min)	At each station at 0700-1900 hours on normal weekdays at a frequency
L ₁₀ and L ₉₀ will be recorded for reference	of once a week



3.4 Monitoring Methodology

- 3.4.1 The monitoring procedures are as follows:
 - The monitoring station is set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground.
 - The battery condition is checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time are set as follows:
 - frequency weighting : A
 - time weighting : Fast
 - measurement time : Weekly 30 minutes between 0700-1900 on normal weekdays
 - Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
 - Noise monitoring should be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.
 - Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
 - At the end of the monitoring period, the Leq, L10 and L90 are recorded. In addition, site conditions and noise sources are recorded on a standard record sheet.

3.5 Maintenance / Calibration

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

3.6 Monitoring Locations

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

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Table 3.3	Location of Noise Monitoring Station		
Monitoring Station	Location	Land Uses	Type of Measurement
NMS1	Scenery Court	Residential	Façade
NMS2	Villa Le Parc	Residential	Façade
NMS3	Hilton Plaza	Residential	Façade
NMS4	Tin Liu	Residential Village	Façade
NMS5A	Wai Wah Centre (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

Table 3.3 Location of Noise Monitoring Station

3.7 Results and Observations

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

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Table 3.4 Summary of Day Time Noise Impact Monitoring Results				
Monitoring Station	L _{eq (30min)} Range, dB(A) Construction Noise Level	L _{eq (30min)} Limit Level, dB(A)		
NMS1	61.4 - 67.0	75		
NMS2	51.2 - 61.4	75		
NMS3	61.8 - 67.4	75		
NMS4	62.3 - 64.6	75		
NMS5A	68.5 – 70.3	75		
NMS6A	68.0 - 74.1	75		
NMS7	60.8 - 64.3	75		
NMS8	61.8 – 65.1	75		
NMS9	61.7 – 68.4	75		
NMS10A	63.2 - 64.9	65/70 ^[2]		
NMS11	60.1 - 62.5	75		
NMS12	62.3 - 63.9	65/70 ^[2]		
NMS13	60.0 - 65.7	75		
NMS14	61.4 - 67.2	75		
NMS15	53.2 - 62.5	75		
NMS16	55.3 - 62.9	75		
NMS17	62.8 - 66.1	65/70 ^[2]		
NMS18	54.4 - 62.7	75		
NMS19	62.7 - 64.7	75		
NMS20	62.7 - 64.7	75		
NMS23	61.5 - 65.0	75		
NMS24	61.4 - 63.4	75		
NMS25A	63.1 - 68.3	75		
NMS26	62.8 - 70.6	75		
NMS27	61.7 - 66.4	65/70 ^[2]		

Table 3.4 Summary of Day Time Noise Impact Monitoring Results

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

3.7.6 Regular night time noise monitoring were conducted on 1, 6, 15, 20 and 29 June 2023 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.**

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Table 3.5	Summary of Night Time Noise Impact Monitoring Results		
Monitoring Station	L _{eq (15min)} Range, dB(A) Construction Noise Level	L _{eq (15min)} Limit Level, dB(A)	L _{eq (15min)} Baseline, dB(A)
NMS1	58.2 – 59.5	55	61.4
NMS2	52.0 - 53.6	55	49.7
NMS3	59.0 - 63.0	55	70.9
NMS4	56.3 - 61.0	55	62.6
NMS5A	65.9 - 66.6	55	67.9
NMS6A	69.3 – 70.1	55	71.5
NMS7	42.7 – 56.5 ^[2]	55	59.0
NMS8	61.8 – 62.1	55	64.4
NMS9	50.9 - 53.5 ^[2]	55	53.5
NMS11	52.5 - 54.3	55	53.2
NMS13	52.6 - 53.8	55	57.3
NMS14	52.3 – 54.4 ^[2]	55	54.1
NMS15	45.5 – 57.3 ^[2]	55	58.8
NMS16	52.8 – 58.1	55	60.1
NMS18	52.1 – 54.5	55	63.2
NMS19	53.8 - 54.8	55	61.7
NMS20	49.4 - 50.9	55	57.7
NMS23	43.6 - 58.8	55	59.9
NMS24	51.1 – 52.1 ^[2]	55	58.0
NMS25A	54.3 - 57.6	55	59.7
NMS26	57.1 - 60.8	55	61.2

Table 3.5	Summary of Night Time Noise Impact Monitoring Results
Table 5.5	Summary of Night Time Noise impact Monitoring Results

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

2. If measured noise level (Leq) > limit level, Corrected noise level (CNL) is calculated as:

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

- 3. Detailed analysis of each monitoring location is provided in Appendix G.
- 3.7.7 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. For night time noise monitoring, no exceedance case due to construction activity was recorded between 2300 and 0700 of the next day during the reporting month.
- 3.7.8 The Action and Limit Levels for noise impact monitoring have been set and are presented in Appendix C.
- 3.7.9 The Event and Action Plan for noise is given in Appendix H.



4. LANDSCAPE AND VISUAL

4.1 Audit Requirements

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

4.2 Results and Observations

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

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5. WASTE MANAGEMENT

5.1 Audit Requirements

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

5.2 Results and Observations

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



6. SITE INSPECTION

6.1 Site Inspection

- 6.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix J**.
- 6.1.2 In the reporting month, 5 site inspections were carried out on 1, 8, 15, 19 and 29 June 2023. The site inspection held on 19 June 2023 were joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.
- 6.1.3 The follow-up actions requested by ET and IEC during the site inspections were completed as reported by the Contractor. All the rectifications during the reporting period were fulfilled with the requirement of Proposal of Site Inspection, Deficiency and Remedial Action. No outstanding issues were reported during the reporting month. Details of observations recorded during the site inspections are summarized in **Appendix M**.
- 6.1.4 According to DSD's information, blockage of existing sewage occurred at Pai Tau Village on 12 June 2023. DSD carried out investigation and found that an existing manhole no. FMH4089640 near Tai Po Road within the site of CEDD contract no. NE/2017/05 was blocked by hard materials. This leads to sewerage overflow at Pau Tak Village. Details report for blockage of sewer manhole was shown in Appendix N.

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7. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

7.1 Environmental Exceedance

- 7.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 7.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. Regular night time noise monitoring was carried out on 1, 6, 15, 20 and 29 June 2023 and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

7.2 Complaints, Notification of Summons and Prosecution

- 7.2.1 One complaint was received in the report month. The details are listed below:
 - A complaint was received by 1823 (CASE#3-7780620261) on 30th June 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Wai Wah Centre.

According to the Main Contractor, all crane lorry and dump truck drivers were briefed to load all material at the lower level to minimize noise generation.

ET carried out regular night-time noise monitoring on 29th ^ 30th June 2023 at NMS5A, NMS6A and NMS8, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).

ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. 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 use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d.

The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.

- 7.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L.**
- 7.2.3 Two non-compliance were found in the report month. The details are listed below:
 - A non-compliance was found by ET on 8th June 2023. Three untreated muddy water discharge were found during the site inspection (Photos are shown in Appendix O). At Zone 3, a blue pipe was found and connected with the drainage system, no treatment facility was found near by the pump and blue pipe. At Zone 4, N4, untreated muddy

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water surface run-off was observed, the water directly discharges into a guile without any treatment. At Zone 4, N4, untreated muddy water discharge was found through the blue pipe to the MTR area, no treatment facility was found near by the pump and blue pipe.

ET checked that the Main Contractor did not comply with the water discharge licence (WT00032446-2018).

According to the Main Contractor, all the illegal discharge point were stop immediately on 8th June 2023. A prevention plan of direct discharge of wastewater was provided by the Main Contractor on 21st June 2023.

The Main Contractor was reminded to wastewater generated from construction site should be treated before any discharge to meet the requirement on the water discharge licence (WT00032446-2018).

The Main Contractor was reminded to review all the temporary drainage system and provided sufficient wastewater treatment facilities before discharge.

• A non-compliance was found by ET on 29th June 2023. An untreated muddy water discharge was found during the site inspection (Photos are shown in **Appendix O**). At Zone 4, N4, the pump and blue pipe were found not connected to the sedimentation tank nearby. Untreated muddy water discharge was found through the blue pipe to the MTR area. The illegal discharge was stop by RE and ET immediately.

ET checked that the Main Contractor did not comply with the water discharge licence (WT00032446-2018).

The Main Contractor was reminded to review the prevention plan that they were provided on 21st June 2023 and submit the temporary drainage system management plan immediately.

The Main Contractor was reminded that all wastewaters should be treated before any discharge to meet the requirements under the water discharge licence.



8. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

8.1 Implementation Status

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

Air Quality Impact

• A washing facility should be provided at the entrance. (Zone 4, NB, N08)

Construction Noise Impact

• No specific observation was identified in the reporting month.

Water Quality Impact

- Sandbags and tarpaulin sheets should be provided around the gullies. (Zone 3, CM & Zone 5, CM)
- Tarpaulin sheets along the water barriers should be replaced. (Zone 4, CM)
- Blue pipe was observed and connected with the drainage system (Zone 3, SB) and Blue pipe was observed and connected to the MTR area (Zone 5, NB), no treatment facility was found around the pump and blue pipe. The blue pipe should be removed immediately.
- The soil along the water barriers should be cleared. (Zone 3, N4)
- Untreated Muddy water discharge was observed. The illegal discharge should be stopped immediately. (Zone 4, NB)
- Cut-off drain should be provided at the entrance.
- Sandbags should be provided around the gullies. (Zone 3, CM)
- Cut-off drain should be provided. Also, a washing facility should be provided for wheel washing. (N18)
- Sedimentation tank should be accessible for inspection (at Zone 3)

Chemical and Waste Management

- Drip trays should be provided for chemical containers. (Zone 4, CM & Zone 5, CM)
- Drip trays should be provided for the oil drums. (Zone 3, SB)
- The stagnant water and rocks inside the drip tray should be cleared. (Zone 3, N4)
- The stagnant water inside the drip tray should be cleared to prevent land- contamination. (Zone 3, CM)
- Waste should be cleared and an enclosed bin should be provided for good housekeeping. (Zone 4, CM)
- Drips tray should be provided for chemical containers and oil drums. (Zone 5, CM)
- Drip tray should be provided for Chemical containers. (at Zone 3).
- Stagnant water inside the drip tray should be cleared to prevent land- contamination. (at Zone 3).

Land Contamination

- Oil should be cleared as soon as possible. (Zone 4, CM)
- The oil and stagnant water should be cleared. (Zone 5, CM)
- Rock breakers should be placed on tarpaulin sheets. (Zone 3, N4)
- Tarpaulin sheet should be provided underneath of hydraulic breaker to prevent oil leakage (at zone 3).

Landscape and Visual Impact

• No specific observation was identified in the reporting month.

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General Condition

- No specific observation was identified in the reporting month.
- Permit / Licenses
- No specific observation was identified in the reporting month.

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9. FUTURE KEY ISSUES

9.1 Construction Programme for the Next Month

- 9.1.1 During the coming reporting month, the principal work activities within the site include:
 - (1) Trial pits excavation at Zone 1 and 2
 - (2) Road surface Maintenance at 1, 2, 3, 4 and 5
 - (3) Noise Barrier Foundation Works at Zone 1, 2, 3, 4 and 5
 - (4) Slope Reinstatement and Drainage Works at Zone 1
 - (5) Noise Barrier Erection Works at Zone 1, 2 and 5
 - (6) Relocation of Existing Fire Hydrants and relating Watermains at Zone 1, 2, 3, 4 and 5
 - (7) Reinstatement of cycling track at Zone 1 and 4
 - (8) Tree Works (including preservation / felling/ pruning/ transplantation) at Zone 3
 - (9) Reinstatement of footpath at Zone 3
 - (10) Reinstatement cycle track at Zone 3 and 4
 - (11) Construction of Retaining Wall and Erection of Parapet at Zone 3
 - (12) Lift no.2 Installation + SR5 Foundation Works + Construction of [former staircase] Abutment Wall at Zone 3
 - (13) Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
 - (14) Construction Works for Lift no.1 at Zone 3
 - (15) Construction Works N262 Bridge Deck Widening at Zone 3
 - (16) Drainage Works at Zone 3
 - (17) Pilling Construction Works at Zone 3, 4 and 5
 - (18) Road Drainage Works at Zone 4 and 5

9.2 Key Issues for the Coming Month

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

9.3 Monitoring Schedules for the Next Month

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



10. CONCLUSIONS

- 10.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 10.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.
- 10.1.3 Regular night time noise monitoring was carried out on 1, 6, 15, 20 and 29 June 2023, respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.
- 10.1.4 5 site inspections were carried out on 1, 8, 15, 19 and 29 June 2023. Recommendations on mitigation measures on air quality, water quality, chemical and waste management and land contamination were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.5 One complaint was received in the report month. The summaries are listed below:
 - A complaint was received by 1823 (CASE#3-7780620261) on 30th June 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Wai Wah Centre.
- 10.1.6 According to DSD's information, blockage of existing sewage occurred at Pai Tau Village on 12 June 2023. DSD carried out investigation and found that an existing manhole no. FMH4089640 near Tai Po Road within the site of CEDD contract no. NE/2017/05 was blocked by hard materials. This leads to sewerage overflow at Pau Tak Village.
- 10.1.7 Two non-compliance were found in the report month. The summaries are listed below:
 - A non-compliance was found by ET on 8th June 2023. Three untreated muddy water discharge were found during the site inspection. At Zone 3, a blue pipe was found and connected with the drainage system, no treatment facility was found near by the pump and blue pipe. At Zone 4, N4, untreated muddy water surface run-off was observed, the water directly discharges into a guile without any treatment. At Zone 4, N4, untreated muddy water discharge was found through the blue pipe to the MTR area, no treatment facility was found near by the pump and blue pipe.
 - A non-compliance was found by ET on 29th June 2023. An untreated muddy water discharge
 was found during the site inspection. At Zone 4, N4, the pump and blue pipe were found not
 connected to the sedimentation tank nearby. Untreated muddy water discharge was found
 through the blue pipe to the MTR area. The illegal discharge was stop by RE and ET
 immediately.

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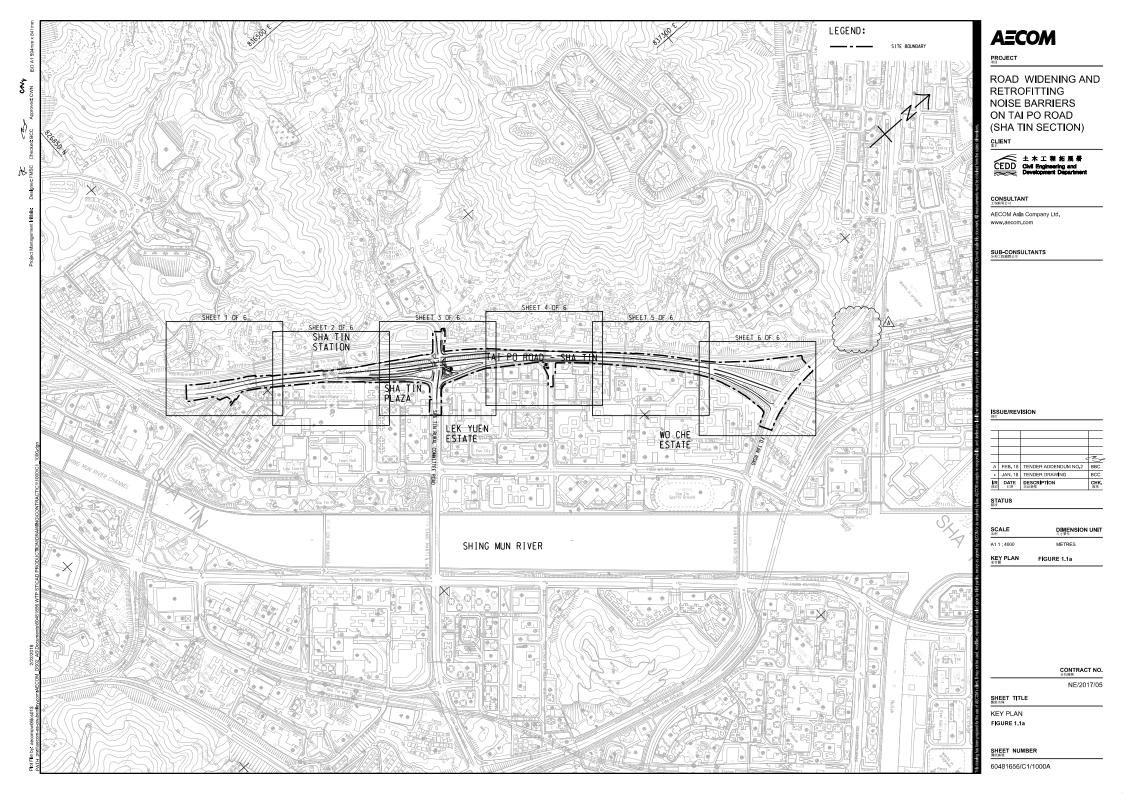
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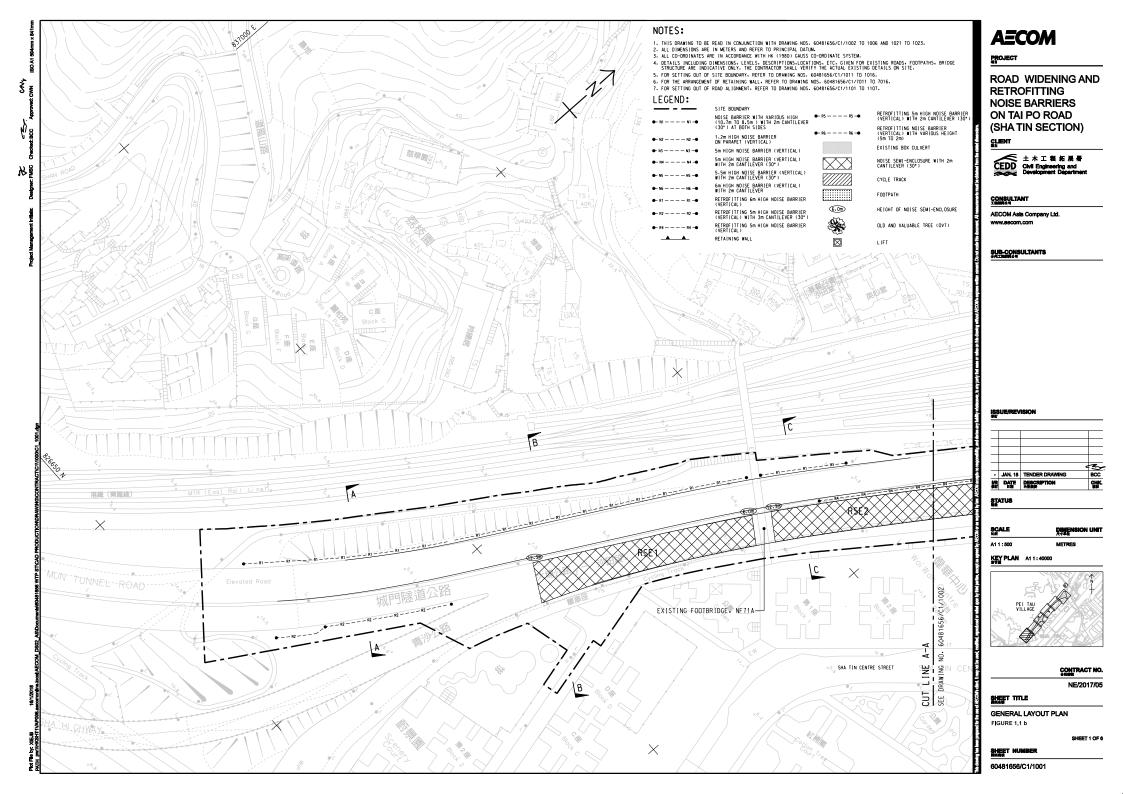


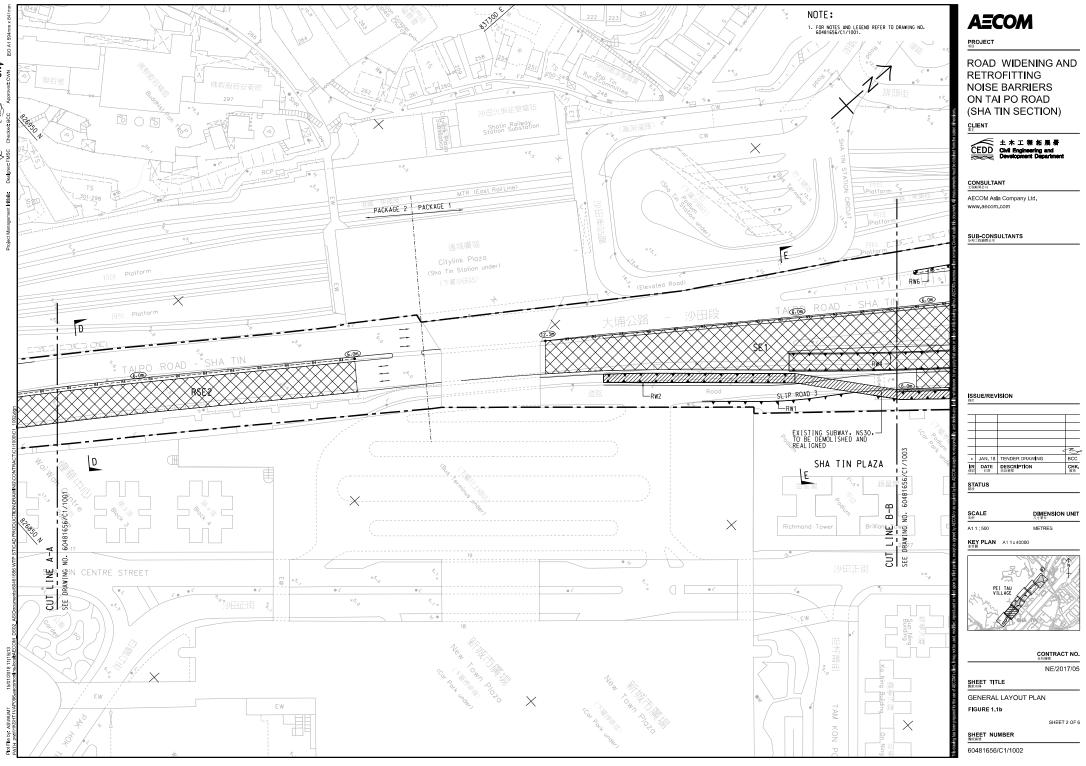
Figure 1

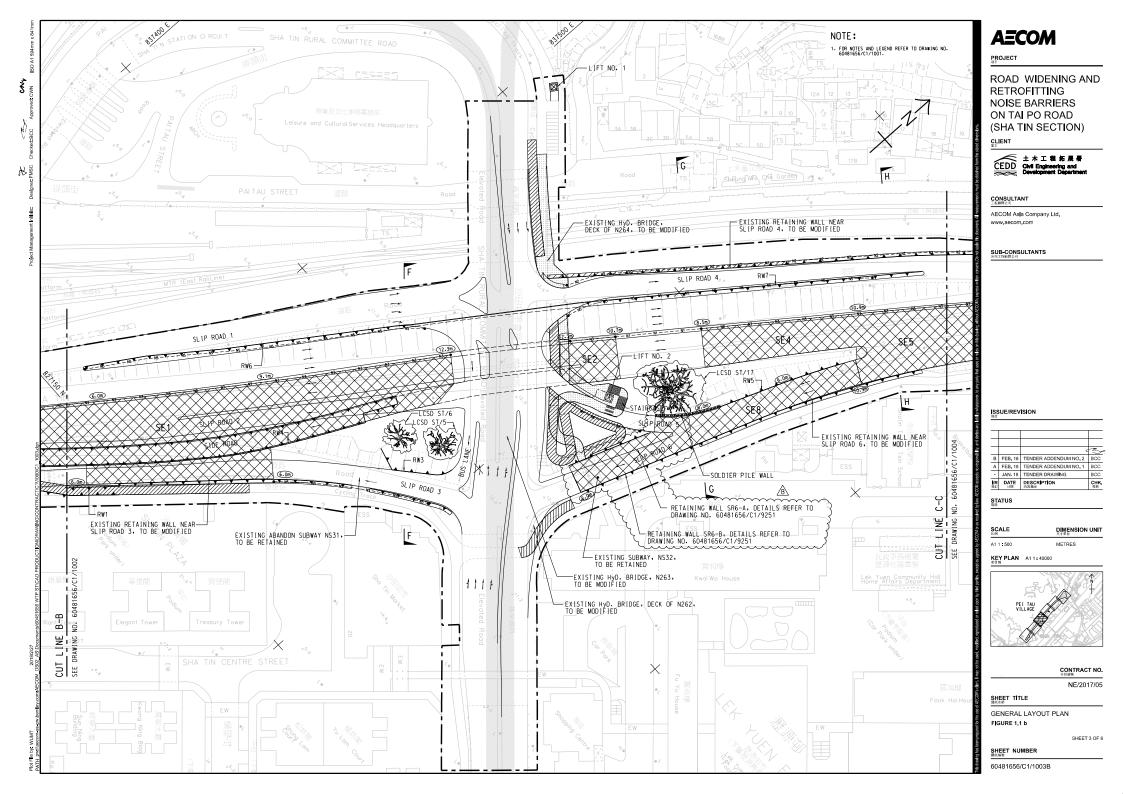
Project General Layout

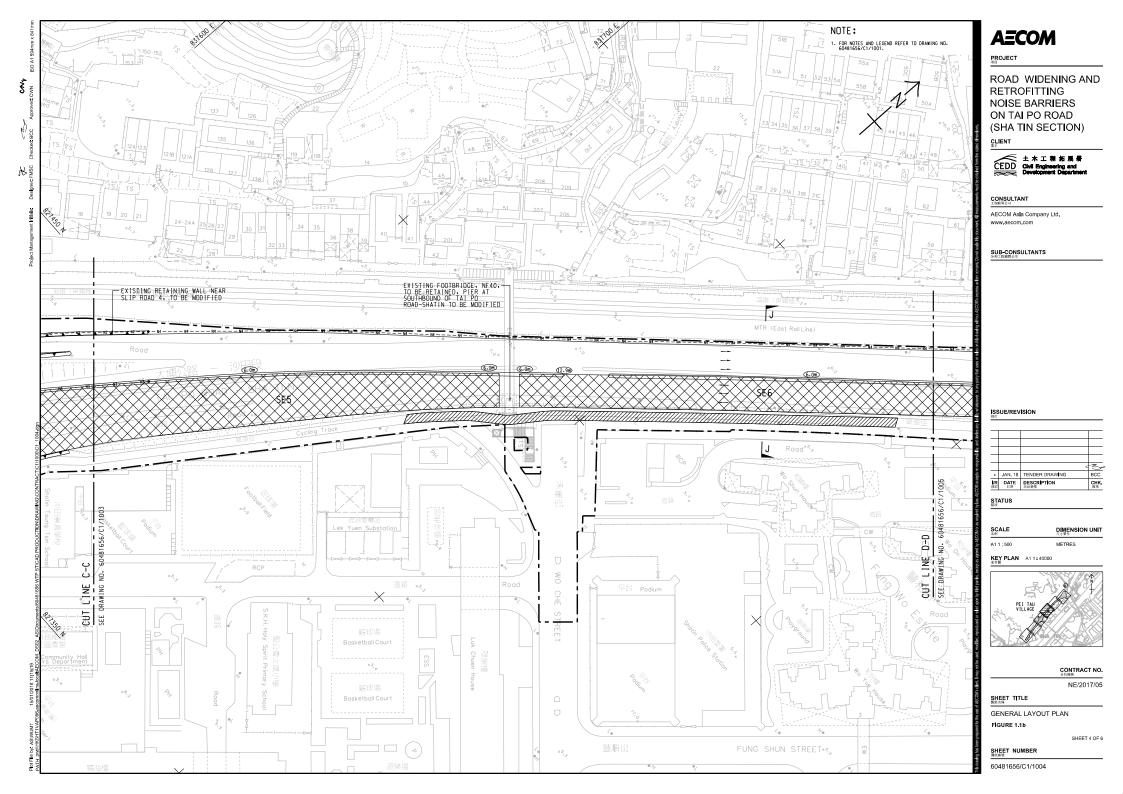
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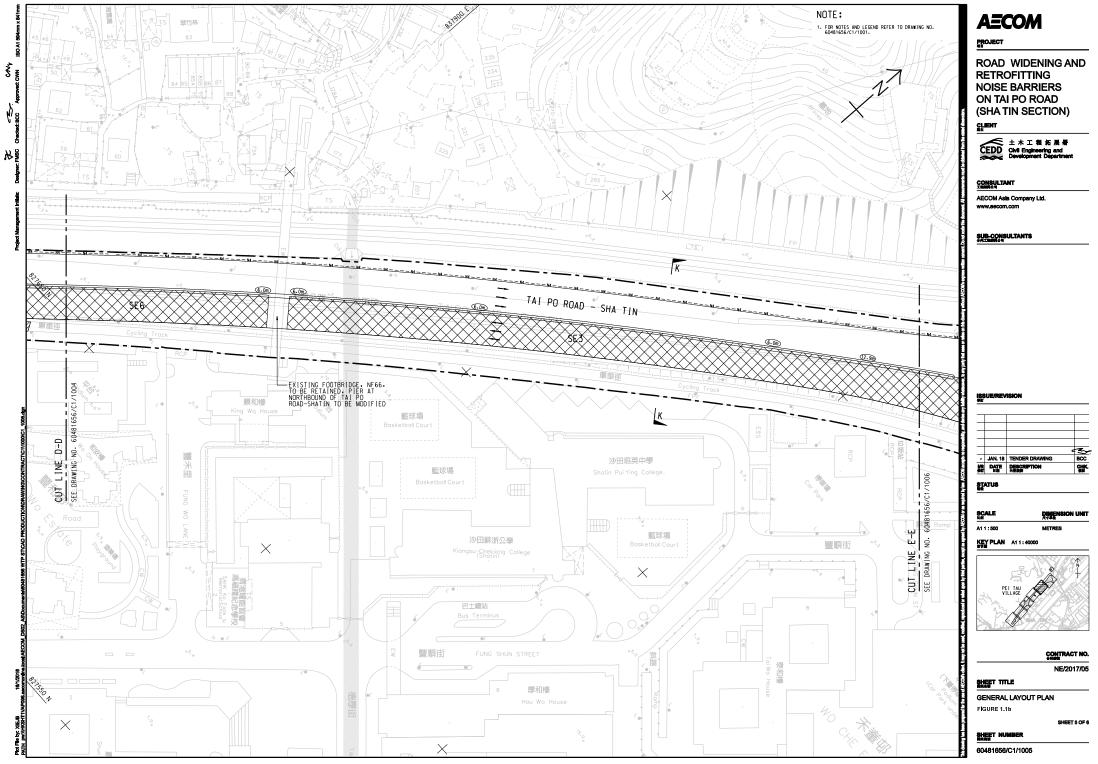


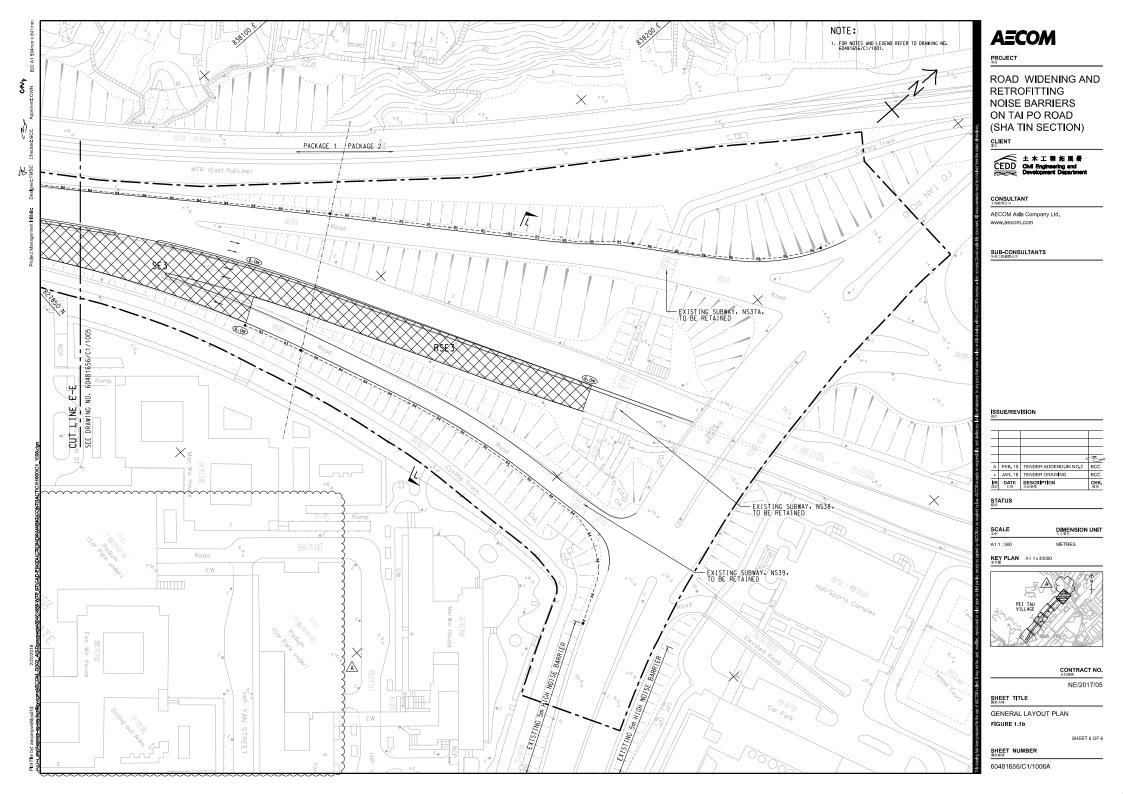












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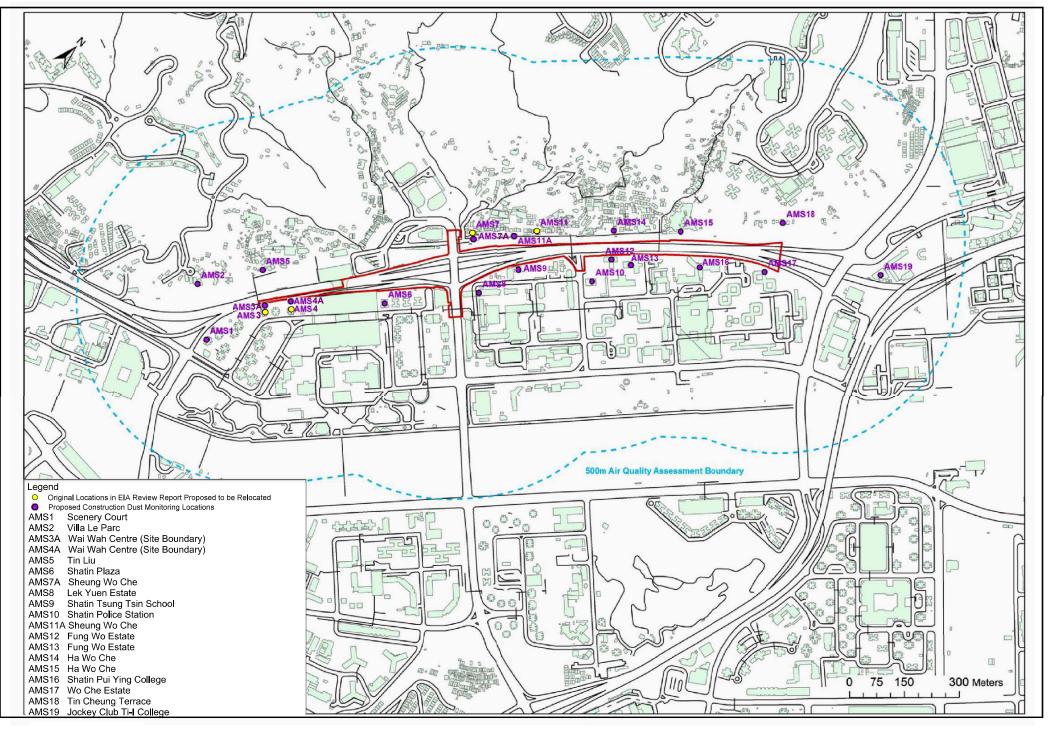
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Figure 2a

