Vol. 3 of 5

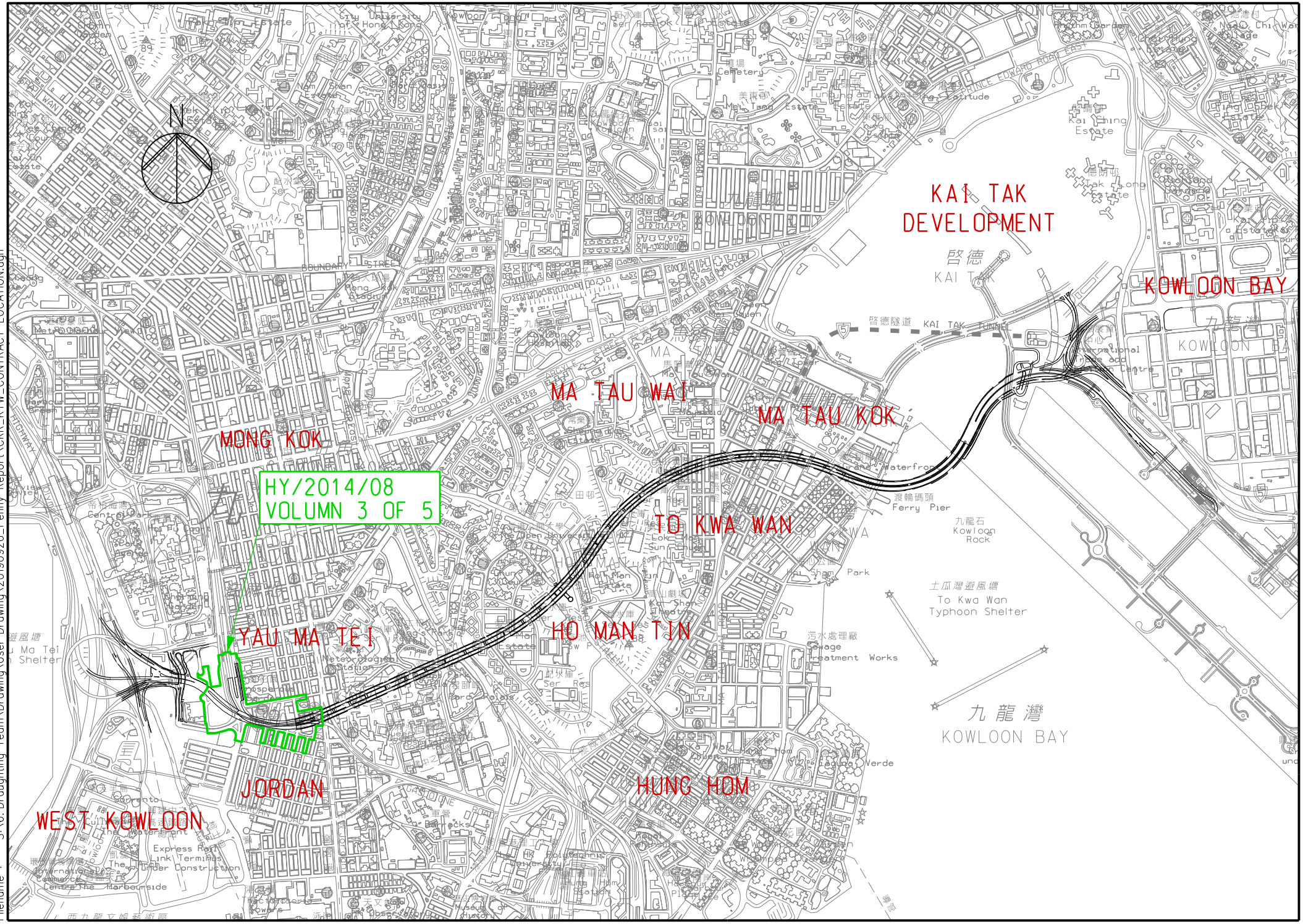
FEP-03/457/2013/D

Central Kowloon Route

Yau Ma Tei East

Contract No. HY/2014/08

August 2025



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路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

ERM

Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	**Yau Ma Tei East (HY/2014/08)**

Reference Document/Plan

Document/~~Plan~~ to be ~~Certified~~/ Verified:	Monthly EM&A Report No.89 (August 2025)
Date of Report:	10 September 2025
Date received by IEC:	10 September 2025

Reference EP Condition

Environmental Permit Condition: 3.4

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-457/2013/D.

Ms Mandy To Date: 11 September 2025

Independent Environmental Checker

Our ref: 0436942_IEC Verification Cert_YMTE_Monthly EM&A Rpt No.89.docx

Build King – SK ecoplant Joint Venture

Central Kowloon Route Contract HY/2014/08

Section of Yau Ma Tei East

Monthly EM&A Report No. 89

(Period from 01 to 31 August 2025)

Rev. 1

(10 September 2025)

	Name	Signature
Prepared by	Natalie W. I. Wong (Assistant Environmental Consultant)	
Checked & Reviewed by	Y.H. Law (Senior Environmental Consultant)	
Approved & Certified by	Kevin W. M. Li (Environmental Team Leader)	

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LIST OF APPENDICES

EXECUTIVE SUMMARY

A.1 Build King – SK ecoplant Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2014/08 – Section of Yau Ma Tei East ("The Project") on 20 April 2018. This is the 89th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 01 August 2025 to 31 August 2025.

A.2 A summary of the construction works reported by Main Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Backfilling and UU reinstatement works at Zones A, B, C, D, F & G
- Constructing W/B RGRF Deck at P1R-P7R
- Constructing socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3
- Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2

A.3 A summary of regular construction noise and construction dust monitoring activities in this reporting period is listed below:

Regular construction noise monitoring during normal working hours

W-N1A, W-P11, W-N18, W-N25A	5 times

Construction dust (24-hour TSP) monitoring

W-A1	5 times
W-A6	5 times

Construction dust (1-hour TSP) monitoring

W-A1, W-A6	15 times

A.4 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted on 14 and 27 August 2025. Details of the audit findings and implementation status are presented in Section 5.

A.5 Joint weekly site inspections were conducted by representatives of the Environmental Team (ET), Contractor and Engineer on 07, 14, 21 and 27 August 2025. One joint site inspection with IEC was also undertaken on 27 August 2025. Details of the audit findings and implementation status are presented in Section 5.

A.6 Details of waste management are presented in Section 3.

A.7 Four Action Levels of construction noise were triggered during the reporting month as four documented complaints regarding noise were received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.

A.8 A total of six environmental complaints were received in the reporting month. After investigation with the Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.

A.9 No non-compliance was reported in the reporting month.

A.10 No notification of summon or prosecution was received in this reporting month.

A.11 A summary of the construction activities provided by Main Contractor in the next reporting month is listed below:

Construction Activities to be undertaken

- Backfilling and reinstatement works at Zones A, B, C, D, F & G
- Bridge Works:-
  i. P2R to P7R – Continue construction of longitudinal stitch
  ii. Repair works for existing GRF pavement
  iii. Continue construction of MJ (Pier 1 and Pier 7) at Westbound
  iv. Removal of temporary kerbs at railing at Eastbound
- Continue installation of secondary tie beams and acoustic panels, smoke ventilation panels, welding splice joints of main beams and installation of MIC module for PMMA panels for Noise Enclosure F02 in Zone 3 (night works). Continue piling works at Portion 2 and construct ground beams at Portion 1 along Ching Ping Street for C07 Noise Enclosure.
- Works at Zone 2 Noise Enclosure are as the followings:
  i. Complete girder beam installation & welding joints for IMG5. Columns A to A1 (stage 1)
  ii. Installation of posts and main beams with temporary supports – East side
- Works at Zone 1 Noise Enclosure - Continue install steel posts and steel main beams, secondary tie beams, installation of smoke ventilation panels, absorptive panels and PMMA panels at the West side of Noise Enclosure Zone 1.
- Noise Enclosure steelworks fabrication at the yards in Zhuhai, China
- Monitoring of instrumentation for all areas

1. BASIC PROJECT INFORMATION

1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.

1.2. The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was applied for and the EP (EP-457/2013/C) was issued by EPD on 16 January 2017. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021. A Further EP (FEP-03/457/2013/D) was issued by EPD on 5 November 2021.

1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2014/08 – Section of Yau Ma Tei East (YMTE) covers part of the construction activities located at Yau Ma Tei under the EP and FEP which includes:

- Section of Yau Ma Tei East

i. Construction of Cut-and-Cover Tunnel in compliance with all statutory requirements and the requirements specified under the Contract while maintaining the traffic with all necessary provisions

ii. Construction and subsequent handover of Yau Ma Tei Access Shaft for facilitating the access and use by the contractor of Central Kowloon Route - Central Tunnel contract

iii. Demolition of existing buildings including Yau Ma Tei Multi-storey Carpark Building, Yau Ma Tei Specialist Clinic Extension Building and Yau Ma Tei Jade Hawker Bazaars

iv. Demolition and re-provisioning of Gascoigne Road Flyover and the underpinning works for the existing Ferry Street Flyover and Yau Ma Tei Police Station New Wing Building

v. Construction of civil provisions and coordination with the contractor of Central Kowloon Route - Tunnel Electrical & Mechanical contract

vi. Design and construction of Noise Barrier Works

vii. Prepare temporary traffic arrangement proposals, discuss at Traffic Management Liaison Group meeting and obtain its agreement and approval/ endorsement from relevant authorities at suitable times to enable the execution of the Works

The alignment and works area for the Contract No. HY/2014/08 - are shown in Appendix A.

1.4. A summary of the major construction activities undertaken in this reporting period is shown in Table 1.1. The construction programme is presented in Appendix B.

Table 1.1 Summary of the Construction Activities reported by Main Contractor during the Reporting Month

Construction Activities undertaken
● Backfilling and UU reinstatement works at Zones A, B, C, D, F & G ● Constructing W/B RGRF Deck at P1R-P7R ● Constructing socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3 ● Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2

1.5. The project organisational chart specifying management structure and contact details are shown in Appendix C.

1.6. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.2.

Table 1.2 Summary of the Status of Valid Environmental Licence

Notification, Permit and Documentations

Permit/ Licences/ Notification /Reference No.	**Valid Period**		**Status**	**Remark**
	From	To		
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Further Environmental Permit				
FEP-03/457/2013/D	5 Nov 2021	End of Project	Valid	
Wastewater Discharge License				
WT00043433-2023	14 Aug 2024	31 Mar 2028	Valid	-
WT00045552-2024	21 Nov 2024	30 Nov 2029	Valid	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				
471691	14 Sep 2021	End of Project	Notified	-
Chemical Waste Producer Registration				
WPN5213-225-B2526-01	14 Mar 2018	End of Project	Valid	-
Billing Account for Disposal of Construction Waste				
7029997	1 Feb 2018	End of Project	Valid	-
Construction Noise Permit				
GW-RE0223-25	12 Mar 2025	11 Sep 2025	Valid	Construction Noise Permit at Zone B1-B3, C & F and Column C & D
GW-RE0307-25	5 Apr 2025	4 Oct 2025	Valid	Construction Noise Permit for Zone A & B and Column A
GW-RE0366-25	7 Apr 2025	3 Oct 2025	Valid	Construction Noise Permit at Zone B1-B3, C & F and Column C & D
GW-RE0420-25	14 Apr 2025	9 Oct 2025	Valid	Construction Noise Permit for Welding at Column E, G & H

Permit/ Licences/ Notification /Reference No.	Valid Period		Status	Remark
	From	To		
GW-RE0541-25	21 May 2025	20 Nov 2025	Valid	Construction Noise Permit at Zone B1-B3, C & F and Column C & D
GW-RE0603-25	2 Jun 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for Construction of Parapet Wall at GRF near Shanghai Street
GW-RE0616-25	2 Jun 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for Construction of Parapet Wall at Reclamation Street
GW-RE0619-25	2 Jun 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for Construction of Parapet Wall at Temple Street
GW-RE0628-25	11 Jun 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for Erection of Enclosure at Zone 3 and Stitching Works of GRF
GW-RE0745-25	28 Jun 2025	27 Dec 2025	Valid	Construction Noise Permit at Zone D & G
GW-RE0757-25	1 Jul 2025	30 Sep 2025	Valid	Construction Noise Permit for Column Lifting at Column E
GW-RE0864-25	26 Jul 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for TTA Implementation at Ferry Street, Kansu Street and Yan Cheung Road
GW-RE0871-25	30 Jul 2025	30 Sep 2025	Valid	Erection of Enclosure at Zone 1-3 and Stitching Works of GRF
GW-RE0940-25	15 Aug 2025	31 Oct 2025	Valid	TTA Modification at Yau Cheung Road
GW-RE0903-25	9 Aug 2025	31 Oct 2025	Valid	Construction Noise Permit for Erection of Temporary Support for Girder Beam Installation of Noise Enclosure at Ferry Street Southbound
GW-RE0942-25	15 Aug 2025	31 Oct 2025	Valid	TTA Implementation for Reprovisioning of Gascoigne Road Flyover
GW-RE0988-25	20 Aug 2025	31 Aug 2025	Expired during reporting month	Construction Noise Permit for Construction of Parapet Wall at GRF near Shanghai Street
Marine Dumping Permit				
Nil	-	-	-	-

2. ENVIRONMENTAL STATUS

2.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-457/2013/D) and FEP (FEP-03/457/2013/D) as of the reporting period for the Project are summarised in Table 2.1

Table 2.1 Summary of Status of Required Submission for EP-457/2013/D and FEP-03/457/2013/D for the Project

EP/FEP Condition (EP-457/2013/D) (FEP-03/457/2013/D)	**Submission**	**Submission date**
Condition 3.4	Monthly EM&A Report (July 2025)	08 August 2025

2.2. Details of the major construction activities reported by Main Contractor in this reporting period are shown in Table 2.2.

Table 2.2 Summary of the Construction Activities reported by Main Contractor during the Reporting Month

Construction activities undertaken	**Remarks on progress**
● Backfilling and UU reinstatement works at Zones A, B, C, D, F & G	● 80% completion
● Construct W/B RGRF Deck at P1R-P7R	● 98% completion
● Construct socketed H-piles, pile caps, ground beams, RC columns, Steel Posts, Steel Main Beams, Steel Tie Beams and Acoustic Panels for Noise Enclosure at Zone 3	● 85% completion
● Pipe Piles, Barrette, Caps/Footings, Steel Columns, Girder Beams, Steel Posts, Steel Main Beams, Steel Tie Beams, Acoustic Panels and Smoke Van. Panels for Noise Enclosure at Zone 2	● 48% completion

2.3. The drawing showing the project layout and the location of the monitoring station and environmental sensitive receivers are attached in Appendix A and Appendix K. Co-ordinates of the monitoring location are shown in Table 2.3.

Table 2.3 Summary for the location of the monitoring station

Monitoring Location	Location ID	Latitude	Longitude
Yau Ma Tei Catholic Primary School (Hoi Wang Road)*	W-A1/ W-N1A	22.31345	114.16409
Man Cheong Building	W-A6	22.308185	114.166033
Hydan Place	W-N18	22.30858	114.170185
Prosperous Garden Block 1	W-N25A	22.309846	114.168072
The Coronation Tower 1	W-P11	22.309824	114.165616

Remark: *The High Volume Sampler (HVS) at dust impact monitoring location W-A1 had been relocated on 6 Sep 2022 due to installation work of PV panel at Yau Ma Tei Catholic Primary School. The relocation of HVS was approved by ER and agreed with IEC.

3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

3.1.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.

3.1.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.

3.1.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

Noise

3.1.4. Construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). Leq (30min) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays.

3.1.5. For all other time periods, Leq (5min) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria.

3.1.6. As supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

3.2. Monitoring Equipment

Air Quality

3.2.1. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).

3.2.2. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificates of dust monitoring equipment are attached in Appendix H.

3.2.3. A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 3.1. The TSP monitoring was conducted as per the schedule presented in Appendix G.

3.2.4. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Table 3.1 Construction Dust Monitoring Equipment

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	761173	23 Feb 2025
	LD-5R Digital Dust Indicator	761174	23 Feb 2025
	LD-5R Digital Dust Indicator	851816	23 Feb 2025
	LD-5R Digital Dust Indicator	851817	23 Feb 2025
24-hour TSP	TE-5170X High Volume Sampler	1084	01 August 2025 and 16 August 2025
	TE-5170X High Volume Sampler	1050	01 August 2025 and 16 August 2025
	TE-5025A Calibration Kit	3465	02 Dec 2024

Noise

3.2.5. Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications has been used for carrying out the noise monitoring. The sound level meter has been checked using an acoustic calibrator. The wind speed and other metrological data has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up when the information are not available from HKO.