Air Monitoring Locations

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Figure 2b

Noise Monitoring Locations

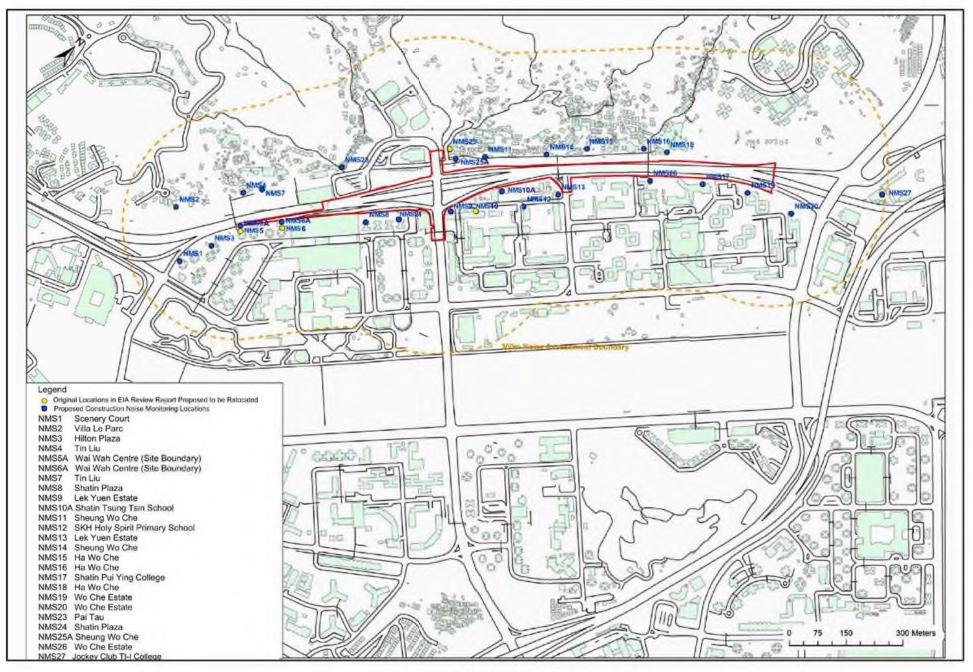


Figure 2b Noise Monitoring Locations



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Appendix A

Construction Programme

中國中鐵一中鐵一局一振華工程聯營

y ID	Activity Name	Original Duration	Remaining	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	Jun	Jul	20
		Duration	Baradon					60	61	
Contract NE	_2017_05 3-Months Rolling Programme (base on AP13) June_20	23								
PROJECT K	EY DATES									
PROJECT CON	MPLETION									
KEY1060	Contract Completion of Section 1	0	0		19-Sep-23*		06-Jun-23			
KEY1100	Contract Completion of Section 2	0	0		19-Sep-23*		06-Jun-23			
KEY1142	Target Completion of Section 3 (remaining works)	0	0		30-Jun-23*		28-Jun-22		Target Completion of Sec	tion 3 (remainir
KEY1150	Contract Completion of Section 3A	0	0		30-Jun-23*		08-Jan-23		Contract Completion of S	Section 3A,
KEY1160	Target Completion of Section 3A	0	0		30-Jun-23		30-May-23		Target Completion of Sec	ction 3A,
PRELIMINA	RIES & GENERAL REQUIREMENT									
GENERAL SUE	BMISSION									
SUB1410	Combined Services Drawings (CSD)	0	0	30-Jun-23*		31-Mar-22			Combined Services Draw	vings (CSD), 3
DESIGN SUE	BMISSION									
- NOISE MITIGAT	TION MEASURES									
DES1290	PM review & comment	28	1	07-Aug-19A	30-Jun-23	31-Aug-19	27-Sep-19		PM review & comment	
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certific	20	1	26-Aug-19 A	02-Jul-23	12-Sep-21	02-Oct-21		Re-submit Superstruct	ture Desian of
DES1310	PM Consent for Construction	28	1	16-Sep-19A	03-Jul-23	03-Sep-21	30-Sep-21		PM Consent for Cons	0
DES1330	PM review & comment	28	11	07-Aug-19A	11-Jul-23	31-Aug-19	27-Sep-19		PM review &	
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Jul-23	02-Aug-23	12-Apr-22	03-May-22			Re-
DES1350	PM Consent for Construction	28	28	02-Aug-23	30-Aug-23	03-May-22	31-May-22			
REMAINING W	ORKS			Ŭ	U	,	,			
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Jun-23	31-Jan-19	27-Feb-19		PM review & comment	
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A		02-Apr-19	03-May-19		Re-submit Design of Wat	termain & Irric
DES1570	PM review & comment	28	11	18-Oct-22 A		05-May-22	01-Jun-22		PM review &	
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	12-Jul-23	13-Aug-23	03-Jun-22	04-Jul-22			comment
DES1590	PM Consent for Construction	28	28	13-Aug-23	10-Sep-23	05-Jul-22	01-Aug-22			
-	WEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZON	F 1)		U	· ·		0			
•	•	L I)								
PRELIMINARIE										
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 05	268	0	28-Jul-20 A	30-Jun-23	31-Jul-20	26-Jun-21		Zone 1 Stage 1 R1 struct	ture R1-01 to
Z1SU1034	Zone 1 Stage 1 R2 structure	435	0		19-Jan-23 A		07-Sep-21		Ŭ	
Z1SU1034	Zone 1 Stage 2 RES1 SB foundation/stem wall	216	33	19-Jan-22 A		09-Mar-22	28-Nov-22			
Z1SU1040					-		10-Oct-22			Zone 1 Stad
	Zone 1 Stage 2 R1 structure R1-06 to 17	139	21 54	11-May-22 A		25-Apr-22				20110 1 0144
Z1SU1050	Zone 1 Stage 3 RES1 Arch beam & panel ER AND SEMI-ENCLOSURE	54	54	14-Aug-23	18-Oct-23	11-Oct-22	29-Nov-22			
PILE CAP AND										
Z1_1011	R1_ELS for footing/cap construction R1-06 to R1-18 (153m_1 side)	43	2	11-May-22 A	06-Jul-23	25-Apr-22	16-Jun-22		R1_ELS for footing	v/can constru
Z1_1012	R1_footing/stem wall construction R1-06 to R1-17 (8nr)	72	6	21-May-22 A		21-May-22	16-Aug-22		R1_footing/ste	
Z1_1020	R1 backfill & remove ELS	20	3	16-Nov-22 A		16-Aug-22	08-Sep-22		R1_backfil	
	—	20	Ŭ	TO NOT LEA	10 001 20	10 / lug LL				
Z1_1170	RSE1_pile cap construction RSE1-51P to 56P (3nr)	54	0	06-Apr-23 A	24-Jun-23 A	12-Jul-22	14-Sep-22	DO	1_pile cap construction RSI	E1-51P to 56
= Z1_1180	RSE1_backfill & remove ELS	14	14	08-Jul-23	25-Jul-23	14-Sep-22	30-Sep-22	HOL		RSE1_back
STRUCTURE S										NOE1_Dack
NORTHBOUN										
Z1_1030	R1_erect steel posts PA1 to PA58 (58nr)	15	3	03-Feb-23 A	18-Jul-23	08-Sep-22	29-Sep-22		B1 e	rect steel pos
		-	-							
Z1_1200	RSE1 erect steel posts PD1 to PD22a (23nr)	6	6	01-Aug-23	08-Aug-23	30-Sep-22	11-Oct-22			
 Z1_1210	RSE1_erect steel arch beam PC/D1 to PC/D22 (22nr)	11	11	14-Aug-23	26-Aug-23	11-Oct-22	07-Nov-22			
]		<u> </u>	U					
📺 Z1_1040	R1_install noise barrier panel PA1 to PA58 (1120 sq.m)	6	5	28-Jun-23 A	25-Jul-23	29-Sep-22	10-Oct-22			R1 install n
	D	1								—
<u> </u>				_				L	Date	F
Remaining	Level of Effort Remaining Work \diamond Milestone				ontract No					IRP DWP 23
		D! 1/	11	and Detroit		- D!	T-: D- F	lead (Che Tin)		2001 20
Actual Leve	el of Effort Critical Remaining Work Baseline Milesto	Road v	videning	and Retro	itting Nois	e Barriers	on Tal Po F	Road (Sha Tin)		

	Layou	t : NE/2017/	05 TPI)WP 2				
	TAS	SK filter: 3 M	onths	Rolling			
			Progr	amme.			
2023 Aug		Sep		Oct			
62		63		64			
naining works),				Completio Completio			
9), 30-Jun-23*							
n of Noise Mitigation Measur	es in Zone 1	& 2 w/Design	Certific	ate			
Re-submit Superstructure D	-	se Mitigation M nt for Constru		es in Zon			
rrigation System w/Design Certificate Re-submit Design of E&M System (E&M & Road Lighting) ۱							
		PM Consent	for Cor	nstructior			
to 05	SP foundation	on/otom woll					
Zone 1 Stage 2 RES1 Stage 2 R1 structure R1-06 t		Sh/Stern wai					
ruction R1-06 to R1-18 (153 Istruction R1-06 to R1-17 (8 ELS	- /						
56P (3nr) ackfill & remove ELS							
posts PA1 to PA58 (58nr)							
RSE1_erect steel pos		022a (23nr) eel arch beam	n PC/D1	I to PC/D			
Il noise barrier panel PA1 to	PA58(1120	sq.m)					
Revision	Checked	Approved	1	of 6			
2306	EGA		1	010			

中國中鐵-中鐵一局-振華工程聯營 CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

ty ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	Jun	Jul	20
								60	61	
E Z1_1220	RSE1_install noise barrier wall panel PD1 to PD22a (884 sq.m)	5	5	30-Aug-23	06-Sep-23	07-Nov-22	14-Nov-22			
	AND REMAINING WORKS									
ROADWORKS										
Z1_1250	Zone 1_road surfacing with flexible pavement Type 1 1391m2	16	16	26-Sep-23	19-Oct-23	25-Oct-22	16-Nov-22	4		
	G & E&M WORKS	10	10	20-0ep-20	19-001-23	20-001-22	10-1100-22			
NORTHBOUN										
Z1_1470	Zone 1_FVMS gantry	30	30	26-Aug-23	03-Oct-23	07-Nov-22	12-Dec-22	1		
 Z1_1480	Zone 1_street lighting & E&M works	45	45	11-Sep-23	04-Nov-23	07-Nov-22	31-Dec-22	1		
				, '						
Z1_1460	Zone 1_street lighting & E&M works	45	45	11-Sep-23	04-Nov-23	07-Oct-22	29-Nov-22	1		
GEOTECHNIC	AL WORKS									
NORTHBOUN	D									
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	26	16-Dec-22 A	31-Jul-23	12-Aug-22	15-Oct-22			Zone 1
	WEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)									
Z2SU1010	Construction Zone 2 Stage 2 RSE2 SB foundation/stem wall	204	26	22-Dec-21 A	31-Jul-23	31-Dec-21	07-Sep-22	·		Constr
Z2SU1020	Construction Zone 2_Stage 3 RSE2 Arch beam & panel	64	79	09-Jun-23 A		01-Aug-22	09-Nov-22	-		
	ER AND SEMI-ENCLOSURE	01	10		00 000 20		CO NOV EE	i i i i i i i i i i i i i i i i i i i		
SOUTHBOUN										
Z2_1092	RSE2_pile cap/stem wall construction RSE2-51P to RSE2-65 (14nr)	90	6	11-Feb-22 A	08-Jul-23	22-Mar-22	12-Jul-22		BSE2 pile (cap/stem wall const
 Z2_1110	RSE2 backfill & remove ELS	29	3	01-Sep-22 A		09-Jun-22	14-Jul-22			RSE2_backfill &
STRUCTURE S	_									
Z2_1130	RSE2_erect steel posts PD23a to PD67 (46nr)	12	6	30-Mar-23 A	31-Jul-23	14-Jul-22	01-Aug-22			RSE2
Z2_1140	RSE2_erect steel arch beam PC/D23 to PC/D67 (45nr)	23	12	09-Jun-23 A		01-Aug-22	21-Sep-22			
CENTRAL BA										
Z2_1150	RSE2_install noise barrier wall panel PC23 to PC67 (624 sq.m)	4	4	14-Aug-23	18-Aug-23	21-Sep-22	27-Sep-22	1		
				_	_					
Z2_1160	RSE2_install noise barrier wall panel PD23a to PD67 (1560 sq.m)	8	8	18-Aug-23	30-Aug-23	27-Sep-22	10-Oct-22	1		
Z2_1170	RSE2_install noise barrier roof panel PC/D23 to PC/D67 (2187 sq.m)	22	22	30-Aug-23	03-Oct-23	10-Oct-22	09-Nov-22			
	AND REMAINING WORKS			Ū						
ROADWORKS										
NORTHBOUN										
Z2_1180	Zone 2_road surfacing with flexible pavement Type 1 1562m2	11	11	11-Sep-23	25-Sep-23	10-Oct-22	25-Oct-22	1		
	G & E&M WORKS			· · ·	· ·					
NORTHBOUN										
Z2_1315	Zone 2_sign gantry installation NT3954	30	30	14-Aug-23	18-Sep-23	21-Sep-22	28-Oct-22	1		
Z2_1320	Zone 2_street lighting & E&M works	60	60	11-Sep-23	22-Nov-23	29-Sep-22	10-Dec-22			
				· ·						
Z2_1300	Zone 2_sign gantry installation TGS 7	30	30	14-Aug-23	18-Sep-23	21-Sep-22	28-Oct-22	4		
 Z2_1310	Zone 2_street lighting & E&M works	60	60	11-Sep-23	22-Nov-23	10-Oct-22	19-Dec-22			
	WEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)									
	· · ·									
		05.4	0	00 Nov 10 A	14 Nov 00 4	00 Can 10	10 Nov 00			
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	0		14-Nov-22 A		10-Nov-20) (SB near SR6) Stage	1 Construct Lift To
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircas e	256	0		21-Jun-23 A		11-May-21		(OD HEAL ONO) Slaye	
7001-555	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge	344	41	02-Jun-20 A		26-Jan-21	25-Mar-22	-		
Z3SU5050		487	166	31-Mar-21 A		09-Jun-21	30-Jan-23	_		
Z3SU5060	Zone 3b (near SR6) Stage 2 N263 bridge deck construction									
Z3SU5060Z3SU5070	Zone 3b (near SR6) Stage 3 Construct SR5	682	250	28-Oct-20 A		01-Dec-20	21-Mar-23			
Z 3SU5060		682 242	250 242	28-Oct-20 A 19-Aug-23	03-May-24 14-Jun-24	01-Dec-20 08-Oct-22	21-Mar-23 29-Nov-23	-		
 Z3SU5060 Z3SU5070 Z3SU5080 	Zone 3b (near SR6) Stage 3 Construct SR5 Zone 3b (near SR6) Stage 4 cycle track ramp			19-Aug-23	14-Jun-24	08-Oct-22	29-Nov-23	-	Date	R
 Z3SU5060 Z3SU5070 Z3SU5080 Remaining 	Zone 3b (near SR6) Stage 3 Construct SR5 Zone 3b (near SR6) Stage 4 cycle track ramp Level of Effort Remaining Work	242	242	19-Aug-23	14-Jun-24	08-Oct-22	29-Nov-23			SMRP DWP 230
 Z3SU5060 Z3SU5070 Z3SU5080 	Zone 3b (near SR6) Stage 3 Construct SR5 Zone 3b (near SR6) Stage 4 cycle track ramp Level of Effort Remaining Work	242	242	19-Aug-23 C and Retro	14-Jun-24 Contract No	08-Oct-22	29-Nov-23 /05 on Tai Po F	Road (Sha Tin)		

	Layou		05 TPR 3MRP
	тло		WP 2306
	TA		onths Rolling Programme.
2023			
Aug 62		Sep 63	Oct 64
02	BS		se barrier wall pa
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	I		
	1		
e 1_fill replacement by no	-fines concre	te 7SW-D/FF	156 (open excav
struction Zone 2 Stage 2	BSE2 SB for	Indation/stom	wall
sti uction zone z_Stage z		inualion/stern	Con
			0011
struction RSE2-51P to R	SE2-65 (14n	-)	
& remove ELS			
2_erect steel posts PD23	Ba to PD67 (4	6nr)	
RSE2_erect st			PC/D67 (45nr)
—			. ,
RSE2_ins	tall noise barr	ier wall panel	PC23 to PC67 (1
	RSE2 inst	all noise barrie	er wall panel PD:
	_		RSE
			Zone 2_road
		Zon	e 2_sign gantry
		700	e 2_sign gantry
	-	201	o ≃_oign ganu y
owor? & stairage			
ower 2 & staircas e Zone 3b (n	ear SR6) Sta	be 1 SF8 and	SR6 foundation
2010 00 (11			
Revision	Checked	Approved	0.05
306	EGA		2 of 6

中國中鐵-中鐵一局-振華工程聯營

ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	Jun	Jul
		Duration	Duration					60	61
Z3SU5100	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30	162	0	02-Dec-20 A	25-Apr-22 A	01-Dec-20	22-Jun-21		-
Z3SU5110	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414	106	246	07-Sep-20 A	27-Apr-24	30-Jan-21	15-Jun-21	-	
	ISION								
CENTRAL BAR									
Z 3_2890	UU_CLP-abandoned 11kv cable for SE5 CH1950-2100 150m	25	25	30-Jun-23	29-Jul-23	05-Sep-22	07-Oct-22		
	R AND SEMI-ENCLOSURE								
CENTRAL BAR		40					00 D 00		
Z 3_1040	SE1-1_mini piles for S1E1-01P & S1E1-02P (12nr ver) (N/B Stag1b + S/B Stage 3)	48	0	01-Apr-23 A	12-Jun-23 A	29-Oct-22	23-Dec-22		for S1E1-01P & S1E1-02P (12ni
SOUTHBOUND Z3_1514	SE1-1_mini piles for S1E1-51P (6nr ver) (N/B Stag1b + S/B Stage 4)	24	22	24-Jun-23 A	12 Oct 22	28-Nov-22	24-Dec-22		
		24	22	24-Juli-23 A	12-001-23	20-1100-22	24-Dec-22		
NORTHBOUND									
Z3_1000	N4_ELS for footing construction N4-01 to N4-11 (130m_2 side)	72	33	17-Feb-23 A	09-Aug-23	09-Jul-22	03-Oct-22		
CENTRAL BAR									
Z3_1110	SE1-1_ELS for cap construction S1E1-01P & S1E1-02P (18m_2 side) (N/B Stag1b + S/B Stage	5	5	24-Jun-23 A	04-Aug-23	24-Dec-22	31-Dec-22		
Z 3_1120	SE1-1_pile cap construction S1E1-01P & S1E1-02P (2nr) (N/B Stag1b + S/B Stage 3)	18	18	04-Aug-23	25-Aug-23	03-Jan-23	26-Jan-23		
Z 3_1130	SE1-1_backfill & remove ELS (N/B Stag1b + S/B Stage 3)	3	3	25-Aug-23	29-Aug-23	27-Jan-23	30-Jan-23	-	
Z 3_1140	SE1-2_ELS for footing/cap construction S1E2-01P to S1E2-07 (48m_2 side) (N/B Stag1b + S/B	14	6	31-Jan-23 A	17-Jul-23	18-Oct-22	02-Nov-22		SE1-2_ELS
 Z3_1150	SE1-2_cap/footing construction S1E2-01P to S1E2-07 (7nr) (N/B Stag1b + S/B Stage 3)	72	31	04-Feb-23 A	22-Aug-23	23-Nov-22	21-Feb-23	-	
 Z3_1170	SE1-2_backfill & remove ELS (N/B Stag1b + S/B Stage 3)	8	6	15-Mar-23 A	29-Aug-23	22-Feb-23	02-Mar-23	-	
 Z3_1200	SE1-3_backfill & remove ELS (N/B Stag1b + S/B Stage 3)	7	4	14-Mar-23 A	21-Jul-23	30-Dec-22	07-Jan-23		SE1-3
 Z3_1220	SE1-4_footing construction S1E4-01 to S1E4-05 (5nr) (N/B Stag1b + S/B Stage 3)	54	5	07-Mar-23 A	22-Jul-23	30-Dec-22	07-Mar-23		SE1-
 Z3_1230	SE1-4_backfill & remove ELS (N/B Stag1b + S/B Stage 3)	12	11	22-Mar-23 A	29-Jul-23	01-Mar-23	14-Mar-23		
 Z3_1240	SE1-5_ELS for footing construction S1E5-01 to S1E5-05 (51m_2 side) (N/B Stag1a + S/B Stage	15	6	16-May-23 A	07-Jul-23	11-Aug-22	27-Aug-22		SE1-5 ELS for footin
 Z3_1250	SE1-5_footing construction S1E5-01 to S1E5-05 (5nr) (N/B Stag1a + S/B Stage 0)	54	38	02-Jun-23 A	21-Aug-23	29-Aug-22	02-Nov-22		
Z3_1260	SE1-5_backfill & remove ELS (N/B Stag1a + S/B Stage 0)	9	9	21-Aug-23	31-Aug-23	03-Nov-22	12-Nov-22		
Z3_1270	SE1-6_ELS for cap construction S1E6-01P (16m_2 side) (N/B Stag1a + S/B Stage 0)	5	5	08-Jul-23	13-Jul-23	29-Aug-22	02-Sep-22		SE1-6_ELS for
Z3_1280	SE1-6_pile cap construction S1E6-01P (1nr) (N/B Stag1a + S/B Stage 0)	18	18	21-Aug-23	11-Sep-23	03-Nov-22	23-Nov-22		_
Z3_1290	SE1-6_backfill & remove ELS (N/B Stag1a + S/B Stage 0)	3	3	11-Sep-23	14-Sep-23	24-Nov-22	26-Nov-22		
Z3_1310	SE2_footing construction S2E1-01 (1nr) (N/B Stag1a + S/B Stage 0)	18	0	25-May-23 A	09-Jun-23 A	17-Aug-22	06-Sep-22	SE2 footing constr	ection S2E1-01 (1nr) (N/B Stag1
Z3_1320	SE2_backfill & remove ELS (N/B Stag1a + S/B Stage 0)	3	0	12-Jun-23 A	12-Jun-23 A	07-Sep-22	09-Sep-22		move ELS (N/B Stag1a + S/B St
 Z3_1390	SE5-1_ELS for cap/footing construction S5E1-01P to S5E1-04 (56m_2 side) (N/B Stag1b + S/B	16	8	11-Apr-23 A	20-Sep-23	19-Nov-22	08-Dec-22		
Z 3_1420	SE5-2 ELS for footing/cap construction S5E2-01 to S5E2-12 (132m 2 side) (N/B Stag1b + S/B	37	37	31-Jul-23	11-Sep-23	07-Oct-22	19-Nov-22	-	
Z3 1430	SE5-2_cap/footing construction S5E2-01 to S5E2-12 (12nr) (N/B Stag1b + S/B Stage 0)	108	108	07-Aug-23	13-Dec-23	14-Oct-22	24-Feb-23	-	
				Ŭ					
Z3_1680	SE5-1_backfill & remove ELS	6	6	24-Jul-23	29-Jul-23	04-Jan-23	10-Jan-23		
Z 3_1710	SE5-2_backfill & remove ELS	22	22	24-Jul-23	17-Aug-23	19-May-23	14-Jun-23	-	
SOUTHBOUND									
Z 3_1800	SE8-1B_backfill & remove ELS	3	3	03-Jul-23	05-Jul-23	01-Aug-22	03-Aug-22		SE8-1B_backfill & remo
Z 3_1830	SE8-2_backfill & remove ELS	1	1	03-Jul-23	03-Jul-23	05-Sep-22	05-Sep-22		SE8-2_backfill & remove
STRUCTURE ST									
Z3_1860	N2_SR4_erect steel posts PK1 to PK41 (41nr)	11	1	11-Jul-22 A	30-Aug-23	06-Sep-22	21-Sep-22	-	
Z 3_1880	N5_RW7_erect steel posts PL1 to PL32 (32nr)	8	8	30-Aug-23	11-Sep-23	21-Sep-22	03-Oct-22		
	AND REMAINING WORKS								
ROADWORKS									
		100	100	00 1 200	10 D	01 1 200		-	
Z3_2700	Drainage construction MA06 to MA01 222m	139	139	30-Jun-23	13-Dec-23	21-Jul-22	05-Jan-23	-	
CENTRAL BAR		60	60	24 Jul 02	12 Oct 02	10 Nev 00	15 Ech 00		
	Drainage construction MN60 to MN97 220m	69	69	24-Jul-23	13-Oct-23	19-INOV-22	15-Feb-23		
SOUTHBOUND		50	59	24-101-00	30-Son 22	10-Mov 02	29-Jul-23	-	
Z3_3200	Drainage construction MS72 to MS73 93m	59		24-Jul-23	30-Sep-23	19-May-23			
Z3_3210	Sewerage diversion FM1 to FM2 88m 825mm	55	2	31-Dec-22 A	04-JUI-23	11-Aug-22	17-Oct-22		Sewerage diversion FM1
Remaining L	evel of Effort Remaining Work \diamondsuit Milestone			С	ontract No	. NE/2017/	05		Date
									08-Jul-23 3MRP
Actual Level	of Effort Critical Remaining Work	Road V	Videning	and Retro	fittina Nois	e Barriers	on Tai Po P	Road (Sha Tin)	

Layout : NE/2017/05 TPR 3MRP DWP 2306 TASK filter: 3 Months Rolling Programme. Sep 63 Oct 64 LP-abandoned 11kv cable for SE5 CH1950-2100 150m N/B Stag1b + S/B Stage 3) N4_ELS for footing construction N4-01 to N4-11 (130m_2 side) SE1-1_ELS for cap construction S1E1-01P & S1E1-02P (18m_2 side SE1-1_pile cap construction S1E1-01P & S1E SE1-1_backfill & remove ELS (N/B Stag1 ting/cap construction S1E2-01P to S1E2-07 (48m_2 side) (N/B Stag1 SE1-2_cap/footing construction S1E2-01P to S1E SE1-2_backfill & remove ELS (N/B Stag1t & remove ELS (N/B Stag1b + S/B Stage 3) g construction S1E4-01 to S1E4-05 (5nr) (N/B Stag1b + S/B Stage 3) Lbackfill & remove ELS (N/B Stag1b + S/B Stage 3) uction S1E5-01 to S1E5-05 (51m_2 side) (N/B Stag1a + S/B Stage 0) SE1-5_footing construction S1E5-01 to S1E5-05 (SE1-5_backfill & remove ELS (N/B Stat nstruction S1E6-01P (16m_2 side) (N/B Stag1a + S/B Stage 0) SE1-6_pile cap construction SE1-6_backfill & remove Stage 0) SE5-1 ELS for ca SE5-2_ELS for footing/cap _backfill & remove ELS SE5-2_backfill & remove ELS I N2_SR4_erect steel posts PK1 to PK41 N5_RW7_erect steel posts 🗖 Draina 88m 825mm Revision Checked Approved 3 of 6 306 EGA

中國中鐵一中鐵一局一振華工程聯營

ivity ID	Activity Name	Original		3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	l.ue	1	20
		Duration	Duration					Jun 60	Jul 61	
BRIDGE AND	STRUCTURE WORKS									
UTILITIES DIV										
SOUTHBOU	ND									
💼 Z3_3080	UU_CLP-abandoned 11kv cable for SR6 CH1850-1950 100m	19	19	30-Jun-23	22-Jul-23	10-Jun-22	02-Jul-22			UU_CLP-abando
🔲 Z3_3090	UU_HGC-slew cable for SR6 CH1800-1870 70m	8	8	14-Jul-23	22-Jul-23	23-Jun-22	02-Jul-22			UU_HGC-slew c
😑 Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	30-Jun-23	30-Jun-23	31-Mar-22	31-Mar-22		UU_HKBN-slew cable	for N262 CH1800
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	8	08-Jun-20 A	10-Jul-23	31-Jul-20	29-Oct-20		UU_Constru	uct combine UU tr
Z3_5685	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	6	08-Jun-20 A	07-Jul-23	02-Jun-21	13-Aug-21		UU_Construct	combine UU troug
WIDENING FO	R NORTH HOLLOW ABUTMENT (N264)									
 Z3_4240	N264_temporary protection MTRC cable	18	5	13-Oct-22 A	07-Jul-23	28-May-22	20-Jun-22		N264_tempora	ry protection MTR
= Z3_4250	N264_demolish existing parapet wall	24	10	13-Oct-22 A	19-Jul-23	20-Jun-22	19-Jul-22		N2	264_demolish exis
Z3_4260	N264_install precast slab	18	11	28-Dec-22 A	01-Aug-23	19-Jul-22	09-Aug-22			N264_
Z3_4270	N264_in-situ concrete slab & parapet	24	14	01-Apr-23 A	17-Aug-23	09-Aug-22	06-Sep-22			
	N OF BRIDGE N263				_	_				
MODIFICATIO	N EXISTING SOUTH HOLLOW ABUTMENT WALL									
 Z3_3970	SHA_abutment wall construction	21	8	05-May-23 A	11-Jul-23	28-Jul-22	20-Aug-22		SHA_abutr	nent wall construc
The DECK CONST	RUCTION OF BRIDGE N263									
 Z3_3875	Construct bridge deck between SAW-1 and SHA PB-151	21	17	30-May-23 A	31-Jul-23	22-Aug-22	15-Sep-22			Constru
Z3_4000	Remove existing U beam and construct bridge deck (Stage 3A/B)	100	30	14-Apr-23 A	22-Sep-23	10-Nov-22	14-Mar-23			
Z3_4010	Remove existing U beam and construct bridge deck (Stage 4)	70	70	23-Sep-23	16-Dec-23	14-Mar-23	10-Jun-23			
MODIFICATION	N OF BRIDGE N262		1							
Z 3_5480	N262_parapet & deck finishing	30	0	27-Mar-23 A	14-Jun-23 A	30-Jul-22	02-Sep-22	NZOL_parapet	& deck finishing	
NEW SLIP RO	AD 2								Ŭ	
Z 3_5360	SR2-1_column construction	21	12	27-Dec-21 A	27-Jan-24	15-Feb-23	11-Mar-23			
LIFT TOWER 1										
 Z3_3630	Lift Tower 1_external finishing	45	36	19-Jun-23 A	11-Aug-23	04-Aug-22	27-Sep-22			
Z3_3640	Lift Tower 1_lift installation	90	90	12-Aug-23	28-Nov-23	27-Sep-22	16-Jan-23			
LIFT TOWER 2	& STAIRCASE									
Z3_3710	Lift Tower 2_lift installation	60	15	16-May-23 A	18-Jul-23	13-Jul-22	22-Sep-22		Lift	Tower 2_lift install
Z 3_3720	Lift Tower 2_remaining E&M works	30	30	30-Jun-23	04-Aug-23	17-Aug-22	22-Sep-22			Lift
Z3 3730	Lift Tower 2 finishing works	30	30	30-Jun-23	04-Aug-23	17-Aug-22	22-Sep-22			Lif
Z3 3735	Lift Tower 2 T&C	12	12	05-Aug-23	18-Aug-23	22-Sep-22	08-Oct-22			
Z3_3842	Staircase temporary cycle track ramp on staircase structure	35	0	15-Jun-23 A	-	· ·	30-Aug-22		e temporary cycle track	ramo on staircas
Z3 3844	Staircase diversion pedestrian and cyclist to new staircase	0	0		18-Aug-23		08-Oct-22	Otalica		ramp on star cas
Z3_3866	Staircase Staircase finishing works	28	24	23-Jun-23 A		26-Oct-23	28-Nov-23			
		20		Eo oun Eo X		20 001 20	20 1107 20			
Z3_4280	Demolish of existing cycle track ramp	21	21	19-Aug-23	12-Sep-23	08-Oct-22	02-Nov-22			
Z3_4290	CT-PC1 ELS & pile cap construction	21	21	23-Sep-23	12-00p-20 19-Oct-23	14-Mar-23	12-Apr-23			
Z3_4230	CT-PC2 ELS & footing construction	21	21	23-Sep-23	19-Oct-23	14-Mar-23	12-Apr-23			
NEW SLIP RO		21	<u> </u>	20 0cp-20	10 000-20	1- IVIAI-23	12 Api 20			
Z3_5540	SR5-2_ELS & pile cap construction	45	43	26-,1un-23 A	15-Nov-23	14-Mar-23	11-May-23			
	ALL & SUB WAY		UT	20 001-20 A	10 1104-20	1 1 Witt - 20	11 Widy-20			
RETAINING W										
	0 RW3_soldier pile works (13nr)	78	78	11-Jul-23	12-Oct-23	22-Aug-22	23-Nov-22			
RETAINING W		,,,	,0	11 001 20	12 001 20	/.ug //				
Z3 4880	RW5 Combined SE4_ELS works for Bay500 to 505 (48m_2 side)	27	24	08-Jun-23 A	13-Oct-23	14-Jan-23	18-Feb-23			
Z3_4890	RW5 Combined SE4_EES works for BaySoo to SoS (4011_2 side) RW5 Combined SE4 base slab construction for Bay 500 to 505	60	60	13-Sep-23	24-Nov-23	03-Feb-23	19-Apr-23			
	TING RETAINING WALL SR6	00	00	10-0ep-20	2	00-1 60-23	13-Api-23			
Z3_5190	SR6_remove ELS & backfill for Bay SR601 to SR609	8	8	24-Jul-23	01-Aug-23	26-Nov-22	05-Dec-22			
		0	0	24-Jul-23	01-Aug-23	20-1100-22	05-Dec-22			SR6_I
•	WEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)									
PRELIMINARI										
SUMMARY PR										
Z4SU1005	Zone 4 Stage 1 NB & SB foundation/stem wall	434	133	06-Mar-20 A	06-Dec-23	31-Mar-20	16-Sep-21			
Remaining	Level of Effort Remaining Work Milestone			~	Contract No	NE/2017	/05		Date	Re
0		B	Niders!						08-Jul-23 3	MRP DWP 230
Actual Leve	0	Hoad V	waening		-			Road (Sha Tin)		
Actual Wor	rk Primary Baseline			3 Months	Rolling P	rogramme	(30/06/23)			

Layout : NE/2017/05 TPR 3MRP DWP 2306 TASK filter: 3 Months Rolling Programme.