3.2.6. Acoustic calibrators and sound level meters using for the monitoring is within the valid period and were calibrated per year. Valid calibration certificate of noise monitoring equipment is attached in Appendix I.

3.2.7. The details of equipment using for monitoring are listed in Table 3.2, as below:

Table 3.2 Monitoring Equipment Used in Monitoring

Monitoring Equipment	Serial Number	Date of Calibration
Nti XL3 Sound Level Meter	A3A-01229-F0	24 Jul 2025
Nti XL3 Sound Level Meter	A3A-01220-F0	03 Sep 2024
Rion NC-75 Sound Level Calibrator	35124528	13 Feb 2025

3.3. Monitoring Methodology and QA/QC results

Air Quality

3.3.1. The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R and PC-3A(E) digital dust indicator) were used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90^{o} light scattering. Three 1-hour TSP level were logged per every six days.

3.3.2. The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170X High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:

- The HVS was set at the monitoring location, with electricity supply connected and secured;
- HVS was calibrated before commencing the 1st measurement;
- The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix J;
- The airflow over time during sampling process was recorded by the HVS.

3.3.3. HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:

- Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
- A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
- No furnace or incinerator flues was nearby;
- Airflow around the sampler was unrestricted; and
- Permission could be obtained to set up the samplers and gain access to the monitoring station.

3.3.4. Preparation of Filter Papers

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than ±3°C; the relative humidity (RH)was 40%; and
- Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

3.3.5. Field Monitoring

- The power supply was checked to ensure that the HVS was working properly;
- The filter holder and area surrounding the filter were cleaned;
- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 0.64-1.52m^3min^{-1}, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7m^3min^{-1});

- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and filter number were recorded;
- The initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- The filters were sent to (Acumen Laboratory and Testing Ltd and ALS Technichem (HK) Pty Ltd) for analysis.

3.3.6. Maintenance and Calibration

- The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five- point calibration was carried out for HVS using TE-5025 Calibration Kit. HVS is calibrated bimonthly. The calibration records for the HVS is given in Appendix H.

3.3.7. Wind Data Monitoring

- The wind speed has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up when the information are not available from HKO.

Noise

3.3.8. All noise measurements by the meter were set to FAST response and on the A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). $L_{Aeq(30min)}$ was used as the monitoring metric for the time period between 0700 –1900 hours on normal weekdays. The measured noise levels were logged every 5 minutes throughout the monitoring period.

3.3.9. Prior to the noise measurement, the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Checking was conducted before and after the monitoring. The calibration level before and after the noise measurement is agreed to within 1.0 dB(A).

3.3.10. Noise measurements should not be made in presence of fog, rain, wind with a steady speed exceeding 5 ms^{-1} or wind with gusts exceeding 10 ms^{-1}. The wind speed was checked with a portable wind speed meter capable of measuring with speeds in ms^{-1}.

3.4. Monitoring Locations

Air Quality

3.4.1. During the site visit, both of the original proposed dust monitoring locations were rejected due to the condition at The Coronation was not favourable for monitoring and the access was declined by the management office of Hong Kong Community College (HKCC) of PolyU. Two alternative air monitoring stations Yau Ma Tei Catholic Primary School (Hoi Wang Road) and Man Cheong Building had been proposed by ET and approved by IEC. 2 designated air monitoring locations were identified and agreed with IEC and EPD. Details of air monitoring stations are described in Table 3.3. The location plan of air quality monitoring stations is shown in Appendix K.

Table 3.3 Location of the Dust Monitoring Stations

Air Quality Monitoring Station	Dust Monitoring Station
W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)
W-A6	Man Cheong Building

Noise

3.4.2. During the site visit, one of the original proposed noise monitoring locations Tak Cheong Building was rejected by the president of the owner's corporation. Alternative noise monitoring station Hydan place had been proposed by ET and approved by IEC. 4 noise sensitive receivers designated noise monitoring locations were identified and agreed with IEC and EPD. The designated monitoring stations are identified and access was granted by the premises. The details of noise monitoring stations are described in Table 3.4 and the location plan of noise monitoring station is shown in Appendix K.

Table 3.4 Noise Monitoring Stations

Noise Monitoring Station	Identified Noise Monitoring Station	Type of Measurement
W-N1A	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Façade
W-N18	Hydan Place	Façade
W-N25A	Prosperous Garden Block 1	Façade
W-P11	The Coronation Tower 1	Façade

3.5. Monitoring date, time, frequency and duration

3.5.1. A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 3.5.

Table 3.5 Summary of Impact Monitoring Programme

Impact Monitoring	Duration	Sampling Parameter	Frequency
Dust	1-hour continuous measurement	1-hour TSP	3 times per six days
Dust	24-hour continuous sampling	24-hour TSP	Once per six days
Noise	30-minute continuous measurement	$L_{eq\ 30\ min}$, L_{10} and L_{90} as reference.	Once per week (0700 – 1900)

3.6. Result Summary

Air Quality

3.6.1. According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are summarised in Table 3.6.

Table 3.6 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Source
W-A1	Nearby traffic
W-A6	Nearby traffic

3.6.2. Air quality impact monitoring for the reporting month was carried out on 06, 11, 14, 20 and 26 August 2025. The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions. The Weather Warning and Signals Record could be found in Appendix R.

3.6.3. The results for 1-hour TSP and 24-hour TSP are summarized in Table 3.7 and Table 3.8. The measurement data and details of influencing factors such as weather conditions and site observation are presented in Appendix L.

Table 3.7 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range(μg/m³)	Action Level(μg/m3)	Limit Level(μg/m3)
W-A1	13 – 43	319	500
W-A6	18 – 43	306	500

Table 3.8 Summary of 24-hour TSP Monitoring Results

Monitoring Location	Range(μg/m³)	Action Level(μg/m3)	Limit Level(μg/m3)
W-A1	30 – 46	167	260
W-A6	29 – 61	166	260

Noise

3.6.4. According to our field observations, the major noise source identified at the designated noise monitoring station in the reporting month are summarised in Table 3.9:

Table 3.9 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
W-N1A	Nearby traffic
W-N18	Nearby traffic
W-N25A	Nearby traffic
W-P11	Nearby traffic

3.6.5. The construction noise impact monitoring for the reporting month was carried out on 06, 11, 14, 20 and 26 August 2025. The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions. The Weather Warning and Signals Record could be found in Appendix R.

3.6.6. The result for noise monitoring is summarized in Table 3.10. The measurement data are shown in Appendix M.

Table 3.10 Summary of Noise Monitoring Results

Time Period	**Monitoring location**	**Parameter**	**Range, dB(A)**				
			L_{eq}	**L_{10}**	**L_{90}**	**Action Level**	**Limit Level#**
Normal working hour from 0700-1900	W-N1A*	Leq 30min	58.2 – 60.8	59.2 – 64.9	56.8 – 58.5	When one documented complaint is received	70dB(A) or 65 dB(A) during examination
	W-N18		61.9 – 69.6	64.3 – 72.4	60.0 – 66.5		75dB(A)#
	W-N25A		66.9 – 73.4	70.2 – 75.4	65.4 – 71.6		
	W-P11		60.9 – 71.2	62.9 – 74.1	59.3 – 67.8		

Remarks: 1. # If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit by the Noise Control Authority have to be followed.

2. * Examination was not scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

Waste management

3.6.7. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types

of waste generated in the reporting month are summarised in Table 3.11. Details of cumulative waste management data are presented as a waste flow table in Appendix N.

Table 3.11 Quantities of waste generated from the Project

Reporting period	Quantity					
	Inert C&D Materials (in 'tonnes)	Chemical Waste (in'000 Kg)	Non-inert C&D Materials			
			Others, e.g. General Refuse disposed at Landfill (in 'tonnes)	Recycled materials		
				Paper/card board (in '000 Kg)	Plastics (in '000 Kg)	Metals (in '000 Kg)
August 2025	3410.20	0.00	75.20	0.80	0.00	91.80

4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

4.1. The Environmental Complaint Handling Procedure is shown in below Table 4.1:

Table 4.1 Environmental Complaint Handling Procedure

Complaint Received via Project Hotline	Complaint Received via 1823 or from other government departments
Contractor notify ER, ET and IEC	ER notify Contractor, ET and IEC
Contractor log complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint	
If complaint is considered not valid	If complaint is found valid
ET or ER to reply the complainant if necessary	Contractor to identify and implement remedial measures in consultation with the IEC, ET and ER.
	The ER, ET and IEC to review the effectiveness of the Contractor's remedial measures and the updated situation; ET to undertake additional monitoring and audit to verify the situation if necessary, and oversee that circumstances leading to the complaint do not recur. ER to conduct further inspection as necessary.
If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the complaint investigation and follow-up actions stipulated above, including the details of the remedial measures and additional monitoring identified or already taken, for submission to EPD within the time frame assigned by the EPD	
The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports	

4.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in Appendix D and Appendix E shall be carried out.

4.3. Four Action Levels of construction noise were triggered during the reporting month as four documented complaints regarding noise was received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.

4.4. A total of six environmental complaints were received in the reporting month. After investigation with Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.

4.5. No non-compliance was reported in the reporting month.

4.6. No notification of summon and prosecution was received in the reporting period.

4.7. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix O.

5. EM&A SITE INSPECTION

5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, four (4) site inspections were carried out on 07, 14, 21 and 27 August 2025, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 14 and 27 August 2025.

5.2. One joint site inspection with IEC also undertaken on 27 August 2025. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Table 5.1 Site Observations

Date	Environmental Observations	Follow-up Status
07 August 2025	1. At Zone B3, NRMM labels are to be placed on PMEs at where it could be easily seen. 2. At Ching Ping Street, sandbags should be provided surrounding the storm drains on site.	1. The two excavators in Zone B3 were removed from the works area. 2. Strom drains were protected properly with sandbags at Ching Ping Street.
14 August 2025	1. At Gascoigne Road Flyover, housekeeping should be enhanced. 2. At Zone G, an excavator was observed without the display of NRMM label. NRMM label should be fixed and displayed at a conspicuous position of the machine. 3. At Zone 3, noise barrier canvas should be deployed for the air compressor to minimise noise impact.	1. At Gascoigne Road Flyover, the housekeeping of the site area was enhanced. 2. The NRMM label was displayed on the excavator conspicuously. 3. Noise barrier canvas was deployed for the air compressor.
21 August 2025	1. At Zone 3, Zone P6 and Zone F, chemicals on site should be placed on drip tray. If the containers are emptied, they should be removed properly. 2. At Zone F, NRMM labels should be applied to the PMEs on site.	1. The chemical containers were removed by the sub-contractors. 2. The excavator was removed from the works area.
27 August 2025	1. At Yau Ma Tei Jockey Club Polyclinic and Canton Road, chemicals and breakers on site should be placed on drip tray or on impervious sheets.	1. The chemical containers and the breaker were removed.

5.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.

5.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in Appendix F.

6. FUTURE KEY ISSUES

6.1. The construction activities provided by Main Contractor in the next reporting month are:

Construction Activities to be undertaken

- Backfilling and reinstatement works at Zones A, B, C, D, F & G
- Bridge Works:-
  i. P2R to P7R – Continue construction of longitudinal stitch
  ii. Repair works for existing GRF pavement
  iii. Continue construction of MJ (Pier 1 and Pier 7) at Westbound
  iv. Removal of temporary kerbs at railing at Eastbound
- Continue installation of secondary tie beams and acoustic panels, smoke ventilation panels, welding splice joints of main beams and installation of MIC module for PMMA panels for Noise Enclosure F02 in Zone 3 (night works). Continue piling works at Portion 2 and construct ground beams at Portion 1 along Ching Ping Street for C07 Noise Enclosure.
- Works at Zone 2 Noise Enclosure are as the followings:
  i. Complete girder beam installation & welding joints for IMG5. Columns A to A1 (stage 1)
  ii. Installation of posts and main beams with temporary supports – East side
- Works at Zone 1 Noise Enclosure - Continue install steel posts and steel main beams, secondary tie beams, installation of smoke ventilation panels, absorptive panels and PMMA panels at the West side of Noise Enclosure Zone 1.
- Noise Enclosure steelworks fabrication at the yards in Zhuhai, China
- Monitoring of instrumentation for all areas

6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise and waste management.

6.3. The tentative schedule of regular construction noise, 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix P.

6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

7. CONCLUSION AND RECOMMENDATIONS

7.1. This 89th monthly EM&A Report presents the EM&A works undertaken during the period from 01 August 2025 to 31 August 2025 in accordance with the EM&A Manual and the requirement under EP- 457/2013/D and FEP-03/457/2013/D.

7.2. Four Action Levels of construction noise were triggered during the reporting month as four documented complaints regarding noise were received. No exceedance of Limit Level of construction noise was recorded in the reporting month. No exceedance of the Action and Limit Level of 24-hour TSP and 1-hour TSP was recorded in the reporting month.

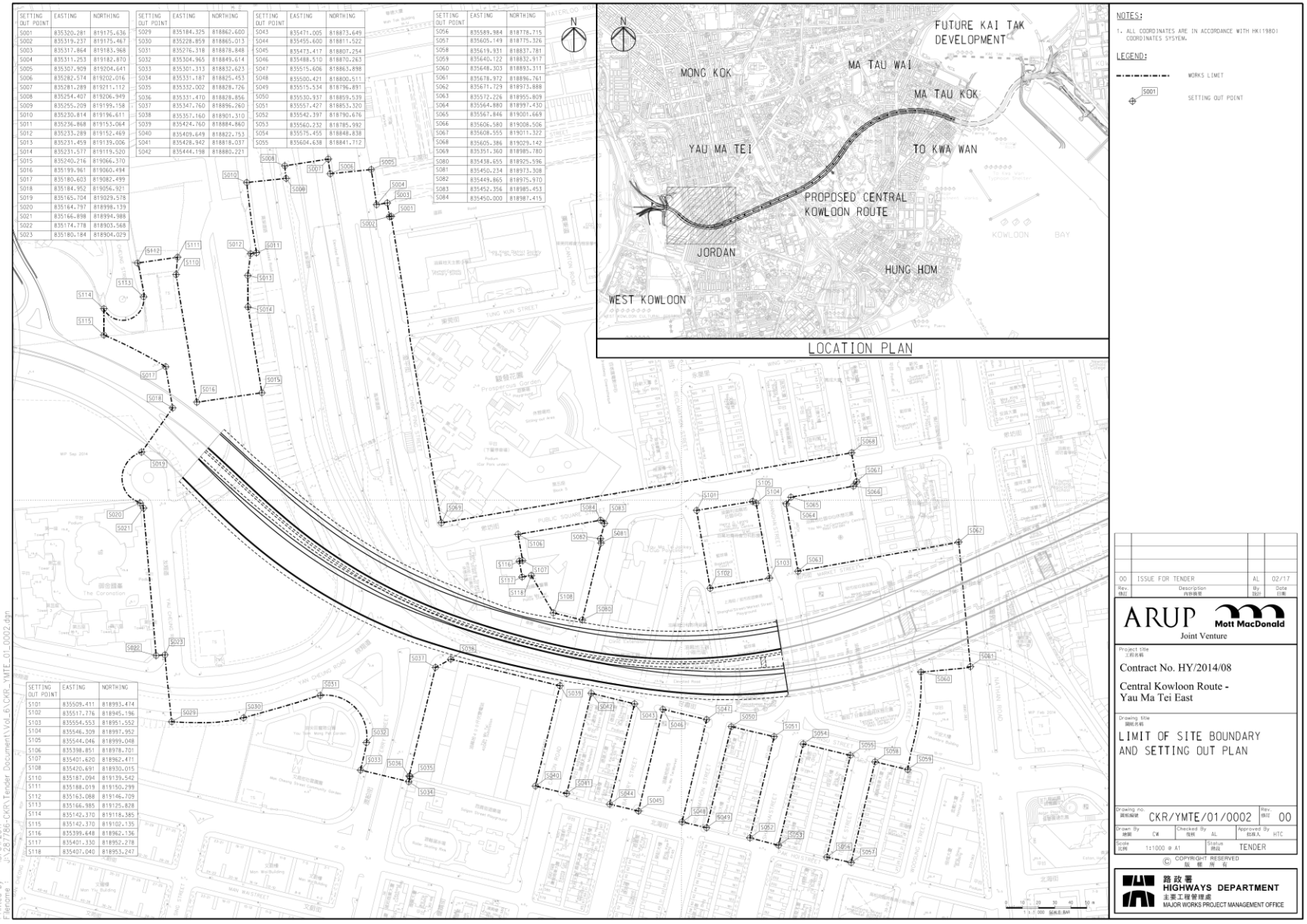
7.3. A total of six environmental complaints were received in the reporting month. After investigation with Contractor, precautionary measures had been proposed to the Contractor by ET. The interim reports for the complaints are shown in Appendix Q.