0000				
2023 Aug		Sep		Oct
62		63		64
andoned 11kv cable for SR6 ew cable for SR6 CH1800-1 1800-1810 10m	870 70m			
U trough between cycle trac rough between RW1 to SR		Stage 1		
MTRC cable existing parapet wall 264_install precast slab				
N264_in-situ	i concrete sl	ab & parapet		
struction nstruct bridge deck betweer	n SAW-1 an		I	
	II SAW-I all			re existin
Lift Tower 1_extern	nal finis hing			
stallation Lift Tower 2_remaining E&l Lift Tower 2_finishing work Lift Tower 2	s			
case structure		destrian and c	syclist to	o new sta
		Demolish	of existi	ng cycle
R6_remove ELS & backfill fo	or Bay SR60	1 to SR609		
Revision	Checked	Approved		
		Approved	4	of 6
2306	EGA			

中國中鐵一中鐵一局-振華工程聯營

iy ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish	Jun	Jul	
Z4SU1100	Zone 4 NF66 Construction	220	0	20 101 20 4	14-Mar-23 A	21 Aug 20	31-May-21	60	61	
		220	U	20-JU-20 A	14-111al-23 A	31-Aug-20	31-1May-21		1	
NORTHBOUN										
🛑 Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	30-Jun-23	29-Jul-23	05-Aug-22	02-Sep-22			UU_C
SOUTHBOUN										
— Z4_1380	UU_Salt watermain for SE6 CH2275-2345 56m 700mm	20	20	30-Jun-23	25-Jul-23	11-Apr-22	09-May-22			UU_Salt w
	ER AND SEMI-ENCLOSURE									
PILE FOUNDA CENTRAL BA										
Z4_1060	SE6 mini piles for S6E1-01A & 01 B (10n r ver)	30	0	09-Jan-23 A	21-Jun-23 A	03-Nov-22	07-Dec-22	050	ni piles for S6E1-01A&	0.1 B (10 nr ver)
			Ű	00 04.1 2071	21 0011 2071		01 200 11			
NORTHBOUN										
= Z4_1000	N4_ELS for pile cap construction N4-12P to N4-27P (231m_2 side)	64	43	20-May-23 A	18-Sep-23	03-Sep-22	19-Nov-22		4	
 Z4_1010	N4_pile cap/stem wall construction N4-12P to N4-27P (15nr)	90	86	29-Jun-23 A	10-Nov-23	14-Oct-22	02-Feb-23	[4	
CENTRAL BA										
Z4_1081	SE6_Re-align TTA for central median footing S6E1-11 to S6E1-16	24	24	12-Jul-23	09-Aug-23	06-Sep-22	06-Oct-22			
Z4_1082	SE6_ELS for footing/cap construction S6E1-11 to S6E1-16 (67m_2 side) SE6_cap/footing/stem wall construction S6E1-11 to S6E1-16 (6nr)	34	34	09-Aug-23 29-Aug-23	18-Sep-23 09-Jan-24	07-Oct-22 27-Oct-22	15-Nov-22			
Z4_1084 STRUCTURE S		108	108	29-Aug-23	09-Jan-24	27-061-22	08-Mar-23			
							_			
Z 4_1180	SE6_erect steel posts PV1 to PV59 (59nr)	15	2	31-Aug-22 A	04-Jul-23	09-Jun-22	27-Jun-22		SE6 erect steel	posts PV1 to PV
ROADWORKS	AND REMAINING WORKS		1						_	
ROADWORKS										
SOUTHBOUN										
 Z4_1250	Drainage construction MS83 to MS87 279m	47	9	15-Jun-22 A	12-Jul-23	05-May-22	30-Jun-22		Drainag	e construction N
WORK BET	WEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)									
PRELIMINARIE										
		407	00	40 E + 00 A	10.0 1 00	01 14 - 00				
Z5SU1005	Zone 5 Stage 1 NB & SB foundation/stem wall	467	93	10-Feb-20 A	19-001-23	31-Mar-20	28-Oct-21			
Z 5_1860	UU_Salt watermain for SE3 CH2360-2530 179m 700mm	60	60	25-Jul-23	05-Oct-23	09-May-22	20-Jul-22			
	ER AND SEMI-ENCLOSURE									
PILE FOUNDA	TON WORKS									
CENTRAL BA										_
Z5_1090	SE3-1_mini piles for S3E1-02P, 14P, S3E1-20P to 22P (36nr ver)	36	14		21-Aug-23	22-Oct-22	02-Dec-22		1	
😑 Z5_1980	SE3-2_mini piles for S3E2-11P (6nr ver)	12	0	15-May-23 A	03-Jun-23 A	03-Dec-22	16-Dec-22	2_nini piloo for COE2	-11P (6nr ver)	
PILE CAP A ND										
Z5_1020	N4 ELS for footing/cap construction N4-29P to N4-51 (322m 2 side)	161	45	01-Feb-21 A	22-Aug-23	11-May-21	20-Nov-21			
Z5_1030	N4_cap/footing/stem wall construction N4-29 to N4-51 (23nr)	216	50	27-Mar-21 A		25-May-21	12-Feb-22			
 Z5_1050	N4_backfill & remove ELS	54	12	14-Apr-21 A	· ·	28-Oct-22	03-Jan-23			
CENTRAL BA	RRIER									
 Z5_1100	SE3-1_ELS for footing/cap construction S3E1-01 to S3E1-22p (305m_2 side)	84	72	18-May-23 A	31-Oct-23	24-Aug-22	02-Dec-22		4	
SOUTHBOUN										
 Z5_1190	SE3-1_ELS for footing/cap construction S3E1-51P to S3E1-74P (313m_2 side)	58	3	03-Jan-22 A		29-Apr-22	09-Jul-22		SE3-1_ELS for f	0 1
Z5_1200	SE3-1_footing/stem wall construction S3E1-51P to S3E1-74P & N3-01 (21nr)	198	10	21-Jan-22 A		26-Mar-22	24-Nov-22		SE3-1_f	footing/stem wal
Z5_1220	SE3-1_backfill & remove ELS	52	47	15-Sep-22 A	-	23-Sep-22	25-Nov-22			
Z5_1222	SE3-2_ELS for footing construction S3E2-51 to S3E2-53 (32m_2 side)	16	16	30-Jun-23	19-Jul-23	10-Jun-22	29-Jun-22			SE3-2_ELS for t
Z5_1224	SE3-2_footing/cap/stem wall construction S3E2-51 to 53 (2nr)	36	36	20-Jul-23	30-Aug-23	29-Jun-22	11-Aug-22		-	
Z5_1226	SE3-2_backfill & remove ELS	22	22	31-Aug-23	25-Sep-23	11-Aug-22	06-Sep-22			
SOUTHBOUN										
Z5_1430	SE3-2_erect steel posts PY79 to PY112 (34nr)	9	9	04-Aug-23	17-Aug-23	07-Jun-22	17-Jun-22			
								L	I	
Remaining	Level of Effort Remaining Work <			C	ontract No	. NE/2017	/05		Date	
Actual Leve	-	Boad V	Videning					Road (Sha Tin)	08-Jul-23	3MRP DWP 2
	C C		y		-					
Actual Wor	k Primary Baseline			2 Mantha		rogramme	(20/06/02)			

	Layou		05 TPR 3MRP)WP 2306
	TAS	SK filter: 3 M	onths Rolling Programme.
2002			
2023	1	Sep	Oct
Aug 62	-	63	Oct 64
02		05	04
CATV-slew cable for N4 CH	12190-2400 2	210m	
watermain for SE6 CH2275	-2345 56m 7	00mm	
		N4	ELS for pile cap
SE6_Re-align TTA fo	or central me		
		SE6	_ELS for footing
V59 (59nr)			
MS83 to MS87 279m			
			U
SE3-1_r	mini piles for	S3E1-02P, 14	P, S3E1-20P to :
	S for footing	can construct	tion N4-29P to N
N4_EL		<u> </u>	o/footing/stem w
struction S3E1-51P to S3E1	-74P (313m	2 side)	
all construction S3E1-51P to			
SE3	-1_backfill &	remove ELS	
footing construction S3E2-5			e) wall constructio
			SE3-2_back
SE3-2_erec	t steel posts	PY79 to PY11	2 (34nr)
Revision	Checked	Approved	5 of 6
2306	EGA		5010

中國中鐵一中鐵一局一振華工程聯營

Activity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	AP13 Start	AP13 Finish			202
,	,	Duration	Duration					Jun	Jul	
	DUND SLIP ROAD							60	61	
Z5 1450		2	1	07-Jul-22 A	03-Jul-23	10-Jun-22	14-Jun-22		N3 erect steel posts P	W1 to PW7 (7n
NOISE BA	RRIER PANEL				1					
	DUND SLIP ROAD									
📑 Z5_1470	N3_install noise barrier wall panel PW1 to PW7 (96 sq.m)	1	1	07-Oct-22 A	04-Jul-23	29-Jun-22	30-Jun-22		N3 install noise barrie	wall panel PW
= Z5_1480	R4_install noise barrier wall panel PW8 to PW48 (651 sq.m)	4	1	07-Oct-22 A	05-Jul-23	17-Aug-22	23-Aug-22		R4_install noise barri	er wall panel P\
	RKS AND REMAINING WORKS								_	
ROADWO	RKS									
	OUND									
🔲 Z5_1490	Drainage construction MN170 to MN172 129m	40	40	23-Aug-23	11-Oct-23	05-Nov-22	22-Dec-22			
	DUND									
= Z5_1550	Drainage construction MS109 to MS112 & MS123 to MS124 246m	77	15	01-Sep-22 A	16-Aug-23	16-Aug-22	17-Nov-22			
= Z5_1560	Drainage construction MS126 to MS128 144m	45	23	04-Jul-22 A	27-Jul-23	31-Mar-22	27-May-22			Drainage co
	DUND SLIP ROAD									
📄 Z5_1600	Zone 5_road surfacing with flexible pavement Type 2 1257m2	9	9	05-Jul-23	18-Jul-23	23-Aug-22	05-Sep-22		Zone 5	_road surfacing
	NICAL WORKS									
	OUND SLIP ROAD									
Z5_1820		53	50	20-Mar-23 A	08-Sep-23	27-Sep-22	30-Nov-22			
	OUND SLIP ROAD									
Z5_1740		29	3	12-Mar-21 A		07-Apr-22	14-May-22		Zone 5_fill replacemer	
= Z5_1810	Zone 5_fill replacement 7SE-A/F165 (compacted fill)	20	6	02-Mar-23 A	11-Jul-23	06-Aug-22	30-Aug-22		Zone 5_fill repl	acement 7SE-/

Actual Level of Effort

Actual Work

Remaining Level of Effort Remaining Work \diamond Critical Remaining Work Primary Baseline

Milestone Baseline Milesto...

Date Contract No. NE/2017/05 08-Jul-23 3MRP DWP 23 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin) 3 Months Rolling Programme (30/06/23)

Layout : NE/2017/05 TPR 3MRP
DWP 2306
TASK filter: 3 Months Rolling
Programme.

	5	
2023		
Aug 62	Sep	Oct
62	63	64
7 (7nr)		
/ (////)		
el PW1 to PW7 (96 sq.m)		
nel PW8 to PW48 (651 sq.m)	
iei F Wo to F W48 (051 Sq.iii)	
Drainage cons	struction MS109 to MS112 & MS	123 to M
e construction MS126 to MS	S128 144m	
acing with flexible pavement	Type 2 1257m2	
	Zone 5_fill replacemen	IL / SE-/
es concrete 7SE-A/F166 (o	pen excavation)	
SE-A/F165 (compacted fill)		

Revision	Checked	Approved	6 of 6
306	EGA		0.01.0

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

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

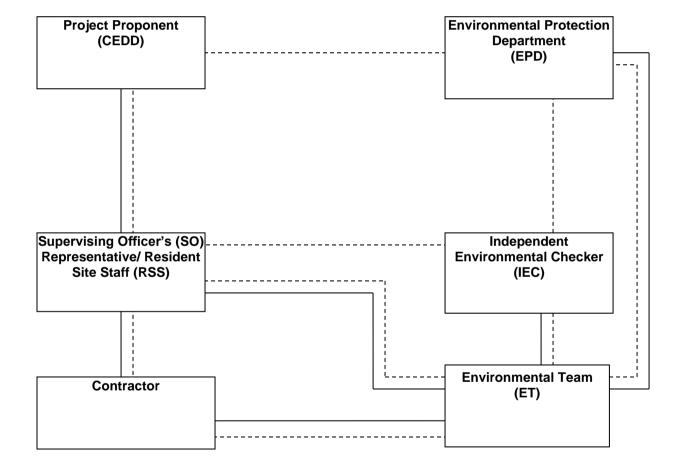


Appendix B

Project Organization Chart

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





Legend:		
Line of Reporting		
Line of Communication		

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

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



Appendix C

Action and Limit Levels for Air Quality and Noise

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



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

Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)
	AMS4	200	
24-hr TSP	AMS7A	171	260
(µg/m³)	AMS12	168	200
	AMS17	171	
	AMS4	348	
1-hr TSP	AMS7A	344	500
(µg/m³)	AMS12	296	500
	AMS17	338	

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

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

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



Appendix D

Calibration Certificates of Monitoring Equipment



Report no.: 940891CA222379(3)

Page 1 of 1

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

: Laser Dust Monitor
: SIBATA
: LD-5R
: 114892
: NA
25-Aug-2023

Laboratory Information

Details of Reference Equipment -

Description	: 1.Reference balanc	e 2. TSP high Volume air sampler
Equipment ID / Se	erial no. :1.C-065-5	2. 4350
Date of Calibration	n : 26-Aug-2022	Ambient Temperature : 33 °C
Calibration Location	: Calibration Lab. of FTS	
Method Used	: By direct comparison the	weight of dust particle trapped in a filter paper using high
	volume sampler (TSP me	ethod) for a certain period, with the reading of the UUT. They

should be placed at the same location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m ³)	Total count for 1 hour	CPM (Count per minute)
0.0501	1531	25.52
0.0366	1075	17.92
0.0443	1290	21.50

Remarks:

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

2. The interpolation equation : Concentration (mg/m³) = K x UUT reading (CPM) where K = 0.002014

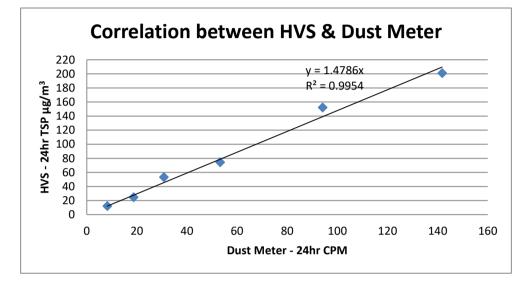
3. Correlation coefficient (r): 0.9936

Checked by : Date :	: 18-10-2022 Certified by : FI Toung Date : 19-10-2022
CA-R-297 (22/07/2009)	Leung Kwok Tai (Assistant Manager)

** End of Report **

Correlation between HVS & Dust Meter Model: Sibata LD-5R Serial No: 114892

HVS - 24hr TSP μg/m ³	12.26	24.82	53.28	74.4	152.38	201.17
Dust Meter - 24hr CPM	8.2	18.7	30.8	53.2	94.1	141.8



K factor = 1.479



Report no.: 940891CA222379(4)

Page 1 of 1

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description			Laser Dust Monitor
Manufacturer			SIBATA
Model No.		÷	LD-5R
Serial No.		·	114893
Specification Limit		•	NA
Next Calibration Date	:		25-Aug-2023

Laboratory Information

Details of Reference Equipment -

Description		: 1.Reference balance	2. TSP high Volume air sampler
Equipment ID / Se	erial r	no. : 1.C-065-5	2. 4350
Date of Calibratio	n :	26-Aug-2022	Ambient Temperature : 33 °C
Calibration Location	•	Calibration Lab. of FTS	
Method Used	19. 19.	By direct comparison the we	eight of dust particle trapped in a filter paper using high
		volume sampler (TSP meth	od) for a certain period, with the reading of the UUT. They
		should be placed at the sam	ne location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m ³)	Total count for 1 hour	CPM (Count per minute)
0.0501	1452	24.20
0.0366	1089	18.15
0.0443	1287	21.45

Remarks:

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

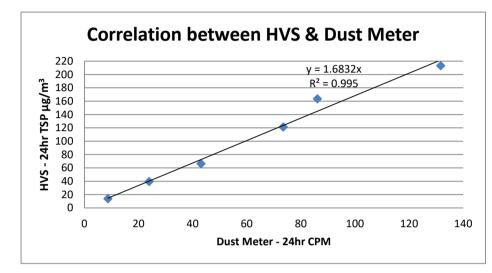
2. The interpolation equation : Concentration $(mg/m^3) = K \times UUT$ reading (CPM) where K = 0.002057

3. Correlation coefficient (r): 0.9996

Checked by :	Date : 19-10-2022 Certified by : 17 Journa Date : 19-10-2022
CA-R-297 (22/07/2009)	Leung Kwok Tai (Assistant Manager)

Correlation between HVS & D	Dust Meter
Model:	Sibata LD-5R
Serial No:	114893

HVS - 24hr TSP μg/m ³	13.73	39.43	66.32	121.41	163.43	213.11
Dust Meter - 24hr CPM	8.7	23.9	43.1	94.0	117.5	161.0



K factor = 1.683



Report no.: 940891CA222379(5)

Page 1 of 1

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description	: Laser Dust Monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 114894
Specification Limit	: NA
Next Calibration Date	: 25-Aug-2023

Laboratory Information

Details of Reference Equipment -

Description	: 1.Reference balance	2. TSP high Volume air sampler			
Equipment ID / Serial	no. : 1.C-065-5	2. 4350			
Date of Calibration	26-Aug-2022	Ambient Temperature : 33 °C			
Calibration Location :	Calibration Lab. of FTS				
Method Used :	By direct comparison the we	eight of dust particle trapped in a filter paper using high			
	volume sampler (TSP method) for a certain period, with the reading of the UUT. They				
	should be placed at the sam	ne location and powered on and off at the same time.			

Calibration Results :

Reference concentration (mg/m ³)	Total count for 1 hour	CPM (Count per minute)
0.0501	1386	23.10
0.0366	998	16.63
0.0443	1247	20.78

Remarks:

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

2. The interpolation equation : Concentration $(mg/m^3) = K \times UUT$ reading (CPM) where K = 0.002164

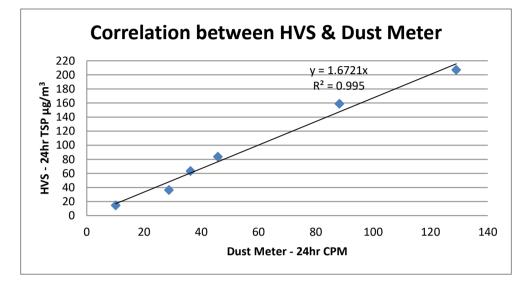
3. Correlation coefficient (r): 0.9967

Checked by : Date : / P-16-2022	Certified by :_ FJ Joung_Date :_ 19-10-2022
CA-R-297 (22/07/2009)	Leung Kwok Tai (Assistant Manager)

** End of Report **

Correlation between HVS & Dust Meter Model: Sibata LD-5R Serial No: 114894

HVS - 24hr TSP μg/m ³	14.58	36.38	63.37	83.74	158.91	207.3
Dust Meter - 24hr CPM	10.1	28.7	36.2	45.8	88.2	129.0



K factor = 1.672



Report no.: 940891CA222379(6)

Page 1 of 1

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

	;	Laser Dust Monitor
	;	SIBATA
	:	LD-5R
	;	114895
		NA
:		25-Aug-2023
	:	::

Laboratory Information

Details of Reference Equipment -

Description		: 1.Reference balance	2. TSP high Volume air sampler		
Equipment ID / Se	erial	no. : 1.C-065-5	2. 4350		
Date of Calibratio	n :	26-Aug-2022	Ambient Temperature : 33 °C		
Calibration Location	:	Calibration Lab. of FTS			
Method Used	:	By direct comparison the we	eight of dust particle trapped in a filter paper using high		
		volume sampler (TSP method) for a certain period, with the reading of the UUT. They			
		should be placed at the sam	ne location and powered on and off at the same time.		

Calibration Results :

Reference concentration (mg/m ³)	Total count for 1 hour	CPM (Count per minute)
0.0501	1421	23.68
0.0366	963	16.05
0.0443	1233	20.55

Remarks:

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

2. The interpolation equation : Concentration $(mg/m^3) = K \times UUT$ reading (CPM) where K = 0.002165

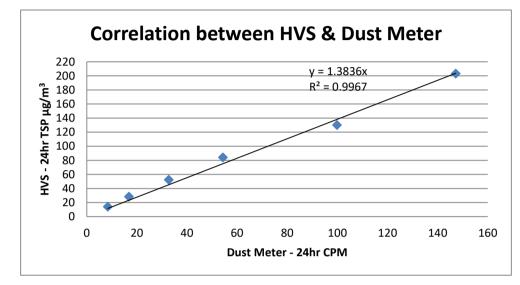
3. Correlation coefficient (r): 0.9997

Checked by :	Date : 18-16-2022	Certified by :_	PJ Leung	Date : 19-10-2022
CA-R-297 (22/07/2009)		Leung	Kwok Tai (Assista	ant Manager)

** End of Report **

Correlation between HVS & Dust Meter Model: Sibata LD-5R Serial No: 114895

HVS - 24hr TSP μg/m ³	14.28	28.39	52.43	84.17	130.22	203.37
Dust Meter - 24hr CPM	8.4	16.8	32.7	54.3	99.84	147.2



K factor = 1.384



Report no.: 212769CA221660

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd. Project : Calibration Services

Details of Unit Under Test, UUT

Description	: 5	Sound Level Meter		
Manufacturer	: (Casella		
		Meter	Microphone	Preamplifier
Model No.	: [CEL-63X	CE-251	CEL-495
Serial No.	: [0873599	02374	003916
Equipment ID	: 1	N/A		
Next Calibration Date	: 1	3-Jul-2023		
Specification Limit	: E	EN 61672-1: 2003 Cla	ass 1	

Laboratory Information

Details of Reference Equipment -

Botano or riororororo	-	quipinon				
Description :		B & K Acoustic Multifunction Cali	brator 4226 (Traditional f	ree	field setting)	
Equipment ID. :						
Date Receipt of UUT	:	13-Jul-2022				
Date of Calibration	:	14-Jul-2022				
Calibration Location	:	Calibration Laboratory of FTS	Ambient Temperature	:	20±2 °C	
Method Used	:	By direct comparison	Relative Humidity	:	<80% R.H.	
As Received	:	Functional / Within specs		:		
As Returned	:	Complies with the specification lin	mits (EN61672-1:2003 C	lass	s 1)	
Calibration Deputto			,			

Calibration Results :

Parame	ters	Mean Value (dB)	Specific	ation	Limit(dB)
	4000Hz	1.6	2.6	to	-0.6
	2000Hz	1.3	2.8	to	-0.4
A-weigthing	1000Hz	0.0	1.1	to	-1.1
frequency	500Hz	-3.3	-1.8	to	-4.6
response	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.2	-14.6	ío	-17.6
	63Hz	-26.2	-24.7	to	-27.7
Differential level	94dB-104dB	0.0		± 0.6	6
linearity	104dB-114dB	0.0		± 0.6	6

Remarks :

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

Checked by : SUA	_ Date :	14-7-2022 Certified by: RJ Loung Date: 15.7-2022
CA-R-297 (22/07/2009)		Leung Kwok Tai (Assistant Manager)
		** End of Report **



Report no.: 212769CA222278(2)

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd. **Project : Calibration Services**

Details of Unit Under Test, UUT -

Description	:	Sound Level Meter		
Manufacturer	:	Casella		
		Meter	Microphone	Preamplifier
Model No.	:	CEL-63X	CE-251	CEL-495
Serial No.	:	1488303	05248	004910
Equipment ID	:	N/A		
Next Calibration Date	:	26-Sep-2023		
Specification Limit		EN 61672-1: 2003 Class	1	

Laboratory Information

Details of Reference Equipment -

Description : Equipment ID. :		B & K Acoustic Multifunction Calib R-108-1	rator 4226 (Traditional fr	ee	field setting)
Date of Receipt UUT					
Date of Calibration	:	27-Sep-2022			
Calibration Location	÷	Calibration Laboratory of FTS	Ambient Temperature	:	20±2 °C
Method Used		By direct comparison	Relative Humidity	:	<80% R.H.

Relative Humidity

Calibration Results :

Parame	ters	Mean Value (dB)	Specification Limit(Limit(dB)
	4000Hz	1.3	2.6	to	-0.6
	2000Hz	1.3	2.8	to	-0.4
A-weigthing	1000Hz	0.0	1.1	to	-1.1
frequency	500Hz	-3.4	-1.8	to	-4.6
response	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.3	-24.7	to	-27.7
Differential level	94dB-104dB	0.0		± 0.6	3
linearity	104dB-114dB	0.0		± 0.6	3

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.

: By direct comparison

- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.
- 6. The decision rule is based on binary statement for simple acceptance rule (w = 0).

Checked by :	_Date : 29-9-200 Certified by : _	K.T. Toung Date	: 29-9-2022
CA-R-297 (22/07/2009)	Leung Kwo	k Tai (Assistant Manager)	
	** End of Report	**	

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Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong Page 1 of 1

Report no.: 212769CA221783

IBRATION CERTIFICATE OF SOUND LEVEL METER

at Supplied Information

• •	formation						
Client : Fugro Te		vices Ltd.					
Project : Calibration Services							
Details of Unit Under Test, UUT							
Description	: :	Sound Level Meter					
Manufacturer	: _	Casella					
	Ļ	Meter	Microphone	F	Preamp		
Model No.	: [CEL-63X	CE-251		CEL-4	and the second sec	
Serial No.	:	1488293	02772		00402	20	
Equipment ID		N/A					
Next Calibration Da		27-Jul-2023					
Specification Limit		EN 61672-1: 2003 Clas	s 1				
Laboratory Inform							
Details of Reference							
		Acoustic Multifunction C	alibrator 4226 (Tradition	nal free	e field sett	ing)
Equipment ID. : R-108-1							
Date Receipt of UU							
Date of Calibration	: 28-Jul-	2022				00.0	°0
Date of Calibration Calibration Location	: 28-Jul- n : Calibra	2022 ation Laboratory of FTS		5 • · ·			
Date of Calibration Calibration Location Method Used	: 28-Jul- n : Calibra : By dire	2022	Ambient Te Relative Hu	5 • · ·	ure : :		
Date of Calibration Calibration Location Method Used Calibration Result	: 28-Jul- n : Calibra : By dire s :	2022 ation Laboratory of FTS ect comparison	Relative Hu	umidity	:	<80% R	
Date of Calibration Calibration Location Method Used	: 28-Jul- n : Calibra : By dire s :	2022 ation Laboratory of FTS	Relative Hu	umidity	:	<80% R imit(dB)	
Date of Calibration Calibration Location Method Used Calibration Result	: 28-Jul- n : Calibra : By dire s :	2022 ation Laboratory of FTS act comparison Mean Value	Relative Hu	umidity	:	<80% R	
Date of Calibration Calibration Location Method Used Calibration Result	: 28-Jul- n : Calibra : By dire s : ters	2022 ation Laboratory of FTS act comparison Mean Value z 0.6	Relative Hu	umidity Specific	: ation L	<80% R imit(dB)	
Date of Calibration Calibration Location Method Used Calibration Result Paramet	: 28-Jul- : Calibra : By dire s : ters 4000Hz	2022 ation Laboratory of FTS act comparison Mean Value z 0.6 z 1.0	Relative Hu	umidity Specific 2.6	: ation L to	<80% R imit(dB) -0.6	
Date of Calibration Calibration Location Method Used Calibration Result Paramet A-weigthing frequency	: 28-Jul- : Calibra : By dire s : 4000Hz 2000Hz	2022 ation Laboratory of FTS ect comparison Mean Value z 0.6 z 1.0 z 0.0	Relative Hu	Specific 2.6 2.8	: ation L to to	<80% R imit(dB) -0.6 -0.4	
Date of Calibration Calibration Location Method Used Calibration Result Paramet A-weigthing	: 28-Jul- : Calibra : By dire s : 4000Hz 2000Hz 1000Hz	2022 ation Laboratory of FTS act comparison Mean Value z 0.6 z 1.0 z 0.0 z 0.0 -3.3	Relative Hu	Specific 2.6 2.8 1.1	: ation L to to to	<80% R imit(dB) -0.6 -0.4 -1.1	
Date of Calibration Calibration Location Method Used Calibration Result Paramet A-weigthing frequency	: 28-Jul- : Calibra : By dire s : 4000Hz 2000Hz 1000Hz 500Hz	2022 ation Laboratory of FTS ect comparison Mean Value z 0.6 z 1.0 z 0.0 z -3.3 -8.6	Relative Hu	Specific 2.6 2.8 1.1 -1.8	: to to to to	<80% R imit(dB) -0.6 -0.4 -1.1 -4.6	
Date of Calibration Calibration Location Method Used Calibration Result Paramet A-weigthing frequency	: 28-Jul- : Calibra : By dire s : 4000Hz 2000Hz 1000Hz 500Hz 250Hz	2022 ation Laboratory of FTS ect comparison Mean Value z 0.6 z 1.0 z 0.0 z 0.0 -3.3 -8.6	Relative Hu	Specific 2.6 2.8 1.1 -1.8 -7.2	in to	<80% R imit(dB) -0.6 -0.4 -1.1 -4.6 -10.0	
Date of Calibration Calibration Location Method Used Calibration Result Paramet A-weigthing frequency	: 28-Jul- : Calibra : By dire s : 4000Hz 2000Hz 1000Hz 500Hz 250Hz 125Hz	2022 ation Laboratory of FTS act comparison Mean Value z 0.6 z 1.0 z 0.0 z 0.0 z 0.0 z 0.0 z 0.0 z 0.0 z 0.0 z 0.0	Relative Hu	Specific 2.6 2.8 1.1 -1.8 -7.2 -14.6	eation L to to to to to to	<80% R imit(dB) -0.6 -0.4 -1.1 -4.6 -10.0 -17.6	

Remarks :

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

2. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast

- 3. The mean value is the average of four measurements.
- 4 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : /_____ Certified by : _____ Date : _____ Date : _____ CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager) ** End of Report **



Page 1 of 1

Report no.: 212769CA222517

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd. Project : Calibration Services

Details of Unit Under Test, UUT -

Description	:	Sound Level Meter							
Manufacturer		Casella							
		Meter	Microphone	Preamplifier					
Model No.	:	CEL-63X	CE-251	CEL-495					
Serial No.	:	4181587	05175	003975					
Equipment ID		N/A							
Next Calibration Date	: .	25-Oct-2023							
Specification Limit	:	EN 61672-1: 2003 Class	1						

Laboratory Information

Details of Reference	E	quipment -			
Description	÷	Acoustic Multifunction Calibrator			
Equipment ID.	;	R-108-1			
Date of Receipt Date of Calibration	:	25-Oct-2022 26-Oct-2022			
Calibration Location	•	Calibration Laboratory of FTS	Ambient Temperature	:	20±2 °C
Method Used	:	By direct comparison	Relative Humidity	:	<80% R.H.

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit		Limit(dB)
A-weigthing frequency response	4000Hz	-0.4	2.6	to	-0.6
	2000Hz	0.3	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
	500Hz	-2.9	-1.8	to	-4.6
	250Hz	-8.1	-7.2	to	-10.0
	125Hz	-15.5	-14.6	to	-17.6
	63Hz	-25.6	-24.7	to	-27.7
Differential level linearity	94dB-104dB	0.1		± 0.6	
	104dB-114dB	0.0			

Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast.
- 4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	_Date : <u>3/-/o-2002</u> Certified by : <u>KIJeuma</u> Date : <u>3/-10->07</u>
CA-R-297 (22/07/2009) 🛛 🗸	Leung Kwok Tai (Assistant Manager)
	** End of Report **

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	case of ad Calibration for
CEL-120 Acou	stic Calibrator
Applicable Standards :-IEC	60942: 2003 & ANSI S1.40: 2006
CEL-120/1 Class 1	
CEL-120/2 Class 2	
052	Eral
Serial No: 252	0810
Firmware: 04	5896 ressure: <u>1017</u> mb %RH 56
Temperature: 209°C P	ressure: 1017 mb %RH 20
Frequency = 1.00kHz ± 2Hz	
T.H.D. = < 1%	Calibration Level
SPL @ 114.0dB Setting	114.01 dB
SPL @ 94.0dB Setting (CEL-120/1 only)	93.99 dB/N.A
$\bigcap D$	0 3 NOV 2022
Engineer March	Le Date :- UJ INUV LULL
	the second for anothermore testing are
authing to periodic calibration, traceable t	king standards, used for conformance testing, are o UK national standards, in accordance with the 99001 Quality System.
company's ISC	Soor Quality System.
second	N OF CONFORMITY ified above has been produced and tested to comply with
the manufacturer's published specifications a	nd the relevant European Community CE directives. Casella
Regent House, Wolseley Ro Phone: +44 (0) 1234 8441	ad, Kempston, Bedford. MK42 7JY
E-mail: info(@casellasolutions.com
Web: www.	casellasolutions.com 198032A-

Certificate of Conformance and Calibration for	
CEL-120 Acoustic Calibrator	
Applicable Standards :-IEC 60942: 2003 & ANSI \$1.40: 2006	
CEL-120/1 Class 1	
CEL-120/2 Class 2	
Serial No: <u>2525984</u> Firmware: <u>04</u> Temperature: <u>23°9 °C</u> Pressure: <u>1016</u> mb %RH 55	
Frequency = 1.00kHz ± 2HzCalibration LevelT.H.D. = < 1%	
Company test equipment and acoustic working standards, used for conformance testing, are subject to periodic calibration, traceable to UK national standards, in accordance with the company's ISO9001 Quality System.	
DECLARATION OF CONFORMITY This certificate confirms that the instrument specified above has been produced and tested to comply with the manufacturer's published specifications and the relevant European Community CE directives.	h
Casella Regent House, Wolseley Road, Kempston, Bedford, MK42 7JY Phone: +44 (0) 1234 844100 Fax: +44 (0) 1234 841490 E-mail: info@casellasolutions.com	
Web: www.casellasolutions.com 198032A-(12



<80% R.H.