7.4. No non-compliance was reported in the reporting month.

7.5. No notification of summons or prosecution was received in the reporting month.

7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A
Alignment and Works Area For the Contract No. HY/2014/08


LOCATION PLAN
FUTURE KAI TAK DEVELOPMENT
MONG KOK
MA TAU WAI
MA TAU KOK
YAU MA TEI
TO KWA WAN
PROPOSED CENTRAL KOWLOON ROUTE
JORDAN
HUNG HOM
WEST KOWLOON
KOWLOON BAY
NOTES:
1. ALL COORDINATES ARE IN ACCORDANCE WITH HK(1980) COORDINATES SYSYEM.
LEGEND:
WORKS LIMIT
SETTING OUT POINT
ISSUE FOR TENDER
ARUP
Mott MacDonald
Joint Venture
Contract No. HY/2014/08
Central Kowloon Route - Yau Ma Tei East
LIMIT OF SITE BOUNDARY AND SETTING OUT PLAN
CKR/YMTE/01/0002
TENDER
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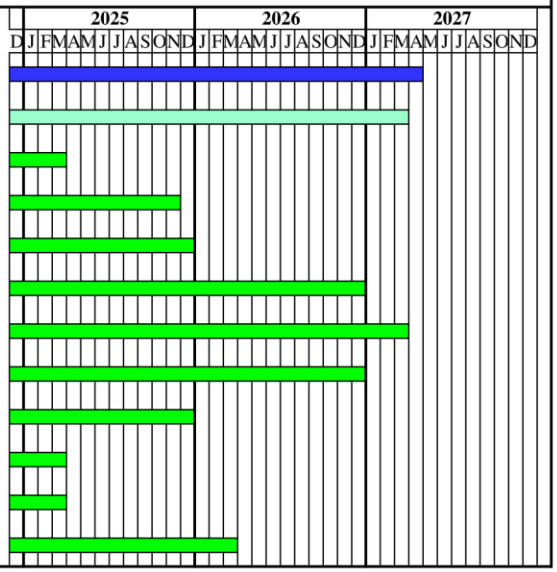
MAJOR WORKS PROJECT MANAGEMENT OFFICE

Appendix B
Construction Programme

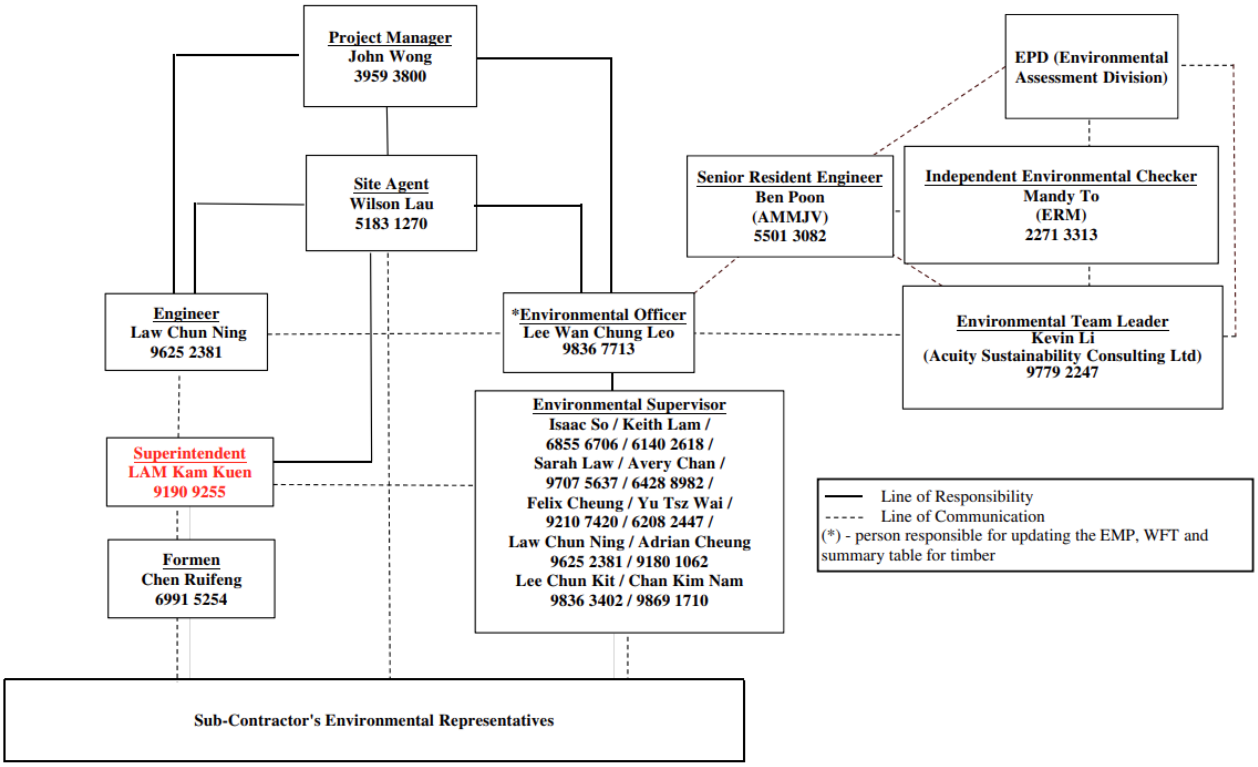
Construction Programme

Activity Name	Duration	Start	Finish
HY/2014/08 Central Kowloon Route - Yau Ma Tei East	**3390**	**8-Jan-18**	**20-Apr-27**
Construction Works	**3353**	**17-Jan-18**	**23-Mar-27**
Works on Northern & Southern Parts of YMT Multi-Storey Car Park Building	45	1-Feb-25	17-Mar-25
All Works within TMTSC, Maintenance Depot Area, Public Square St/Kansu St Rest Garden, Access Road	1857	20-Oct-20	19-Nov-25
Preservation and Protection of Existing Trees	2905	17-Jan-18	30-Dec-25
Establishment Works	365	31-Dec-25	30-Dec-26
All Works in Underground and Noise Enclosure (Zone 1)	1864	14-Feb-22	23-Mar-27
Completion of Noise Enclosure (Zone 2 & 3)	2317	26-Aug-20	29-Dec-26
All Remaining Works not Covered in Other Section	2765	6-Jun-18	30-Dec-25
Construction of C&C Tunnel Westbound	2623	17-Jan-18	23-Mar-25
C&C Tunnel Works within Portion 13 & 20A, Cul-de-sac at Portion 20B & 24	2551	7-Apr-18	31-Mar-25
GRF Reprovisioning	2273	16-Dec-19	6-Mar-26



Appendix C
Project Organization Chart

Project O-Chart



Appendix D
Dust Event-Action Plan (EAP)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
ACTION LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2.Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method;	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	3. Ensure remedial measures properly implemented.	within 3 working days of notification; Implement the agreed proposals; 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate 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 portion of works as determined by the ER until the exceedance is abated.

Note:

ET – Environmental Team ER – Engineer's Representative

IEC – Independent Environmental Checker

Appendix E
Noise Event-Action Plan (EAP)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1.Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1.Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is	1. Take immediate 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 portion of works as determined by the ER until the exceedance is abated.

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.		abated.	

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Appendix F
Environmental Mitigation Implementation Schedule (EMIS)

Environmental Mitigation Implementation Schedule – Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction Dust Impact								
S4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented
S4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m^2 to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented
S4.3.10	D3	• Proper watering at exposed spoil should be undertaken throughout the construction phase; • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		extended beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical						

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						
S4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	• Implemented
Construction Noise (Airborne)								

Environmental Mitigation Implementation Schedule – Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N1	Implement the following good site practices: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; • Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; • Mobile plant should be sited as far away from NSRs as possible and practicable; • Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure,	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented, deficiency rectified after observation

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		screen the noisy plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	• Implemented
Water Quality (Construction Phase)								

Environmental Mitigation Implementation Schedule – Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1	W1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: <u>Construction Runoff</u> • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; • The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates; • The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN 1/94 • TM-EIAO • TM-DSS	• Implemented, deficiency rectified after observation

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction; • All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means; • The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows; • All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; • Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation						

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; • Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; • Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes; • All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing facilities should be provided at every construction						

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		site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; • Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; • Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; • All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; • Adopt best management practices; • All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to January) as far as practicable.						

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S6.9.1.2	W2	<u>Tunneling Works and Underground Works</u> • Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to January) as far as practicable. • Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; • The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater; • Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	• Water Pollution Control Ordinance • ProPECC PN 1/94 • TM-DSS • TM-EIAO	• Implemented
S6.9.1.3	W3	<u>Sewage Effluent</u> • Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	• Water Pollution Control Ordinance • TM-DSS	• Implemented

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		responsible for appropriate disposal and maintenance.						
S6.9.1.5	W4	<u>Groundwater from Potential Contaminated Area:</u> • No direct discharge of groundwater from contaminated areas should be adopted. • A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly recharged into the ground. • If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	• Water Pollution Control Ordinance • TM-DSS • TM-EIAO	• Implemented

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		acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. • If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						
S6.9.1.6	W6	<u>Accidental Spillage</u> In order to prevent accidental spillage of chemicals, the following is recommended:	To minimize water quality impact from accidental	Contractor	All construction site where practicable	Construction stage	• Water Pollution Control Ordinance	• Implemented

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		• All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains; • The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.	spillage				• ProPECC PN 1/94 • TM-EIAO • TM-DSS	
Waste Management (Construction Waste)								
S7.4.1	WM1	<u>On-site sorting of C&D material</u> • Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• Implemented

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		batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.						
S7.5.1	WM2	<u>Construction and Demolition Material</u> • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; • Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	• Land (Miscellaneous Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW No. 19/2005	• Implemented

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		• Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						
S7.5.1	WM3	<u>C&D Waste</u> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	• Land (Miscellaneous Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW No. 19/2005	• Implemented

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S7.5.1	WM5	<u>Land-based Sediment</u> • All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; • All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations; • Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. • The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; • The Contractors shall comply with the conditions in the dumping license.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

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		• All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; • The material shall be placed into the disposal pit by bottom dumping; • Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; • Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. • For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						
S7.5.1	WM6	<u>Chemical Waste</u> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in	Control the chemical waste and ensure proper storage,	Contractor	All construction sites	Construction stage	• Waste Disposal (Chemical Waste)	• Implemented, deficiency rectified after observation

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		accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; • The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; • Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.	handling and disposal				(General) Regulation • Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	

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S7.5.1	WM7	<u>General Refuse</u> • General refuse generated on-site should be stored in enclosed bins or compaction units separately 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 basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. • Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible; • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	• Implemented, deficiency rectified after observation
Land Contamination								
S8.9 & Appendix 8.4	LC2	<u>Excavation of the Contaminated Soil</u> • Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. • The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	• Practice Guide (PG) for Investigation and Remediation of Contaminated Land	• Implemented

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<tr><th>EIA Ref.</th><th>EM&A Log Ref.</th><th>Recommended Mitigation Measures</th><th>Objectives of the Recommended Measures & Main Concerns to address</th><th>Implementation Agent</th><th>Location / Timing</th><th>Implementation Stage</th><th>Requirements and/ or standards to be achieved</th><th>Implementation Status</th></tr>
<tr><td></td><td></td><td>during stockpiling.
• The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.</td><td></td><td></td><td></td><td></td><td>• Guidance Notes for Contaminated Land Assessment and Remediation
• Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management</td><td></td></tr>
<tr><td>S8.9 & Appendix 8.4</td><td>LC3</td><td>• Following completion of the excavation to the specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below:
<table><tr><th>Locations</th><th>Testing requirement</th><th>Acceptance Criteria</th></tr><tr><td>PBH4</td><td>PCBs</td><td>RBRGs (Public Park)</td></tr></table>• If the results of analysis below the RBRGs (Public Park), no further excavation will be required.

If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of</td><td></td><td></td><td></td><td></td><td></td><td>• Implemented</td></tr>
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		excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist.						
Appendix 8.4	LC4	A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						• Implemented
Hazard to Life								
S9.18	H1	Blasting activities regarding transport and use of explosives should be supervised and audited by competent site staff to ensure full compliance with the blasting permit conditions.	To ensure that the risks from the proposed explosives handling and transport would be acceptable	Contractor	Works areas at which explosives would be used	Construction stage	• Dangerous Goods Ordinance	• N/A
S9.6, para.4	H2	Detonators shall not be transported in the same vehicle with other Category 1 Dangerous Goods.	To reduce the risk of explosion during the transport of cartridged emulsion	Contractor	-	Construction stage	• Dangerous Goods Ordinance	• N/A
S9.6, para.8	H3	The explosives delivery trucks should be approved by Mines Division and should meet the regulatory requirements for transport of explosives.	To comply with the requirements for approval of an explosives	Contractor	-	Construction stage	• Dangerous Goods Ordinance	• N/A

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			delivery vehicle					
S9.10, para.7 and S9.18	H4	Blast cover should be provided for shaft at HMT, and kept closed during blasting. Provision of blast doors or heavy duty blast curtains should be implemented at the shaft to prevent flyrock and control the air overpressure.	To ensure safe use of explosives	Contractor	Shaft	Construction stage	-	• N/A
S9.16	H5	Only the required quantity of explosives for a particular blast should be transported to avoid the return.	To reduce risks during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H7	The approved truck dedicated for transport of explosives should comply with the "Guidance Note on Requirements for Approval of an Explosives Delivery Vehicle" issued by CEDD Mines Division. The truck should be periodically inspected and properly maintained in good operation conditions. The fuel carried in the fuel tank should be minimized to reduce the duration of fire. Adequate fire fighting equipment shall be provided, inspected and replaced periodically (e.g. fire extinguishers).	To reduce the risk during explosives transport	Contractor	Works areas of which explosives would be used	Construction stage	• Dangerous Goods Ordinance	• N/A
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A

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		sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.						
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H10	Close liaison and communication among Mines Division, Contractors for transport of explosives, and working staff of the blasting should be established. In case of any change of work schedule leading to cancellation or variation of explosives required, relevant parties should be informed in time to avoid unused explosives at the work sites.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H11	Close liaison and communication with Fire Services Department should be established to reduce the accidental detonation escalated from a fire. The contractors for transport of explosives should use the preferred transport routes as far as practicable.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H12	Contingency plan should be prepared for transport of explosives under severe weather conditions such as rainstorms and thunderstorms.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A

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S9.18	H13	For explosive transport, all packages of explosives on the truck should be properly stored in the truck compartment as required. Packaging of the explosives should remain intact (i.e. damage free) until they are transferred to the blasting site.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H14	Availability of a parking space should be ensured before commencement of transport of explosives. Location for loading and unloading of explosives should be as close as possible to the shaft. No hot work should be performed in the vicinity during the time of loading and unloading.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H22	It is recommended to explore to minimize the use of the cartridged emulsion explosives and maximize the use of bulk emulsion explosive as far as practicable.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H24	It is recommended to explore to use smaller explosive charges such as 'cast boosters' or 'mini-cast booster' instead of cartridged emulsion as primers for bulk emulsion. This option reduces the quantity of explosives required for transportation for the sections where bulk emulsion will be used.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
Landscape & Visual								
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> • Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented

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		• Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.						
S10.10.1 Table 10.11	LV4	<u>Screen Hoarding</u> • Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented
S10.10.1 Table 10.11	LV5	<u>Lighting Control during Construction</u> • All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> • The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	• N/A
S10.10.1 Table 10.11	LV7	<u>Tree Protection & Preservation</u> • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	• 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening,	• Implemented, deficiency rectified after reminder

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							Landscape and Tree Management (GLTM) Section, DEVB • Latest recommended horticultural practices from GLTM Section, DEVB	
S10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> • For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW	• N/A