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

Report no.: 212769CA223056(2)

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Page 1 of 1

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description		:	Sound Calibrator	
Manufacturer		:	Casella (Model CEL-120/1)	
Serial No.		:	4358250	
Equipment ID		:	N/A	
Next Calibration Date	:			
Specification Limit	;	ΕN	l 60942: 2003 Class 1	
Laboratory Informat	ion			
Details of Calibration	Equ	ipme	ent	
Description : Reference Sound level meter				
Equipment ID	P	110	2	

Equipment ID.		R-119-2	
Date of Receipt UU	T :	30-Dec-2022	
Date of Calibration	÷	04-Jan-2023	
Calibration Location	ו :	Calibration Laboratory of FTS	Ambient Temperature : 20±2 °C
Method Used	÷	By direct comparison	Relative Humidity : <80%

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	5.4 dB		
114dB	5.5 dB	±0.4dB	

Remarks :

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

 Checked by :
 M
 Date :
 2-/-2023
 Certified by :
 M
 Date :
 2-/-2023
 Certified by :
 Carrier Comparison
 Carrier Comparison

** End of Report **



Report no.: 212736CA221775 Page 1 of 1 CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd. Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

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

Laboratory Information

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

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)	
94dB	-0.2 dB	±0.4dB	
114dB	0.2 dB	±0.40D	

Remarks :

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- A general inspection of the item has been carried out and found the item is in good working conditions. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties will not include allowances for the environmental changes,

variation and shock during transportation, or the capability of any other laboratory to repeat the

Checked by : AllA	Date: 1-8-2022 Certified by: 67. Jound Date: 2-8-2022
CA-R-297 (22/07/2009)	Leung Kwok Tai (Asśistant Manager)
	** End of Report **

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



Appendix E

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2	3
					AMS4A Wai Wah Centre		
					AMS7A Sheung Wo Che		
					AMS12 Fung Wo Estate		
					AMS17 Wo Che Estate		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS		
					6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,	
					23, NMS 27	NMS 24, NMS 25A, NMS 26	
	4	5	6	7	8	9	10
				AMS4A Wai Wah Centre			
				AMS7A Sheung Wo Che			
				AMS12 Fung Wo Estate			
				AMS17 Wo Che Estate			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS			
				6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,		
				23, NMS 27	NMS 24, NMS 25A, NMS 26		
	11	12		14	15	16	17
			AMS4A Wai Wah Centre				
			AMS7A Sheung Wo Che				
Jun-23			AMS12 Fung Wo Estate				
			AMS17 Wo Che Estate				
				NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12,			
				NMS 13, NMS 14, NMS17, NMS 19, NMS 20,			
			23, NMS 27	NMS 24, NMS 25A, NMS 26			
	18	19	20	21	22		
		AMS4A Wai Wah Centre					AMS4A Wai Wah Centre
		AMS7A Sheung Wo Che					AMS7A Sheung Wo Che
		AMS12 Fung Wo Estate					AMS12 Fung Wo Estate
		AMS17 Wo Che Estate					AMS17 Wo Che Estate
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS					
			NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26				
	25	25, NWIS 27 26		28	29	30	
	25	20	27	20	AMS4A Wai Wah Centre	30	
					AMS7A Sheung Wo Che		
					AMS12 Fung Wo Estate		
					AMS17 Wo Che Estate		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS		
					6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,	
					23, NMS 27	NMS 24, NMS 25A, NMS 26	

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

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

3. According to the Hong Kong Observatory, anticipated wind directions in June 2023 is southwest.

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

- 1 Trial pits excavation at Zone 1 and 2
- 2 Road surface Maintenance at Zone 1, 2, 3, 4 and 5
- 3 Noise Barrier Foundation Works at Zone 1, 2, 3, 4 and 5
- 4 Slope Reinstatement and Drainage Works at Zone 1
- 5 Noise Barrier Erection Works at Zone 1, 2 and 5
- 6 Relocation of Existing Fire Hydrants and relating Watermains at Zone 1, 2, 3, 4 and 5
- 7 Reinstatement of cycling track at Zone 1 and 4
- 8 Tree Works (preservation / felling/ pruning/ transplantation) at Zone 3
- 9 Reinstatement of footpath and cycle track at Zone 3
- 10 Construction of Retaining Wall and Erection of Parapet at Zone 3
- 11 Lift no.2 Installation + SR5 Foundation Works + Construction of [former staircase] Abutment Wall at Zone 3
- 12 Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
- 13 Construction Works for Lift no.1 at Zone 3
- 14 Construction Works N262 Bridge Deck Widening at Zone 3
- 15 Drainage Works at Zone 3
- 16 Piling Construction Works + Road Drainage Works at Zone 4 and 5
- 17 Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope at Zone 5
- 18 Reinstatement Works for Traffic Island at Zone 5

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
							1
		2 3	4	5	6	7	8
				AMS4A Wai Wah Centre			
				AMS7A Sheung Wo Che			
				AMS12 Fung Wo Estate			
				AMS17 Wo Che Estate			
					NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12,		
				6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,		
				23, NMS 27	NMS 24, NMS 25A, NMS 26		
		9 10		12	13	14	15
			AMS4A Wai Wah Centre				
			AMS7A Sheung Wo Che				
			AMS12 Fung Wo Estate AMS17 Wo Che Estate				
			NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS				
			6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,			
			23, NMS 27	NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26			
Jul-23	1	5 17			20	21	22
	-	AMS4A Wai Wah Centre					AMS4A Wai Wah Centre
		AMS7A Sheung Wo Che					AMS7A Sheung Wo Che
		AMS12 Fung Wo Estate					AMS12 Fung Wo Estate
		AMS17 Wo Che Estate					AMS17 Wo Che Estate
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12,				
		6A, NMS 7, NMS 15, NMS 16, NMS 18, NMS	NMS 13, NMS 14, NMS17, NMS 19, NMS 20,				
		23, NMS 27	NMS 24, NMS 25A, NMS 26				
	2	3 24	25	26	27		29
						AMS4A Wai Wah Centre	
						AMS7A Sheung Wo Che	
						AMS12 Fung Wo Estate	
						AMS17 Wo Che Estate	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20,
						23, NMS 27	NMS 24, NMS 25A, NMS 26
	3	31				25, 100 27	1110 E 1, 1110 EDA, 1110 EO
	-	1					

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

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

3. According to the Hong Kong Observatory, anticipated wind directions in July 2023 is southwest.

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

- 1 Trial pits excavation at Zone 1 and 2
- 2 Road surface Maintenance at 1, 2, 3, 4 and 5
- 3 Noise Barrier Foundation Works at Zone 1, 2, 3, 4 and 5
- 4 Slope Reinstatement and Drainage Works at Zone 1 5 Noise Barrier Erection Works at Zone 1, 2 and 5
- 6 Relocation of Existing Fire Hydrants and relating Watermains at Zone 1, 2, 3, 4 and 5
- 7 Reinstatement of cycling track at Zone 1 and 4
- 8 Tree Works (including preservation / felling/ pruning/ transplantation) at Zone 3
- 9 Reinstatement of footpath at Zone 3
- 10 Reinstatement cycle track at Zone 3 and 4
- 11 Construction of Retaining Wall and Erection of Parapet at Zone 3
- 12 Lift no.2 Installation + SR5 Foundation Works + Construction of [former staircase] Abutment Wall at Zone 3
- 13 Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
- 14 Construction Works for Lift no.1 at Zone 3
- 15 Construction Works N262 Bridge Deck Widening at Zone 3
- 16 Drainage Works at Zone 3
- 17 Pilling Construction Works at Zone 3, 4 and 5
- Road Drainage Works at Zone 4 and 5 18

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

Tentative Regular Night Time Noise Monitoring Schedule (June 2023)

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

Remarks

1. Due to safety concern, 2 staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night of each week.

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

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

Tentative Regular Night Time Noise Monitoring Schedule (July 2023)

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

Remarks

1. Due to safety concern, 2 staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night of each week.

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

	周次	日	1	-	1:1	四	五	六	假 期 / 事 項
					1	2	3	4	下學期開始(6/2)
=	二十四	5	6	7	8	9	10	11	
	二十五	12	13	14	15	16	17	18	
月	二十六	19	20	21	22	23	24	25	
	ニキセ	26	27	28					預考周(27/2-3/3)
					1	2	3	4	六年級報分試(6/3-10/3)
Ξ	二十八	5	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	11	一至五年級主科考試(9-10/3)
	二十九	12	13	14	15	16	17	18	
月	三十	19	20	21	22	23	24	25	零功課日(21/3)
	三十一	26	X	28	29	30	31		學校籌款(26/3) 補假(27/3)
								1	
四	三十二	2	3	4	X	X	X	×	福音周及復活節崇拜(3/4-4/4) 清明節(5/4)
	三十三	X	X	X	X	X	X	X	復活節假期(6/4-15/4)
	三十四	16	17	18	19	20	21	22	零功課日(26/4) 綜藝晚會 (28/4)
月	三十五	23	24	25	26	27	28	29	
	三十六	30							
			Ж	2	3	4	5	6	勞動節(1/5) 拍住上辯論賽(6/5)
五	三十七	7	8	9	10	11	12	13	
	三十八		15	16	17	18	19	20	預考周(22/5-30/5)
月	三十九		22	23	24	25	26	27	佛誕(26/5)
	四十	28	29	30	<u>31</u>				一至六年級考試(31/5-6/6)
						<u>1</u>	<u>2</u>	3	
六	四十一	4	<u>5</u>	<u>6</u>	7	8	9	10	
_	四十二	11	12	13	14	15	16	17	
月	四十三		19	20	21	22	23	24	端午節(22/6)
	四十四	25	26	27	28	29	30		畢業禮(30/6)
								X	香港特區成立紀念日(1/7)
セ	四十五	2	X	4	5	6	7	8	畢業禮補假(3/7)
_	四十六	9	10	11	12	X	$\overset{\mathtt{M}}{\Rightarrow}$	X	結業禮(11/7) 教師專業發展日(12/7)
月	四十七	16	X	18	X	20	$\xrightarrow{24}$	22	暑假(13/7-31/8)
	四十八	23	24	25	26	X	28	29	
	四十九	30	X					<u> </u>	
				X	X	×	(\mathbb{A})	$\overset{\mathbf{x}}{\succ}$	
1	五十	6	X	8	X	10	X	X	
	五十一	×	X	X	76	X	18	ÞØ	
月	五十二	20	21	22	23	24	25	26	
	五十三	X	28	29	30	X			

聖公會主風小學 2022-2023 年度下學期校曆表

週	月			屋	<u> </u>	期			行事要項	假期
次	份 2023	H	`	.	<u> </u>	兀	Ŧ.	六		日數
		22	23	24	25	26	27	28	23/1-2/2 農曆新年假期	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
	月	29	²³ 30	31	23	20	21	20		3
	11		50	51	1	2	3	4		2
(1)	-	5	6*	7	8	9	10	11	6/2 下學期開始	
$\mathbf{\mathbf{x}}$	一月	12	13	, 14	15	16	17	18		
23	11	19	20	21	22	23	24	25		
		26	27	28		20	21	20		
					1*	<u>2</u>	<u>3</u>	4	1/3 評估前一天學生 11 時 20 分放學 2/3-7/3 第二次評估/呈分試(P.6)	
5	11	5	<u>6</u>	<u>7</u>	8	9	10	11		
6	三月	12	13	14	15	16	17	18		
5 6 7	/ 4	19	20	21	22	23*	24	25	23/3 第廿八屆水運會	
8		26	27	28	29		31*		31/3 下學期家長日	
								1		
(9)	四	2	3	4	5	6	7	8	3/4-13/4 復活節假期 5/4 清明節	6
(10)	月	9	10	11	12	13	14	15		5
(11)		16	17	18	19	20	21	22		
(12)		23	24	25	26	27	28	29		
9 10 11 12 13		30								
			1	2	3	4	5	6	1/5 勞動節	1
14	五	7	8	9	10	11	12	13		
(15)	月	14	15	16	17	18	19	20		
14 15 16		21	22	23	24	25	26	27	26/5 佛誕	1
17		28	20	30*	31*				30/5 香港聖公會堂校社服發展日	
\square		20	29	30	51				31/5 評估前一天學生 11 時 20 分放學	
						<u>1</u> 8	<u>2</u> 9	3	1/6-6/6 第三次評估/呈分試(P.5)	
(18)	六	4	<u>5</u>	<u>6</u>	7		9	10		
(19)	月	11	12	13	14	15	16	17		
18 19 20 21		18	19	20	21	22	23	24	22/6 端午節	1
(21)		25	26	27	28	29	30			
								1	1/7 香港特別行政區成立紀念日	1
22 23	ヒ	2	3	4	5	6	7	8		
(23)	月	9	10	11	12	13	14	15	13/7-31/8 暑假	50
		16	17	18	19	20	21	22		
附註	::[一代	表假	期	*代	、表特	別事	冝		

培英中學2022至2023年度校曆表

		日	-	=	Ξ	四	五	六	假期及注意事項
					Mar				(27/2)第六十二屆陸運會 (28/2)陸運會翌日假期
27	Ξ	26	274	(28)	1	2	3	4	(3/3)「學校起動」聯校教師專業發展日
27		20	21	(20)	1	2	\bigcirc	-	
									(4/3)家長日暨中五多元出路資訊家長講座
28		5	6	7	8	9	10	11	(6-9/3)英語周
									(10/3) 中六級習禮及感恩惜別會
									(13/3)中六級開始溫習應付公開試
29		12	13	14	15	16	17	18	(13-17/3)科學周
	月								(17/3)頒獎禮
30		19	20	21	22	23 ^T	24 ^т	25	(23-28/3)中一至中五級統一測驗
								Apr	
31	四	26	27 ^т	28 ^т	20	20	31	-	
	-	20	27	28	29	30	51	1	caracteristic set the set of
32		2	3	4	(5)	(6)	(7)	(8)	(4/4)復活節崇拜會
									(5/4)清明節假期 (6-15/4)復活節假期共10天
33		(9)	(10)	(11)	(12)	(13)	(14)	(15)	
24		16	17	10	10	20	21	22	(18/4或19/4)中三級全港性系統評估口試
34		16	17	18	19	20	21	22	(21/4-16/5)香港中學文憑考試
	月		-						(28/4)校祖日感恩崇拜暨慶祝活動
35	~	23	24	25	26	27	28	29	(28/4)TSA口試後備日
			May						
24	五	20	-	2	2		~	-	(1/5)勞動節假期
36	ш	30	(1)	2	3	4	5		(2-5/5)科技周
37		7	8	9	10	11	12	13	
38		14	15	16	17	18	19 △	20	(19/5下午)畢業典禮 (15-18/5)體育周
20			10	10	17	10	17	1	(19/5晚上)歡送畢業生暨校友會迎新晚會
39	月	21	22	22	24	a = ^		27	(25/5)全方位學習日(3)
39		21	22	23	24	25	(26)	27	(26/5)佛誕日翌日假期
						Jun			
40	六	28	29	30	31	1	2	3	(2/6)畢業禮後備日
41		4	5 ^E	6 ^E	7 ^E	8 ^E	9 ^E		(2-13/6)中一至中五級下學期考試共7天
41		4	3	0	/	0	9	10	
			F	F					(14-20/6)中一至中四級試後回饋日 (14-30/6)中五級試後上課周
42		11	12 ^E	13 ^E	14	15	16	17	(14-15/6)中三級全港性系統評估(中英數)
									(16/6下午)中五級學習概覽寫作工作坊
43	月	18	19	20	21	(22)	23	24	(19/6)中三級全港性系統評估(後備日)
43		10	19	20	21	(22)	23	24	(21-26/6)中一至中五級溫習及補考 (22/6)端午節假期
								Jul	(28/6)全方位學習日(4)
44	セ	25	26	27	28	29	30	(1)	(1/7)香港特別行政區成立紀念日假期
45		2	3	4	5	6	7	8	
-5		2	5	-	5	0	/	0	(10)77 ケ 40 平 日 年 上
									(10/7) 年終感恩慶典
46		9	10	11	12	(13)	(14)	(15)	(10/7)中六級中學文憑考試放榜輔導講座
									(11-12/7)升中六備試課程(一) (12/7)學生註冊
									(13/7-31/8)暑假共50天
47	月	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(19/7)香港中學文憑考試放榜
48]	(23)	(24)	(25)	(26)	(27)	(28)	(29)	
				Aug					
49	入	(30)	(31)	-	(2)	(3)	(4)	(5)	
4 9 50	-								(8 17/8)升中上供好调招(一)
30	_	(6) (12)	(7)	(8)	(9)	(10)			(8-17/8)升中六備試課程(二)
F 4	月		(14)					(19)	
51		(20)	(21)	(22)	(23)	(24)	(25)	(26)	
51 52		1 - 7							
	九						Sept		(28/8)領取書籍校服 (1/9)下學年開學禮

ICTI	0	Ctud	lont	Cal	lendar
JULI	C	Siuu	ent	Cal	lenual

```
6 2023 (香港標準時間)
```

			NTT		NT	02023(自定標牛时间
週日	週一	週二	週三	週四	週五	週六
28	29	30	31	1	2	3
	Activities Suspension			1	1	
				1		
	Week 36					
4	5	6	7	8	9	10
		0				
Activities Suspension						
	Week 37			Friday Timetable	Staff Development Day 3	
	Hecker					
11	12	13	14	15	16	17
Activities Suspension						
			I	1	I	1
	Second Term Exam					
	Week 38		F.3 TSA (Written Assessme	nts)		
18	19	20	21	22	23	24
Activities Suspension	1				1	
	1 1		1	1	I	1
Second Term Exam						
	Fallback Day for F.3 TSA			Tuen Ng Festival		
	Week 39					
25	26	27	28	29	30	1
	20					
Activities Suspension		Second Term Exam Script R	Review with Special Timetable			The HKSAR
Second Term Exam					Appreciation Night Dinner	
	Week 40					
		-				
	ı		l	1	1	

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Appendix F

Air Quality Monitoring Data

1-hour TSP (µg/m³) Weather Average Action Level Limit Level Date Start Time 1st hr 2nd hr 3rd hr 01-Jun-23 10:40 44 44 44 44 Fine 68 73 07-Jun-23 10:26 66 69 Overcast 348 500 13-Jun-23 08:00 68 66 66 67 Fine 19-Jun-23 13:56 41 47 43 44 Fine 29-Jun-23 08:52 41 37 45 41 Overcast 53 Average Max 73 Min 37

AMS 4A - Wai Wah Centre (Site Boundary)

AMS7A - Sheung Wo Che

				1-hour TSP (µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
01-Jun-23	14:18	48	46	50	48			Fine
07-Jun-23	14:44	70	76	66	71			Fine
13-Jun-23	13:49	58	56	60	58	344	500	Fine
19-Jun-23	09:05	48	46	48	47			Fine
29-Jun-23	17:01	40	44	44	43			Fine
	Average		53					
	Max		76					
	Min		40					

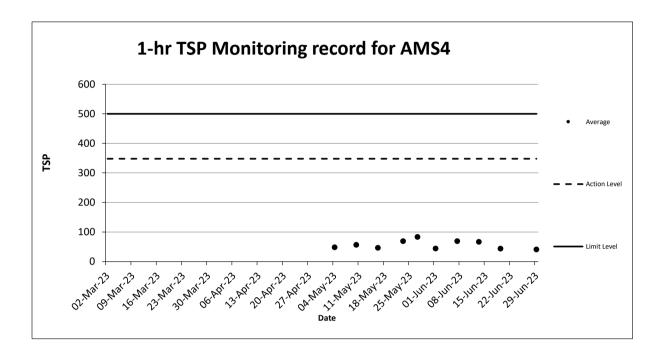
AMS 12 - Fung Wo Estate

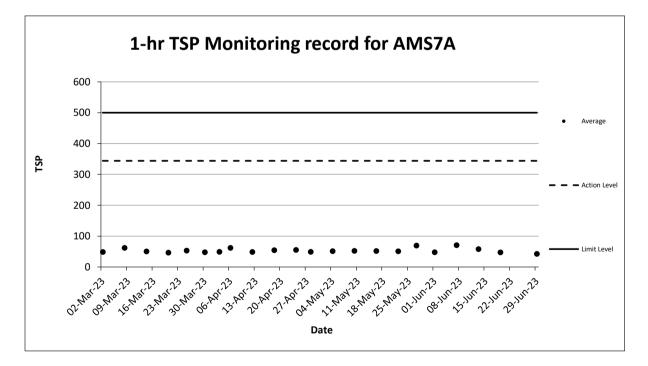
				1-hour TSP (µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
01-Jun-23	09:04	45	41	49	45			Fine
07-Jun-23	09:12	76	69	74	73			Overcast
13-Jun-23	12:40	59	63	63	62	296	500	Fine
19-Jun-23	10:14	45	49	51	48			Fine
29-Jun-23	8:10	59	49	47	52			Overcast
	Average		56					
	Max		76					
	Min		41					

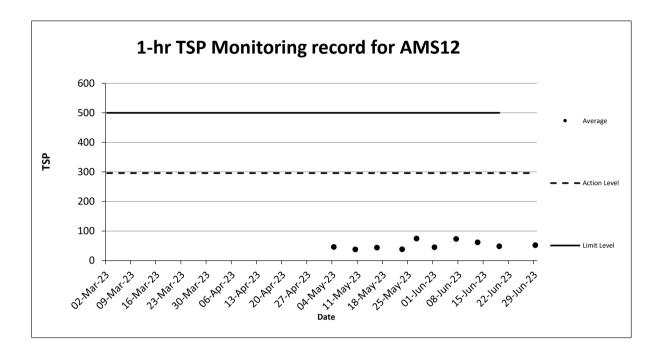
AMS 17 - Wo Che Estate

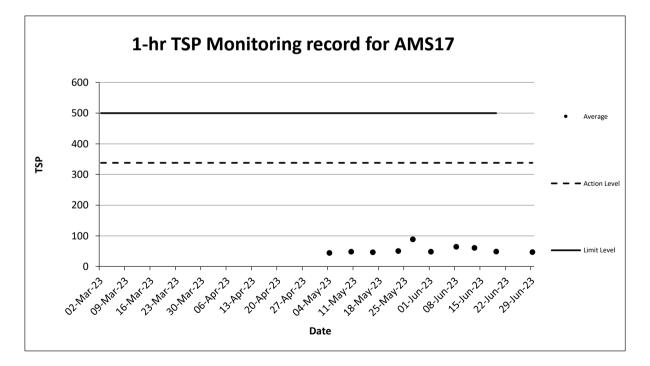
				1-hour TSP (µg/m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
01-Jun-23	11:52	49	49	47	48			Fine
08-Jun-23	01:23	61	69	63	64			Fine
13-Jun-23	09:30	63	61	59	61	338	500	Fine
19-Jun-23	11:22	51	49	47	49			Fine
29-Jun-23	13:18	51	43	47	47			Fine
	Average		54					
	Max		69					
	Min		43		J			

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









AS 4A - Wai Wah Cer Date and Time	TSP Concentration (μg/m ³)	1	Date and Time	TSP Concentration (µg/m ³)
01-06-23 07:40	44		07-06-23 07:26	56
01-06-23 08:40	44		07-06-23 08:26	60
01-06-23 09:40	38		07-06-23 09:26	62
01-06-23 09:40	44		07-06-23 10:26	68
	44			73
01-06-23 11:40	44 44		07-06-23 11:26	66
01-06-23 12:40			07-06-23 12:26	
01-06-23 13:40 01-06-23 14:40	40 42		07-06-23 13:26	58
			07-06-23 14:26	60
01-06-23 15:40	42		07-06-23 15:26	56
01-06-23 16:40	45		07-06-23 16:26	58
01-06-23 17:40	42		07-06-23 17:26	54
01-06-23 18:40	40		07-06-23 18:26	51
01-06-23 19:40	36		07-06-23 19:26	49
01-06-23 20:40	36		07-06-23 20:26	53
01-06-23 21:40	38		07-06-23 21:26	66
01-06-23 22:40	34		07-06-23 22:26	45
01-06-23 23:40	38		07-06-23 23:26	51
02-06-23 00:40	40		08-06-23 00:26	54
02-06-23 01:40	36		08-06-23 01:26	43
02-06-23 02:40	40		08-06-23 02:26	64
02-06-23 03:40	44		08-06-23 03:26	66
02-06-23 04:40	44		08-06-23 04:26	71
02-06-23 05:40	40		08-06-23 05:26	43
02-06-23 06:40	42		08-06-23 06:26	54
Average	41		Average	58
Action Level	200		Action Level	200
Action Level Limit Level	200 260		Action Level Limit Level	200 260
Limit Level	260	 	Limit Level	260
Limit Level Date and Time	260 TSP Concentration (μg/m³)		Limit Level Date and Time	260 TSP Concentration (µg/m³)
Limit Level Date and Time 19-06-23 07:56	260 TSP Concentration (μg/m³) 34]	Limit Level Date and Time 29-06-23 07:52	260 TSP Concentration (μg/m³) 35
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56	260 TSP Concentration (μg/m³) 34 35		Limit Level Date and Time 29-06-23 07:52 29-06-23 08:52	260 TSP Concentration (μg/m³) 35 41
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 09:56	260 TSP Concentration (µg/m³) 34 35 41		Limit Level Date and Time 29-06-23 07:52 29-06-23 08:52 29-06-23 09:52	260 TSP Concentration (μg/m³) 35 41 37
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Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 09:56 19-06-23 10:56 19-06-23 11:56	260 TSP Concentration (μg/m³) 34 35 41 37 32		Limit Level Date and Time 29-06-23 07:52 29-06-23 08:52 29-06-23 09:52 29-06-23 10:52 29-06-23 11:52	260 TSP Concentration (μg/m³) 35 41 37 45 34
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 09:56 19-06-23 10:56 19-06-23 11:56 19-06-23 12:56	260 TSP Concentration (μg/m³) 34 35 41 37 32 39		Limit Level 29-06-23 07:52 29-06-23 09:52 29-06-23 09:52 29-06-23 10:52 29-06-23 11:52 29-06-23 12:52	260 TSP Concentration (µg/m³) 35 41 37 45 34 28
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Limit Level Date and Time 19-06-23 07:56 19-06-23 09:56 19-06-23 09:56 19-06-23 11:56 19-06-23 12:56 19-06-23 13:56	260 TSP Concentration (μg/m³) 34 35 41 37 32 39 41 47 43		Limit Level Date and Time 29-06-23 07:52 29-06-23 09:52 29-06-23 10:52 29-06-23 10:52 29-06-23 12:52 29-06-23 12:52 29-06-23 13:52 29-06-23 14:52 29-06-23 15:52	260 TSP Concentration (μg/m³) 35 41 37 45 34 28 30 30 30 35
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Limit Level 19-06-23 07:56 19-06-23 08:56 19-06-23 09:56 19-06-23 10:56 19-06-23 11:56 19-06-23 12:56 19-06-23 12:56 19-06-23 14:56 19-06-23 15:56 19-06-23 19:56 19-06-23 20:56 19-06-23 20:56 19-06-23 22:56 19-06-23 00:56 20-06-23 00:56 20-06-23 02:56	260 TSP Concentration (μg/m³) 34 35 41 37 32 39 41 47 43 37 39 41 47 43 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 47 43 37 39 41 43 37 39 41 43 37 39 41 43 37 39 41 43 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 32 32 32 32 32 32 32 32 32 32		Limit Level Date and Time 29-06-23 07:52 29-06-23 08:52 29-06-23 09:52 29-06-23 10:52 29-06-23 12:52 29-06-23 12:52 29-06-23 13:52 29-06-23 16:52 29-06-23 16:52 29-06-23 18:52 29-06-23 18:52 29-06-23 18:52 29-06-23 18:52 29-06-23 21:52 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20	260 TSP Concentration (μg/m³) 35 41 37 45 34 28 30 30 30 35 39 32 41 34 30 30 32 41 34 30 30 32 41 34 30 30 32 41 34 32 41 34 30 32 41 34 32 41 34 32 41 34 30 32 41 32 41 34 30 30 35 39 32 41 34 32 41 34 30 30 32 41 34 32 41 34 30 30 32 41 34 32 41 34 32 41 34 32 41 34 32 41 34 32 41 34 32 41 34 32 41 34 30 32 41 34 30 32 41 34 30 30 32 41 34 30 30 32 41 34 30 30 32 41 34 30 30 30 32 41 34 30 30 32 41 34 35 37 38 39 32 41 34 36 36 37 38 38 39 32 41 34 30 30 30 32 41 34 35 37 28 35 37 28 35 37 28 35 37 28 35 37 28 35 37 28 37 28 37 37 28 38 37 28 38 37 28 37 28 38 37 28 38 37 28 38 37 28 38 37 28 36 37 28 36 37 28 36 37 37 28 36 37 37 28 36 37 37 38 39 37 28 36 37 37 38 39 37 37 37 28 36 37 37 38 37 37 28 38 37 38 37 37 38 38 39 37 37 37 38 38 39 37 38 38 39 39 37 37 38 38 39 39 39 30 30 30 30 30 30 30 30 30 30
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 10:56 19-06-23 11:56 19-06-23 12:56 19-06-23 12:56 19-06-23 13:56 19-06-23 16:56 19-06-23 16:56 19-06-23 18:56 19-06-23 18:56 19-06-23 21:56 19-06-23 21:56 19-06-23 22:56 19-06-23 22:56 20-06-23 02:56 20-06-23 02:56 20-06-23 03:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:5 20-06-23 05:5 20-06-23 05:5 20-06-23 05:56 20-06-23 05:56 20-06-23 05:5	260 TSP Concentration (μg/m³) 34 35 41 37 32 39 41 47 43 37 39 41 47 43 37 39 41 47 43 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 41 47 43 37 39 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 43 37 39 41 43 37 39 41 37 39 41 32 32 32 32 32 35 32 35 32 35 35 32 30 35 37 37 37 32 35 35 37 37 37 37 37 32 35 35 37 37 37 37 37 37 37 37 37 37		Limit Level Date and Time 29-06-23 07:52 29-06-23 09:52 29-06-23 10:52 29-06-23 10:52 29-06-23 11:52 29-06-23 13:52 29-06-23 13:52 29-06-23 15:52 29-06-23 15:52 29-06-23 15:52 29-06-23 15:52 29-06-23 19:52 29-06-23 19:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 30-06-23 01:52 30-06-20 30-55 30-000 30-55 30-000 30-55 30-55 30-55 30-55 30-55 30-55 30-55 30-55	260 TSP Concentration (μg/m³) 35 41 37 45 34 28 30 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 35 39 32 41 34 30 30 35 39 32 41 34 30 30 35 39 32 41 34 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 30 35 39 32 41 34 30 30 30 32 41 34 35 37 38 39 32 41 34 35 37 38 39 32 41 34 35 37 38 39 32 32 32 33 35 37 38 38 39 32 37 38 38 39 32 37 38 30 30 30 30 30 30 30 30 30 30
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 10:56 19-06-23 12:56 19-06-23 12:56 19-06-23 12:56 19-06-23 12:56 19-06-23 15:56 19-06-23 15:56 19-06-23 17:56 19-06-23 12:56 19-06-23 20:56 19-06-23 20:56 20-06-23 00:56 20-06-20 00:50 20-06-23 00:56 20-06-20 00:50 20-06-2	260 TSP Concentration (μg/m³) 34 35 41 37 32 39 41 47 43 37 39 41 47 43 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 47 43 37 39 41 43 37 39 41 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 34 32 35 35 37 39 32 35 37 39 32 35 37 39 34 34 35 37 39 34 34 34 34 34 34 34 34 34 34		Limit Level Date and Time 29-06-23 07:52 29-06-23 08:52 29-06-23 09:52 29-06-23 10:52 29-06-23 12:52 29-06-23 12:52 29-06-23 13:52 29-06-23 16:52 29-06-23 15:52 29-06-23 15:52 29-06-23 18:52 29-06-23 18:52 29-06-23 18:52 29-06-23 21:52 29-06-23 21:52 29-06-23 21:52 29-06-23 21:52 29-06-23 21:52 29-06-23 21:52 29-06-23 21:52 29-06-23 01:52 30-06-20 30-52 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30-50 30	260 TSP Concentration (µg/m³) 35 41 37 45 34 28 30 30 30 30 35 39 32 41 34 30 30 28 35 37 28 35 37 28 28 35 37 28 35 37 28 36 37 28 30 30 30 30 30 30 30 30 30 30
Limit Level Date and Time 19-06-23 07:56 19-06-23 08:56 19-06-23 10:56 19-06-23 11:56 19-06-23 12:56 19-06-23 12:56 19-06-23 13:56 19-06-23 16:56 19-06-23 16:56 19-06-23 18:56 19-06-23 18:56 19-06-23 21:56 19-06-23 21:56 19-06-23 22:56 19-06-23 22:56 20-06-23 02:56 20-06-23 02:56 20-06-23 03:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:56 20-06-23 05:5 20-06-23 05:5 20-06-23 05:5 20-06-23 05:56 20-06-23 05:56 20-06-23 05:5	260 TSP Concentration (µg/m³) 34 35 41 37 32 39 41 47 43 37 39 41 47 43 37 39 41 47 43 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 37 39 41 47 43 37 39 41 47 43 37 39 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 47 43 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 41 37 39 41 32 35 35 37 39 30 35 37 39 30 35 37 39 34 35 37 39 34 35 37 39 30 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 35 37 39 34 34 35 37 39 34 34 34 35 37 39 34 34 34 35 37 39 34 34 34 34 34 34 34 34 34 34		Limit Level Date and Time 29-06-23 07:52 29-06-23 09:52 29-06-23 10:52 29-06-23 10:52 29-06-23 11:52 29-06-23 13:52 29-06-23 13:52 29-06-23 15:52 29-06-23 15:52 29-06-23 15:52 29-06-23 15:52 29-06-23 19:52 29-06-23 19:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 29-06-23 20:52 30-06-23 01:52 30-06-20 30-55 30-000 30-55 30-000 30-55 30-55 30-55 30-55 30-55 30-55 30-55 30-55	260 TSP Concentration (μg/m³) 35 41 37 45 34 28 30 30 30 35 39 32 41 34 30 30 28 35 37 28 35 37 28 35 37 28 35 37 28 35 37 28 35 37 28 30 30 30 32 41 34 30 30 32 41 34 30 32 41 34 30 32 41 34 30 35 39 32 41 34 30 30 32 41 34 36 39 32 41 34 30 30 32 41 34 36 39 32 41 34 30 30 32 41 34 30 30 32 41 34 30 30 32 41 34 30 30 32 35 39 32 41 34 30 30 30 32 41 34 30 30 32 35 39 32 32 35 37 38 39 32 35 39 32 35 37 38 39 30 30 30 30 30 32 35 30 30 30 30 30 32 35 30 30 30 30 30 30 30 30 30 30
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> Date and Time TSP Concentration (µg/m³) 13-06-23 08:00 68 13-06-23 09:00 66 13-06-23 10:00 66 13-06-23 11:00 62 13-06-23 12:00 64 66 60 60 13-06-23 13:00 13-06-23 14:00 13-06-23 15:00 13-06-23 16:00 62 13-06-23 17:00 64 13-06-23 18:00 66 13-06-23 19:00 62 56 58 60 13-06-23 20:00 13-06-23 21:00 13-06-23 22:00 60 13-06-23 23:00 14-06-23 00:00 56 14-06-23 01:00 60 14-06-23 02:00 60 58 14-06-23 03:00 14-06-23 04:00 14-06-23 05:00 62 64 68 14-06-23 06:00 14-06-23 07:00 66 Average 62 Action Level 200 Limit Level 260

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

S7A - Sheung Wo Che Date and Time	TSP Concentration (µg/m ³)	Date and T	ime	TSP Concentration (µg/m ³)
01-06-23 08:18	42	07-06-2		50
01-06-23 09:18	40	07-06-2		54
01-06-23 10:18	40	07-06-2		64
01-06-23 11:18	42	07-06-2		68
01-06-23 12:18	38	07-06-2		74
01-06-23 13:18	40	07-06-2		58
01-06-23 14:18	40	07-06-2		60
01-06-23 15:18	48	07-06-2		70
01-06-23 16:18	50	07-06-2		76
01-06-23 16:18	40	07-06-2		66
01-06-23 17:18	40	07-06-2		64
01-06-23 19:18	44 40	07-06-2	-	
				60
01-06-23 20:18	38	07-06-2		62
01-06-23 21:18	34	07-06-2		68
01-06-23 22:18	40	07-06-2	-	78
01-06-23 23:18	40	07-06-2	-	64
02-06-23 00:18	36	07-06-2		54
02-06-23 01:18	34	08-06-2		52
02-06-23 02:18	38	08-06-2		58
02-06-23 03:18	38 40	08-06-2		56
02-06-23 04:18		08-06-2		60
02-06-23 05:18	46	08-06-2		48
02-06-23 06:18	40	08-06-2		52
02-06-23 07:18	46	08-06-2		62
Average	41 171		verage n Level	<u>62</u> 171
Action Level				
Linsit Louid				
Limit Level	260		it Level	260
Limit Level Date and Time			it Level	
1	260	Lim	it Level ime	260
Date and Time	260 TSP Concentration (μg/m³)	Lim Date and T	it Level ime 3 08:01	260 TSP Concentration (μg/m³)
Date and Time 19-06-23 8:05	260 TSP Concentration (μg/m³) 44	Lim Date and T 29-06-2	it Level ime 3 08:01 3 09:01	260 TSP Concentration (μg/m³) 46
Date and Time 19-06-23 8:05 19-06-23 9:05	260 TSP Concentration (μg/m³) 44 48	Lin Date and T 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01	260 TSP Concentration (μg/m³) 46 40
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05	260 TSP Concentration (µg/m³) 44 48 48 46	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01	260 TSP Concentration (μg/m³) 46 40 40 40
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05	260 TSP Concentration (µg/m³) 44 48 46 48 46 48	Lirr Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01	260 TSP Concentration (µg/m³) 46 40 40 42
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05	260 TSP Concentration (μg/m³) 44 48 46 48 48 42	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01	260 TSP Concentration (µg/m³) 46 40 40 42 36
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 14:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 40	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01 3 15:01	260 TSP Concentration (µg/m³) 46 40 40 40 42 36 44 38
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50	Lirr 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01 3 15:01 3 16:01	260 TSP Concentration (µg/m³) 46 40 40 40 42 36 44 38 38
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 16:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48	Lirr Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01 3 15:01 3 16:01 3 17:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 14:05 19-06-23 16:05 19-06-23 17:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 40 50 48 44	Lirr 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01 3 15:01 3 16:01 3 16:01 3 18:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 16:05 19-06-23 18:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 14:01 3 15:01 3 16:01 3 17:01 3 18:01 3 19:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 16:05 19-06-23 16:05 19-06-23 18:05 19-06-23 18:05 19-06-23 19:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 40 40 40 40 40 40 40	Lirr Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 11:01 3 11:01 3 13:01 3 14:01 3 14:0	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 44
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 14:05 19-06-23 16:05 19-06-23 19:05 19-06-23 19:05 19-06-23 19:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 50 48 44 40 36	Lirr Date and 1 29-06-2 29-	it Level ime 3 08:01 3 10:01 3 11:01 3 12:01 3 13:01 3 13:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 19:01 3 20:01 3 20:01 3 21:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 17:05 19-06-23 18:05 19-06-23 19:05 19-06-23 20:05 19-06-23 21:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 50 48 44 40 40 36 40	Lirr Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 14:01 3 15:01 3 15:01 3 15:01 3 15:01 3 15:01 3 15:01 3 15:01 3 15:01 3 20:01 3 20:01 3 20:01 3 20:01 3 20:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 34
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 19:05 19-06-23 19:05 19-06-23 21:05 19-06-23 21:05 19-06-23 22:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 36 40 36 40 36	Lirr Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 12:01 3 12:01 3 13:01 3 13:01 3 14:01 3 15:01 3 16:01 3 17:01 3 18:01 3 19:01 3 20:01 3 22:01 3 22:01 3 22:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 32
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 15:05 19-06-23 16:05 19-06-23 16:05 19-06-23 16:05 19-06-23 16:05 19-06-23 19:05 19-06-23 20:05 19-06-23 20:05 19-06-23 22:05 19-06-23 22:05 19-06-23 22:05 19-06-23 23:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 50 48 44 40 36 40 36 36 36 36	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 13:01 3 13:01 3 15:01 3 16:01 3 17:01 3 18:01 3 19:01 3 22:01 3 22:01 3 22:01 3 00:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 44 34 34 32 36
Date and Time 19-06-23 8:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 16:05 19-06-23 18:05 19-06-23 19:05 19-06-23 20:05 19-06-23 22:05 19-06-23 20:05 19-06-23 20:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 36 40 36 40 36 40 36 44	Lirr Date and T 29-06-2 29-06-	it Level ime 3 08:01 3 09:01 3 11:01 3 11:01 3 13:01 3 14:01 3 15:01 3 14:01 3 12:01 3 12:01 3 20:01 3 21:01 3 22:01 3 00:01 3 00:01 3 00:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 32 36 38
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 16:05 19-06-23 18:05 19-06-23 19:05 19-06-23 21:05 19-06-23 22:05 19-06-23 22:05 20-06-23 1:05	260 TSP Concentration (µg/m³) 44 48 46 48 42 40 40 50 48 44 40 36 40 36 40 36 40 36 40 36 44 38	Lirr Date and 1 29-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 13:01 3 14:01 3 14:01 3 14:01 3 14:01 3 14:01 3 14:01 3 14:01 3 14:01 3 14:01 3 12:01 3 12:01 3 20:01 3 22:01 3 00:01 3 00:0	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 34 32 36 38 38 36
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 16:05 19-06-23 15:05 19-06-23 16:05 19-06-23 18:05 19-06-23 18:05 19-06-23 19:05 19-06-23 20:05 19-06-23 20:05 19-06-23 22:05 19-06-23 20:05 20-06-23 0:05 20-06-23 1:05 20-06-23 1:05 20-06-23 1:05 20-06-23 1:05 20-06-23 2:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 50 48 44 40 36 36 36 36 36 36 36 36 36 38 34	Lirr Date and 1 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 12:01 3 12:01 3 12:01 3 13:01 3 14:01 3 15:01 3 16:01 3 18:01 3 19:01 3 20:01 3 22:01 3 22:01 3 22:01 3 22:01 3 00:01 3	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 34 32 36 38 36 38 36 38 36 38 36 38 36 38 36 38 36 34
Date and Time 19-06-23 8:05 19-06-23 10:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 12:05 19-06-23 20:05 19-06-23 20:05 19-06-23 20:05 20-06-23 20:05 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20 20-06-20	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 50 48 44 40 40 36 36 36 44 38 34 36	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 44 34 32 36 38 36 38 36 34 32
Date and Time 19-06-23 8:05 19-06-23 9:05 19-06-23 10:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 16:05 19-06-23 18:05 19-06-23 18:05 19-06-23 19:05 19-06-23 20:05 19-06-23 22:05 19-06-23 20:05 20-06-23 1:05 20-06-23 1:05 20-06-23 2:05 20-06-23 3:05 20-06-23 3:05 20-06-23 3:05	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 50 48 44 40 40 36 40 36 40 36 36 44 38 34 36 42	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 12:01 3 13:01 3 13:01 3 14:01 3 15:01 3 15:01 3 16:01 3 17:01 3 18:01 3 19:01 3 22:01 3 21:01 3 22:01 3 22:01 3 00:01 3 01:01 3 03:01 3 03:01 3 03:01 3 03:01 3 03:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 44 34 32 36 38 36 38 36 34 32 30
Date and Time 19-06-23 8:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 13:05 19-06-23 14:05 19-06-23 15:05 19-06-23 16:05 19-06-23 19:05 19-06-23 20:05 19-06-23 20:05 19-06-23 20:05 20-06-23 20:05 20-06-23 20:05 20-06-23 1:05 20-06-23 1:05 20-06-23 1:05 20-06-23 3:05 20-06-23 5:05	260 TSP Concentration (µg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 50 48 44 40 36 40 36 40 36 40 36 40 36 42 43 34 36 44 43 44 40 40 40 40 40 40 40 40 40	Lin Date and 1 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 13:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 19:01 3 20:01 3 21:01 3 22:01 3 22:01 3 00:01 3 00:01 3 00:01 3 00:01 3 05:01 3 05:01 3 05:01 3 05:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 34 32 36 38 36 34 32 30 36
Date and Time 19-06-23 805 19-06-23 10:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 13:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 16:05 19-06-23 19:05 19-06-23 21:05 19-06-23 21:05 19-06-23 20:05 19-06-23 20:05 20-06-23 0:05 20-06-23 1:05 20-06-23 1:05 20-06-20	260 TSP Concentration (µg/m³) 44 48 46 48 42 40 40 50 48 44 40 36 40 36 40 36 40 36 40 36 40 36 41 38 34 36 42 44 45 46 44 46 46 46 46 47 48 48 48 48 48 48 48 48 48 48	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 11:01 3 13:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 15:01 3 14:01 3 19:01 3 20:01 3 21:01 3 22:01 3 22:01 3 00:01 3 00:01 3 00:01 3 00:01 3 05:01 3 05:01 3 05:01 3 05:01	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 34 34 32 36 38 36 34 32 30 36 38 36 38
Date and Time 19-06-23 8:05 19-06-23 10:05 19-06-23 11:05 19-06-23 12:05 19-06-23 12:05 19-06-23 13:05 19-06-23 15:05 19-06-23 15:05 19-06-23 15:05 19-06-23 17:05 19-06-23 17:05 19-06-23 12:05 19-06-23 21:05 19-06-23 21:05 19-06-23 21:05 19-06-23 21:05 20-06-23 0:05 20-06-23 0:05 20-06-23 1:05 2	260 TSP Concentration (μg/m³) 44 48 46 48 42 40 40 50 48 44 40 40 36 40 36 36 40 36 36 44 38 34 36 42 46 42 46 42 46 42 46 44 50 50 48 44 50 48 44 50 48 44 50 48 44 50 48 44 40 50 48 44 40 50 48 44 40 50 48 44 40 50 48 44 40 50 48 44 40 50 48 44 40 40 50 48 44 40 40 50 48 44 40 40 50 48 44 40 40 36 40 40 36 36 44 42 40 40 40 40 40 40 40 40 40 40	Lin Date and T 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 29-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2 30-06-2	it Level ime 3 08:01 3 09:01 3 10:01 3 12:01 3 12:01 3 13:01 3 14:01 3 14:01 3 14:01 3 15:01 3 16:01 3 16:01 3 17:01 3 18:01 3 20:01 3 22:01 3 20:01 3 02:01 3 02:0	260 TSP Concentration (µg/m³) 46 40 40 42 36 44 38 38 46 40 44 44 44 34 34 32 36 38 36 34 32 30 36 38 38 38 38 38 38 38 38 38 38