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EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
							2/2004	
S10.10.1 Table 10.11	LV9	<u>Compensatory Planting</u> • For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006. • Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	• N/A
Cultural Heritage Impact (Construction Phase)								

Environmental Mitigation Implementation Schedule – Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	• AMOs requirements	• Implemented
S12.6.1	CH3	• Protective covering should be provided for the buildings in the form of plastic sheeting; • Buffer zones should be provided between the construction works and the external walls of the buildings and should be as large as site restrictions allow and be marked out by temporary fencing or hoarding; • An underpinning scheme is required to transfer the existing column loadings to a deeper rock stratum. The supporting system includes cutting the existing ground floor slab to expose the existing pile caps and then construct transfer beams at both sides of the pile caps. The transfer beams will tie up with the existing caps. Loadings of the transfer beams will be transferred to the rock socket piles installed at the two ends of the beams; • The AAA settlement and tilting limit should be 6/8/10 mm and1/2000, 1/1500 and 1/1000; • Monitoring of vibration levels will be undertaken during the construction phase and the Alert, Alarm and Action (AAA) vibration limit will be set at 5/6/7.5 mm/s. The monitoring proposal should be sent to AMO for comment;.	Protect the building from damage from construction works	Contractor	Yau Ma Tei Police Station (Old Wing) (CKR-01)	Prior to commencement of and during the construction phase	• Guidelines for Cultural Heritage Impact Assessment • EIAO-TM Annex 10 and Annex 19 • AMO Proposed Vibration Limits	• Implemented

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		• Regular site inspections and monitoring works will be carried out by the contractor and the monitoring results will be submitted to the resident site staff of HyD to ensure compliance.						
S12.6.1		• Adopting diaphragm wall construction method; • Grout curtain should be provided in front of the building; • Recharging system should be installed as a contingency measure to mitigate the fluctuation of water table; • the AAA settlement and tilting limit should be 6/8/10 mm and 1/2000, 1/1500 and 1/1000; • Monitoring of vibration levels will be undertaken during the construction phase and the Alert, Alarm and Action (AAA) vibration limit will be set at 5/6/7.5 mm/s. The monitoring proposal should be sent to AMO for comment;. • Regular site inspections and monitoring works will be carried out by the contractor and the monitoring results will be submitted to the resident site staff of HyD to ensure compliance.	Protect the building from damage from construction works	Contractor	Yau Ma Tei Police Station (Old Wing) (CKR-01)	Prior to commencement of and during the construction phase	• Guidelines for Cultural Heritage Impact Assessment • EIAO-TM Annex 10 and Annex 19 • AMO Proposed Vibration Limits	• Implemented
S12.6.1 Table 12.2		• The Alert, Alarm and Action (AAA) vibration limit will be set at 3/4/5 mm/s and a condition survey shall be carried out by the project proponent prior to the construction phase to confirm this assessment • Vibration monitoring of the structure shall be employed during the construction phase to ensure that the level is not exceeded. The monitoring proposal should be sent to AMO for comment.	Protect the building from damage from construction works	Contractor	Tin Hau Temple (CKR-02)	Prior to commencement of and during the construction phase	• Guidelines for Cultural Heritage Impact Assessment • EIAO-TM Annex 10 and Annex 19 • AMO	• Implemented

Environmental Mitigation Implementation Schedule –
Contract No. HY/2014/08 (Yau Ma Tei East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
							Proposed Vibration Limits	
EM&A Project								
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	• Implemented
S13.2-13.4	EM2	• An Environmental Team needs to be employed as per the EM&A Manual; • Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; • An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	• Implemented

Appendix G
Monitoring Schedule of the Reporting Month

Impact Monitoring Schedule for YMTE						
Aug-25						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A (Rescheduled to 6 August 2025)	6 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	7	8	9
10	11 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	12	13	14 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	15	16
17	18	19	20 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	21	22	23
24	25	26 Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A	27	28	29	30
31						

Remarks: The monitoring works originally scheduled on 5 August 2025 was rescheduled to 6 August 2025 due to unfavourable weather conditions

Appendix H
Calibration Certificates
(Air Monitoring)

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Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	761173				
Our Report Reference No.:	RPT-25-HVS-0102				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

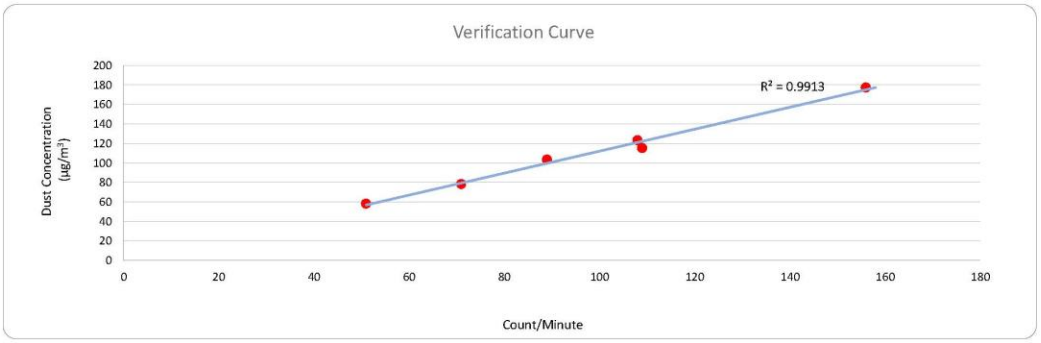
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	12780	71	78
2	23/02/2025	5388.00	5391.00	180.00	28080	156	177
3	23/02/2025	5394.00	5397.00	180.00	19620	109	115
4	2/03/2025	5397.00	5400.00	180.00	9180	51	58
5	2/03/2025	5400.00	5403.00	180.00	16020	89	103
6	2/03/2025	5403.00	5406.00	180.00	19440	108	123

Linear Regression of y on x

Slope, K factor:	1.1267	Intercept:	-0.6696	*Correlation Coefficient, R:	0.9957
Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li — Project Technician, Environmental — Date: 04-03-2025

Checked By: Vega Wong — Senior Consultant, Environmental — Date: 04-03-2025

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Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	761174				
Our Report Reference No.:	RPT-25-HVS-0101				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

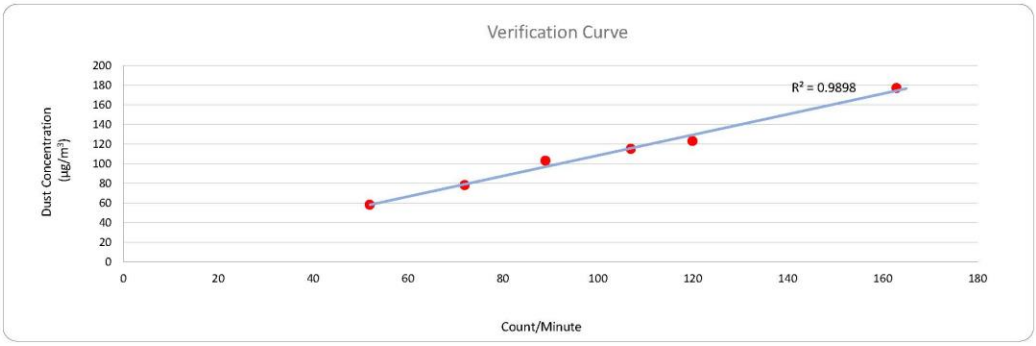
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	12960	72	78
2	23/02/2025	5388.00	5391.00	180.00	29340	163	177
3	23/02/2025	5394.00	5397.00	180.00	19260	107	115
4	2/03/2025	5397.00	5400.00	180.00	9360	52	58
5	2/03/2025	5400.00	5403.00	180.00	16020	89	103
6	2/03/2025	5403.00	5406.00	180.00	21600	120	123

Linear Regression of y on x

Slope, K factor:	1.0475	Intercept:	3.7224	*Correlation Coefficient, R:	0.9949
Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li — Project Technician, Environmental — Date: 04-03-2025

Checked By: Vega Wong — Senior Consultant, Environmental — Date: 04-03-2025

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Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	851816				
Our Report Reference No.:	RPT-25-HVS-0103				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

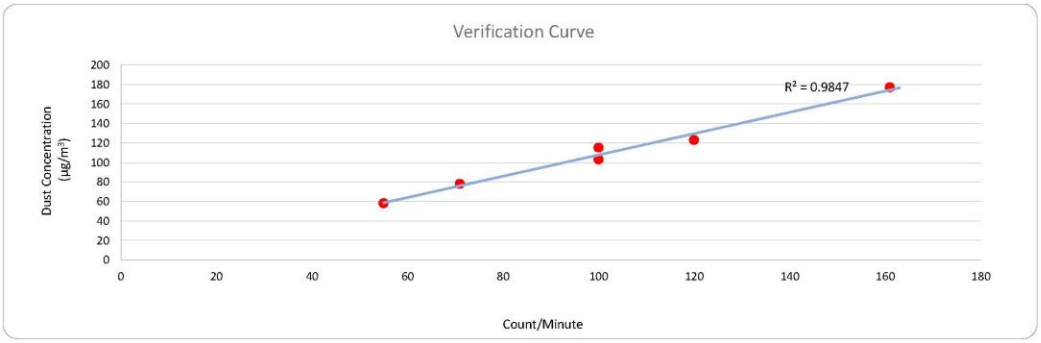
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	12780	71	78
2	23/02/2025	5388.00	5391.00	180.00	28980	161	177
3	23/02/2025	5394.00	5397.00	180.00	18000	100	115
4	2/03/2025	5397.00	5400.00	180.00	9900	55	58
5	2/03/2025	5400.00	5403.00	180.00	18000	100	103
6	2/03/2025	5403.00	5406.00	180.00	21600	120	123

Linear Regression of y on x

Slope, K factor:	1.0922	Intercept:	-1.4901	*Correlation Coefficient, R:	0.9923
Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li — Project Technician, Environmental — Date: 04-03-2025

Checked By: Vega Wong — Senior Consultant, Environmental — Date: 04-03-2025

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Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	**23-Feb-25**	to	**2-Mar-25**	Next Verification Test Date:	**23-Feb-26**
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	851817				
Our Report Reference No.:	RPT-25-HVS-0104				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

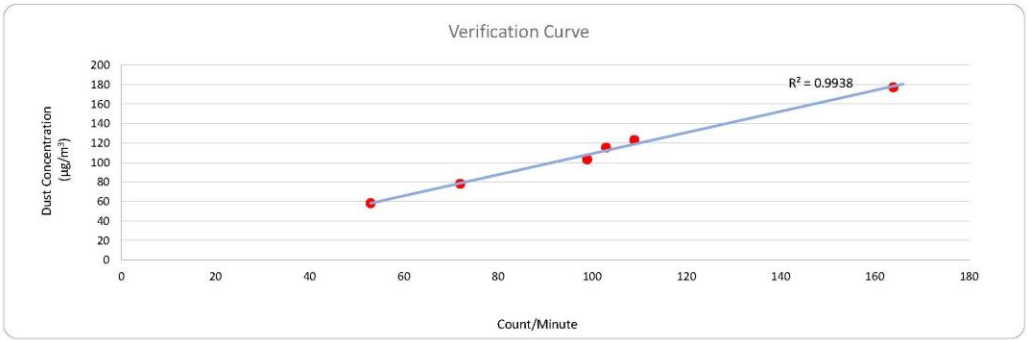
Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	12960	72	78
2	23/02/2025	5388.00	5391.00	180.00	29520	164	177
3	23/02/2025	5394.00	5397.00	180.00	18540	103	115
4	2/03/2025	5397.00	5400.00	180.00	9540	53	58
5	2/03/2025	5400.00	5403.00	180.00	17820	99	103
6	2/03/2025	5403.00	5406.00	180.00	19620	109	123

Linear Regression of y on x

Slope, K factor: **1.0818** Intercept: **0.8245** *Correlation Coefficient, R: **0.9969**

Verification Test Result: Strong Correlation, Results were accepted.

* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Operated By: Andy Li — Project Technician, Environmental — Date: 04-03-2025

Checked By: Vega Wong — Senior Consultant, Environmental — Date: 04-03-2025

TISCH Environmental

RECALIBRATION DUE DATE:
December 2, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 2, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 757.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3465**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4300	3.2	2.00
2	3	4	1	1.0190	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8680	8.8	5.50
5	9	10	1	0.7170	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0093	0.7058	1.4238	0.9958	0.6963	0.8796
1.0051	0.9863	2.0136	0.9916	0.9731	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1542	2.3611	0.9884	1.1387	1.4586
0.9965	1.3898	2.8476	0.9831	1.3711	1.7592
QSTD	**m=**	**2.08107**	**QA**	**m=**	**1.30313**
	b=	**-0.04295**		**b=**	**-0.02653**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**YMT Catholic Primary School**	**Site ID:**	**W-A1**	**Date:**	**01-Aug-2025**
Serial No:	**1084**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	750.3	**Actual Temperature during Calibration (T_a) (deg K):**	303.3

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.08107
Serial No.:	3465	**Intercept (b_c):**	-0.04295
Calibration Due Date:	2-Dec-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.50	1.554	56.0	55.16
13	8.50	1.401	53.0	52.20
10	6.30	1.209	49.0	48.26
7	4.60	1.036	45.0	44.32
5	2.70	0.798	42.0	41.37

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 18.7772 b= 25.7396 Corr. Coeff= 0.9950

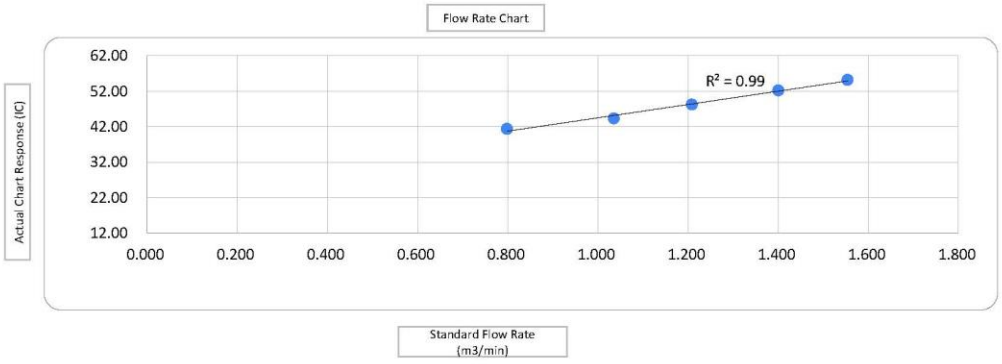
Calculations

$Qa = 1/m_c * [Sqrt (\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = actual flow rate
IC = corrected chart response
I = actual chart response
m_c = calibrator slope
b_c = calibrator intercept

m = sampler slope
b = sampler intercept
T_{Std} = 298 deg K
P_{Std} = 760 mm Hg
T_a = actual temperature during calibration (deg K)
P_a = actual pressure during calibration (mm Hg)



Checked by _____ Date: 01-Aug-2025

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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Man Cheong Building**	**Site ID:**	**W-A6**	**Date:**	**01-Aug-2025**
Serial No:	**1050**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	750.3	**Actual Temperature during Calibration (T_a) (deg K):**	303.3

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.08107
Serial No.:	3465	**Intercept (b_c):**	-0.04295
Calibration Due Date:	2-Dec-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.90	1.583	57.0	56.14
13	9.70	1.495	54.0	53.19
10	8.60	1.409	52.0	51.22
7	4.50	1.025	44.0	43.34
5	2.30	0.738	39.0	38.41

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 20.5443 b= 22.7810 Corr. Coeff= 0.9965

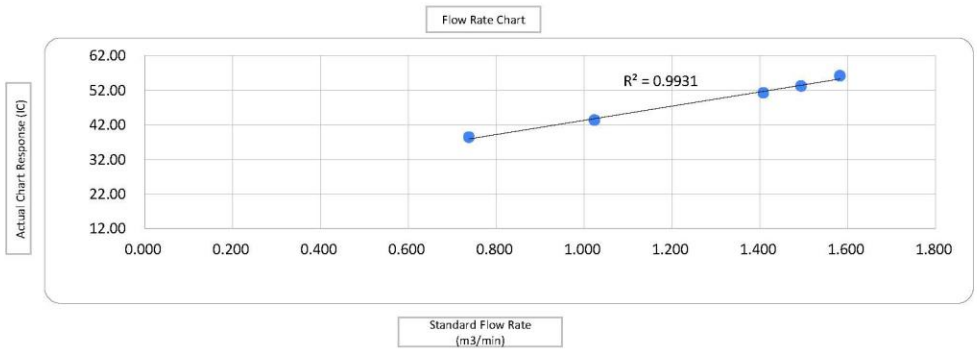
Calculations

$Qa = 1/m_c * [Sqrt (\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = actual flow rate
IC = corrected chart response
I = actual chart response
m_c = calibrator slope
b_c = calibrator intercept

m = sampler slope
b = sampler intercept
T_{Std} = 298 deg K
P_{Std} = 760 mm Hg
T_a = actual temperature during calibration (deg K)
P_a = actual pressure during calibration (mm Hg)



Checked by _____ Date: 01-Aug-2025

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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**YMT Catholic Primary School**	**Site ID:**	**W-A1**	**Date:**	**16-Aug-2025**
Serial No:	**1084**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	756.4	**Actual Temperature during Calibration (T_a) (deg K):**	302.5

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.08107
Serial No.:	3465	**Intercept (b_c):**	-0.04295
Calibration Due Date:	2-Dec-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.60	1.570	57.0	56.45
13	8.40	1.400	54.0	53.48
10	6.40	1.224	51.0	50.50
7	4.80	1.063	46.0	45.55
5	2.60	0.788	40.0	39.61

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 21.9461 b= 22.5841 Corr. Coeff= 0.9953

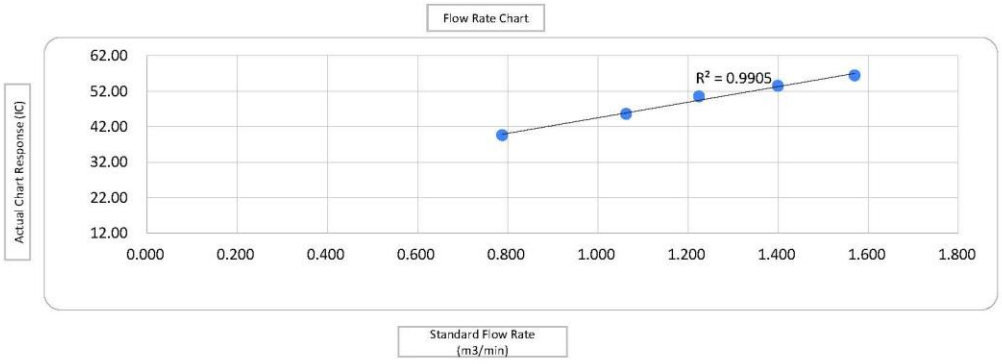
Calculations

$Qa = 1/m_c * [Sqrt (\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = actual flow rate
IC = corrected chart response
I = actual chart response
m_c = calibrator slope
b_c = calibrator intercept

m = sampler slope
b = sampler intercept
T_{Std} = 298 deg K
P_{Std} = 760 mm Hg
T_a = actual temperature during calibration (deg K)
P_a = actual pressure during calibration (mm Hg)



Checked by _____ Date: 16-Aug-2025

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Man Cheong Building**	**Site ID:**	**W-A6**	**Date:**	**16-Aug-2025**
Serial No:	**1050**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	756.4	**Actual Temperature during Calibration (T_a) (deg K):**	302.5

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.08107
Serial No.:	3465	**Intercept (b_c):**	-0.04295
Calibration Due Date:	2-Dec-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.80	1.584	58.0	57.44
13	9.40	1.480	55.0	54.47
10	8.20	1.383	53.0	52.49
7	4.60	1.041	47.0	46.54
5	2.40	0.758	43.0	42.58

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 17.5557 b= 28.7707 Corr. Coeff= 0.9944

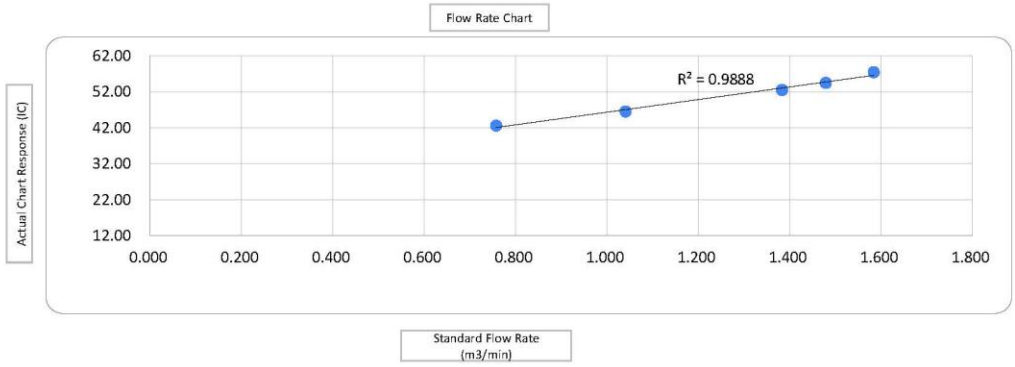
Calculations

$Qa = 1/m_c * [Sqrt (\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$

$IC = I * (Sqrt (P_a/P_{Std}) * (T_{Std}/T_a))$

Qa = actual flow rate
IC = corrected chart response
I = actual chart response
m_c = calibrator slope
b_c = calibrator intercept

m = sampler slope
b = sampler intercept
T_{Std} = 298 deg K
P_{Std} = 760 mm Hg
T_a = actual temperature during calibration (deg K)
P_a = actual pressure during calibration (mm Hg)



Checked by _____ Date: 16-Aug-2025

Appendix I
Calibration Certificates (Noise)

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***NTi***
Type No.:	***XL3 (Serial No.: A3A-01229-F0)***
Microphone:	***MC230A (Serial No.: A28290)***
Preamplifier:	***MA230 (Serial No.:1794)***

Submitted by:

Customer:	*Aurecon Hong Kong Limited*
Address:	*Unit 1608, 16/F, Tower B,*
	Manulife Financial Centre,
	223-231 Wai Yip Street, Kwun Tong,
	Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

☑ **Within (31.5Hz – 8kHz)**
☐ **Outside**

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 23 July 2025

Date of calibration: 24 July 2025

Date of NEXT calibration: 23 July 2026

Calibrated by: _____ ***Calibration Technician***

Certified by: _____ ***Mr. Ng Yan Wa***
Laboratory Manager

Date of issue: 24 July 2025

Certificate No.: APJ25-046-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. *Calibration Precaution:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Conditions:*

Air Temperature:	24.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	57.8 %

3. *Calibration Equipment:*

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

4. *Calibration Results*

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
20-120	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
20-120	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
20-120	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
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Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dB SPL	Fast	94	31.5	94.3	±2.0
				63	94.2	±1.5
				125	94.2	±1.5
				250	94.1	±1.4
				500	94.1	±1.4
				1000	94.0	Ref
				2000	94.0	±1.6
				4000	93.9	±1.6
				8000	91.7	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBA SPL	Fast	94	31.5	54.9	-39.4 ±2.0
				63	68.0	-26.2 ±1.5
				125	78.1	-16.1 ±1.5
				250	85.5	-8.6 ±1.4
				500	90.9	-3.2 ±1.4
				1000	94.0	Ref
				2000	95.2	+1.2 ±1.6
				4000	94.9	+1.0 ±1.6
				8000	90.5	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBC SPL	Fast	94	31.5	91.3	-3.0 ±2.0
				63	93.4	-0.8 ±1.5
				125	94.0	-0.2 ±1.5
				250	94.1	-0.0 ±1.4
				500	94.2	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.9	-0.2 ±1.6
				4000	93.1	-0.8 ±1.6
				8000	88.6	−3.0 +2.1: −3.1

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
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5. *Calibration Results Applied*

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:
The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Manufacturer Calibration Certificate

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3. All tests are traceable in accordance with ISO/IEC 17025.

No pattern approval is available for this sound level meter configuration.

Sound Level Meter

Manufacturer	NTi Audio		
Type	XL3	S/N	A3A-01220-F0
Firmware	V1.38		
Microphone Model	M2340		
Preamplifier	MA230	S/N	1831
Microphone Capsule	MC230A	S/N	A28677
Performance class			
Customer Inventory Nr.			

Customer

Date 03 September 2024

Certificate FL-24-126

Results **PASSED**
(for detailed report see next pages)

Operator

Markus Frick

NTi Audio AG • Im alten Riet 102, 9494 Schaan • Liechtenstein
info@nti-audio.com • www.nti-audio.com

Certificate: FL-24-126

Measurement equipment

Test System

Model	NTi Audio FX100, S/No. 11094
Last Calibration	02 July 2024
Cal Certificate	NTI Cal #3393
Next Calibration	02 July 2025

Reference Microphone

Model	MTG MV203 S/N #2435, Mic Capsule MK202 S/No. #7313
Last Calibration	18 November 2022
Cal Certificate	DAkkS-000875
Next Calibration	17 November 2024

Sound Calibrator

Model	Norsonic 1251 S/No. #30930
Reference Level	114 dB
Calibration Frequency	1000 Hz
Last Calibration	08 December 2022
Cal Certificate	METAS #259-19602
Next Calibration	07 December 2024

Environmental conditions

Temperature	23 °C
Humidity	50 %
Pressure	965 hPa

Notes

- This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the international Systems of Units (SI).
- The user is obliged to have the object recalibrated at appropriate intervals.
- This calibration certificate may not be reproduced other than in full except with the permission of the issuing laboratory. Calibration certificates without signature are not valid.
- All limits listed in this report are acceptance limits in accordance with IEC61672.
- The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with the regulations of the GUM.

Certificate: FL-24-126

1. Indication at the calibration check frequency

The indication of the sound level meter at the calibration check frequency is checked by application of the sound calibrator and adjusted, if necessary, to indicate the required sound level for the environmental conditions under which the tests are performed. All levels in [dB].

Sensitivity before calibration	Sensitivity after calibration	Meas level	Limit -	Limit +	Uncert.	Status
42.8 mV/Pa	44.0 mV/Pa	114	113	115	0.2	Passed

2. Self-generated noise

2.1 Microphone cartridge installed

The self-generated noise is measured in the most-sensitive level range as a time-averaged sound pressure level with frequency-weighting A and an averaging time of 30 seconds. All levels in [dB].

Weighting	Meas level	Limit +	Uncert.	Status
A	16.2	19.0	0.1	Passed

2.2 Microphone cartridge replaced by the capsule replacement NTI-K65-15

The self-generated noise is measured in the most-sensitive level range as a time-averaged sound pressure level for all frequency-weightings and an averaging time of 30 seconds. All levels in [dB] referenced to S = 42 mV/Pa.

Weighting	Meas level	Limit +	Uncert.	Status
A	10.5	13.0	0.1	Passed
C	13.6	16.0	0.1	Passed
Z	21.4	24.0	0.1	Passed

3. Acoustic signal tests of a frequency weighting

The frequency weighting is tested for frequency-weighting A, using an acoustic test facility. The sound level meter is set to a fast time-weighted sound level in the reference level range. All levels in [dB].

Freq. [Hz]	Gen. level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
125	70.0	69.4	-0.6	-1.0	1.0	0.4	Passed
250	77.1	77.2	0.1	-1.0	1.0	0.4	Passed
500	82.7	82.8	0.1	-1.0	1.0	0.4	Passed
1000	86.0	86.1	0.1	-0.7	0.7	0.4	Passed
2000	87.2	87.4	0.2	-1.0	1.0	0.4	Passed
4000	87.0	87.0	0.0	-1.0	1.0	0.4	Passed
8000	84.9	84.6	-0.3	-2.5	1.5	0.4	Passed

Certificate: FL-24-126

NTi AUDIO

4. Electric signal tests of frequency weightings

Frequency weightings are determined relative to the response at 1 kHz using steady sinusoidal electrical input signals. The sound level meter is set to display F-time-weighted sound level in the reference level range. All available frequency weightings provided in the sound level meter are verified. All levels in [dB].

4.1 A-Weighting

Freq. [Hz]	Gen. level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
1000	80.0	80.0	0.0	-0.7	0.7	0.1	Passed
63	106.2	80.0	0.0	-1.0	1.0	0.1	Passed
125	96.1	80.0	0.0	-1.0	1.0	0.1	Passed
250	88.6	80.0	0.0	-1.0	1.0	0.1	Passed
500	83.2	80.0	0.0	-1.0	1.0	0.1	Passed
2000	78.8	80.0	0.0	-1.0	1.0	0.1	Passed
4000	79.0	79.9	-0.1	-1.0	1.0	0.1	Passed
8000	81.1	79.7	-0.3	-2.5	1.5	0.1	Passed
12500	84.3	79.4	-0.6	-2.5	1.5	0.1	Passed
16000	86.6	78.7	-1.3	-2.5	1.5	0.1	Passed

4.2 C-Weighting

Freq. [Hz]	Gen. level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
1000	80.0	80.0	0.0	-0.7	0.7	0.1	Passed
63	80.8	79.9	-0.1	-1.0	1.0	0.1	Passed
125	80.2	80.0	0.0	-1.0	1.0	0.1	Passed
250	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
500	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
2000	80.2	80.0	0.0	-1.0	1.0	0.1	Passed
4000	80.8	79.8	-0.2	-1.0	1.0	0.1	Passed
8000	83.0	79.6	-0.4	-2.5	1.5	0.1	Passed
12500	86.2	79.3	-0.7	-2.5	1.5	0.1	Passed
16000	88.5	78.5	-1.5	-2.5	1.5	0.1	Passed

4.3 Z-Weighting

Freq. [Hz]	Gen. level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
1000	80.0	80.0	0.0	-0.7	0.7	0.1	Passed
63	80.0	80.1	0.1	-1.0	1.0	0.1	Passed
125	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
250	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
500	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
2000	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
4000	80.0	80.0	0.0	-1.0	1.0	0.1	Passed
8000	80.0	79.9	-0.1	-2.5	1.5	0.1	Passed
12500	80.0	79.8	-0.2	-2.5	1.5	0.1	Passed
16000	80.0	79.9	-0.1	-2.5	1.5	0.1	Passed

NTi AUDIO

Certificate: FL-24-126

5. Frequency and time weightings at 1kHz

While injecting a constant steady signal at the reference frequency of 1 kHz the F-time-weighted sound level, S-time-weighted sound level and time-averaged sound level are verified with frequency weighting A. Additionally the F-time-weighted sound level for frequency weightings C and Z is measured. The first measurement serves as reference and differences in the reading with respect to this first one are determined. All levels in [dB].

Level	Exp level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
LAF	114.0	114.0	0.0	-0.7	0.7	0.1	Passed
LAS	114.0	113.8	-0.2	-0.7	0.7	0.1	Passed
LAeq	114.0	114.0	0.0	-0.7	0.7	0.1	Passed
LCF	114.0	114.0	0.0	-0.7	0.7	0.1	Passed
LCeq	114.0	114.0	0.0	-0.7	0.7	0.1	Passed
LZF	114.0	114.0	0.0	-0.7	0.7	0.1	Passed
LZeq	114.0	114.0	0.0	-0.7	0.7	0.1	Passed

NTi AUDIO

6. Level linearity on the reference level range

The level linearity on the reference level range is determined by applying steady sinusoidal electrical signals at a frequency of 8 kHz with the sound level meter set for frequency-weighting A and fast time-weighting. All levels in [dB].