> Date and Time TSP Concentration (µg/m³) 13-06-23 07:49 60 13-06-23 08:49 60 13-06-23 09:49 54 13-06-23 10:49 54 58 58 56 13-06-23 11:49 13-06-23 12:49 13-06-23 13:49 13-06-23 14:49 60 13-06-23 15:49 58 13-06-23 16:49 60 13-06-23 17:49 54 13-06-23 18:49 56 58 60 58 56 13-06-23 19:49 13-06-23 20:49 13-06-23 21:49 13-06-23 22:49 54 58 52 13-06-23 23:49 14-06-23 00:49 14-06-23 01:49 54 54 54 54 60 14-06-23 02:49 14-06-23 03:49 14-06-23 04:49 14-06-23 05:49 14-06-23 06:49 58 57 Average Action Level 171 Limit Level 260

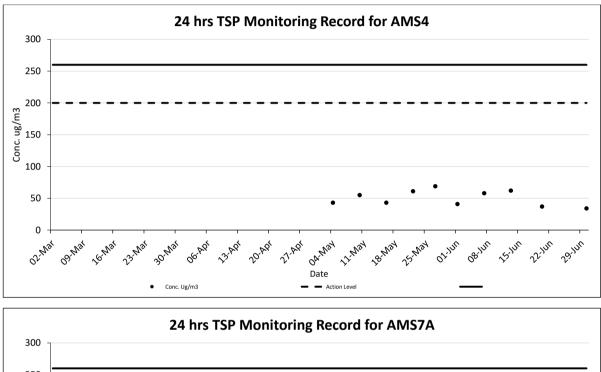
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

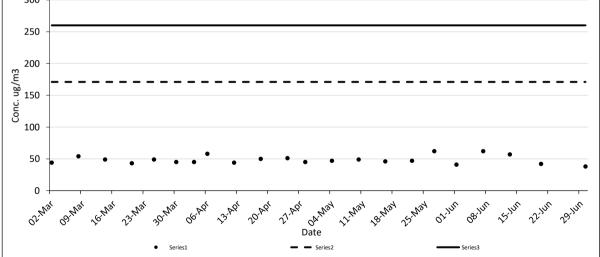
ate and Time	e TSP Concentration (μg/m³)	Date and Time	TSP Concentration (µg/m ³)
01-06-23 08:04	43	07-06-23 08:12	59
01-06-23 09:04	45	07-06-23 09:12	76
01-06-23 10:04	41	07-06-23 10:12	69
01-06-23 11:04	49	07-06-23 11:12	74
01-06-23 12:04	41	07-06-23 12:12	69
01-06-23 13:04	37	07-06-23 13:12	61
01-06-23 14:04	39	07-06-23 14:12	78
01-06-23 14:04	41	07-06-23 15:12	69
	43		
01-06-23 16:04 01-06-23 17:04		07-06-23 16:12	63
	39	07-06-23 17:12	67
01-06-23 18:04	37	07-06-23 18:12	65
01-06-23 19:04	39	07-06-23 19:12	61
01-06-23 20:04	39	07-06-23 20:12	57
01-06-23 21:04	41	07-06-23 21:12	84
01-06-23 22:04	41	07-06-23 22:12	59
01-06-23 23:04	43	07-06-23 23:12	67
02-06-23 00:04	41	08-06-23 00:12	65
02-06-23 01:04	43	08-06-23 01:12	69
02-06-23 02:04	45	08-06-23 02:12	71
02-06-23 03:04	41	08-06-23 03:12	63
02-06-23 04:04	45	08-06-23 04:12	67
02-06-23 05:04	41	08-06-23 05:12	51
02-06-23 06:04	45	08-06-23 06:12	55
02-06-23 07:04	45	08-06-23 07:12	65
Average	42	Average	66
Action Level	168	Action Level	168
Limit Level	260	Limit Level	260
Linit Level	200		200
ate and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)
19-06-23 08:14	47	29-06-23 08:10	59
19-06-23 09:14	45	29-06-23 09:10	49
19-06-23 09:14 19-06-23 10:14	45 45	29-06-23 09:10 29-06-23 10:10	
19-06-23 10:14			49
19-06-23 10:14 19-06-23 11:14	45 49	29-06-23 10:10 29-06-23 11:10	49 47
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14	45 49 51	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10	49 47 43 43
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14	45 49 51 43	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10	49 47 43 43 47
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14	45 49 51 43 41	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10 29-06-23 14:10	49 47 43 43 47 41
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14 19-06-23 15:14	45 49 51 43 41 47	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10 29-06-23 13:10 29-06-23 15:10	49 47 43 43 47 41 43
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14 19-06-23 15:14 19-06-23 16:14	45 49 51 43 41 47 43	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10 29-06-23 14:10 29-06-23 15:10 29-06-23 16:10	49 47 43 43 47 41 43 49
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14 19-06-23 15:14 19-06-23 16:14 19-06-23 17:14	45 49 51 43 41 47 43 45	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10 29-06-23 14:10 29-06-23 15:10 29-06-23 15:10 29-06-23 17:10	49 47 43 43 47 41 43 49 41
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14 19-06-23 15:14 19-06-23 16:14 19-06-23 17:14 19-06-23 18:14	45 49 51 43 41 47 43 45 45	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 13:10 29-06-23 14:10 29-06-23 15:10 29-06-23 15:10 29-06-23 17:10 29-06-23 18:10	49 47 43 43 47 41 43 49 41 41
$\begin{array}{c} 19{-}06{-}23 10{:}14\\ 19{-}06{-}23 11{:}14\\ 19{-}06{-}23 12{:}14\\ 19{-}06{-}23 13{:}14\\ 19{-}06{-}23 13{:}14\\ 19{-}06{-}23 14{:}14\\ 19{-}06{-}23 15{:}14\\ 19{-}06{-}23 15{:}14\\ 19{-}06{-}23 18{:}14\\ 19{-}06{-}23 18{:}14\\ 19{-}06{-}23 19{:}14\\ \end{array}$	45 49 51 43 41 47 43 45 45 45 45 47	29-06-23 10:10 29-06-23 11:10 29-06-23 12:10 29-06-23 12:10 29-06-23 14:10 29-06-23 15:10 29-06-23 15:10 29-06-23 16:10 29-06-23 18:10 29-06-23 19:10	49 47 43 47 41 43 49 41 41 41 43
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 14:14 19-06-23 15:14 19-06-23 15:14 19-06-23 17:14 19-06-23 19:14 19-06-23 19:14	45 49 51 43 41 47 43 45 45 45 47 41	$\begin{array}{c} 29{\cdot}06{\cdot}23 \ 10{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 11{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 12{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 13{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 13{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 15{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 15{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 16{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 16{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 18{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 29{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 29{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 29{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 20{\cdot}10\\ 29{\cdot}06{\cdot}23 \ 20{\cdot}10{\cdot}10{\cdot}10{\cdot}10{\cdot}10{\cdot}10{\cdot}10{\cdot}1$	49 47 43 47 41 43 49 41 41 41 41 43 43
19-06-23 10:14 19-06-23 11:14 19-06-23 12:14 19-06-23 13:14 19-06-23 13:14 19-06-23 15:14 19-06-23 16:14 19-06-23 18:14 19-06-23 19:14 19-06-23 19:14 19-06-23 20:14	45 49 51 43 41 47 43 45 45 45 47 41 43	$\begin{array}{c} 29\mbox{-}06\mbox{-}23\mbox{ 10:10}\\ 29\mbox{-}06\mbox{-}23\mbox{ 11:10}\\ 29\mbox{-}06\mbox{-}23\mbox{ 21:10}\\ 29\mbox{-}06\mbox{-}23\mbox{-}21\mbox{-}10\mbox$	49 47 43 47 41 43 49 41 41 43 43 43 37
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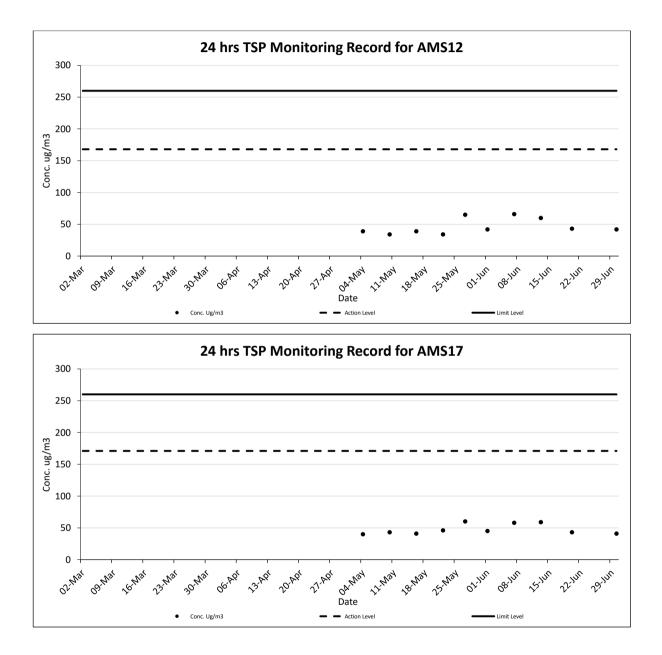
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20-06-23 03:22 43		30-06-23 01:18	35
		20.05.22.02.40	37
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20-06-23 07:22 45		30-06-23 03:18 30-06-23 04:18 30-06-23 05:18	39
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Appendix G

Noise Monitoring Data

NMS 1 Scenery Court

		Meas	Measured Noise Level Limit Level Construction Noise Leve					Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns	1	(m/s)
01-Jun-23	9:44	61.4	58.0	64.5	75	61.4	Fine	0.7
07-Jun-23	8:20	63.7	60.5	65.5	75	63.7	Overcast	0.3
13-Jun-23	8:26	66.4	62.5	69.0	75	66.4	Fine	0.7
19-Jun-23	8:00	67.0	65.0	69.0	75	67.0	Fine	0.6
29-Jun-23	17:55	62.4	60.0	64.5	75	62.4	Overcast	0.3

NMS 2 Villa Le Parc

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mi	ns	Ī	(m/s)
01-Jun-23	11:04	57.9	54.0	59.5	75	57.9	Fine	0.6
07-Jun-23	9:54	51.2	49.5	52.3	75	51.2	Overcast	0.5
13-Jun-23	8:54	61.4	58.0	64.0	75	61.4	Fine	0.3
19-Jun-23	11:04	58.0	56.0	60.0	75	58.0	Fine	0.0
29-Jun-23	8:37	54.0	52.5	55.5	75	54.0	Overcast	0.5

NMS 3 Hilton Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linnit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns		(m/s)
01-Jun-23	10:23	61.8	58.5	63.5	75	61.8	Fine	0.9
07-Jun-23	9:10	65.5	62.0	68.0	75	65.5	Overcast	0.4
13-Jun-23	10:38	67.4	64.5	69.5	75	67.4	Fine	0.6
19-Jun-23	8:35	66.0	63.0	68.0	75	66.0	Fine	0.0
29-Jun-23	17:07	66.4	63.5	68.5	75	66.4	Overcast	0.4

NMS 4 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
01-Jun-23	11:40	64.6	60.5	66.0	75	64.6	Fine	0.3
07-Jun-23	10:33	63.0	61.0	65.0	75	63.0	Overcast	0.5
13-Jun-23	10:02	62.3	60.5	64.0	75	62.3	Fine	0.4
19-Jun-23	10:46	62.6	61.0	64.0	75	62.6	Fine	0.0
29-Jun-23	9:16	63.1	60.5	65.5	75	63.1	Overcast	0.2

NMS 5A Wai Wah Centre (Site Boundary)

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns		(m/s)
01-Jun-23	9:06	69.2	64.0	72.5	75	69.2	Fine	0.5
07-Jun-23	10:39	69.1	66.5	71.5	75	69.1	Overcast	0.4
13-Jun-23	11:16	70.3	68.5	73.5	75	70.3	Fine	0.4
19-Jun-23	9:09	68.5	66.0	70.0	75	68.5	Fine	0.0
29-Jun-23	16:25	68.8	65.5	70.0	75	68.8	Overcast	0.6

NMS 6A Wai Wah Centre (Site Boundary)

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns		(m/s)
01-Jun-23	8:33	69.3	63.5	73.0	75	69.3	Fine	0.4
07-Jun-23	16:02	72.1	68.0	75.0	75	72.1	Overcast	0.3
13-Jun-23	13:03	69.7	67.5	72.0	75	69.7	Fine	0.7
19-Jun-23	9:41	68.0	65.0	70.0	75	68.0	Fine	0.0
29-Jun-23	15:47	74.1	71.5	76.0	75	74.1	Overcast	0.6

NMS 7 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linni Lever	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	_	(m/s)	
01-Jun-23	13:04	64.3	60.0	65.5	75	64.3	Fine	0.4
07-Jun-23	11:10	64.3	62.0	66.0	75	64.3	Overcast	0.4
13-Jun-23	13:46	60.8	58.0	61.5	75	60.8	Fine	0.3
19-Jun-23	10:15	62.7	61.0	64.0	75	62.7	Fine	0.0
29-Jun-23	9:50	63.8	61.5	66.0	75	63.8	Overcast	0.4

NMS 8 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀		Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
02-Jun-23	17:38	63.6	61.5	65.0	75	63.6	Fine	0.6
08-Jun-23	8:17	63.9	60.5	69.0	75	63.9	Overcast	0.2
14-Jun-23	8:30	65.1	61.5	66.0	75	65.1	Fine	0.0
20-Jun-23	8:49	61.8	58.5	65.0	75	61.8	Fine	0.7
30-Jun-23	8:44	63.7	57.5	66.0	75	63.7	Fine	0.4

NMS 9 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Lever	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
02-Jun-23	8:52	64.1	60.5	66.5	75	64.1	Fine	0.2
08-Jun-23	9:30	61.7	60.5	67.5	75	61.7	Overcast	0.4
14-Jun-23	9:49	64.8	59.5	66.0	75	64.8	Fine	0.0
20-Jun-23	9:56	68.4	62.5	71.0	75	68.4	Fine	0.7
30-Jun-23	9:51	68.4	65.0	71.5	75	68.4	Fine	0.2

NMS 10A Shatin Tsung Tsin School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀		Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mi	ns		(m/s)
02-Jun-23	9:28	64.0	61.0	65.5	70	64.0	Fine	0.3
08-Jun-23	10:11	63.2	59.5	66.0	65	63.2	Overcast	0.2
14-Jun-23	10:27	64.7	61.0	66.5	70	64.7	Fine	0.0
20-Jun-23	10:34	64.9	62.5	68.0	70	64.9	Fine	0.8
30-Jun-23	10:29	63.9	60.5	66.0	70	63.9	Fine	1.2

*Note: The school calender was provide in Appendix E.

NMS 11 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mi	-	(m/s)	
02-Jun-23	15:38	61.9	58.0	63.0	75	61.9	Fine	0.3
08-Jun-23	16:37	60.7	57.5	64.0	75	60.7	Overcast	0.4
14-Jun-23	16:07	60.1	59.0	61.0	75	60.1	Fine	0.3
20-Jun-23	16:00	62.5	58.5	65.5	75	62.5	Fine	0.7
30-Jun-23	15:57	62.5	61.5	66.5	75	62.5	Fine	0.8

NMS 12 SKH Holy Spirit Primary School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀		Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns		(m/s)
02-Jun-23	10:10	62.3	61.0	63.5	65	62.3	Fine	0.2
08-Jun-23	10:55	62.9	60.0	64.0	70	62.9	Overcast	0.3
14-Jun-23	11:07	63.9	60.5	66.0	70	63.9	Fine	0.5
20-Jun-23	11:08	62.4	59.5	65.5	70	62.4	Fine	0.9
30-Jun-23	11:03	63.1	59.5	65.5	70	63.1	Fine	0.7

*Note: For SKH Holy Spirit Primary School, 70 dB(A) noise level is set for school on normal days. The examination was scheduled on 2 June 2023. Hence, the daytime noise level changed from 70 to 65 dB(A).

NMS 13 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind		
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linin Lever	Construction Noise Level	Weather	Speed		
				Unit: dB(A) 30 Mins						
02-Jun-23	10:48	60.0	56.5	61.5	75	60.0	Fine	0.2		
08-Jun-23	11:34	61.2	59.0	64.0	75	61.2	Overcast	0.2		
14-Jun-23	13:00	60.8	57.0	62.5	75	60.8	Fine	0.2		
20-Jun-23	11:41	65.7	59.5	68.5	75	65.7	Fine	0.6		
30-Jun-23	11:36	64.4	61.5	66.5	75	64.4	Fine	0.9		

NMS 14 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					
02-Jun-23	14:59	62.3	58.5	64.5	75	62.3	Fine	0.2
08-Jun-23	15:53	61.4	58.5	63.0	75	61.4	Overcast	0.0
14-Jun-23	15:30	62.3	58.5	64.0	75	62.3	Fine	0.3
20-Jun-23	15:25	66.8	64.0	67.5	75	66.8	Fine	0.8
30-Jun-23	15:23	67.2	60.5	69.0	75	67.2	Fine	0.5

NMS 15 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linnt Level	Construction Noise Lever	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
01-Jun-23	14:15	60.1	59.0	63.5	75	60.1	Fine	0.6
07-Jun-23	14:00	60.1	57.0	61.5	75	60.1	Overcast	0.4
13-Jun-23	14:59	53.2	51.5	55.5	75	53.2	Fine	0.6
19-Jun-23	13:37	62.3	59.5	63.5	75	62.3	Fine	0.0
29-Jun-23	13:48	62.5	60.0	63.5	75	62.5	Overcast	0.5

NMS 16 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linnt Level	Construction Noise Lever	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
01-Jun-23	15:21	62.4	58.0	64.0	75	62.4	Fine	0.7
07-Jun-23	14:38	61.7	58.0	63.5	75	61.7	Overcast	0.4
13-Jun-23	15:38	55.3	52.5	57.5	75	55.3	Fine	0.6
19-Jun-23	14:08	61.4	59.0	63.5	75	61.4	Fine	0.0
29-Jun-23	14:24	62.9	59.5	64.0	75	62.9	Overcast	0.4

NMS 17 Shatin Pui Ying College

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind Speed (m/s) 0.4 0.2	
Date	Start Time	L_{eq}	L ₉₀	L ₁₀		Construction Noise Level	Weather	Speed	
			Unit: dB(A) 30 Mins						
02-Jun-23	11:28	63.1	60.5	65.0	70	63.1	Fine	0.4	
08-Jun-23	13:12	62.8	60.5	66.0	65	62.8	Overcast	0.2	
14-Jun-23	13:00	63.3	60.5	65.5	65	63.3	Fine	0.1	
20-Jun-23	13:00	66.1	62.5	68.5	70	66.1	Fine	0.8	
30-Jun-23	13:00	64.9	61.5	67.0	70	64.9	Fine	0.5	

*Note: For Shatin Pui Ying College, 70 dB(A) noise level is set for school on normal days. The examination was scheduled on 8 and 14 June 2023. Hence, the daytime noise level changed from 70 to 65 dB(A).

NMS 18 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit: dB(A) 30 Mins				(m/s)
01-Jun-23	14:49	62.7	59.0	64.5	75	62.7	Fine	0.8
07-Jun-23	15:16	61.5	60.0	63.5	75	61.5	Overcast	0.4
13-Jun-23	16:14	54.4	51.5	56.5	75	54.4	Fine	0.5
19-Jun-23	14:39	61.0	59.0	63.0	75	61.0	Fine	0.0
29-Jun-23	14:58	62.3	60.0	64.0	75	62.3	Overcast	0.2

NMS 19 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
02-Jun-23	13:06	64.5	60.5	66.5	75	64.5	Fine	0.5
08-Jun-23	13:51	64.7	62.0	66.5	75	64.7	Overcast	0.2
14-Jun-23	13:36	63.3	61.0	65.0	75	63.3	Fine	0.3
20-Jun-23	13:36	64.3	60.0	66.5	75	64.3	Fine	0.7
30-Jun-23	13:35	62.7	59.5	65.0	75	62.7	Fine	0.6

NMS 20 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Lever	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
02-Jun-23	13:41	62.7	59.0	64.0	75	62.7	Fine	0.4
08-Jun-23	14:29	63.1	60.5	67.0	75	63.1	Overcast	0.3
14-Jun-23	14:12	64.0	61.5	66.0	75	64.0	Fine	0.4
20-Jun-23	14:09	64.7	61.0	67.5	75	64.7	Fine	0.8
30-Jun-23	14:08	63.9	60.5	67.5	75	63.9	Fine	0.6

NMS 23 Pai Tau

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
01-Jun-23	13:39	63.8	59.5	65.0	75	63.8	Fine	0.5
07-Jun-23	11:45	63.2	60.5	65.0	75	63.2	Overcast	0.4
13-Jun-23	14:21	63.1	60.5	65.0	75	63.1	Fine	0.6
19-Jun-23	13:00	65.0	62.0	67.0	75	65.0	Fine	0.0
29-Jun-23	13:04	61.5	58.5	63.5	75	61.5	Overcast	0.4

NMS 24 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					(m/s)
02-Jun-23	17:02	62.7	60.0	64.5	75	62.7	Fine	0.6
08-Jun-23	8:54	61.4	58.0	64.0	75	61.4	Overcast	0.3
14-Jun-23	9:04	63.4	60.0	65.5	75	63.4	Fine	0.0
20-Jun-23	9:21	63.2	60.0	65.5	75	63.2	Fine	0.8
30-Jun-23	9:16	62.4	58.0	65.5	75	62.4	Fine	1.2

NMS 25A Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
		Unit: dB(A) 30 Mins						(m/s)
02-Jun-23	16:14	63.1	60.0	65.5	75	63.1	Fine	0.2
08-Jun-23	17:21	64.1	61.5	67.5	75	64.1	Overcast	0.4
14-Jun-23	10:43	65.4	61.0	67.5	75	65.4	Fine	0.4
20-Jun-23	16:36	67.4	63.0	69.5	75	67.4	Fine	0.8
30-Jun-23	16:33	68.3	63.5	69.5	75	68.3	Fine	0.5

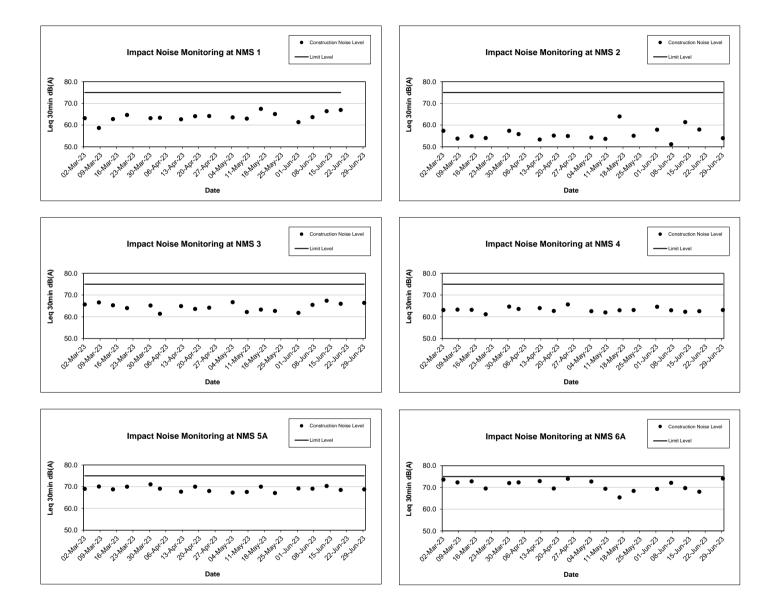
NMS 26 Wo Che Estate

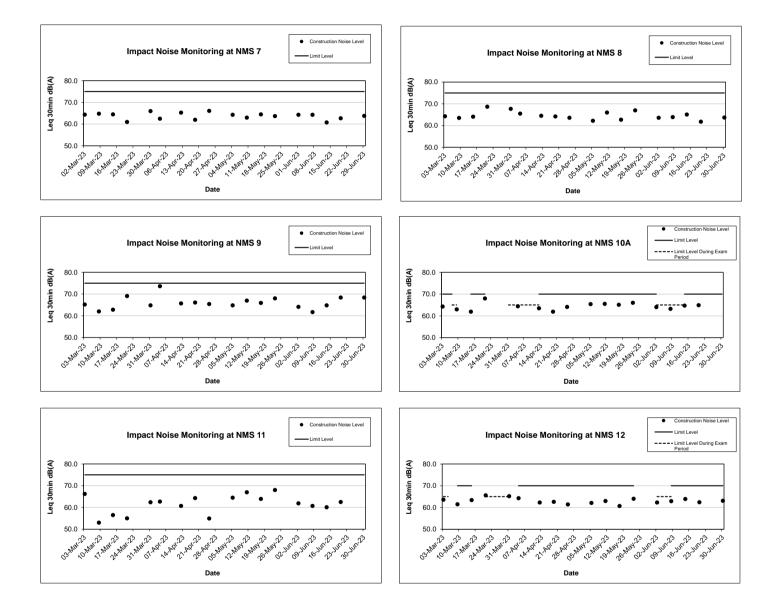
		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
			Unit: dB(A) 30 Mins					
02-Jun-23	14:20	70.6	67.0	71.5	75	70.6	Fine	0.5
08-Jun-23	15:10	70.4	64.5	72.0	75	70.4	Overcast	0.2
14-Jun-23	14:49	70.2	67.5	72.0	75	70.2	Fine	0.0
20-Jun-23	14:47	65.2	63.5	68.5	75	65.2	Fine	0.9
30-Jun-23	14:45	62.8	62.0	65.5	75	62.8	Fine	0.8

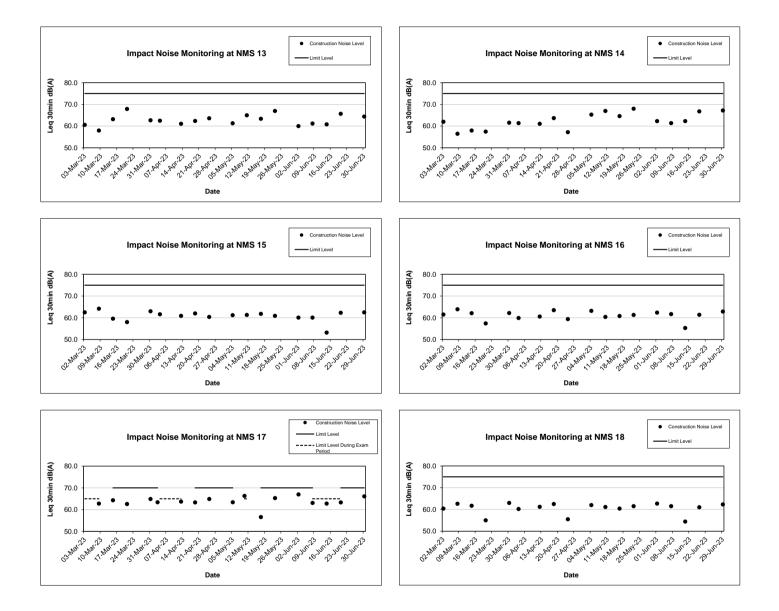
NMS 27 Jockey Club Ti-I College

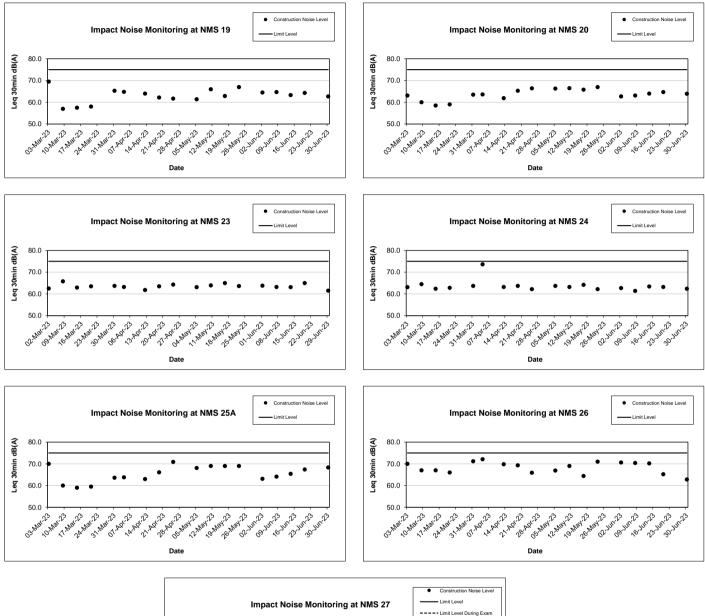
		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linni Levei	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Mii	ns		(m/s)
01-Jun-23	16:25	66.4	63.5	69.5	70	66.4	Fine	0.4
07-Jun-23	13:00	63.9	61.0	66.5	70	63.9	Overcast	0.3
13-Jun-23	16:58	63.6	62.0	66.5	70	63.6	Fine	0.6
19-Jun-23	15:05	63.0	60.0	65.0	70	63.0	Fine	0.0
29-Jun-23	10:48	61.7	59.0	63.5	70	61.7	Overcast	0.2

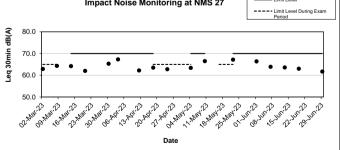
*Note: The school calender was provide in Appendix E.