Exp abs level	Meas. level	Abs dev	Abs Limit -	Abs Limit +	Exp rel level	Rel dev	Rel Limit -	Rel Limit +	Uncert.	Status
114.0	114.0	0.0	-0.8	0.8	0.0	0.0	-0.3	0.3	0.1	Passed
119.0	119.0	0.0	-0.8	0.8	119.0	0.0	-0.3	0.3	0.1	Passed
124.0	124.0	0.0	-0.8	0.8	124.0	0.0	-0.3	0.3	0.1	Passed
129.0	129.0	0.0	-0.8	0.8	129.0	0.0	-0.3	0.3	0.1	Passed
134.0	134.0	0.0	-0.8	0.8	134.0	0.0	-0.3	0.3	0.1	Passed
135.0	135.0	0.0	-0.8	0.8	135.0	0.0	-0.3	0.3	0.1	Passed
136.0	136.0	0.0	-0.8	0.8	136.0	0.0	-0.3	0.3	0.1	Passed
114.0	114.0	0.0	-0.8	0.8	0.0	0.0	-0.3	0.3	0.1	Passed
109.0	109.0	0.0	-0.8	0.8	109.0	0.0	-0.3	0.3	0.1	Passed
104.0	104.0	0.0	-0.8	0.8	104.0	0.0	-0.3	0.3	0.1	Passed
99.0	99.0	0.0	-0.8	0.8	99.0	0.0	-0.3	0.3	0.1	Passed
94.0	94.0	0.0	-0.8	0.8	94.0	0.0	-0.3	0.3	0.1	Passed
89.0	89.0	0.0	-0.8	0.8	89.0	0.0	-0.3	0.3	0.1	Passed
84.0	84.0	0.0	-0.8	0.8	84.0	0.0	-0.3	0.3	0.1	Passed
79.0	79.0	0.0	-0.8	0.8	79.0	0.0	-0.3	0.3	0.1	Passed
74.0	74.0	0.0	-0.8	0.8	74.0	0.0	-0.3	0.3	0.1	Passed
69.0	69.0	0.0	-0.8	0.8	69.0	0.0	-0.3	0.3	0.1	Passed
64.0	64.0	0.0	-0.8	0.8	64.0	0.0	-0.3	0.3	0.1	Passed
59.0	59.0	0.0	-0.8	0.8	59.0	0.0	-0.3	0.3	0.1	Passed
54.0	54.0	0.0	-0.8	0.8	54.0	0.0	-0.3	0.3	0.1	Passed
49.0	49.0	0.0	-0.8	0.8	49.0	0.0	-0.3	0.3	0.1	Passed
44.0	44.0	0.0	-0.8	0.8	44.0	0.0	-0.3	0.3	0.1	Passed
39.0	39.0	0.0	-0.8	0.8	39.0	0.0	-0.3	0.3	0.1	Passed
34.0	34.0	0.0	-0.8	0.8	34.0	0.0	-0.3	0.3	0.1	Passed
29.0	29.0	0.0	-0.8	0.8	29.0	0.0	-0.3	0.3	0.1	Passed
28.0	28.0	0.0	-0.8	0.8	28.0	0.0	-0.3	0.3	0.1	Passed
27.0	27.1	0.1	-0.8	0.8	27.0	0.1	-0.3	0.3	0.1	Passed
26.0	26.1	0.1	-0.8	0.8	26.1	0.0	-0.3	0.3	0.1	Passed
25.0	25.1	0.1	-0.8	0.8	25.1	0.0	-0.3	0.3	0.1	Passed

Certificate: FL-24-126

7. Level linearity including the level range control

This test is not applicable for a single-range sound level meter.

8. Toneburst response

The response of the sound level meter to short-duration signals is tested on the reference level range with 4 kHz tonebursts that start and stop at zero crossings and are extracted from steady 4 kHz sinusoidal electrical input signals. The sound level meter is set for frequency weighting A. All levels in [dB].

The continuous signal level is 123 dB.

Burst signal	Burst duration [ms]	Exp level	Meas level	Dev	Limit -	Limit +	Uncert.	Status
LAF	200	122.0	121.9	-0.1	-0.5	0.5	0.2	Passed
LAF	2	105.0	104.8	-0.2	-1.5	1.0	0.2	Passed
LAF	0.25	96.0	95.6	-0.4	-3.0	1.0	0.2	Passed
LAS	200	115.6	115.5	-0.1	-0.5	0.5	0.2	Passed
LAS	2	96.0	95.9	-0.1	-3.0	1.0	0.2	Passed
LAeq10s	200	106.0	105.9	-0.1	-0.5	0.5	0.2	Passed
LAeq10s	2	86.0	85.9	-0.1	-0.5	0.5	0.2	Passed
LAeq10s	0.25	77.0	76.8	-0.2	-0.5	0.5	0.2	Passed

Certificate: FL-24-126

9. C-weighted peak sound level

The sound level meter is tested on the least-sensitive level range with fast time weighting and C frequency weighting. The test signals are a single complete cycle of an 8 kHz sinusoid starting and stopping at zero crossings and positive and negative half cycles of a 500 Hz sinusoid that also start and stop at zero crossings. All levels in [dB].

Burst signal	Source level	Exp LCp-LCF	Meas LCp-LCF	Dev	Limit -	Limit +	Uncert.	Status
8kHz	114.0	3.4	3.1	-0.3	-2.0	2.0	0.2	Passed
500Hz +	132.0	2.4	2.2	-0.2	-1.0	1.0	0.2	Passed
500Hz -	132.0	2.4	2.2	-0.2	-1.0	1.0	0.2	Passed

10. Overload Indication

Overload indication is tested on the least-sensitive level range with the sound level meter set to A-weighted, time-averaged sound level. Positive and negative one-half-cycle sinusoidal electrical signals at a frequency of 4 kHz are used. All levels in [dB].

Start level	OV +	OV -	Dev	Limit -	Limit +	Uncert.	Status
136.6	139.2	139.3	0.1	-1.5	1.5	0.3	Passed

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***35124528***

Submitted by:

Customer:	*Aurecon Hong Kong Limited*
Address:	*Unit 1608, 16/F, Tower B,*
	Manulife Financial Centre,
	223-231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

☑ **Within**
☐ **Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 12 February 2025

Date of calibration: 13 February 2025

Date of NEXT calibration: 12 February 2026

Calibrated by: David
Calibration Technician

Certified by:
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 13 February 2025

Certificate No.: APJ24-145-CC002

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. *Calibration Precautions:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Specifications:*

Calibration check

3. *Calibration Conditions:*

Air Temperature:	24.3 °C
Air Pressure:	1006 hPa
Relative Humidity:	68.2 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. *Calibration Results*

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1

6. *Calibration Results Applied*

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:
The values given in this certification only related to the values measured at the time of the calibration.

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Appendix J
The Certification of Laboratory with HOKLAS Accredited Analytical Tests

Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ACUMEN LABORATORY AND TESTING LIMITED
浩科檢測中心有限公司

Flat/Rm D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong
香港九龍長沙灣永康街37-39號福源廣場12樓D室

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017
for performing specific laboratory activities as listed in the scope of accreditation within the test category of
獲香港認可處根據ISO/IEC 17025:2017認可
進行載於認可範圍內下述測試類別中的指定實驗所活動

Environmental Testing
環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué).
此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並實施一套與實驗所運作相關的管理體系
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive
現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHUM Wai-leung, Executive Administrator
執行幹事 沈偉良
Issue Date : 15 November 2021
簽發日期：二零二一年十一月十五日

Registration Number : HOKLAS 241
註冊號碼：

Date of First Registration : 16 July 2014
首次註冊日期：二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS
本證書按照香港認可處訂立的條款及條件發出

L002316

Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong
香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017
for performing specific laboratory activities as listed in the scope of accreditation within the test category of
獲香港認可處根據ISO/IEC 17025:2017認可
進行載於認可範圍內下述測試類別中的指定實驗所活動

Environmental Testing
環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué).
此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並實施一套與實驗所運作相關的管理體系
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive
現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHUM Wai-leung, Executive Administrator
執行幹事 沈偉良
Issue Date : 28 February 2020
簽發日期：二零二零年二月二十八日

Registration Number : HOKLAS 066
註冊號碼：

Date of First Registration : 15 September 1995
首次註冊日期：一九九五年九月十五日

This certificate is issued subject to the terms and conditions laid down by HKAS
本證書按照香港認可處訂立的條款及條件發出

L001934

Appendix K
Location Plan of Noise and Air Quality Monitoring Station


LEGEND:
WORKS LIMIT
DUST MONITORING L
NOISE MONITORING
RELOCATION OF DUST IMPACT MONITORING OF HVS AT W-A1
W-A1/W-N1A
W-P11
W-N25A
W-N18
W-A6
NATHAN ROAD
WYLIE ROAD
QUEEN ELIZABETH HOSPITAL
CASCOIGNE ROAD
YAU MA TEI
819500 N
819000 N
00 ISSUE FOR TENDER
ARUP
Joint Venture
Contract No. HY/2014/08
Central Kowloon Route - Yau Ma Tei East
APPENDIX A
LOCATION PLAN OF N
DUST MONITORING ST
CKR/YMTE/02/0
HIGHWAYS DE
MAJOR WORKS PROJECT M
Printed by : 03/04/2018
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Appendix L
Monitoring Data (Air Monitoring)

Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1)
Monitoring date: 06, 11, 14, 20, and 26 August 2025
Parameter: TSP 1-hour
Other Factors: Nearby traffic

Date	1-hour TSP (μg/m³)				
	Weather	Start Time	1st Hour (μg/m³)	2nd Hour (μg/m³)	3rd Hour (μg/m³)
06/08/2025	Cloudy	9:18	26	18	22
11/08/2025	Fine	14:44	35	37	30
14/08/2025	Cloudy	13:30	19	13	14
20/08/2025	Cloudy	9:56	32	24	21
26/08/2025	Fine	9:35	38	43	37
Minimum: 13 μg/m³			Maximum: 43 μg/m³		

Remarks: The monitoring works originally scheduled on 5 August 2025 was rescheduled to 6 August 2025 due to unfavourable weather conditions

Location: Man Cheong Building (W-A6)
Monitoring date: 06, 11, 14, 20, and 26 August 2025
Parameter : TSP 1-hour
Other Factors Nearby traffic

Date	1-hour TSP (μg/m³)				
	Weather	Start Time	1st Hour (μg/m³)	2nd Hour (μg/m³)	3rd Hour (μg/m³)
06/08/2025	Cloudy	13:12	35	43	43
11/08/2025	Fine	13:30	35	35	40
14/08/2025	Cloudy	14:25	21	24	18
20/08/2025	Cloudy	9:31	39	27	34
26/08/2025	Fine	10:28	32	30	23
Minimum: 18 μg/m³			Maximum: 43 μg/m³		

Remarks: The monitoring works originally scheduled on 5 August 2025 was rescheduled to 6 August 2025 due to unfavourable weather conditions

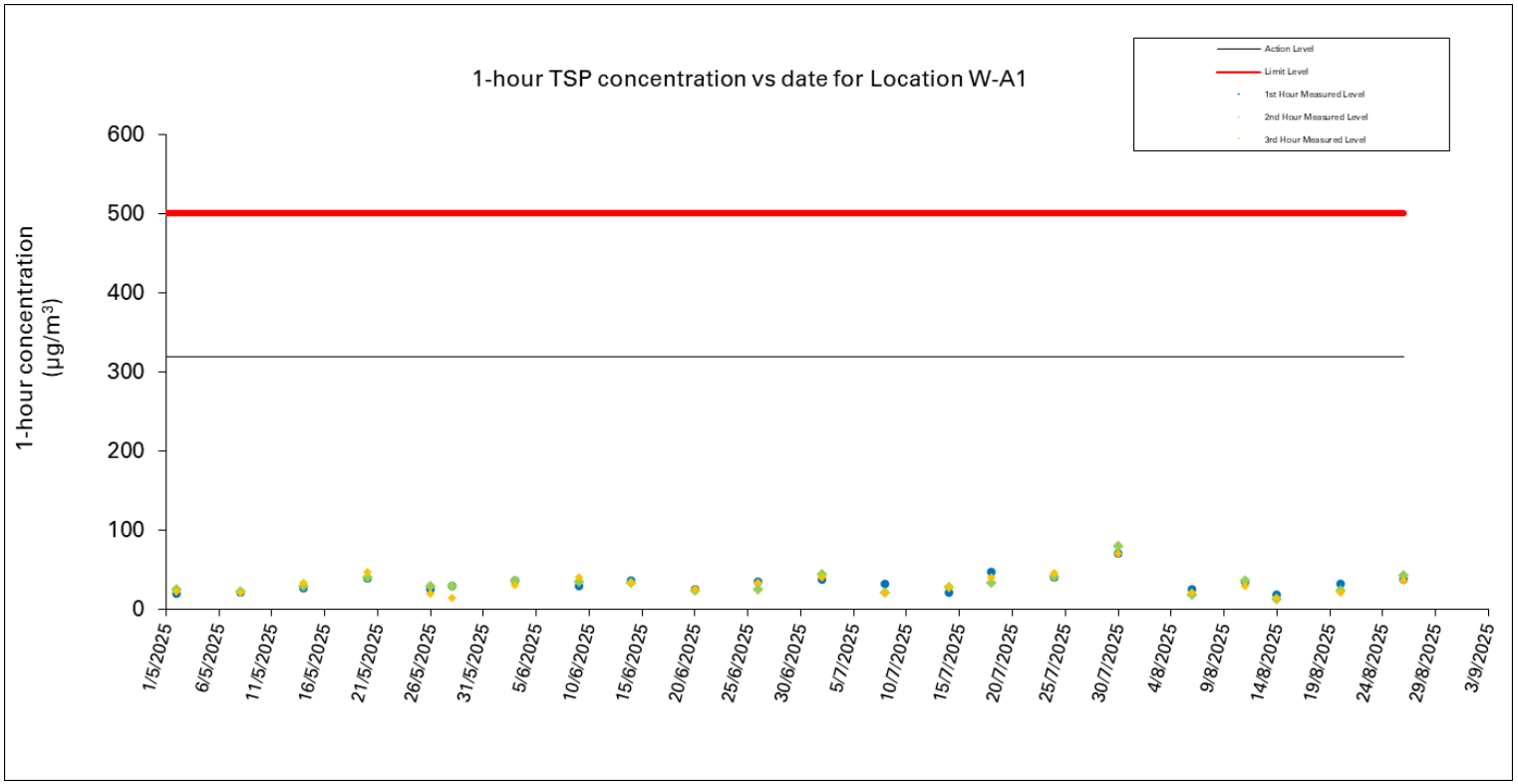


Figure 1: Graphical Illustration of Measured 1-hour TSP (µg/m^3) Levels at W-A1

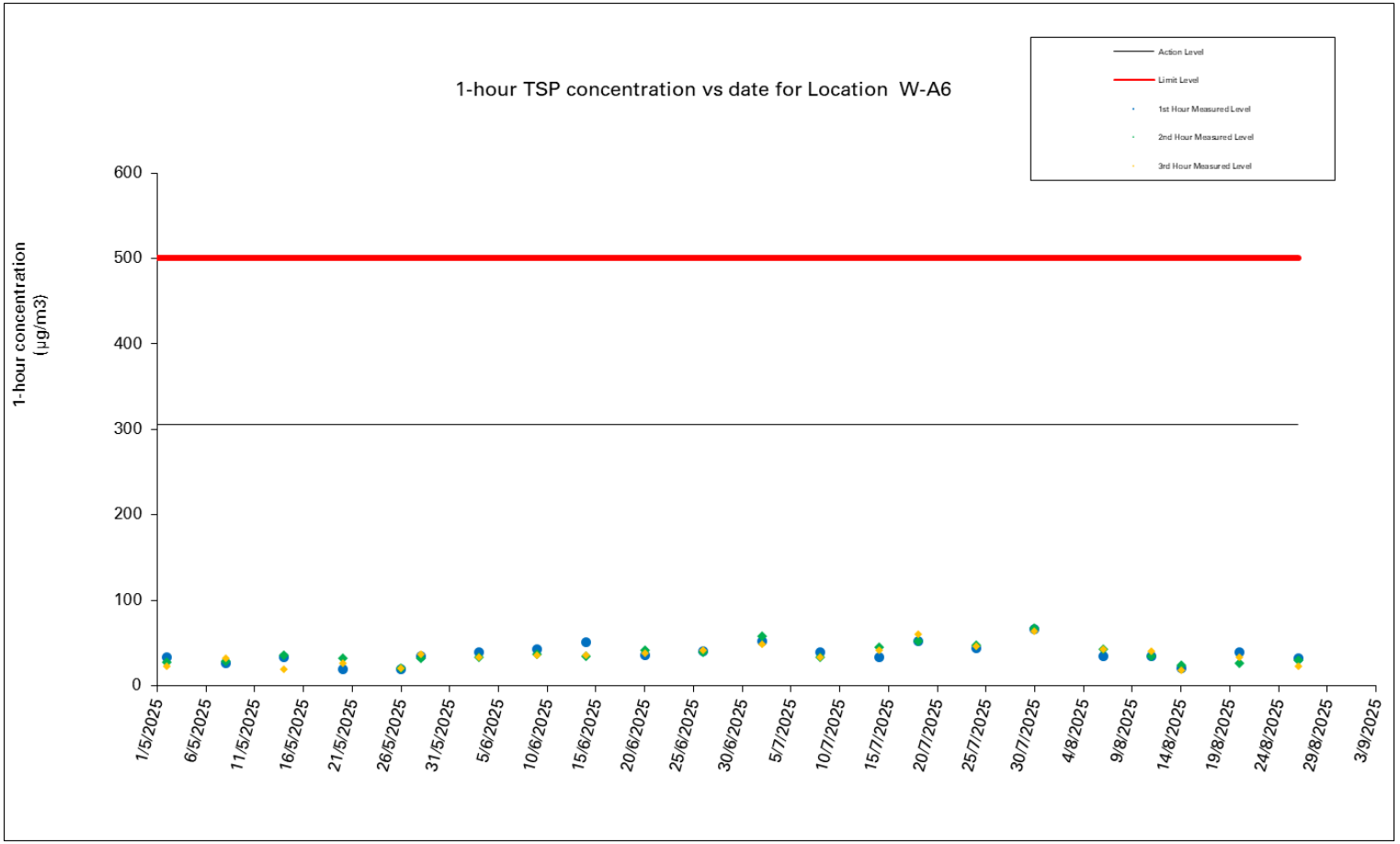


Figure 2: Graphical Illustration of Measured 1-hour TSP (µg/m^3) Levels at W-A6

Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1)
Monitoring date: 06, 11, 14, 20, and 26 August 2025
Parameter : TSP 24-hour
Other Factors Nearby traffic

Summary of TSP-24hr Concrentration (μ g/m^3) at Location W-A1

Date of Calibration:	1-Aug-25	Slope =	18.7772
Calibration due date:	16-Aug-25	Intercept =	25.7396
Date of Calibration:	16-Aug-25	Slope =	21.9461
Calibration due date:	31-Aug-25	Intercept =	22.5841

Start Date	Weather Condition	Elapse Time			Chart Reading			Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulate weight	Corr.
		Initial	Final	Actual (min)	Min	Max	Avg	(^{o}C)	(hPa)	(m^3/min)	(m^3)	Initial	Final	(g)	(µg/m^3)
6/8/2025	Cloudy	11158.4	11182.4	1440.0	39	40	39.5	28.4	1008.5	0.71	1024	2.7152	2.7512	0.0360	35
11/8/2025	Fine	11182.4	11206.4	1440.0	40	41	40.5	29.8	1006.6	0.76	1087	2.7168	2.7537	0.0369	34
14/8/2025	Cloudy	11206.4	11230.4	1440.0	39	40	39.5	26.9	1007.2	0.71	1028	2.7058	2.7525	0.0467	45
20/8/2025	Cloudy	11230.4	11254.4	1440.0	39	40	39.5	29.3	1011.1	0.75	1086	2.6862	2.7186	0.0324	30
26/8/2025	Fine	11254.4	11278.4	1440.0	39	39	39.0	30.1	1009.0	0.73	1045	2.7152	2.7636	0.0484	46
										Maximum:	46 µg/m^3		Minimum:	30 µg/m^3	

Remarks: The monitoring works originally scheduled on 5 August 2025 was rescheduled to 6 August 2025 due to unfavourable weather conditions.

Location: Man Cheong Building (W-A6)
Monitoring date: 06, 11, 14, 20, and 26 August 2025
Parameter : TSP 24-hour
Other Factors Nearby traffic

Summary of TSP-24hr Concrentration (μ g/m^3) at Location W-A6

Date of Calibration:	1-Aug-25	Slope =	20.5443
Calibration due date:	16-Aug-25	Intercept =	22.7810
Date of Calibration:	16-Aug-25	Slope =	17.5557
Calibration due date:	31-Aug-25	Intercept =	28.7707

Start Date	Weather Condition	Elapse Time			Chart Reading			Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulate weight	Conc.
		Initial	Final	Actual (min)	Min	Max	Avg	(^{o}C)	(hPa)	(m^3/min)	(m^3)	Initial	Final	(g)	(µg/m^3)
6/8/2025	Cloudy	13958.4	13982.4	1440.00	39	40	39.5	28.4	1008.5	0.79	1143	2.6926	2.7488	0.0562	49
11/8/2025	Fine	13982.4	14006.4	1440.00	39	40	39.5	29.8	1006.6	0.79	1132	2.6781	2.7104	0.0323	29
14/8/2025	Cloudy	14006.4	14030.4	1440.00	40	40	40.0	26.9	1007.2	0.82	1181	2.7042	2.7562	0.0520	44
20/8/2025	Cloudy	14030.4	14054.4	1440.00	41	41	41.0	29.3	1011.1	0.67	972	2.6824	2.7198	0.0374	38
26/8/2025	Fine	14054.4	14078.4	1440.00	40	41	40.5	30.1	1009.0	0.64	920	2.7014	2.7571	0.0557	61
										Maximum:	61 µg/m^3		Minimum:	29 µg/m^3	

Remarks: The monitoring works originally scheduled on 5 August 2025 was rescheduled to 6 August 2025 due to unfavourable weather conditions.

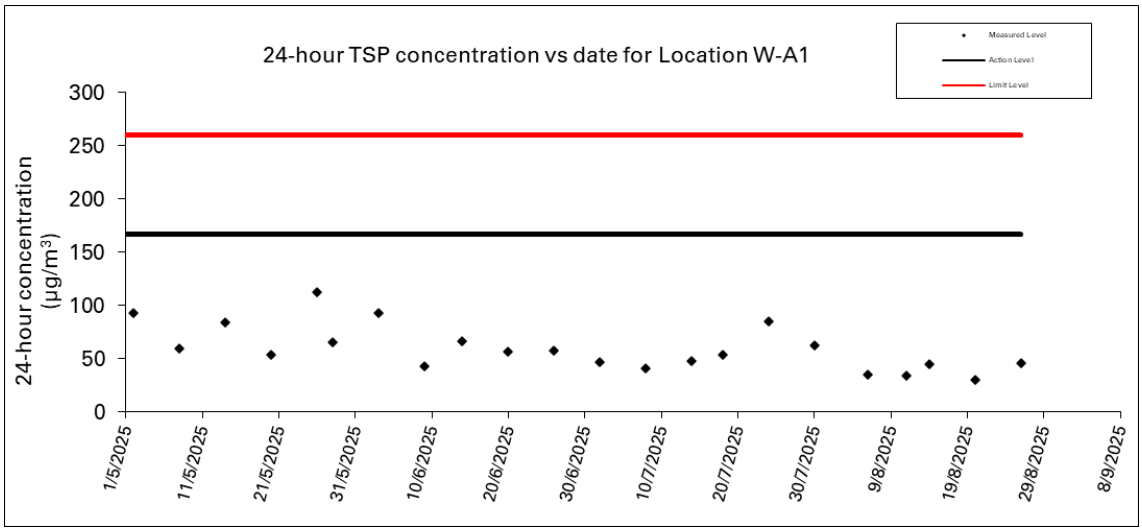


Figure 3: Graphical Illustration of Measured 24-hour TSP (µg/m^3) Levels at W-A1

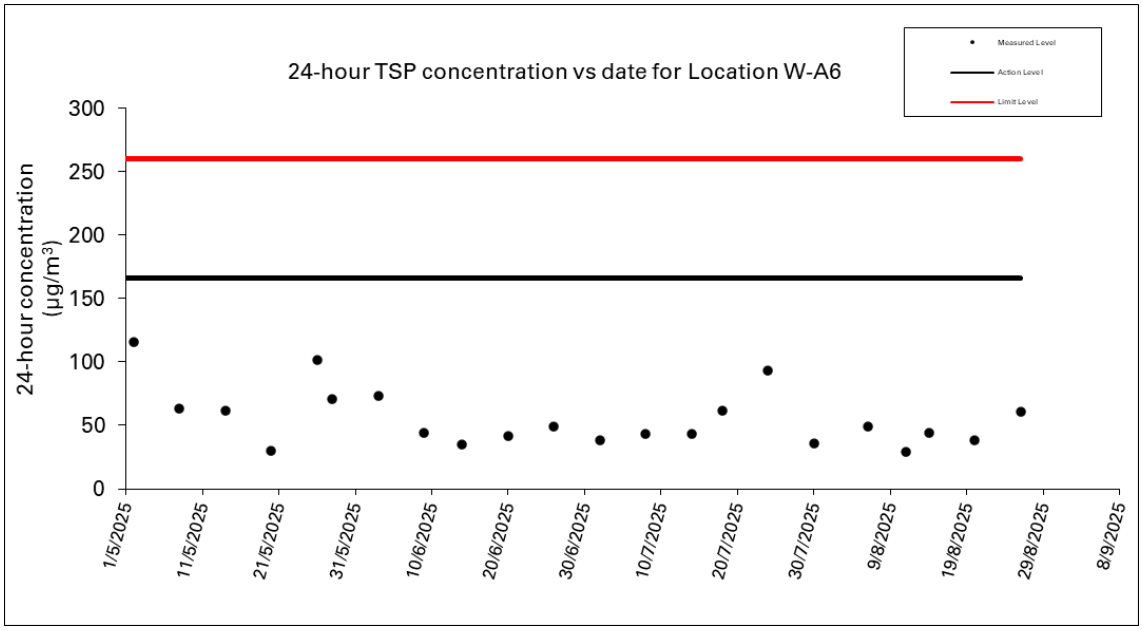
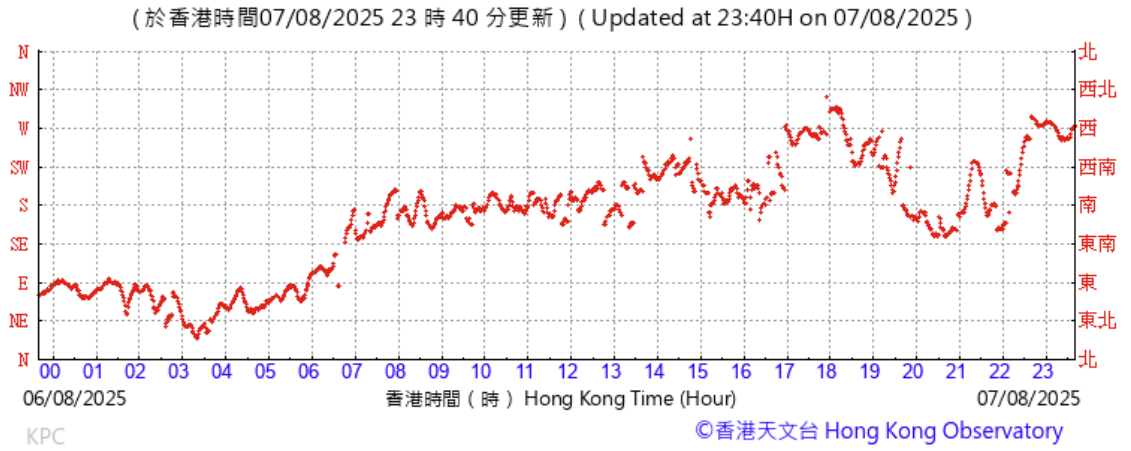
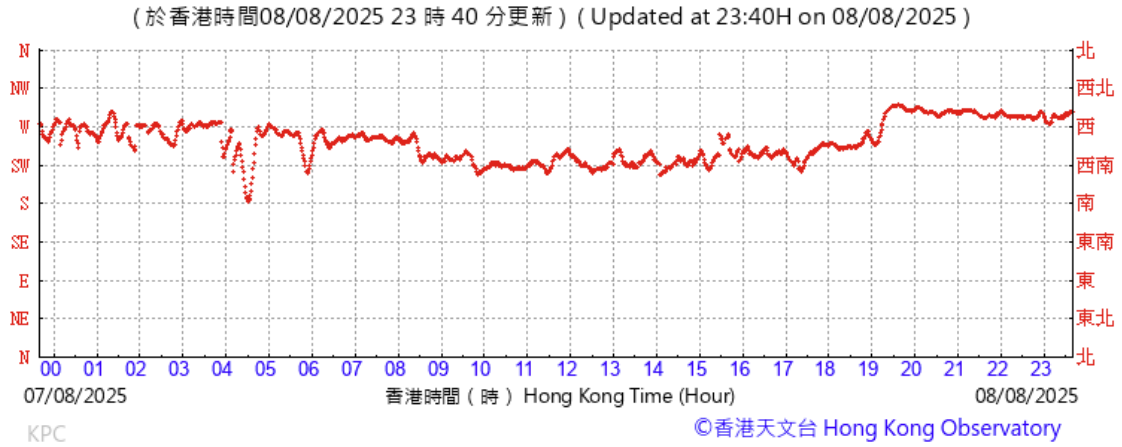
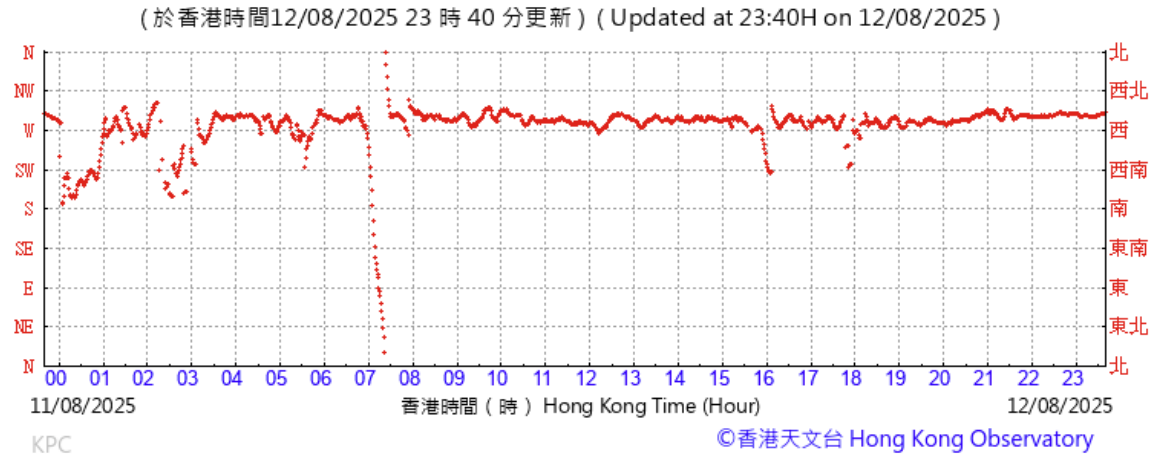


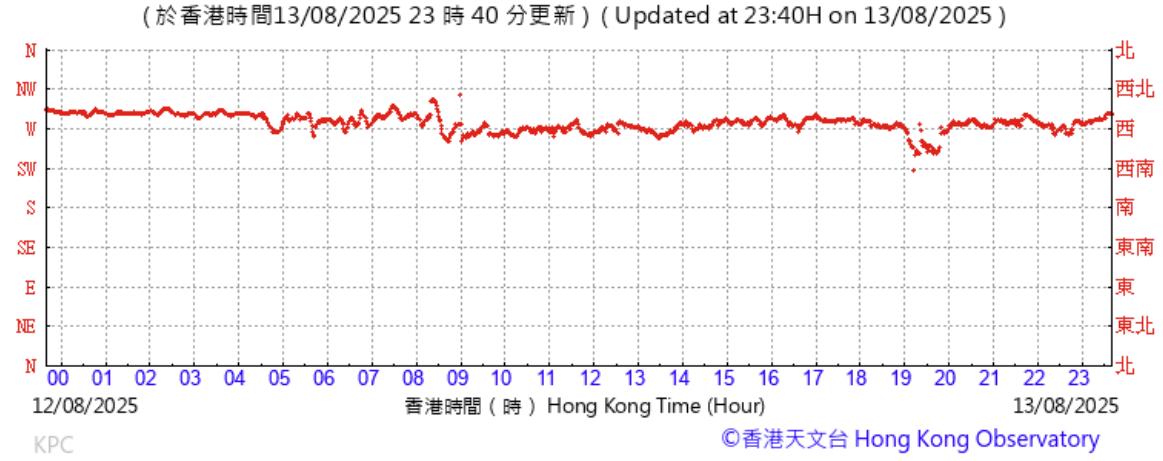
Figure 4: Graphical Illustration of Measured 24-hour TSP (µg/m^3) Levels at W-A6