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)
02-Jun-23	1:00	58.4			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.2</td></baseline<>	Fine	0.2
06-Jun-23	23:02	58.9			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
16-Jun-23	0:42	58.2	61.4	52.8 - 66.3	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<>	Fine	0.0
20-Jun-23	23:11	59.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
29-Jun-23	23:46	58.3			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.5</td></baseline<>	Overcast	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)
01-Jun-23	23:00	53.3			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
06-Jun-23	23:04	52.7			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.4</td></limit>	Fine	0.4
15-Jun-23	23:00	53.3	49.7	40.1 - 58.2	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
20-Jun-23	23:06	53.6			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.3</td></limit>	Fine	0.3
29-Jun-23	23:14	52.0			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.4</td></limit>	Overcast	0.4

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)
02-Jun-23	0:32	63.0			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<>	Fine	0.4
06-Jun-23	23:22	60.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
16-Jun-23	0:13	62.9	70.9	60.2 - 78.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.2</td></baseline<>	Fine	0.2
20-Jun-23	23:33	59.0			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
30-Jun-23	0:10	62.9			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.2</td></baseline<>	Overcast	0.2

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)
01-Jun-23	23:23	58.6			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.7</td></baseline<>	Fine	0.7
06-Jun-23	23:28	60.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.7</td></baseline<>	Fine	0.7
15-Jun-23	23:21	56.3	62.6	53.1 - 68.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<>	Fine	1.2
20-Jun-23	23:36	57.0			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.7</td></baseline<>	Fine	0.7
29-Jun-23	23:39	61.0			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.2</td></baseline<>	Overcast	0.2

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)
02-Jun-23	0:08	65.9			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
06-Jun-23	23:43	66.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
16-Jun-23	1:03	66.1	67.9	62.0 - 75.2	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.2</td></baseline<>	Fine	0.2
20-Jun-23	23:55	66.6			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
30-Jun-23	0:34	66.6			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.4</td></baseline<>	Overcast	0.4

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)
01-Jun-23	23:46	70.1			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
07-Jun-23	0:01	69.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
16-Jun-23	1:22	70.0	71.5	65.0 - 85.9	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<>	Fine	0.4
21-Jun-23	0:14	69.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
30-Jun-23	0:57	69.3			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.6</td></baseline<>	Overcast	0.6

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)
01-Jun-23	23:43	56.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<>	Fine	1.3
06-Jun-23	23:51	56.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
15-Jun-23	23:41	59.1	59.0	51.4 - 65.5	55	42.7*	Fine	0.5
20-Jun-23	23:58	55.7			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
29-Jun-23	23:58	59.7			55	51.4*	Overcast	0.2

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)
01-Jun-23	23:06	62.1			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.7</td></baseline<>	Fine	0.7
07-Jun-23	0:28	62.0			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
15-Jun-23	23:21	61.9	64.4	55.6 - 72.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.2</td></baseline<>	Fine	0.2
21-Jun-23	0:38	61.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<>	Fine	0.4
29-Jun-23	23:00	62.1			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.4</td></baseline<>	Overcast	0.4

NMS 9 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	1:29	56.0			55	52.4*	Fine	0.4
07-Jun-23	1:14	55.4			55	50.9*	Fine	0.3
16-Jun-23	1:48	55.9	53.5	39.5 - 63.1	55	52.2*	Fine	0.4
21-Jun-23	1:21	56.5			55	53.5*	Fine	0.2
30-Jun-23	1:22	56.0			55	52.4*	Overcast	0.4

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)
02-Jun-23	0:45	54.3			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
07-Jun-23	0:57	52.5			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.5</td></limit>	Fine	0.5
16-Jun-23	0:42	53.9	53.2	46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.7</td></limit>	Fine	0.7
21-Jun-23	1:02	53.5			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.7</td></limit>	Fine	0.7
30-Jun-23	0:58	54.1			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.2</td></limit>	Overcast	0.2

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)
02-Jun-23	1:52	53.0			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.4</td></limit>	Fine	0.4
07-Jun-23	1:35	53.8			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.4</td></limit>	Fine	0.4
16-Jun-23	2:08	52.8	57.3	45.4 - 72.5	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.2</td></limit>	Fine	0.2
21-Jun-23	1:50	53.5			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.5</td></limit>	Fine	0.5
30-Jun-23	1:44	52.6			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.3</td></limit>	Overcast	0.3

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)
01-Jun-23	1:05	54.0			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
07-Jun-23	1:18	54.4			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
15-Jun-23	1:01	53.9	54.1	46.1 - 62.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.8</td></limit>	Fine	0.8
20-Jun-23	1:24	56.3			55	52.3*	Fine	0.6
29-Jun-23	1:17	57.0			55	53.9*	Overcast	0.0

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

NMS 15 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	1:26	54.0			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.9</td></limit>	Fine	0.9
07-Jun-23	1:39	55.5			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
16-Jun-23	1:22	53.0	58.8	48.4 - 69.7	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.1</td></limit>	Fine	1.1
21-Jun-23	1:46	57.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
30-Jun-23	1:40	59.0			55	45.5*	Overcast	0.4

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

NMS 16 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	1:46	53.4			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.7</td></limit>	Fine	0.7
07-Jun-23	2:03	57.2			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
16-Jun-23	1:45	52.8	60.1	51.4 - 69.5	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.2</td></limit>	Fine	0.2
21-Jun-23	2:08	57.6			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
30-Jun-23	1:58	58.1			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.4</td></baseline<>	Overcast	0.4

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

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)
02-Jun-23	2:08	52.1			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
07-Jun-23	2:23	52.1			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
16-Jun-23	2:04	52.7	63.2	56.0 - 72.1	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.1</td></limit>	Fine	1.1
21-Jun-23	2:28	53.8			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit>	Fine	0.6
30-Jun-23	2:16	54.5			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.0</td></limit>	Overcast	0.0

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)
02-Jun-23	2:16	53.9			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.4</td></limit>	Fine	0.4
07-Jun-23	1:53	54.8			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
16-Jun-23	2:35	53.8	61.7	53.8 - 72.8	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.3</td></limit>	Fine	0.3
21-Jun-23	2:18	54.6			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.3</td></limit>	Fine	0.3
30-Jun-23	2:10	54.4			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.3</td></limit>	Overcast	0.3

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)
02-Jun-23	2:35	49.5			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.3</td></limit>	Fine	0.3
07-Jun-23	2:14	49.4			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
16-Jun-23	2:54	49.9	57.7	48.6 - 71.7	55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.0</td></limit>	Fine	0.0
21-Jun-23	2:40	50.9			55	Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.4</td></limit>	Fine	0.4
30-Jun-23	2:28	50.2			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.4</td></limit>	Overcast	0.4

NMS 23 Pai Tau

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	0:07	56.0			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.3</td></baseline<>	Fine	0.3
07-Jun-23	0:12	58.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
16-Jun-23	0:02	58.0	59.9	47.8 - 69.8	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
21-Jun-23	0:18	58.4			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.2</td></baseline<>	Fine	0.2
30-Jun-23	0:18	60.0			55	43.6*	Overcast	0.5

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

NMS 24 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
01-Jun-23	23:24	59.0			55	52.1*	Fine	0.2
07-Jun-23	0:47	59.0			55	52.1*	Fine	0.2
15-Jun-23	23:40	58.8	58.0	50.2 - 66.7	55	51.1*	Fine	0.3
21-Jun-23	0:56	58.8			55	51.1*	Fine	0.5
29-Jun-23	23:19	58.9			55	51.6*	Overcast	0.2

Note:

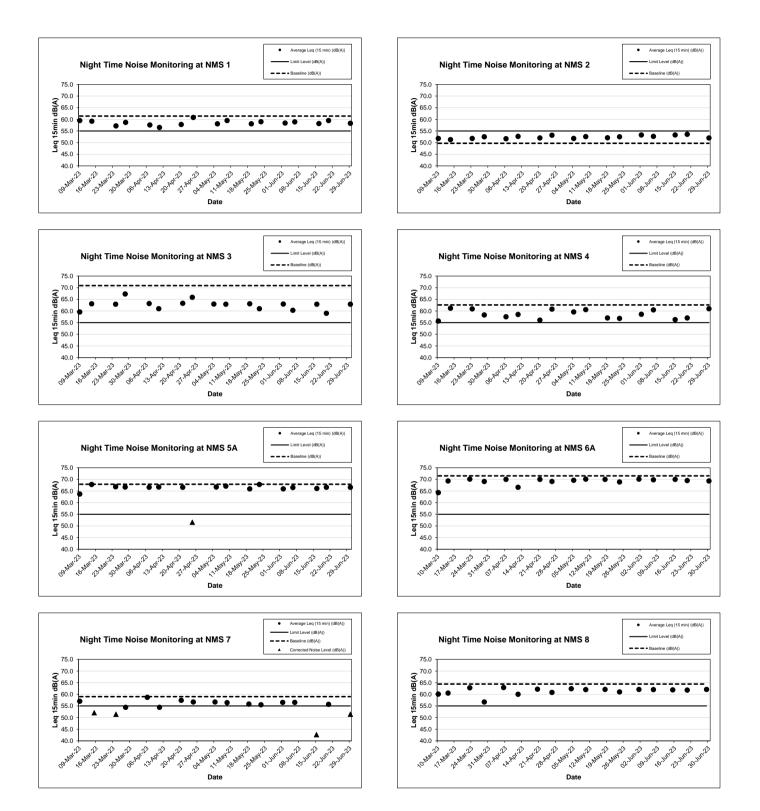
*Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

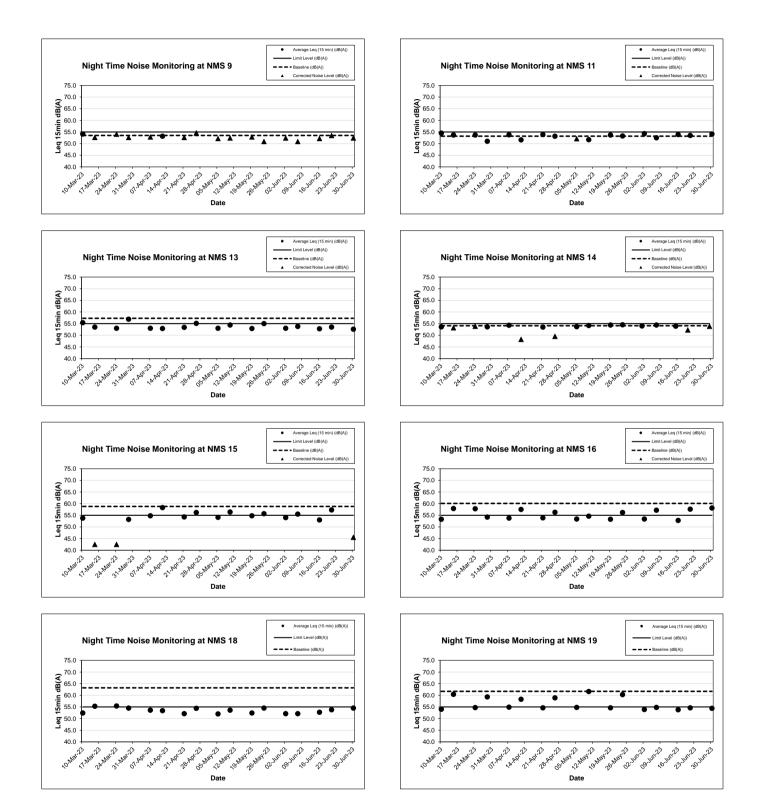
NMS 25A Sheung Wo Che

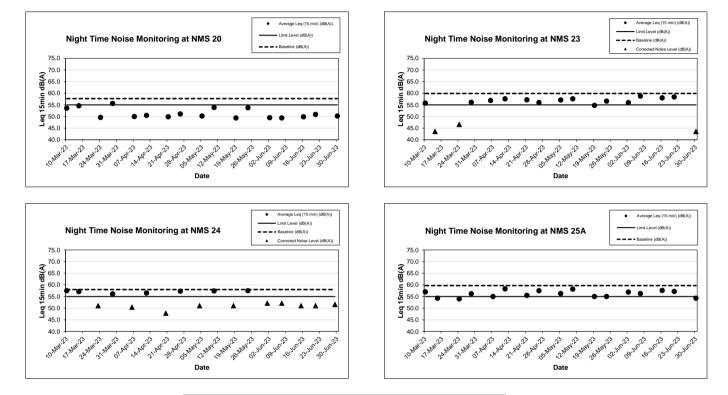
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	0:26	56.9			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
07-Jun-23	0:34	56.3			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
16-Jun-23	0:21	57.6	59.7	50.3 - 68.4	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.0</td></baseline<>	Fine	1.0
21-Jun-23	0:39	57.2			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.6</td></baseline<>	Fine	0.6
30-Jun-23	0:37	54.3			55	Measured Noise Level <limit level<="" td=""><td>Overcast</td><td>0.4</td></limit>	Overcast	0.4

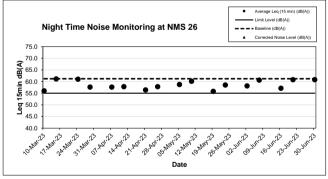
NMS 26 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
02-Jun-23	2:40	58.1			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
07-Jun-23	2:49	60.6			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.7</td></baseline<>	Fine	0.7
16-Jun-23	2:40	57.1	61.2	45.7 - 70.1	55	Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<>	Fine	1.1
21-Jun-23	2:54	60.8			55	Measured Noise Level <baseline< td=""><td>Fine</td><td>0.5</td></baseline<>	Fine	0.5
30-Jun-23	2:40	60.8			55	Measured Noise Level <baseline< td=""><td>Overcast</td><td>0.3</td></baseline<>	Overcast	0.3









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Appendix H

Events and Action Plan

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Event and Action Plan for Construction Dust Monitoring

Exceedance 2 for one 3 sample 3 2. 1	ET Leader 1. Identify the source. 2. Inform the IEC and the SO. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily.	IEC 1. Check monitoring data submitted by the ET Leader. 2. Check Contractor's working method.	SO 1. Notify Contractor.	Contractor1. Rectify any unacceptable practice.2. Amend working methods if appropriate.
1.1Exceedance2for one3sample342.1	 Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. 	data submitted by the ET Leader. 2. Check Contractor's	-	unacceptable practice. 2. Amend working methods if
	I Identify the second			
consecutive samples 4 5 6	 Identify the source. Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the SO. If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by the ET Leader. Check the Contractor's working method. Discuss with the ET Leader and the Contractor on possible remedial measures. Advise the SO on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures properly implemente d. 	 Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Amend proposal if appropriate.
Limit Level				
Exceedance 2 for one 3 sample 3	 Identify the source. Inform the SO and the EPD. Repeat measurement to confirm findings. Increase monitoring frequency to daily. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results. Notify the IEC, the SO 	 Check monitoring data submitted by the ET Leader. Check Contractor's working method. Discuss with the ET Leader and the Contractor on possible remedial measures. Advise the SO on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. Supervisor mplementation of remedial measures. Discuss amongst 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Ensure remedial measures are properly implemented. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Amend proposal if appropriate.

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EVENT		ACTION		
	ET Leader	IEC	SO	Contractor
Exceedance for two or more consecutive samples	 and the EPD and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the SO to discuss the remedial actions to be taken. 7. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results. 8. If exceedance stops, cease additional monitoring. 	the SO, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly. 3. Supervisor implementation of remedial measures.	receipt of notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the SO until the exceedance is abated.

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Event and Action Plan for Noise Impact

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

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Event and Action Plan for Landscape and Visual Impact

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

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Appendix I

Waste Flow Table

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Waste Flow	/ Table for Ye	ar 2018									
		Actual Quant	ities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018

Note:

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

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

3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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Waste Flow	/ Table for Ye	ar 2019									
		Actual Quant	ities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2019 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021
2019 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
2019 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
2019 Apr	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.089
2019 May	0.150	0.000	0.000	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.175
2019 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
Sub-Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.464
2019 Jul	0.141	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.069
2019 Aug	0.431	0.000	0.221	0.000	0.210	0.000	0.000	0.000	0.000	0.000	0.154
2019 Sep	0.712	0.000	0.223	0.000	0.489	0.297	0.000	0.000	0.000	0.000	0.046
2019 Oct	0.663	0.000	0.306	0.000	0.357	1.085	0.001	0.027	0.009	0.000	0.027
2019 Nov	1.154	0.000	0.143	0.000	1.011	0.428	0.000	0.019	0.000	0.000	0.095
2019 Dec	0.849	0.000	0.023	0.000	0.826	0.074	0.000	0.014	0.001	0.000	0.034
Total	4.200	0.000	0.916	0.000	3.284	1.884	0.001	0.060	0.010	0.000	0.889

Note:

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

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

2) 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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Waste Flow	/ Table for Ye	ear 2020									
		Actual Quant	ities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2020 Jan	0.584	0.000	0.027	0.000	0.557	0.040	0.001	0.030	0.001	0.000	0.039
2020 Feb	1.072	0.000	0.042	0.000	1.030	0.000	0.001	0.026	0.003	0.000	0.013
2020 Mar	0.422	0.000	0.006	0.000	0.416	0.062	0.000	0.000	0.000	0.000	0.054
2020 Apr	0.450	0.000	0.000	0.000	0.450	0.000	0.002	0.085	0.003	0.000	0.025
2020 May	1.144	0.000	0.000	0.000	1.144	0.319	0.001	0.021	0.005	0.000	0.027
2020 Jun	3.660	0.000	0.000	0.000	3.660	0.077	0.001	0.027	0.004	0.000	0.048
Sub-Total	7.332	0.000	0.075	0.000	7.257	0.498	0.006	0.189	0.016	0.000	0.206
2020 Jul	2.008	0.000	0.014	0.000	1.994	0.000	0.002	0.047	0.006	0.000	0.067
2020 Aug	2.215	0.000	0.018	0.000	2.197	0.000	0.001	0.040	0.006	0.000	0.014
2020 Sep	4.305	0.000	0.000	0.000	4.305	0.000	0.002	0.042	0.009	0.000	0.044
2020 Oct	3.073	0.000	0.002	0.000	3.071	0.000	0.001	0.019	0.005	0.000	0.029
2020 Nov	1.670	0.000	0.000	0.000	1.670	0.000	0.001	0.030	0.006	0.000	0.036
2020 Dec	3.498	0.000	0.000	0.000	3.498	0.000	24.751	0.036	0.006	0.000	0.042
Total	24.101	0.000	0.109	0.000	23.992	0.498	24.764	0.403	0.054	0.000	0.438

Note:

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

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

2) 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual	Quantities of Non-	inert C&D Wast	es Generated M	onthly
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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
Sub-Total	21.847	0.000	0.457	0.000	21.390	0.215	0.005	0.294	2.510	0.000	0.301
2021 Jul	2.693	0.000	0.019	0.000	2.674	0.262	0.003	0.011	0.007	0.000	0.119
2021 Aug	3.088	0.000	0.000	0.000	3.088	0.095	0.002	0.007	0.011	0.000	0.071
2021 Sep	1.698	0.000	0.000	0.000	1.698	0.000	0.001	0.004	0.003	0.000	0.049
2021 Oct	1.500	0.000	0.000	0.000	1.500	0.279	0.002	0.003	0.005	0.000	0.021
2021 Nov	3.258	0.000	0.000	0.000	3.258	0.015	0.002	0.009	0.007	0.000	0.070
2021 Dec	1.935	0.000	0.000	0.000	1.935	0.000	0.002	0.003	0.002	0.000	0.035
Total	36.019	0.000	0.476	0.000	35.543	0.866	0.017	0.331	2.545	0.000	0.666

Note:

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

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

2) 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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Waste Flow	v Table for Ye	ar 2022									
		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2022 Jan	1.815	0.000	0.064	0.000	1.751	0.097	20.640	0.000	0.000	0.000	0.410
2022 Feb	2.683	0.000	0.045	0.000	2.638	0.000	0.002	0.004	0.004	0.000	0.022
2022 Mar	3.039	0.000	0.000	0.000	3.039	0.037	0.000	0.000	0.000	0.000	0.026
2022 Apr	6.023	0.000	0.000	0.000	6.023	0.030	0.001	0.419	0.005	0.000	0.064
2022 May	10.291	0.000	0.000	0.000	10.291	0.159	0.001	0.011	0.003	0.000	0.042
2022 Jun	5.469	0.000	0.000	0.000	5.469	0.187	0.000	0.000	0.000	0.000	0.074
Sub-Total	29.320	0.000	0.109	0.000	29.211	0.510	20.644	0.434	0.012	0.000	0.638
2022 Jul	3.136	0.000	0.000	0.000	3.136	0.476	0.001	0.013	0.003	0.000	0.141
2022 Aug	4.111	0.000	0.000	0.000	4.111	0.431	6.871	0.373	0.010	0.000	0.088
2022 Sep	7.150	0.000	0.000	0.000	7.150	0.634	13.280	0.000	0.000	0.000	0.062
2022 Oct	8.330	0.000	0.000	0.000	8.330	1.896	0.001	0.008	0.003	0.000	0.070
2022 Nov	5.581	0.000	0.000	0.000	5.581	1.174	0.001	0.008	0.006	0.000	0.074
2022 Dec	6.787	0.000	0.000	0.000	6.787	1.134	0.001	0.003	0.001	0.000	0.080
Total	64.415	0.000	0.109	0.000	64.306	6.255	40.799	0.839	0.035	0.000	1.153

Note:

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

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

3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Monthly Ending	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g., general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2023 Jan	4.592	0.000	0.000	0.000	4.592	0.322	0.000	0.220	0.002	0.000	0.067
2023 Feb	6.448	0.000	0.000	0.000	6.448	0.500	0.001	0.281	0.003	0.000	0.055
2023 Mar	8.344	0.000	0.000	0.000	8.344	0.579	0.001	0.338	0.050	0.000	1.390
2023 Apr	5.538	0.000	0.000	0.000	5.538	1.625	0.001	0.220	0.005	0.000	0.935
2023 May	6.803	0.000	0.000	0.000	6.803	1.544	0.001	0.000	0.002	0.000	0.073
2023 Jun	8.089	0.000	0.000	0.000	8.089	0.142	0.002	0.183	0.002	0.000	0.192
Sub-Total	39.814	0.000	0.000	0.000	39.814	4.712	0.006	1.242	0.064	0.000	2.712
2023 Jul											
2023 Aug											
2023 Sep											
2023 Oct											
2023 Nov											
2023 Dec											
Total	39.814	0.000	0.000	0.000	39.814	4.712	0.006	1.242	0.064	0.000	2.712

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.

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

2) 3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3.

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Appendix J

Environmental Mitigation Implementation Schedule (EMIS)

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		Noise Measures		
		 Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A). 	Contractor	Implemented
		 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 constriction activities is required during evening or night time hours. 	Contractor	Implemented
3.10.2, 3.10.3, 3.10.14,		 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
3.10.15 and Table 3.10		 Use of well-maintained and regularly-serviced plant during the works. 	Contractor	Implemented
Table 5.10	Within the	 Plant operating on intermittent basis should be turned off or throttled down when not in active use. 	Contractor	Implemented
	boundaries of	 Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs. 	Contractor	Not Applicable
	all construction	 Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works. 	Contractor	Implemented
	sites.	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		 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
Table 3.3		 Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes 	Contractor	Implemented
		 Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone. 	Contractor	Implemented
3.10.6 to 3.10.9		 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/m² on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect. 	Contractor	Not Applicable
		These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		 The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable. 	Contractor	Not Applicable
		 Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient. 	Contractor	Implemented
		 For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided. 	Contractor	Not Applicable
		 Barrier material of surface density of at least 14 kg/m² is recommended in order to achieve the necessary screening effect. 	Contractor	Not Applicable
3.10.10		 Full noise enclosures should cover the PME or fixed plants such as air compressor. 	Contractor	Implemented
		 Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works; 	Contractor	Not Applicable
3.10.3		 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
	•	Air Quality Measures		
		 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
4.12.1 and	Within the boundaries of all	 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
4.12.2	construction sites.	 The Contractor shall apply for a license or permit under the requirements of the relevant legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable. 	Contractor	Implemented
		 Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		complete coverage of active construction area eight times a day.		
		 Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather. 	Contractor	Implemented
		 Stockpiles of sand, aggregate or any other dusty materials greater than 20m³ shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile. 	Contractor	Implemented
		 Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion. 	Contractor	Not Applicable
		 Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material. 	Contractor	Implemented
		 The Contractor shall restrict all motorized vehicles within the construction site, excluding those on public roads, to maximum speed of 20 km per hour and confine haulage and delivery vehicles to designated roadways inside the Site. 	Contractor	Implemented
		 Construction working areas should be restricted to a minimum practicable size. 	Contractor	Implemented
		 The Contractor shall ensure that no earth, rock or debris is deposited on public or private rights of way as result of his activities, including any deposits arising from the movement of plant or vehicles. 	Contractor	Implemented
4.12.1		• The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month.	Contractor	Implemented
		 The Contractor shall submit details of the wheel washing facilities, which shall be usable prior to any earthworks excavation activity on the construction site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. 	Contractor	Implemented
		 In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer. 	Contractor	Implemented
		 If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas. 	Contractor	Implemented
		 Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground. 		Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
4.12.1, 4.13.1 and		 Construction dust monitoring shall be carried out at representative monitoring locations during the construction period. 	Contractor	Implemented
Table 8.2		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
		 Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. 	Contractor	Implemented
NA		 Plant and equipment should be well maintained to prevent dark smoke emission. 	Contractor	Implemented
		 Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site. 	Contractor	Partially Implemented
		Water Quality Measures		
		 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: 		Not Implemented
		• Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.	Contractor	Implemented
5.7	all	 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. 		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. 		Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.	Contractor	Implemented
		 The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory.		
		 The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap. 	Contractor	Implemented
		 Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains. 	Contractor	Partially Implemented
		• The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.	Contractor	Not Applicable
		 The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir. 	Contractor	Implemented
		 Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals. 	Contractor	Partially Implemented
		 Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages. 		Implemented
		 Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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. 		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	Not Implemented
		 Regular site inspection of the construction works shall be carried out to determine compliance with the Inspection should be included: 	e recommended n	nitigation measures.
		(i) The functioning of onsite surface water collection channels and sediment traps.	Contractor	Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Partially Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Implemented
Section 12.6 of the		(iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system.	Contractor	Implemented
Approved EIA Report		(v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps.	Contractor	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
		Landscape and Visual Mitigation Measures		
		Construction Phase		
Table 6.5	within the	 Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015. 	Contractor	Implemented
	Project Boundary.	 Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m. 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		 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. 		Not Applicable
		Operation Phase		
		• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015.	Contractor	Not Applicable
	During	 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
	within the Project Boundary.	• Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials.		Not Applicable
		 Aesthetically pleasing hard landscape treatment of the carriageway and roadside furniture shall be proposed, including development of chromatic themes in the architectural treatment of engineering structures, and the consideration of landscape lighting and special landscape features. 	Contractor	Not Applicable
		 Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible. 	Contractor	Not Applicable
		Waste Management Measures		
7.6.2 to 7.6.4	all	 In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
	sites.	categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.		
		 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. 		Implemented
		 Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy. 	Contractor	Implemented
7.6.5 to 7.6.6		 Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste. 	Contractor	Implemented
		 Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment. 	Contractor	Implemented
	Within the boundaries of all	 To facilitate adoption of the best-practice philosophy, training shall be provided to all personnel working on site. The training shall promote the concept of general site cleanliness and clearly explain the appropriate waste management procedures defined in the EMP. Overall, the training should encourage all workers to reduce, reuse and recycle wastes. 		Implemented
	construction	 The contractor's environmental performance shall be monitored and controlled through the weekly en environmental walks shall include: 	vironmental walks	. The items after the
	as	 A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor; 	Contractor	Implemented
	n routes to	 The environmental performance of the contractor and his sub-contractors; 	Contractor	Implemented
	designed areas for off-	 The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and 	Contractor	Implemented
7.6.8 to 7.6.9	of materials/Pri	 The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site. 	Contractor	Implemented
or to an during constru	or to and during construction activities.	 Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in 	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		enclosed containers.		
7.6.10		 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. 	Contractor	Partially Implemented
		 In order to minimize the impact resulting from collection and transportation of C&D material for off- site disposal, the excavated fill materials should be reused on site as backfill material as far as possible. 		Implemented
		 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. 	Contractor	Implemented
7.6.11 to 7.6.14		 C&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&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&D materials shall be reused on site as much as possible. 	Contractor	Implemented
		 Paving bricks arising from existing pavement should be recycled on site as much as possible. 	Contractor	Not Applicable
		 Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible, 	Contractor	Not Applicable
		 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 	Contractor	Not Applicable
		 Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality. 	Contractor	Not Applicable
7.6.15 to		 Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handl as follows. Containers used for the storage of chemical wastes should: 	ing and Storage	of Chemical Wastes
7.6.17		 be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; 	Contractor	Implemented

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EIA Review Ref	Location		Implementation Agent	Implementation Status in Construction Phase
		 have a capacity of less than 450L unless the specifications have been approved by the EPD; and 	Contractor	Implemented
		 display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C). 	Contractor	Implemented
		The storage area for chemical wastes should:		
		 be clearly labelled and used solely for the storage of chemical waste; 	Contractor	Implemented
		 be enclosed on at least 3 sides; 	Contractor	Partially Implemented
		• have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;		Implemented
		have adequate ventilation;	Contractor	Implemented
		• be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and	Contractor	Partially Implemented
		 be arranged so that incompatible materials are adequately separated. 	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemical (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require Appropriate means include disposal:		
		 via a licensed waste collector; and 	Contractor	Implemented
		 to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or 		Implemented
		• to a reuser of the waste, under approval from EPD.	Contractor	Not Applicable
7.6.18 to 7.6.20		 General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law. 		Partially Implemented
		Separate labelled bins should be provided if feasible.	Contractor	Implemented
		• Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.	Contractor	Implemented
7.7.1		• All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and	Contractor	Partially Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		requirements.		
		 The mitigation measures recommended in the EIA/EIA review report should form a basis of the WMP to be developed by the Contractor in the construction phase of the Project. 	Contractor	Implemented
EP 1.5		General Condition		
N.A	construction within the Project Boundary.	 The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s). 	Contractor	Partially Implemented

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

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Appendix K

Weather and Meteorological Conditions during Reporting Month

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D (Mean		Air Temperature	9	Mean Relative	Total
Date	Pressure (hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	Humidity (%)	Rainfall (mm)
			June 2023			
1	1002.8	31.6	29.2	26.2	79.0	6.0
2	1004.8	35.2	30.7	28.2	76.0	0.0
3	1007.6	34.9	30.8	28.9	76.0	0.6
4	1008.4	32.7	30.0	27.9	81.0	5.1
5	1007.9	32.9	29.7	27.7	79.0	4.8
6	1007.8	30.2	28.4	26.8	87.0	31.1
7	1008.7	31.5	28.5	27.0	88.0	27.1
8	1007.1	33.1	29.4	27.4	82.0	2.6
9	1004.2	32.0	29.0	26.7	83.0	16.8
10	1001.9	33.0	29.5	28.0	79.0	0.3
11	1001.6	32.5	29.2	27.3	83.0	25.4
12	1001.9	33.7	30.2	28.2	77.0	0.2
13	1002.6	32.7	29.8	25.8	81.0	31.8
14	1004.9	29.6	27.7	25.1	88.0	62.8
15	1005.1	28.7	27.4	26.1	91.0	41.5
16	1007.1	28.1	26.4	25.2	92.0	41.7
17	1009.3	28.0	26.2	25.3	94.0	89.9
18	1008.9	29.9	28.0	25.7	89.0	35.8
19	1007.5	31.4	29.1	26.9	83.0	10.2
20	1007.0	32.2	30.0	27.8	80.0	2.3
21	1007.4	32.2	30.2	28.7	79.0	1.9
22	1007.2	32.4	30.2	29.0	77.0	0.6
23	1006.5	31.2	30.0	28.0	80.0	2.3
24	1007.1	31.0	29.1	27.4	85.0	8.2
25	1008.2	32.9	29.4	26.1	83.0	13.0
26	1008.5	32.9	29.4	26.6	83.0	11.4
27	1009.5	33.9	30.1	28.1	80.0	Trace
28	1009.9	31.3	28.8	26.9	86.0	5.4
29	1006.9	33.3	29.5	27.1	84.0	0.9
30	1005.6	32.5	29.8	26.5	82.0	11.2

Remark: Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory

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Appendix L

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

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Environmental Complaints Log

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2019- 005	02/02/2019	EPD	CCZJV	Noise	13/02/2019	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional ad-hoc noise monitoring on 19:00 14 th February 2019 to 07:00 15 th February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact.	20/02/2019
COM-2019- 006	22/02/2019	Project Hotline of NE/2017/ 05	CCZJV	Noise	26/02/2019	According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. An extended barrier at the top acts as a cantilever shape was recommended to modify the existing semi- enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of tree felling as to minimize the night time tree felling activities.	04/03/2019
COM-2019- 0010	28/03/2019	Project Hotline of NE/2017/ 05	CCZJV	Noise	28/03/2019	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris	04/04/2019

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour.	
COM-2019- 0033	26/07/2019	Police visit on- site	CCZJV	Noise	26/07/2019	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Contractor was reminded to reschedule of tree felling arrangement that most of the fell branches and trunks were temporary laid on slope and arranged to cut smaller on Day Time to minimize the noise nuisance to the nearby NSRs.	30/07/2019
COM-2019- 0045	30/08/2019	1823	CCZJV	Noise	30/08/2019	The complaint is related to the project. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor should strictly follow the use of acoustic enclosure as in condition 3.d.5. of the CNP during the operation of breaker, hand-held, mass <=10kg (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound	19/09/2019

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						absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	
COM-2019- 0056	09/10/2019	Project Hotline of NE/2017/ 05and EPD	CCZJV	Noise	19/10/2019	The complaint of the construction noise especially the breaker noise is project related. Due to the concern of road safety, the Contractor conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 issued by Highways Department (HyD). The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. For construction works covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.	04/11/2019
COM-2019- 0057	09/10/2019	EPD	CCZJV	Noise	18/10/2019	The complaint of the generator noise nuisance is related to the project. The concerned portable generator is supplying electric power for the Variable Message Sign (VMS) showing the speed limit in 50 km/hr. It is switched on and off manually by manpower, and would only be operated between daytime 07:00-19:00. No construction noise permit (CNP) should be required as the portable generator is not operating in restricted hours. The main contractor was reminded to strictly follow the use of their proposed semi-enclosure as the mitigation measures for the portable generator and the generator operates in daytime 07:00-19:00 only.	21/10/2019

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COM-2019- 0066	06/11/2019	EPD	CCZJV	Noise	07/11/2019	The complaint of the emergency road repair work is related to the project. The works on on 5 th November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise.	12/11/2019
COM-2020- 0083	29/02/2020	Project email of NE/2017/ 05	CCZJV	Noise and Dust	29/02/2020	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. The construction works at zone 2 was the mini-piling operation during the day time was same as the complaint. Thus, the complaint in daytime is related to the project. Furthermore, loading and unloading works was carried in night time. Contractor was reminded to enhance the water spray frequency on the construction site for mitigation measures on dust control. Also, Contractor should provide green tarpaulin curtain and additional acoustic Sound Proof Canvas as a secondary layer at the bottom of the mini-pile drilling machine to secure the total enclose condition to minimize the visual and noise impacts to nearby NSRs. ET checked the regular impact air and noise monitoring data, no exceedance case was found on both regular impact air and noise monitoring measurement. The main contractor should carry out further review the effectiveness of the enclosure or noise barrier with their mitigation measure and propose alternative noise mitigation measures to enhance the noise reduction on similar day works or night works in restricted hours.	19/03/2020
COM-2020- 0089	24/03/2020	Project hotline	CCZJV	Noise	24/03/2020	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. According to the Contractor's information, loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24 th	07/04/2020

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						Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PMEs and works activities. Three sides with top cover enclosure and additional acoustic comprised with 50 mm sound absorbing lining were used for night works activities. ET analysed that the complaint noise source should not be project-related construction noise.	
COM-2020- 0090	27/03/2020	Project hotline	CCZJV	Noise	27/03/2020	Both complaint cases were concerning about the noise nuisance generated from the construction work activities at night time disturbing the nearby Wai Wah Centre residence. According to the Main Contractor, similar nature of major construction works carried out between 03:00 a.m. and 04:00 a.m. on 27 th & 28 th 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	04/05/2020
COM-2020- 0091	28/03/2020	Project hotline	CCZJV	Noise	28/03/2020	and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 th March 2020 to 04:00 27 th March 2020, and between 23:00 2 nd April 2020 to 04:00 3 rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark on-site any noise related to construction works at above noise monitoring nights for which the results were lower than baseline noise level. Hence, ET analysed that the dominant noise source should be road traffic noise but not the project-related construction noise.	04/05/2020
COM-2020- 0093	06/04/2020	Project hotline	CCZJV	Noise	06/04/2020	The complaint case on 6 th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with	28/04/2020

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						CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night time limit 55dB (A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0096	20/04/2020	Project hotline	CCZJV	Noise	20/04/2020	A continues complaint were received on 20 Apr and 21 Apr 2020. A resident of Wai Wah Centre filed three complaints about the noise nuisance generated by the nearby construction activities during daytime. Two complaints were made through project hotline on 20 th Apr 2020 at 10:57 a.m. and 21 st Apr 2020 at 9:03 a.m., while the other one was through project email on 20 th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period should be mini piling works, which is opposite to Wai Wah Centre. According to	19/05/2020
COM-2020- 0097	20/04/2020	Project Email	CCZJV	Noise	20/04/2020	the contractor's work schedule, major day work activity was mini- piling operation since early Feb 2020 at zone 2 in central median at non-restricted hours, from Mondays to Saturdays between 0800 and 1800 not including General Holidays. The mini piling operation on 20 th & 21 st Apr 2020 was carried out at non restricted hours. The limited level of noise generated by the construction of the Project during the non-restricted daytime hours will be 75 dB (A) for dwelling. The mini piling operation on 20 th and 21 st Apr 2020 was carried out at non restricted hours	10/00/2020

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COM-2020- 0098	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22 nd Apr 2020 were 73.5 dB (A) and 72.6 dB (A) respectively. No noise exceedance was occurred at NMS 5A and NMS 6A. The construction activity on 22 nd Apr 2020 was similar to 20 th and 21 st Apr 2020. Therefore, ET's day-time monitoring result on 22 nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20 th and 21 st April 2020. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0099	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	The complaint cases on 21 st Apr 2020 was received by project hotline from Police. According to the complainant who is the local resident at Wai Wah Centre, the noise source(s) of the concerned nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15 th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW- RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23 rd April 2020 to 04:00 24 th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	05/05/2020

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COM-2020- 0100	23/04/2020	Project hotline	CCZJV	Noise	23/04/2020	The complaint was received via project hotline on 23 rd 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 rd 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 rd 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 rd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	11/05/2020
COM-2020- 0101	28/04/2020	1823	CCZJV	Noise	28/04/2020	The complainant on via ICC1823 on 28 th April 2020 complained about the noise and odor nuisance generated from the night- time asphalt laying construction works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the	15/05/2020

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						complainant concerned. The major construction works was road surface remedial work since 15 th April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road surface remedial works on 27^28 April 2020. The Main Contractor complied with CNP No.: GW-RN0152-20 that allowed PME used in Group C or Group F. According to the Main Contractor, advance "Notice to Affected Residents" had been issued and distributed on 26 th 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 nd and 28 th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020- 0151	10/11/2020	EPD	CCZJV	Water	10/11/2020	The complainant on 10 th November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00.	27/11/2020

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						The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes. ET conducted ad-hoc site inspection on 17 th November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been provided at the site boundary of Zone 3. ET analyzed that released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes.	
COM-2020- 0152	20/11/2020	1823	CCZJV	Noise	20/11/2020	The complainant on via ICC1823 on 20 th 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 th November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. 3.20 No exceedance cases were found on ET regular night- time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric	07/12/2020

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						hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.	
COM-2020- 153	26/11/2020	EPD	CCZJV	Water	24/11/2020	According to EPD Mr. Bryan Kwok, EPD carried out a site inspection on 24 November 2020, revealing that muddy effluent was discharged from an outfall at Fo Tan near Jockey Club Ti-I College while construction work of the abovementioned project site at Zone 5 opposite to Wo Che Estate was in progress. EPD team inspected the condition of waste water treatment facilities on site (slope F133) and observed that the water in the first and second sedimentation tanks was muddy; muddy water was observed at the outlet level of the WetSep (waste water treatment plant) though there was no discharge and piling works at the time. EPD team reminded the Main Contractor that effluent does not complied with the discharge license standard should NOT be allowed to discharge. The waste water treatment system should be improved and maintained to ensure the effluent discharge standard. EPD team requested in both works area of Slope F133 and Slope F163 the Main Contractor to locate the network of drainage, connecting manhole(s) and downstream manhole, check if any presence of muddy materials and clear-out. The main contractor was reminded to strictly follow and fully comply with the water discharge license (WT00032446-2018) conditions and the mitigation measures stipulated in the EM&A Manual for effluent discharge on the wastewater treatment system.	23/12/2020
COM-2020- 154	27/11/2020	1823	CCZJV	Noise	30/11/2020	The complaint was received via ICC1823 on 27 th November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27 th November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26^27 November 2020. The major construction works were works	14/12/2020

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						related to removal of central median (at night-time) under the approved road closure with CNP no.GW-RN0799-20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 th November 2020 through logging in the webpage of EPD before the commencement of the construction work in relation to the CNP GW-RN0799-20 (conditions 3.d.11 and 4.d.8). The Main Contractor provided photo records showing that mitigation measures of the movable acoustic enclosure "SilentCUBE" with four sides and a top cover were implemented for night work on removal of existing central median: drill hole with percussive drill for temporary steel module spiral installation, drill hole at existing central median with concrete corer and asphalt compaction with portable roller. Main Contractor was reminded to strictly follow and fully comply with the CNP No.: GW-RN0799-20 conditions. 5.11 The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.	
COM-2020- 155	26/11/2020	1823	CCZJV	Dust	30/11/2020	According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Lok King Street near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in November were mini-piling works and slope works of soil replacement. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring in November 2020 and on the 3 rd December 2020 at selected air monitoring stations AMS6, 8, 11A & 13 and AMS5, 4A, 7A & 12 respectively. The two air quality monitoring stations closed to the works area at zone 5 (where the complainant concerned of dust nuisance) were AMS12 and AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12	05/01/2021

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						in November 2020 and on the 3 rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to enhance the mitigation measures in dust control such as increase the water spray frequency at the construction site to suppress dust emission. The Main Contractor proposed to properly maintain the coverings on exposed slopes and keep them in good condition for minimizing dust impact. The Main Contractor proposed to frequently spraying of haul road especially at area where active movement of vehicles and pave the haul road where necessary to reduce dust impact.	
COM-2020- 157	07/12/2020	STDC	CCZJV	Dust	07/12/2020	According to the complainant, the dust nuisance concerned at day time was generated from the construction works area of the Tai Po Road Widening project at Zone 5. According to the Main Contractor, major day time construction works of mini-piling and soil replacement at slopes were carried out at Zone 5 works area in December 2020. There was also regular movement of vehicle for transportation within the works area. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring (Appendix C) on the 3 rd , 9 th & 15 th December 2020 respectively which was close to the date of complaint, at selected air monitoring stations AMS5, AMS4A, AMS7A & AMS12. ET regular day-time air quality monitoring measurement results at air quality monitoring stations AMS12, closest to Zone 5. The ET regular air quality results measured at AM12 on 3 rd , 9 th & 15 th December 2020 show that there was no exceedance case was found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact.	29/12/2020

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						The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur. The complaint was received via email notification by EPD on 18 th December 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate during night- time on 7^8 & 8^9 December 2020. According to the Main Contractor, the major construction works was removal of central median works since 7^8 & 8^9 December 2020 conducted at restricted hours along Zone 4 central median of Tai Po Road Sha Tin section. Thus, the complaint is considered to be related to the project. 3.4 According to the Main Contractor,	
COM-2020- 161	18/12/2020	EPD	CCZJV	Noise	18/12/2020	to the project. 3.4 According to the Main Contractor, portable generator with hand-held breaker had been used for breaking of asphalt (on existing central median edge); lorry with crane, portable generator and concrete corer had been used for remove (lifting) the existing central median and coring of central median joint; dump truck with grab had been used for loading and unloading of rubble; portable roller had been used in asphalt compaction; lorry with crane, percussive and hand-held drill and portable generator had been used for installation of temporary steel module between 00:30 to 04:30 am on 7^8 December 2020. The Main Contractor complied with CNP No.: GW-RN0799-20 that allowed the usage of PMEs. The noise emanated from the concrete corer for drilling hole at existing central median and portable roller for asphalt compaction might cause a noise nuisance. To further alleviate the noise nuisance, the Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at removal of existing central median and asphalt compaction works to mitigate as shown in the site condition photo record. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations, especially measured at six noise monitoring stations mentioned in above section 3.15 where locate close to the works area (Sha Tin station to nearby Fung Wo Estate in Zone 4), the measured result at NMS16, NMS18	05/01/2021

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						and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13, NMS14 and NMS15 were lower than that of the limit level. The Main Contractor was reminded to re-arrange their proposed night-time construction activities especially in quiet construction works to minimize the noise nuisance to nearby residences. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during night sleeping time.	
COM-2020- 167	22/02/2021	1823	CCZJV	Dust	22/02/2021	A complainant who did not wish to disclose his identity called 1823 hotline on 22 nd February 2021 regarding the dust nuisance at slip road to Fo Tan Road. A repetitive case with reference no. 3-6566315922 was referred to the Main Contractor of the captioned Project and ET on 23 rd February 2021. According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in February 2021 was mini-piling works. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to minimize the dust impact. The Main Contractor proposed to reduce the exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.	05/03/2021
COM- 2020-168	20/02/2021	1823	CCZJV	Noise	23/02/2021	The complaint was received via 1823 on 20 th February 2021 01:00 am concerning about the night-time construction works near Sha Tin Police Station at 19^20 February 2021. According to the Main Contractor, there was night-time construction works near Sha Tin Police Station (Zone 3 & 4) on 19^20 February 2021. The major construction works were lane shifting works conducted on 19^20 February 2021 at night-time under	08/03/2021

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						approved road closure setup with in-force Construction Noise Permit (CNP) no.GW-RN0798-020. According to the Main Contractor, since Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. According to the Main Contractor, no concurrent operation of Power Mechanical Equipment (PME) and idling were switched off during the loading and unloading of materials and rubble by manual handling of road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 25 th February to 03:00 26 th February 2021. 3.13 The five noise monitoring stations close to the complaint receiving area of Zone 3 & 4 are NMS13, NMS14, NMS15, NMS16 & NMS26. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured at five noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured result at NMS15, NMS16 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13 and NMS14 were lower than that of the limit level in 55 dB(A). The Main Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0798-20) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during the restricted hour.	
COM-2021- 0170	03/03/2021	1823	CCZJV	Dust and Noise	04/03/2021	The complaint on 3rd March 2021 at 1:25 pm complained about the noise, dust nuisance generated and insufficient dust mitigation works during the night-time construction works near King Wo House and Wo Che Estate area. A repetitive case with reference no. 3-6638500887 was referred to the Main Contractor	25/03/2021

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

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						stipulated in the EM&A Manual when construction activities were operated during the restricted hour. The contractor was also reminded to use a movable noise barrier/blanket to block the line of sight from the engine or noise emission part to the nearby NSRs when using PMEs.	
COM-2021- 0193	09/05/2021	1823	CCZJV	Noise	17/05/2021	The complaint was first received on 6 th May 2021 at 9:27 a.m. via FEHD email. The complaint was then referred to 1823 case: 3-6727963845 on 9 th May 2021 at 2:52 p.m. A follow-up complaint was received on 11 th May 2021 at 8:20 a.m. The two complaints were referred from 1823 to CEDD on 14 th May 2021 at 6:26 p.m. The complaint cases was referred from AECOM to ET on 17 th May 2021 at 11:46 a.m. According to the Main Contractor, the major construction works at daytime (08:00-18:00) between 6 th to 11 th 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 th , 7 th , 12 th and 13 th May 2021, no exceedance case found. The noise monitoring results were lower than the noise limit of 75 dB(A) Leq (30 minutes) at the facade of dwellings and 70 dB(A) Leq (30 minutes) at the facade 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	27/05/2021

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						the line of sight from the engine and noise emission parts to the nearby NSRs.	
COM-2021- 0200 and COM-2021- 0202	07/06/2021	1823	CCZJV	Noise	08/06/2021	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 th 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 th May to 7 th June 2021 at zone 5 were soil replacement works (involved excavation, loading and unloading of materials, pour the no fine concrete and formation of haul road) and demolition of existing central divider works (involved loading and unloading of materials, minor breaking and corning operation). According to CEDD, a reply was sent to Ms. So on 27 th May 2021. The Resident Site Staff (RSS) of AECOM contacted the complainant on 7 th June 2021 night to explain the detail of upcoming 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 th , 7 th , 12 th , 13 th , 17 th , 18 th , 24 th , 25 th of May and 4 th , 5 th , 10 th , 11 th of June 2021. No exceedance case was found and the noise monitoring results were lower than the noise limit of 75 dB(A) Leq (30 minutes) at the facade of dwellings and 70 dB(A) Leq (30 minutes) at the facade 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	22/06/2021

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						mitigation measure during the breaking works. The Main Contractor was reminded to provide additional mitigation measures during the construction works to minimize the noise nuisance to the NSRs (similar to nighttime construction works), for example, a temporary moveable noise barrier to lower the noise impact and an acoustic blanket to block the line of sight from the engine and noise emission parts to the nearby NSRs. The Main Contractor was also reminded to display the project hotline number 5613-3367 on-site for public enquiry.	
EN-2021- 0094	26/07/2021	EPD	CCZJV	Air (Odour)	27/07/2021	A resident of Paris Park Villa complained about the poor air quality around his living area between 19th and 26th July 2021. He suspected that the odour nuisance may be generated from the construction site's diesel machineries. The complaint was received by the EPD's Regional Office (North) on 26 th July 2021 with reference no.: RN17367-21. 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. 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	13/08/2021

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						 (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 7th July (Cap. 3111 Air Pollution Control (Fuel Restriction) Regulations). No particular finding on odour nuisance was found by the ET's staff when performing air monitoring in AMS 14 Ha Wo Che (close to 73A Ha Wo Che) on 21st and 22nd July 2021. ET also inspected the construction site on 29th July 2021 (between 9:00 to 10:15 a.m., weekly environmental inspection). There was no particular observation on odour nuisance or diesel smell generated from the Non-Road Mobile Machineries (NRMMs) and construction activities in the North and South boundary at Zone 4 and 5. No dark smoke was observed from the excavator, power generator, 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). ET reminded the Main Contractor to strictly implement the air pollution control measures and minimize the air pollution impact generated from the construction work activities. The Main Contractor also is reminded that only approved or exempted NRMMs include regulated machines and non-road vehicles with proper labels are allowed to be used in specific activities on-site. The NRMMs should be well maintained. The Main Contractor was also be reminded that odour emissions from construction sites need to be controlled. Potential emission includes particulate matter, diesel and hazardous chemicals need to be considered for their odour impact. Use of ULSD should be maintained and dark smoke emission should be prevented in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. The Main Contractor was also be reminded to display the project hotline number 5613-3367 on-site for public enquiry. 	

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DSD Ref: MS 8/0/CE2815 /0 pt.6	01/09/21	DSD	CCZJV	Water	02/09/21	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. 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 minipiling 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 Main Contractor, the sedimentation tanks (ST1 and ST2) were filled with muddy water and silt on 1st September 2021. Observation, reminders and follow-up action were proposed and monitored by the ET on handling the wastewater generated form piling works and site surface run-off. Moreover, EPIs from EPD conducted the site inspection on 9th and 29th September 2021. The two inspection conducted by the EPIs focused on reviewing the general site condition, wastewater treatment facilities set-up, mitigation measures for preventing muddy water formation, handling the wastewater and surface run-off. Observation, recommendations and reminders proposed by the EPIs and ET are grouped and shown in Appendix M.	20/10/2021

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						Rectification have been reported by the Main Contractor according to the observation and recommendation from ET and EPIs on 8th, 17th, 27th September and 6th October 2021. During the 2nd joint site inspection, EPIs agreed the pilling works can be restarted. However, EPIs reminded that the 2nd pilling machine can only be operated until the 2nd WetSep is functioned properly and the effluent quality is acceptable. EPIs mentioned that follow-up inspection expected to be conducted in early or mid-October, focus on inspecting the wastewater treatment efficiency for pilling works, paving of the soil surface, mitigation measures for handling the surface run-off. EPIs also mentioned that surprise inspection may be conducted in the future. According to the AECOM, the pilling work was restarted on 30th September 2021. 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 description of the wastewater mitigation measures inside the Environmental 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	

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						generated from soil surface, discharge points and gullies condition. EPIs commented on the mitigation measure around the discharge point near WetSep TW-WS1. The bunding next to the manhole should be rectified to prevent the inflow of muddy water. EPIs reminded that mitigation measures (such as sandbags and bunding) should be provided for enclosing the area near the piling machine. It is for directing the muddy water into the temporary wastewater treatment system. EPIs also reminded regular maintenance of the temporary wastewater treatment system is needed to ensure the effluent's water quality fulfill the standard of the Water Discharge License.	
EPD ref.: RN25674- 21	28/10/21	EPD	CCZJV	Noise	05/11/21	A complaint was received by the EPD Regional Office (North) on 28 th 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 25^26 th , 26^27 th and 27^28 th October 2021 (total 3 nights). The complaint was referred from EPD to (ET on 5 th 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 25^26 th and 27^28 th 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 26^27 th 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	16/11/2021

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						follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was also be reminded to shut down the PMEs' engines when they are not in use. Moreover, only mobile phones and walkie talkies with headphones can be used for communication, and no whistles, horns and loudspeakers can be used during night work activities. The Main Contractor was reminded to pay attention to CNP conditions 3.d.1, 3.d.5, 3.d.13, 4.d.3 and 4.d.4 for using PMEs to carry out loading and unloading activities in the future.	
COM-2021- 0257	05/11/21	1823	CCZJV	Noise	08/11/21	This complaint was received by 1823 (ref: CASE#3- 6960147702) on 5 th 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 th 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 4^5 th 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 4^5 th November 2021 and at NMS1, NMS2, NMS3, NMS4, NMS5A,	23/11/2021

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						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.	
EPD ref.: RN25674- 21	17/11/21	EPD	CCZJV	Noise	19/11/21	This complaint was received by the EPD Regional Office (North) on 17 th 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 th November 2021. The complaint was referred from EPD to ET on 19 th 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 16^17 th 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	08/12/2021

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						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 18^19th 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 sent to EPD on 12 th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27 th 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	20/11/21	1823	CCZJV	Noise	23/11/21	This complaint was received by 1823 (ref: CASE#3- 6981794553) on 20 th 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 rd 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 19^20 th 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	08/12/2021

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

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						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 23^24 th November 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic TTA implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, loading and unloading of materials, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19 th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27 th 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- 0265	01/12/21	1823	CCZJV	Noise	01/12/21	This complaint was received by 1823 (ref: CASE#3- 6997727629) on 1 st December 2021 at 11:50 a.m. The complainant concerned about the night-time noise nuisance generated 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 30th November ^ 1st December 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed	30/12/2021

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

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

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

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

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						according to CNP condition 3.d., 4.d and EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	
EPD ref.: RN1596-22	17/01/22	EPD	CCZJV	Noise and Dust	18/01/22	The complaint was received by EPD Regional Office (North) (ref: RN1596-22) on 17 th January 2022. The complainant who lived near Mei Wo House, Wo Che Estate concerned about the night- time noise and dust nuisance generated from the nearby road. The construction work activities were allowed under the in-force CNP no.: GW-RN0916-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (23:00-05:00) on 13^14 th and 14^15 th January 2022 (at Zone 5), and these construction activities were carried out within the allowable location listed in the CNP (Zone I). The night-time construction works on 13^14 th January 2022 included TTA implementation, Loading and Unloading of rubble, Lifting Operation, and Site Clearance. For 14^15 th January 2022, night-time works included TTA implementation, Loading and Unloading of rubble, Lifting operation, Plant mobilization, and Site Clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0916-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 7 th December 2021 and Notice to Affected Residents – PN162 and 165 have been issued to nearby NSRs on 28 th December 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	26/01/2022

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

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						Contractor was reminded to provide noise mitigation measures for the PMEs and noisy works to ensure the noise impact generated from the site is minimized. Consider the dust nuisance, no exceedance cases were found on ET regular air quality monitoring. The Main Contractor was reminded to provided dust suppression mitigation measures for the exposed area.	
COM-2022- 326	05/08/22	1823	CCZJV	Noise	15/08/22	A complaint was received by 1823 (ref: CASE#3- 7328538008) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night- time construction works along Tai Po Road between 3 to 4 a.m. The construction work activities were allowed under the in- force Construction Noise Permit (CNP) no.: GW-RN0476- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone I, II & III) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 4th ^	16/09/22

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COM-2022- 327	05/08/22	1823	CCZJV	Noise	16/08/22	5th August 2022, no exceedance case was found. A complaint was received by 1823 (ref: CASE#3- 7333891394) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night- time construction works near Lucky Plaza. The construction Noise Permit (CNP) no.: GW-RN0476- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 4th ^ 5th August 2022, no exceedance case was found.	16/09/22

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COM-2022- 346	28/10/22	1823	CCZJV	Noise	31/10/22	A complaint was received by the EPD (EPD ref.: RN23746-22) on 28th October 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near King Wo House. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 27th ^ 28th October 2022 at NMS 26, no exceedance case was found. All the noise monitoring results at the above- mentioned station were lower than the limit level (55 dB(A)).	20/11/22

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COM-2022- 348	4/11/22	1823	CCZJV	Noise	4/11/22	A complaint was received by 1823 (CASE#3-7460684431) on 4 th November 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Sha Tin Plaza. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/23
COM-2022- 349	8/11/22	EPD	CCZJV	Noise	10/11/22	A complaint was received by the EPD (EPD ref.: RN23746-22) on 8th November 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near King Wo House. The construction work activities were allowed under the in- force Construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the	20/11/22

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						permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	
COM-2022- 350	10/11/22	1823	CCZJV	Water	10/11/22	A complaint was received by the 1823 (CASE#3- 7469563820) on 10th November 2022. The complainant who is concerned about muddy water discharged from the construction site to the carriageway near New Town Plaza. According to the Resident Engineer, site personnel discovered the freshwater hose pipe was burst at Site Access N09 at 1:30 p.m. Water spilt in the works area and overflow to the carriageway. The watermain valve was closed by the contractor at 1:45 p.m. and completed replaced the damaged hoes pipe at around 3:00 p.m. According to the Resident Engineer, no muddy water and mud were deposited on the carriageway around the site Access N09. ET checked that the case was a burst of freshwater hose and there was no untreated muddy water discharge was found from the construction site.	29/11/22

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COM-2022- 351, COM- 2022-352	13/11/22	EPD	CCZJV	Noise	14/11/22	Two complaint was received by the EPD (EPD ref.: RN25243-22, RN25259-22) on 13th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Tai Po Road next to Sha Tin MTR Station. The construction work activities were allowed under the in- force Construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II & III) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 10th ^ 11th November 2022 at NMS5A, NMS6A, NMS8, NMS9 and NMS24, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	6/12/22

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COM-2022- 353	17/11/22	1823	CCZJV	Noise	17/11/22	A complaint was received by 1823 (CASE#3-7478880132) on 17th November 2022. The complainants who are concerned about the noise nuisance generated from night- time construction works near Sha Tin Rural Committee Road. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 15th ^ 16th November 2022 at NMS8, NMS9, NMS24 and NMS25A, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	13/12/22

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COM-2022- 354	17/11/22	EPD	CCZJV	Noise	26/11/22	A complaint was received from EPD (EPD ref: RN25860- 22) on 17th November 2022. The complainants who are concerned about the noise nuisance generated from night- time construction works near Wo Che Estate (between Man Wo House and Mei Wo House). The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 15th ^ 16th November 2022 at NMS19, and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/23

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COM-2022- 356, COM- 2022-357, COM-2022- 358	29/11/22	1823	CCZJV	Noise	29/11/22	Three complaints were received by 1823 (CASE#3- 7495426348, CASE#3-7495543588, CASE#3- 7495866890) on 29th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Tai Po Road. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor did not comply with the conditions 3.d.19 and 4.d.9 listed in CNP No.: GW- RN0848-22. To discuss the enhancement measures, enhance supervision and control system, an ad-hoc meeting was carried out on 13 December 2022 with the CEDD, ER, IEC, Contractor and ET. A presentation for enhancement measures and enhance supervision was carried out by the contractor on 16 December 2022 with the ER and ET. According to the Main Contractor, to prevent further submission delay, the notification will be notified to the EPD within two consecutive weeks on the Friday of previous working week.	4/1/22

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COM-2022- 359	14/12/22	1823	CCZJV	Noise	14/12/22	A complaint was received by 1823 (CASE#3-7516169709) on 14th December 2022. The complainant who is concerned about the noise nuisance generated from night- time construction works near Tai Po Road next to the Shatin Plaza. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 13th ^ 14th December 2022 at NMS8, and NMS24, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/22

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COM-2022- 364	20/12/22	1823	CCZJV	Noise	20/12/22	A complaint was received by 1823 (CASE#3-7523479466) on 20th December 2022. The complainant who is concerned about the noise nuisance generated from night- time construction works near Tai Po Road next to the Citylink Plaza on 2 December 2022 at 2:00 a.m. The construction Noise Permit (CNP) no.: GW-RN0848- 22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	16/02/23

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COM-2023- 376	18/01/23	1823	CCZJV	Noise	18/1/23	A complaint was received by 1823 (CASE#3-7559583506) on 18th January 2023. The complainant who is concerned about the noise nuisance generated from day time construction works near Tai Po Road. The complainant is concerned about the noise nuisance generated from the day-time construction works activities near Tai Po Road at Zone 5 on 18th January 2023 at 7:00 a.m. to 8:00 a.m. According to Main Contractor and AECOM's information, there was no construction work undertaken near the concerned area from 7:00 a.m. to 8:00 a.m. ET checked that the complaint received on 18th January 2023 is non-project related.	16/2/23

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COM-2023- 382	31/01/23	EPD	CCZJV	Noise	1/2/23	A complaint was received from the EPD (EPD ref.: RN2643-23) on 2nd February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road near the Fo Tan Road from 1:00 a.m. to 3:00 a.m. on 31st January 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to unload the material at a lower level into the dump truck to ensure the noise generated is as low as possible.	16/2/23

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COM-2023- 383	01/02/23	EPD	CCZJV	Noise	1/2/23	A complaint was received from EPD (EPD ref.: RN2721- 23) on 1st February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Shun House and Fung Wo Estate from 12:00 a.m. to 2:00 a.m. on 1st February 2023. According to Main Contractor, the night-time construction works included plant mobilization, loading and unloading construction material and loading and unloading C&D waste material were carried out between 31st January and 1st February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise muisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 31st January ^ 1st February 2023 at NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to unload the material at a lower level into the dump truck to ensure the noise generated is as low as possible.	16/2/23

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COM-2023- 384	6/2/23	1823	CCZJV	Wastewater	6/2/23	A complaint was received by the 1823 (CASE#3- 7578244130) on 6th February 2023. The complainant who is concerned about wastewater discharged from the construction site to the Tai Po Rad carriageway on 4th February 2023. According to the Main Contractor, the water was from emptying the water barriers and flowed outside the site without washing dirt and mud. ET checked that no untreated wastewater was discharge to the carriageway. The main contractor is reminded to provide more training to the frontline staff to ensure no more water will be direct discharge from the construction site. The main contractor is reminded that surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The main contractor is reminded that the wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	27/2/23

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COM-2023- 385	14/2/23	1823	CCZJV	Noise	14/2/23	A complaint was received by 1823 (CASE#3-7591662478) on 14th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Estate. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, pouring non-fine concrete and asphalt paving were carried out between 13th and 14th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. According to AECOM, the acoustic barrier was not fully used during the whole process of road paving. The Main Contractor was reminded to use the acoustic barrier for blocking the power generating part of the PME to ensure the noise can be minimized.	3/3/23

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COM-2023- 386	20/2/23	Contract Hotline Phone Call	CCZJV	Noise	21/2/23	A complaint was received by Contract Hotline Phone Call (COM-2023-0386) on 20th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Street between 17th and 18th February 2023 from 0:00 to 04:00 a.m. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading and site clearance were carried out between 17th and 18th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance.	17/3/2023

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COM-2023- 387	24/2/23	1823	CCZJV	Noise	25/2/23	A complaint was received by 1823 (CASE#3-7605775385) on 24th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Estate. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, pouring non-fine concrete and asphalt paving were carried out between 20th and 24th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 23rd ^ 24th February 2023 at NMS19, and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).	17/3/2023

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COM-2023- 388	25/2/23	1823	CCZJV	Noise	25/2/23	A complaint was received by 1823 (CASE#3-7608102288) on 25th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 25th February 2023 from 4 a.m. to 5 a.m. According to the Main Contractor, the night-time construction works included plant mobilization and site clearance were carried out on 25th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	17/3/2023

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COM- 2023-392 and 393	2/3/2023	CEDD	CCZJV	Noise	3/3/2023	Two complaints were received from CEDD (COM-2023- 392 and 393) on 2nd March 2023. The complainants are concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Man Wo House. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, noise barrier installation, asphalt milling, asphalt paving and site clearance were carried out on 2nd March 2023. According to the Main Contractor, the road miller, asphalt paver and road roller were used behind acoustic barriers when road paving works was carrying out. Also, the internal sound absorbing lining was installed for those engine compartments. According to the Main Contractor, the soft padding material was padded on the ground when loading and unloading the steel rebars. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and	17/3/2023

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						4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	

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COM- 2023-394	9/3/2023	EPD	CCZJV	Noise	10/3/2023	A complaint was received from EPD (EPD ref.: RN6366- 23) on 9th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road from 1 a.m. to 4 a.m. According to the Main Contractor, the night-time construction works included TTA implementation and loading and unloading were carried out on 9th March 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	17/3/2023

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COM- 2023-395	14/3/2023	EPD	CCZJV	Noise	15/3/2023	A complaint was received from EPD (EPD ref.: RN6778- 23) on 14th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 14th March 2023 from 2 a.m. to 3 a.m. According to the Main Contractor, the night-time construction works included loading and unloading were carried out on 14th March 2023 from 2 a.m. to 3 a.m. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	24/3/2023

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COM- 2023-402	18/3/2023	Contract Hotline	CCZJV	Noise	20/3/2023	A complaint was received by contract hotline (COM-2023- 402) on 18th March 2023. The complainant is concerned about the noise nuisance generated by placing traffic cones on Tai Po Road during night-time construction activities on 18th March 2023. According to the Main Contractor, all workers were briefed before the works started. The workers were reminded the traffic cones must be put on the ground, rather than throwing. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to place the traffic cones slowly and carefully to minimize the noise nuisance generated. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	

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COM- 2023-403	18/3/2023	1823	CCZJV	Noise	20/3/2023	Two complaints were received by 1823 (CASE#3- 7637259453 & #3-7637259880) on 18th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 18th March 2023. According to the Main Contractor, no Power Mechanical Equipment was included in the relevant complainant cases on 18th March 2023. Referring to the complainant's video, the noise was generated when the frontline workers threw the materials from a height to the ground. In addition, the contractor's mitigation measure is not enough to minimize the noise generated. The Main Contractor was reminded to provide more training for frontline workers to ensure that they work with minimum noise. According to the Main Contractor, a night-work foreman was arranged to keep close monitoring the noisy work and ensure the compliance of CNP at night. The Main Contractor was reminded to unload all the construction materials slowly and carefully to minimize the noise generated. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	18/4/2023

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						The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	
COM- 2023-404	18/3/2023	1823	CCZJV	Wastewater	20/3/2023	A complaint was received by 1823 (CASE#3-7637522160) on 18th March 2023. The complainant is concerned about the wastewater leaking from the STRCR to the below carriageway. The complainant who is concerned about the wastewater leaking into the carriageway surface from STRCR on 18th March 2023. ET checked that the complaint was considered to be related to the project. According to the Main Contractor, the dripping was caused by the concrete curing work above the STRCR structure. According to the Main Contractor, the drip source reparation work was conducted on 20th March and completed on 26th March 2023. No more drip source was observed. During the site inspection, ET checked the main contractor had used the tarpaulin sheet as the mitigation measure of the concrete was reminded to periodic inspection the site situation to ensure the mitigations are effective. The Main Contractor was reminded that the run-off should	10/5/2023

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						be prevented from directly entering the sensitive receivers during the construction works. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	

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COM- 2023-406	23/3/2023	1823	CCZJV	Wastewater	24/3/2023	A complaint was received by 1823 (CASE#3-7616071795) on 23rd March 2023. The complainant is concerned about the wastewater leaking to the drainage system. The complainant who is concerned the wastewater discharged to the drainage system on the carriageway road. ET checked that the complaint was considered to be related to the project. According to the Main Contractor, the water was the result of the excessive curing water seeped underneath the STRCR flyover. The dripping ceased shortly. Due to the small quantity and short time, the dripping did not constitute a continuous flow. According to the Main Contractor, the drip source was repaired on 26 March 2023. No more drip source was observed. During the site inspection, ET checked the main contractor had used the tarpaulin sheet as the mitigation measure of the concrete curing work. ET checked no wastewater was discharged at the concerned area after the reparation work. The Main Contractor was reminded that the run-off should be prevented from directly entering the sensitive receivers during the construction works. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	10/5/2023

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COM- 2023-411	18/4/2023	1823	CCZJV	Noise	21/4/2023	A complaint was received by 1823 (CASE#3-7677865059) on 18th April 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. 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 work should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	

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COM- 2023-412	28/4/2023	EPD	CCZJV	Noise	28/4/2023	The construction work activities were allowed under the in- force Construction Noise Permit (CNP) no.: GW-RN0292- 23 Road Closure for General Night Works issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. According to the Main Contractor, the night-time construction works included TTA implementation, Loading & unloading, Asphalt Milling, Asphalt Paving and Concreting were carried out between 20th and 25th April 2023. According to the Main Contractor, no construction works were carried out between 23rd and 24th April 2023. According to AECOM information, only housekeeping was carried out on 23rd ^ 24th April 2023. No major construction work was recorded on Sunday. The Environmental Officer reported that a prior notification was sent to EPD on 13th April 2023 at 02:08 p.m. and 20th April 2023 at 01:48 p.m. While "Notice to Affected Residents – PN240" was sent to the Sha Tin District Council, Local Residents, Private Development and Others on 29th March 2023. ET carried out regular night-time noise monitoring on 20th ^ 21st April 2023 at NMS16, NMS18, NMS19, NMS20 and NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. The	8/5/2023

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						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 work should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	

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COM- 2023-502	12/5/2023	1823	CCZJV	Noise	19/5/2023	A complaint was received by 1823 (CASE#3-7709231017) on 12th May 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. ET carried out regular night-time noise monitoring on 9th ^ 10th May 2023 at NMS9 and NMS13, no exceedance case was found. All the noise monitoring results at the above- mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. 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 use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	9/6/2023

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COM- 2023-503	19/5/2023	1823	CCZJV	Noise	22/5/2023	A complaint was received by 1823 (CASE#3-7722776885) on 19th May 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the Main Contractor, additional temporary noise barriers will be provided as an enhancement noise mitigation measure. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0514-23. 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 use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6 and 3.d.7 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	9/6/2023

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COM- 2023-504	14/5/2023	EPD	CCZJV	Noise	23/5/2023	A complaint was received from EPD (EPD ref.: RN12170- 23) on 14th May 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Lek Yuen Estate after 7:00 p.m. According to the Main Contractor and AECOM information, no construction works were carried out between 19:00 and 22:00. Also, no construction works were carried out at Zone 3 on 12th ^13th May 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23 and CNP no. GW-RN0227-23. 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 use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	5/6/2023

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Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM- 2023-510	30/6/2023	1823	CCZJV	Noise	23/5/2023	A complaint was received by 1823 (CASE#3-7780620261) on 30th June 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Wai Wah Centre. According to the Main Contractor, all crane lorry and dump truck drivers were briefed to load all material at the lower level to minimize noise generation. ET carried out regular night-time noise monitoring on 29th ^ 30th June 2023 at NMS5A, NMS6A and NMS8, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. 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 use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night- time construction work activities in the future.	4/7/2023

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Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project- to-Date
Air	7	0	7
Noise	75	1	76
Water	7	0	7
Waste	0	0	0
Total	89*	1	90*

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

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project- to-Date
Air	0	0	0
Noise	1	0	1
Water	0	0	0
Waste	0	0	0
Total	1	0	1

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Appendix M

Summary of Site Audit in the Reporting Month

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Summary of Site Audit in the Reporting Month

Parameter	Date	Observations and Reminders	Follow-up Action Taken
Air Quality	1/6/2023	Observation 6: A washing facility should be provided at the entrance. (Zone 4, NB, N08)	Washing facility was provided.
Noise		No specific observation was identified in the reportir	
	1/6/2023	Observation 1 : Sandbags and tarpaulin sheets should be provided around the gullies. (Zone 3, CM & Zone 5, CM)	Abandoned storm drains were filled. / Sandbags were provided.
	1/6/2023	Observation 4: Tarpaulin sheets along the water barriers should be replaced. (Zone 4, CM)	Sandbags and tarpaulin sheets were provided.
	8/6/2023	Observation 2: Blue pipe was observed and connected with the drainage system (Zone 3, SB) and Blue pipe was observed and connected to the MTR area (Zone 5, NB), no treatment facility was found around the pump and blue pipe. The blue pipe should be removed immediately.	Improper blue pipe was removed.
	8/6/2023	Observation 5: The soil along the water barriers should be cleared. (Zone 3, N4)	Soil was be cleared
	8/6/2023	Observation 6: Untreated Muddy water discharge was observed. The illegal discharge should be stopped immediately. (Zone 4, NB)	Illegal discharge was stopped immediately.
Water Quality	8/6/2023	Reminder 1: Cut-off drain should be provided at the entrance.	N/A
	15/6/2023	Observation 1: Sandbags should be provided around the gullies. (Zone 3, CM)	Sandbags were provided.
	15/6/2023	Observation 4 : Cut-off drain should be provided. Also, a washing facility should be provided for wheel washing. (N18)	Cut-off drain was provided.
	19/6/2023	Reminder 1: Stagnant water inside the drip tray should be cleared to prevent land-contamination. (Zone 3)	N/A
	19/6/2023	Reminder 3: Sedimentation tank should be accessible for inspection. (Zone 3)	N/A
	29/6/2023	Observation 1: Untreated muddy water discharged should be stopped. (Zone 4, N4)	Untreated muddy water discharge was stopped immediately.
	29/6/2023	Observation 2: The contractor is reminded to review the sedimentation tank's capacity to ensure enough time for sediment before any discharge. (Zone 4, N4)	Alum was added to the sedimentation tank to increase wastewater treatment ability.
	29/6/2023	Reminder 1: Blue pipes should be removed to prevent any misleading. (Zone 3, SB)	N/A

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Parameter	Date	Observations and Reminders	Follow-up Action Taken	
	29/6/2023	Follow-up IEC observation: Muddy water surface run-off still has not stopped during the site inspection. No water pump and pipe were found around the observed location. Untreated muddy water surface run-off should be stopped. (Portion E)	Sandbags were provided to stop the surface run-off.	
	1/6/2023	Observation 3: Drip trays should be provided for chemical containers. (Zone 4, CM & Zone 5, CM)	Drip tray was provided. / Oil container was removed.	
	8/6/2023	Observation 1: Drip trays should be provided for the oil drums. (Zone 3, SB)	Oil drums were removed.	
	8/6/2023	Observation 4: The stagnant water and rocks inside the drip tray should be cleared. (Zone 3, N4)	Stagnant water and rocks inside the drip tray were cleared.	
Chemical and Waste	15/6/2023	Observation 2: The stagnant water inside the drip tray should be cleared to prevent land-contamination. (Zone 3, CM)	Stagnant water was cleared.	
Management	15/6/2023	Observation 3: Waste should be cleared and an enclosed bin should be provided for good housekeeping. (Zone 4, CM)	Waste was cleared.	
	15/6/2023	Observation 5: Drips tray should be provided for chemical containers and oil drums. (Zone 5, CM)	Oil drum was removed.	
	19/6/2023	Observation 1: Drip tray should be provided for Chemical containers. (Zone 3)	Oil drum was removed in Zone 3, CM. Drip tray was provided in Zone 3, SB.	
	29/6/2023	Observation 3: Drip trays should be provided for chemical containers. (Zone 4, N4 & Zone 5, NB)	Oil containers were removed.	
	1/6/2023	Observation 2: Oil should be cleared as soon as possible. (Zone 4, CM)	The Oil and Stagnant water were cleared.	
	1/6/2023	Observation 5: The oil and stagnant water should be cleared. (Zone 5, CM)	Oil and Stagnant water were cleared.	
Land Contamination	8/6/2023	Observation 3: Rock breakers should be placed on tarpaulin sheets. (Zone 3, N4)	The breakers were removed.	
	19/6/2023	Reminder 2: Tarpaulin sheet should be provided		
Landscape and Visual Impact		No specific observation was identified in the reportir	ig month.	
General Condition		No specific observation was identified in the reportir	ig month.	
Permit / Licenses		No specific observation was identified in the reportin	ng month.	

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Appendix N

Detailed Report for Blockage of Sewer Manhole at Zone 3

Detailed Report for Blockage of Sewer Manhole at Zone 3

Table of Content

- 1. Brief Summary
- 2. Background of the Incident
- 3. Event Log of the Incident
- 4. Factual Findings
- 5. Possible Causes of Incident
- 6. Action Taken and Preventive Measures

Attachments

- Annex A Location Plan
- Annex B Photos of Blocked Sewerage Manhole
- Annex C Photos of DSD emergency maintenance works
- Annex D Photos of the Contractor Works (Removed rubbish and debris in blocked manhole FMH 4089640)
- Annex E Contingency measures requested by DSD
- Annex F Inspection of sewerage manholes within the site boundary
- Annex G EPD's email sent on 21 June 2023
- Annex H DSD's email sent on 28 June 2023 and AECOM's letter issued on 29 June 2023

1. Brief Summary

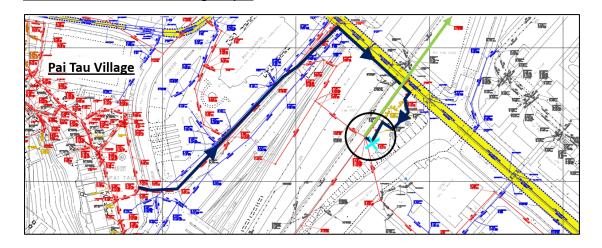
According to DSD's information, blockage of existing sewage occurred at Pai Tau Village on 12 June 2023. DSD carried out investigation and found that an existing manhole no. FMH4089640 near Tai Po Road (Sha Tin Section) within the site of CEDD contract no. NE/2017/05 "Widening of Tai Po Road (Sha Tin Section)" was blocked by hard materials. This leads to sewerage overflow at Pau Tak Village (see photos below provided by DSD)



2. Background of the Incident

The sewerage system in Pai Tau Village was connected to the existing DN 900 sewer pipe at Tai Po Road (Sha Tin Section) southbound carriageway via some manholes in Zone 3 work front. The sewerage path is shown in **Figure 1**.

<u>Figure 1 – Sewerage System of Pai Tau Village to downstream DN 825 sewer at Tai</u> Po Road southbound carriageway.



On 12 June 2023, DSD informed CEDD and AECOM that DSD would carry out inspection of sewerage manholes in Zone 3 works area. On 14 June 2023, DSD informed CEDD and AECOM via telephone call that sewerage overflow occurred at Pai Tau Village. On 15 June 2023, DSD initiated a video conference with CEDD and AECOM. DSD revealed that blockage was found at the existing manhole no. FMH4089640 inside Zone 3 works area (see location in *Figure 2*) and would continue to clear the blocked manhole. Besides, DSD would install a by-pass pipe between the blocked manhole and the downstream manhole FMH4038025.

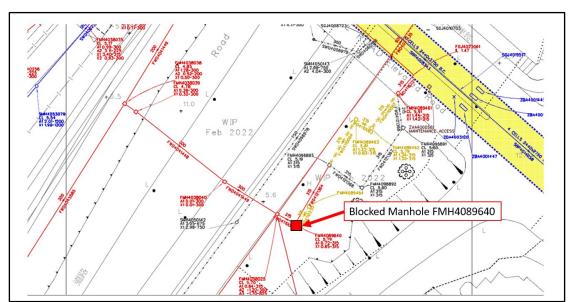


Figure 2 – Location of Blocked Sewerage Manhole FMH4089640

During DSD's emergency maintenance works from 15 June 2023 to 18 June 2023, DSD mobilized sludge pump to by-pass the sewerage flow to the box culvert underneath STRCR.

On 19 June 2023, DSD initiated the second video conference with CEDD and AECOM. DSD stated that the installation of by-pass pipe by coring method was unsuccessful due to encounter of hard material. Therefore, DSD requested CEDD's assistance to deploy CCZJV to clear the blocked manhole and construct a temporary underground by-pass pipe between manhole FM8 and FMH4038025 as a contingency.

AECOM coordinated among DSD, CEDD and CCZJV to have CCZJV removed debris in blocked manhole on 19 and 20 June 2023. Sewerage flow resumed normal at nigh time of 20 June 2023 after the removal of the debris. As requested by DSD after the sewerage resumed normal, CCZJV continued to carry out the contingency to install the by-pass pipe during their lane closure at night time on 20 June 2023 and completed on 21 June 203.

Date and Time	Events
12 June 2023	1:30 pm DSD/ AIOW requested access for inspection of sewerage
	manholes at Zone 3 southbound work front near STRCR with
	reference to sewage blockage reported at Pau Tau Village (see Figure
	1 for location).
13 June 2023	DSD stated that public complaints of sewage overflow at Pau Tau
	Village were received (see photos in <i>Annex A</i>).
14 June 2023	DSD Engineer informed CEDD and AECOM for sewerage overflow
	at Pau Tau Street.
15 June 2023	The first video conference among DSD, CEDD and AECOM. DSD
	requested CEDD and AECOM's assistance for the updated sewerage
	record and utilities record.
16 June 2023	DSD mobilized sludge pump to Zone 3 work front and installed a by-
	pass pipe above ground to divert flow from FMH4096893 to box
	culvert under STRCR (see Annex B for photos)

3. Event Log of The Incident

17^18 June 2023	DSD removed rubbish and debris from blocked manhole. (see Annex
	<i>C</i> for photos)
18 June 2023	DSD commenced coring to form another underground by-pass pipe
	between blocked manhole and downstream manhole FMH4038025
	and was unsuccessful due to conflict with hard material. (see Annex
	<i>C</i> for photos)
19 June 2023	The second video conference among DSD, CEDD and AECOM.
	DSD informed that coring between blocked manhole and its
	downstream manhole FMH4038025 was not successful. DSD
	requested CEDD assistance to :
	- Remove hard material at blocked manhole.
	- Uncover manhole FM8 which was constructed by this
	contract and temporarily covered up below the ground level.
	At 1800, CCZJV removed debris and rubbish at blocked manhole
	and was incomplete (see <i>Annex D</i>).
20 June 2023	CCZJV continued recovered and removed hard material and rubbish
	from manhole FMH4089640 (see <i>Annex D</i>).
	At around 7pm, sewerage flow resumed normal.
20 ^21 June 2023	Upon DSD's request for contingency measures, CCZJV constructed
	a by-pass trench to encase a DN 250 PE pipe between manhole
	FMH4038025 to FMH4089640 to temporarily divert sewage flow
	with DSD (see Annex E).
21 June 2023	CCZJV continued by-pass pipe construction within workfront and
	completed on 21 June 2023 (see Annex E)

4. Factual Findings

The factual findings related to the incident were listed below:

 a. The existing sewerage manhole FMH 4089640 was blocked by rubbish and cement debris which lead to sewerage overflow at upstream system i.e. Pau Tau Village.

5. Possible Causes of The Incident

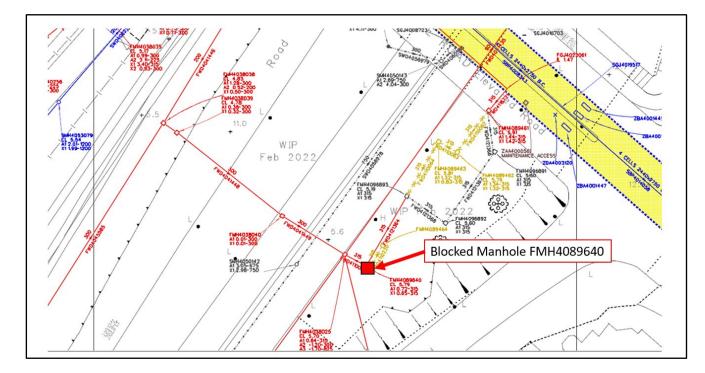
The possible causes of the incident are listed below:

a. The downstream sewerage manhole was trapped with debris and rubbish.

6. Action Taken and Preventive Measures

- a. Upon EPD's request on 21 June 2023 via email (Annex G) CCZJV performed checking of sewerage manholes of the system within the site boundary and the flow condition in these manholes were found in order. This was completed by 30 June 2023 (see findings on Annex F).
- b. Upon DSD's request on 28 June 2023 via email (Annex H), CCZJV was arranging CCTV survey for the conditions of sewerage pipeline within site boundary. CCZJV anticipated to commence in early July 2023 and complete in July 2023.

-- END --



Annex A – Location Plan

Annex B – Photos for Blocked Sewerage Manhole

Photo 1 – DSD mobilized sludge pump to by-pass sewerage flow (photo date: 16/6/2023)



Photo 2 – Sewage Manhole FM8 (photo date: 16/6/2023)



Annex C – Photos of DSD Emergency Maintenance Works

Photo 1 - DSD continued coring between existing sewage manholes at slow lane (photo date:

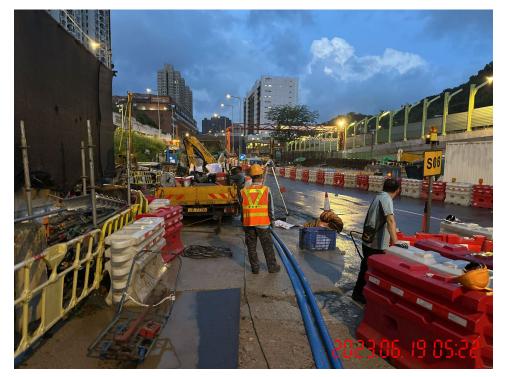
17^18/6/2023)



Photo 2 – DSD continued coring between existing sewage manholes at slow lane (photo date: $17^{18}/{6}/{2023}$ and photo provided by DSD)



Photo 2 - DSD continued coring between existing sewage manholes at slow lane (photo date: 19/6/2023)



Annex D – Photos of the Contractor Works (Removed rubbish and debris in blocked manhole FMH 4089640)

Photo 1 – CCZJV set up confined space (photo date: 19 June 2023)

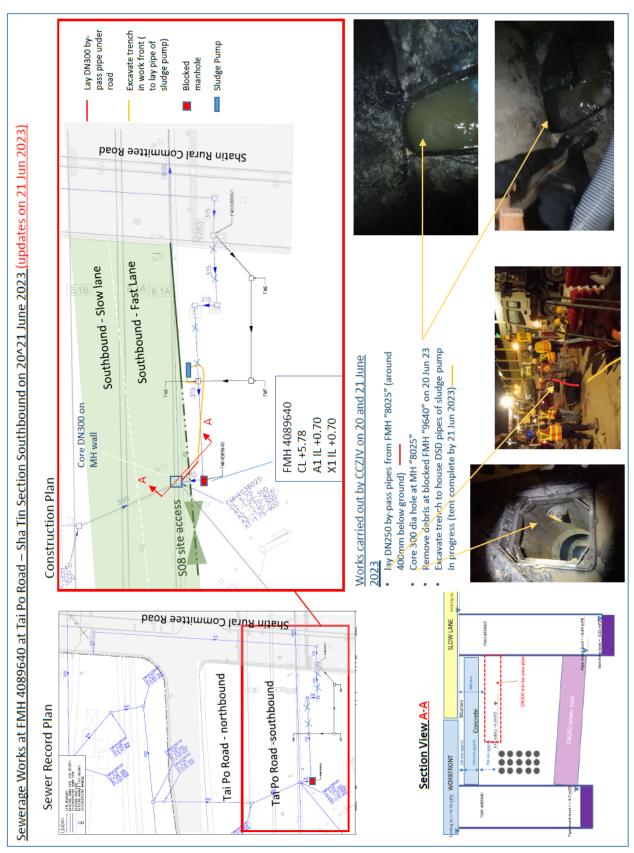


Photo 2 – CCZJV removed rubbish and debris from the blocked manhole (photo date: 19 June 2023)



Photo 3 - CCZJV removed rubbish and debris from the blocked manhole (photo date: 20^{21} June 2023)





Annex E – Contingency measures requested by DSD

Photo 1 – Photo of Works Location



Photo 2 – Condition of Blocked Manhole after removal of rubbish and debris

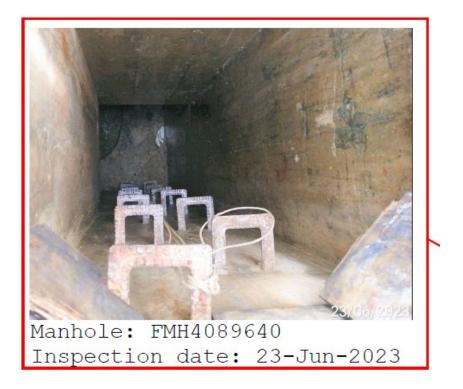
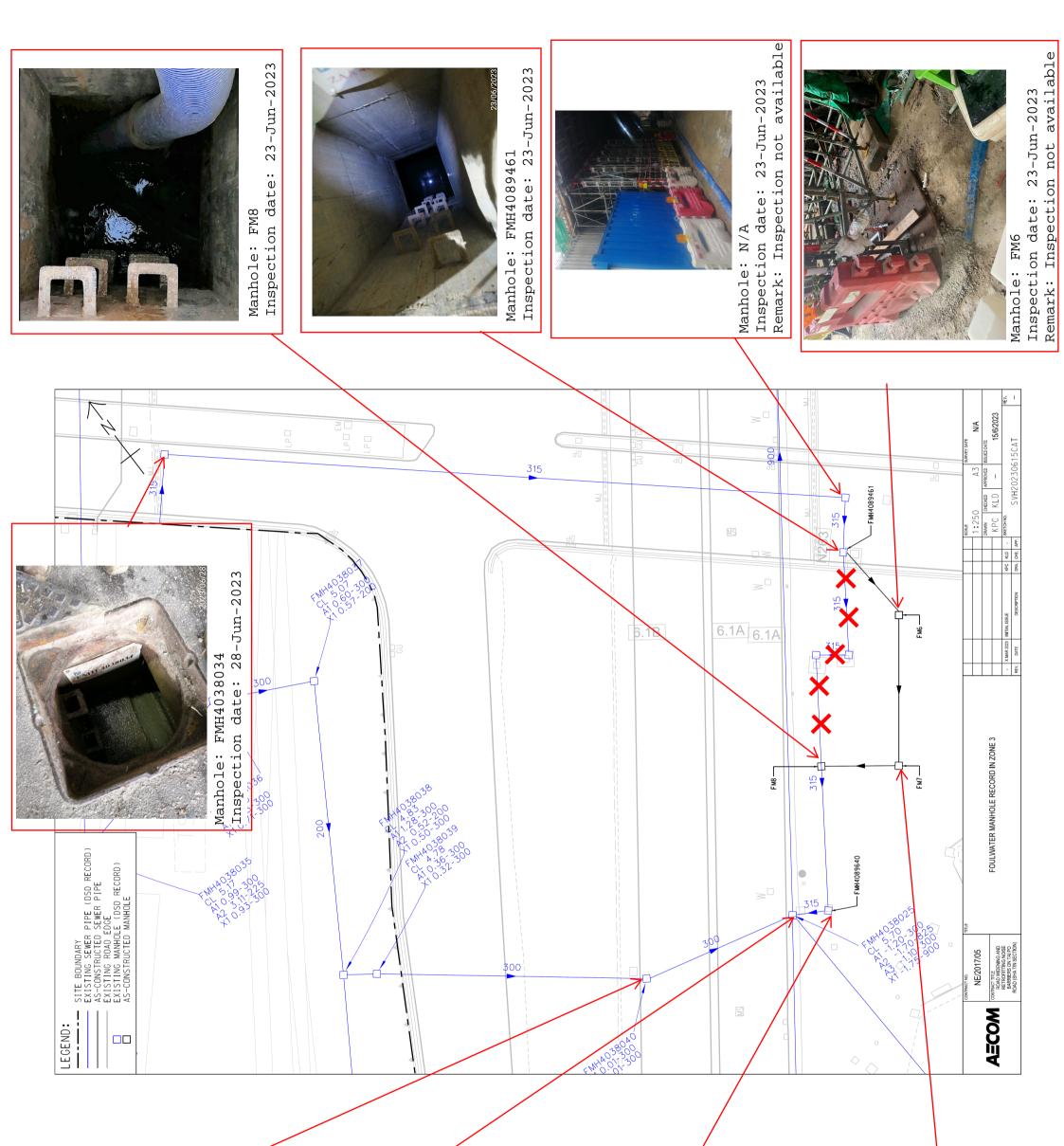


Photo 3 – by pass pipe constructed by CCZJV at FMH4038025



Annex F – Inspection of sewerage manholes within the

site boundary (refer to file Annex F -part 2)

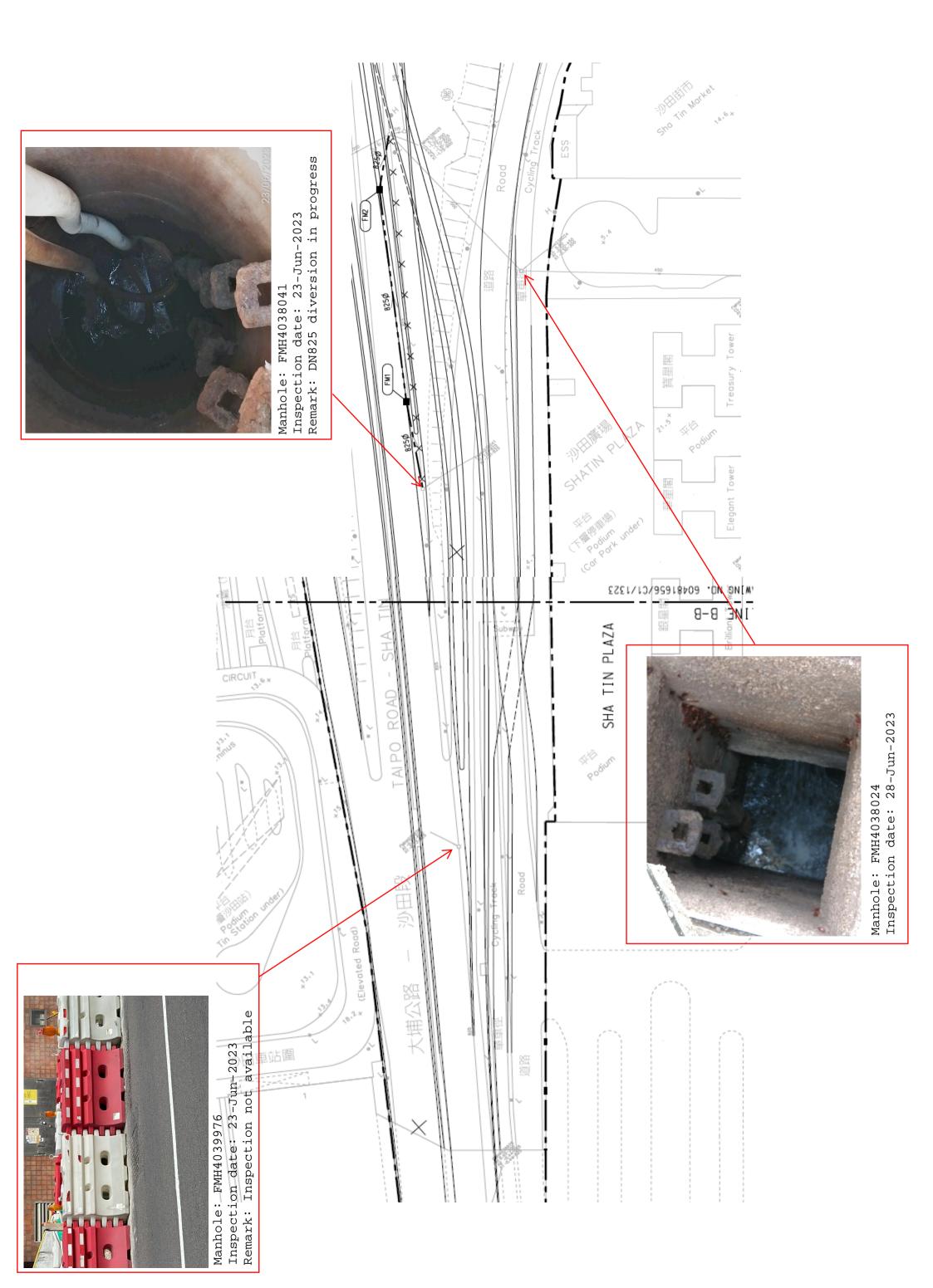




Remark: Inspection not available

Inspection date: 23-Jun-2023

Manhole: FM7



Annex G – EPD's email sent on 21 June 2023

From: kkmyip@cedd.gov.hk <kkmyip@cedd.gov.hk>
Sent: Wednesday, 21 June 2023 4:08 PM
To: Albert YU <albert.yu@wtpr-sts.com>
Cc: cheukholai@cedd.gov.hk; jkcyan@cedd.gov.hk; mhpang@cedd.gov.hk; SRE Group
<Ne201705_SRE@wtpr-sts.com>
Subject: 轉寄: Blockage of sewer manhole FMH4089640 in the construction site of Road
Widening at Tai Po Road – Sha Tin

Dear Albert,

I refer to email from EPD below.

Please provide the latest progress of the manhole clearance action and contingency works (i.e. by-pass pipe, trench and pump provisions) and corresponding site photos to me by **noon 23 June 2023** for my onward reporting to EPD. As suggested by EPD, please carry out inspection on all sewer manholes within our site and provide us the inspection schedule and findings. Furthermore, please carry investigation of the incident and provide a full investigation report to us by **4 July 2023**.

Please investigate and take necessary action regarding the suspected muddy discharge as mentioned in EPD's email. Please report your findings afterwards.

Thank you.

Regards,

Kevin Yip E/11 (N), North Development Office, CEDD Tel.: 3152 3576 Mobile: 9239 2357 ----- Forwarded by KEVIN KAR MING YIP/CEDD/HKSARG on 2023/06/21 下午 03:54 ----- To: kkmyip@cedd.gov.hk Cc: S[RN]4, E[RN]41, E[RN]42, TK KWOK/EPD/HKSARG@EPD, CI[RN]4, JOSEPH KAY CHI YAN/CEDD/HKSARG@CEDD Date: 2023/06/21 下午 03:53 Subject: Blockage of sewer manhole FMH4089640 in the construction site of Road Widening at Tai Po Road – Sha Tin

Dear Kevin,

We spoke.

Re. the subject. Most grateful if you can advise the progress of the manhole clearance action and provide me the site photos <u>by 23 June (Fri)</u>.

To prevent similar incident from happening again, please promptly inspect all sewer manholes in your site whether there is another blockage, and let me know the inspection schedule and your findings.

Besides, the location of outfall, which suspected muddy discharge was spotted recently, is appended below for your reference. Most grateful if you can urge your Contractor to maintain the wastewater treatment facilities properly to avoid the violation of the Water Pollution Control Ordinance.

Thanks.

Regards, Bryan KWOK E[RN]43, EPD Tel: 2158 5821

Annex H – DSD's email sent on 28 June 2023 and

AECOM's letter issued on 29 June 2023



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Chief Resident Engineer's Office 41 Lion Rock Tunnel Road, Shatin, N T, Hong Kong 香港新界沙田獅子山隧道公路 41 號 +852 3959 9600 tel +852 2276 0502 fax

Your Ref. : Our Ref. : TPRW/(NE/2017/05)/C60/200/10856



29 June 2023

China Railway - China Railway First Group - Zhen Hua Engineering Joint Venture 19/F, China Harbour Building 370-374 King's Road North Point Hong Kong

Attn .: Mr. WONG Sze Yiu

Dear Sir,

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

CCTV Inspection of Sewerage Pipes at Zone 3

You are instructed to carry out CCTV inspection of sewerage pipes from existing manhole FMH4089461 to FMH 4038025 (see attached location plan) and submit the CCTV survey report in accordance with GS clause 5.43 and GS and PS Appendix 5.1.

The CCTV inspection is required to be completed by July 2023.

Yours faithfully, For and on behalf of AECOM Asia Co. Ltd.

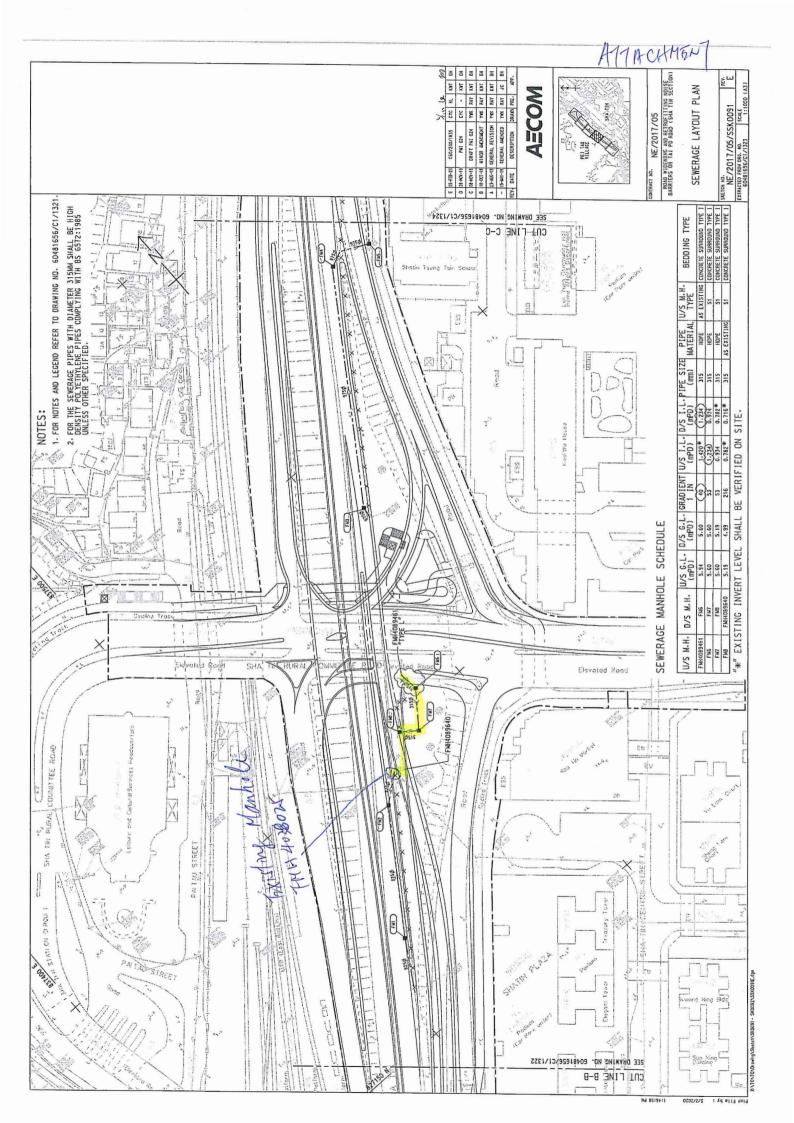
Albert Yu Hon Wing Project Manager's Delegate

Enc

CC

The Project Manager for the contract (PPA(N), CEDD) - Attn .: Mr. LAI Cheuk Ho The Project Manager's Delegate for the contract - Attn.: Mr. CHENG Bing Cheung, Kelvin





Catherine TAM

Blind	Note
Minar	1

From:	mhpang@cedd.gov.hk
Sent:	Wednesday, 28 June 2023 3:04 pm
То:	Catherine TAM
Cc:	Albert YU;
Subject:	轉寄: Re: Fw: Temporary emergency bypass near House No.27 Pai Tau Village
Attachments:	CCTV Extent.pdf

Dear Catherine,

Please follow up. Thanks.

Regards,

Chris PANG E/35 (N), North Development Office, CEDD Tel.: 3152 3592 ----- Forwarded by MAN HIM PANG/CEDD/HKSARG on 28/06/2023 15:03 -----

 From:
 Yat Hang LAM/MSD/DSD/HKSARG@DSD

 To:
 MAN HIM PANG/CEDD/HKSARG@CEDD

 Cc:
 Catherine TAM <catherine.tam@wtpr-sts.com>, JOSEPH KAY CHI YAN/CEDD/HKSARG@CEDD, KEVIN KAR MING

 YIP/CEDD/HKSARG@CEDD, Leon Kam Yuen LO/MSD/DSD/HKSARG@DSD, Shing Hin HO/MSD/DSD/HKSARG@DSD, Siu Long

 KOO/DSD/HKSARG@DSD, Timothy CHAN <timothy.chan@wtpr-sts.com>

 Date:
 28/06/2023 10:41

Subject: Re: Fw: Temporary emergency bypass near House No.27 Pai Tau Village

Dear Chris,

As discussed, our contractor is fully occupied and has no spare capacity to carry out the CCTV inspections.

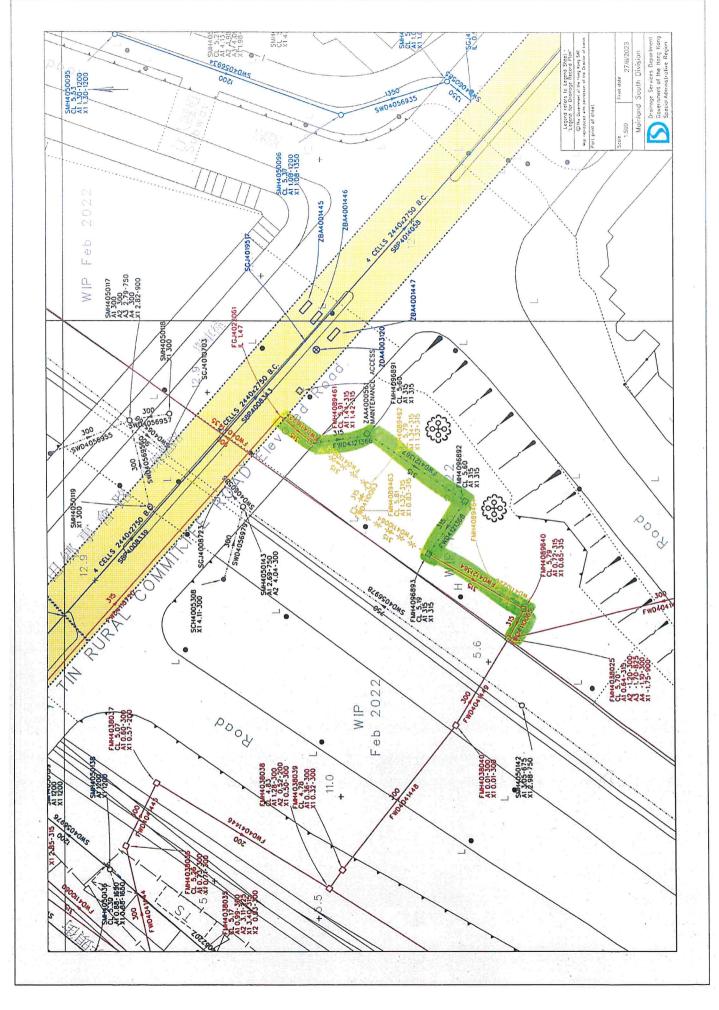
Grateful if you Contractor could carry out the CCTV inspections and provide the inspection records for our reference.

1

The extent of inspection is highlighted as per attached. Many thanks.

Regards, Chris Lam E/ST, MSD, DSD Tel: 2300 1573

Blind Note



V.

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Appendix O

Non-Compliance Photo Records

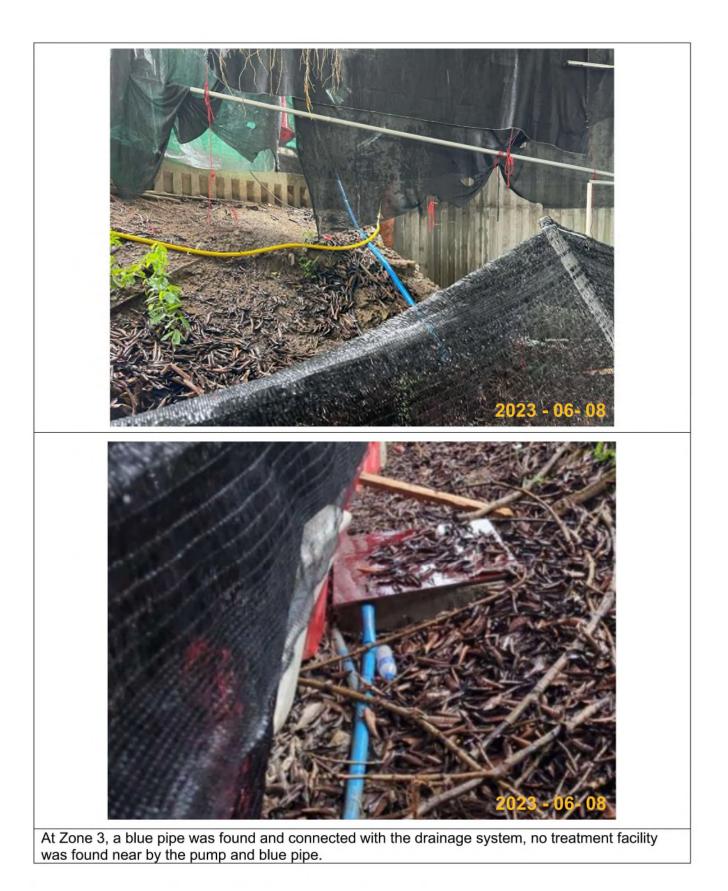
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WebsiteHong Kong.Website: www.fugro.com





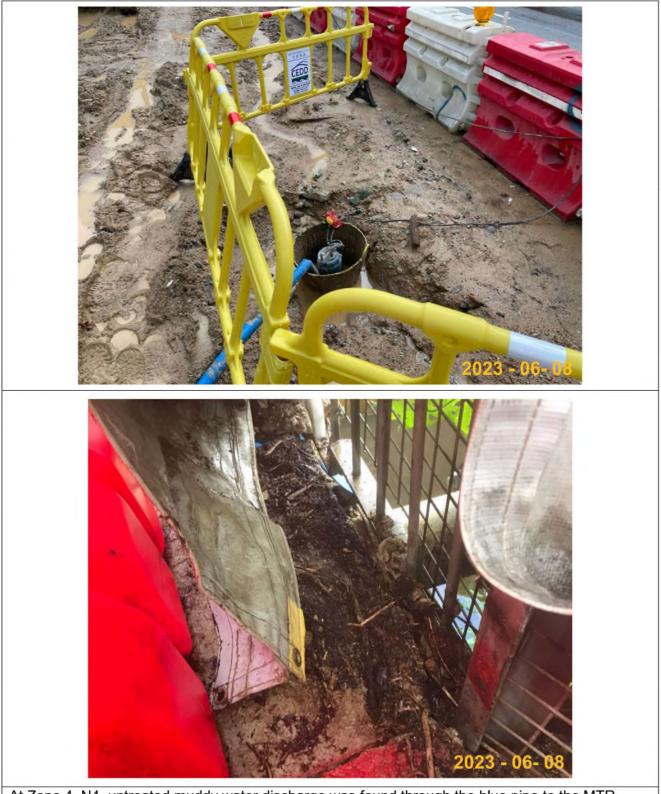
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: +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com





At Zone 4, N4, untreated muddy water discharge was found through the blue pipe to the MTR area, no treatment facility was found near by the pump and blue pipe.

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FaxTuen Mun, N.T.,
Hong Kong.Fax
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