Wind direction data for 6, 7, 11, 12, 14, 15, 20, 21, 26 and 27 August 2025





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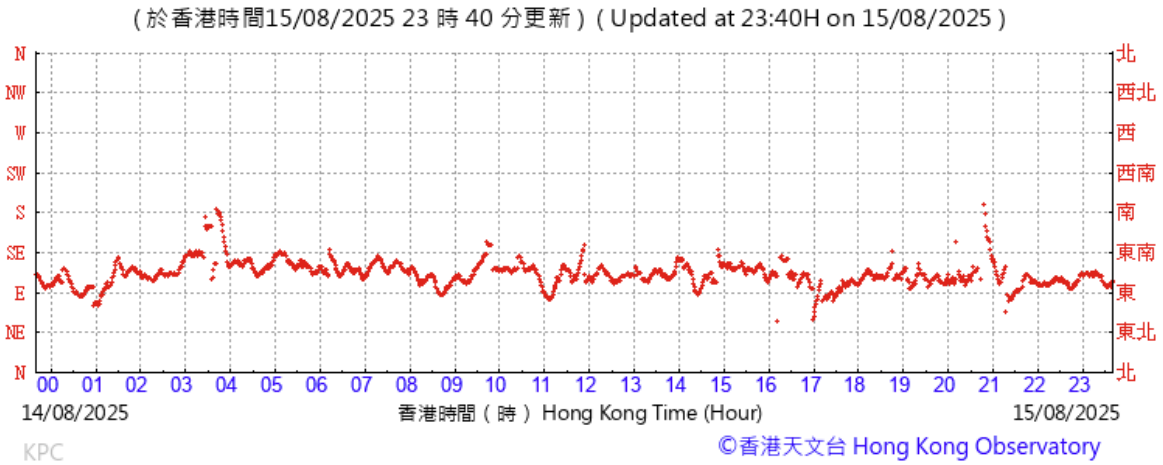
©香港天文台 Hong Kong Observatory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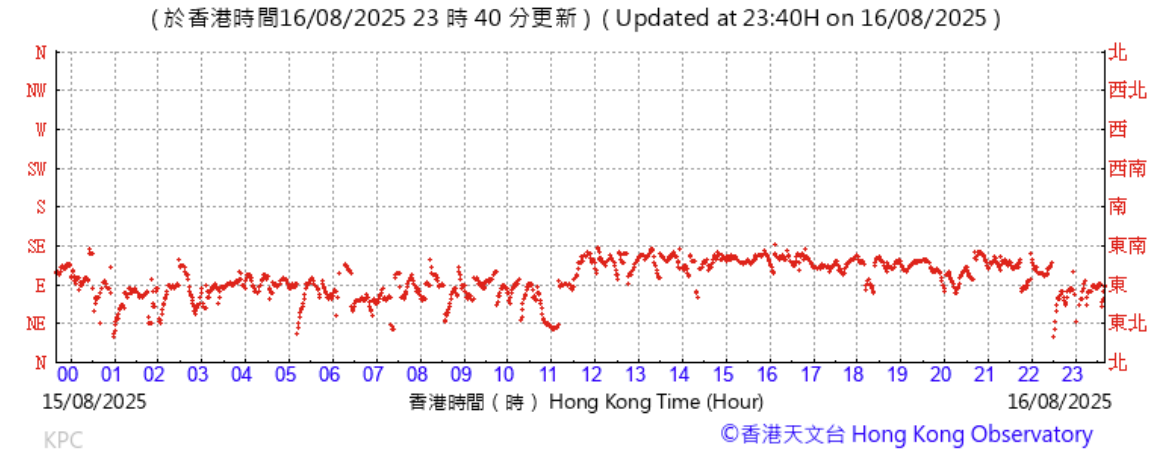
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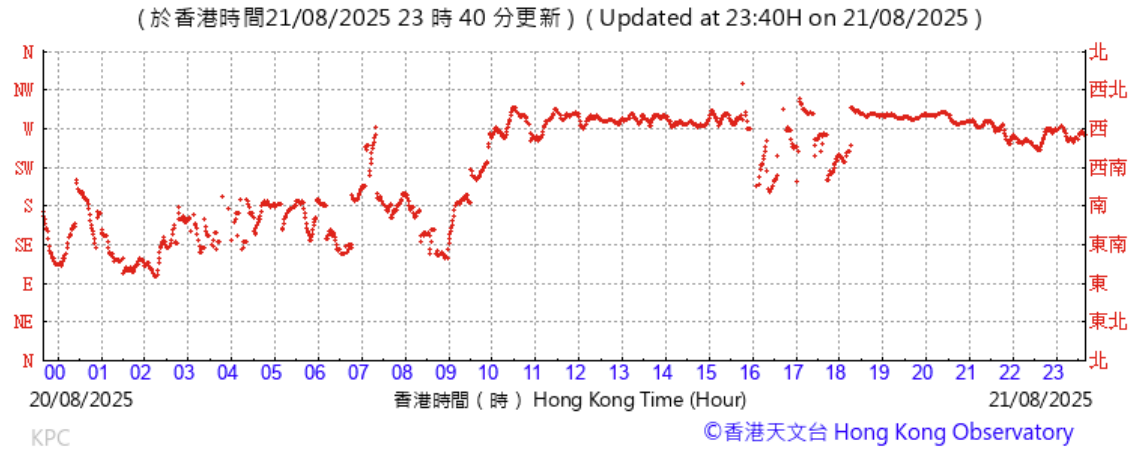
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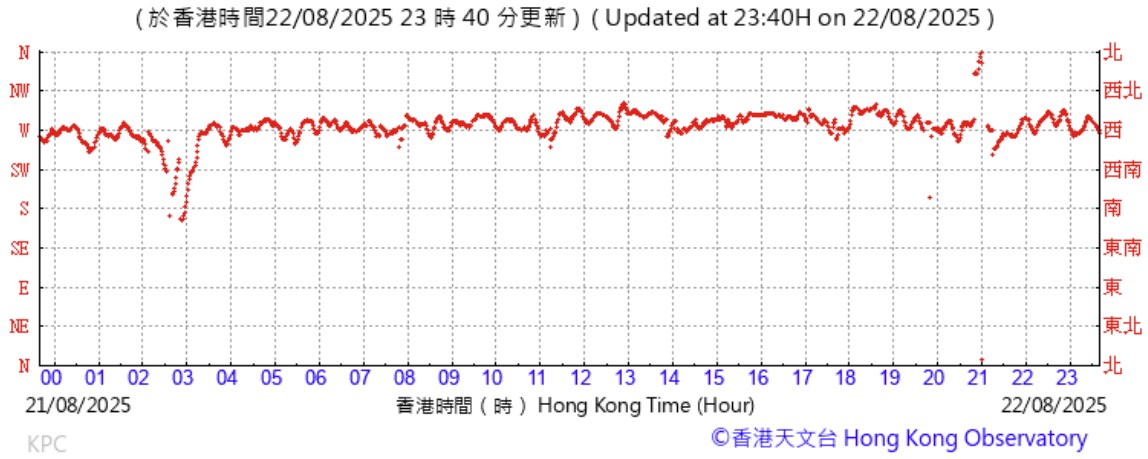
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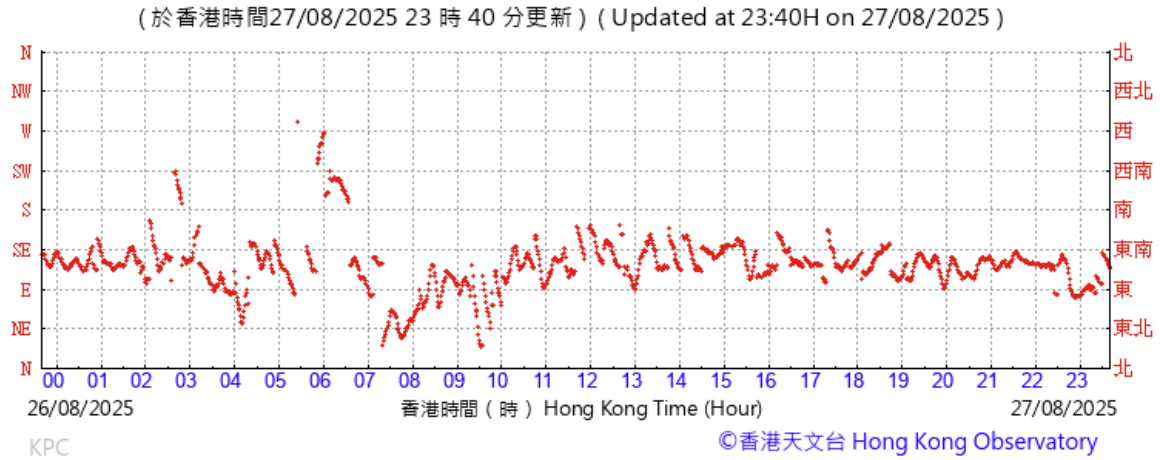
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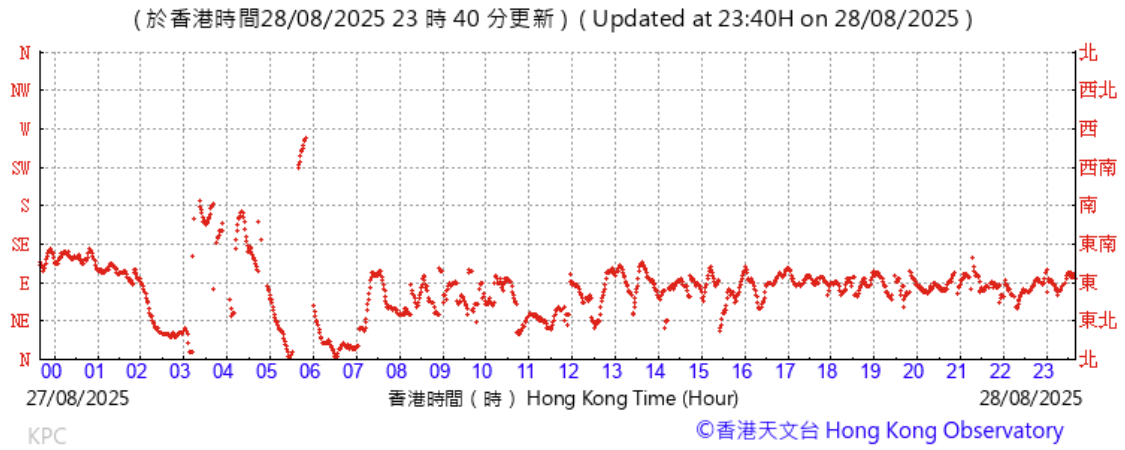
©香港天文台 Hong Kong Observatory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27/08/2025
香港時間 (時) Hong Kong Time (Hour)
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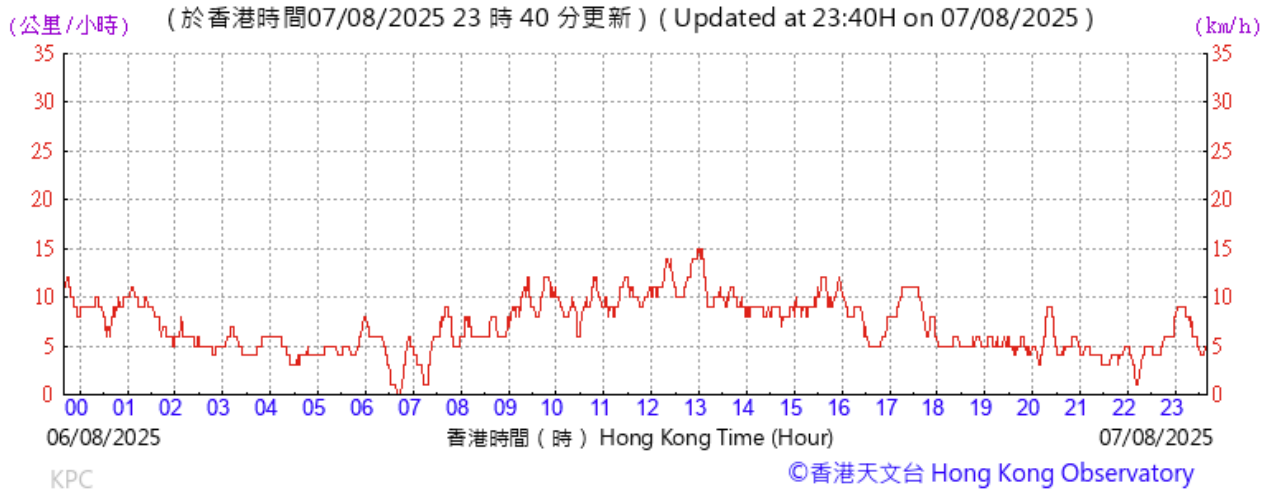
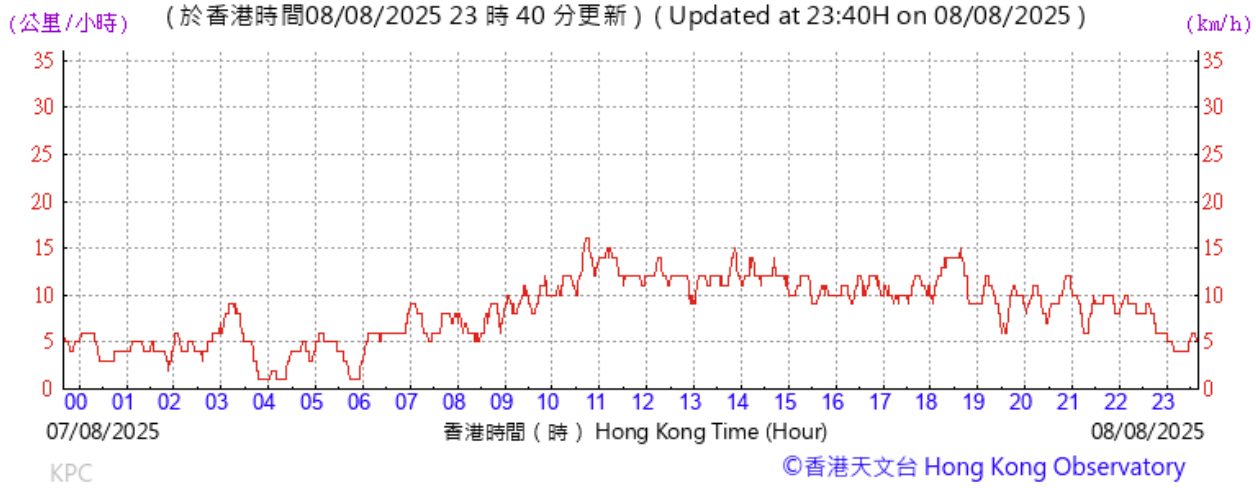
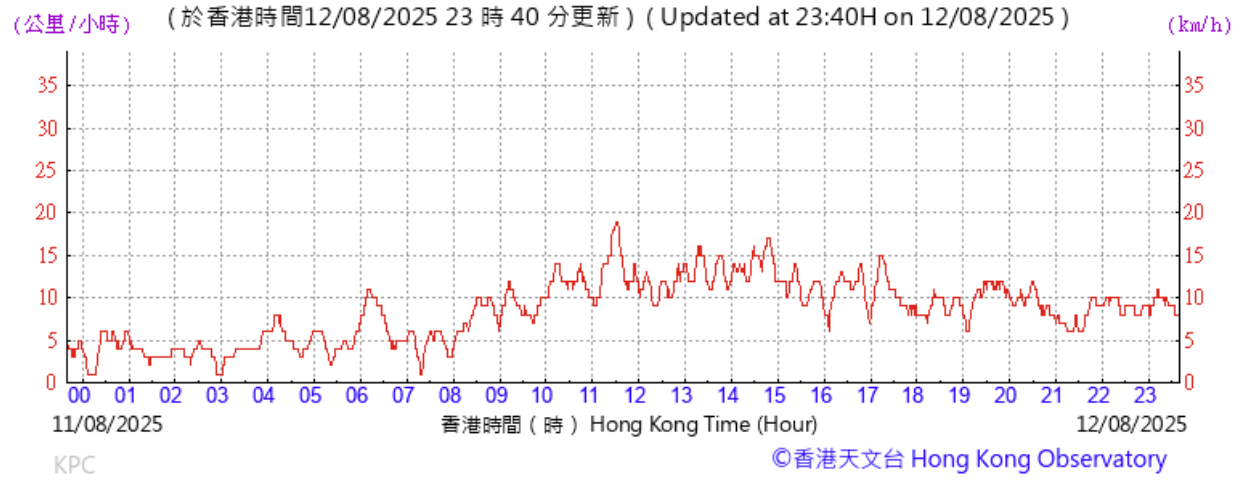
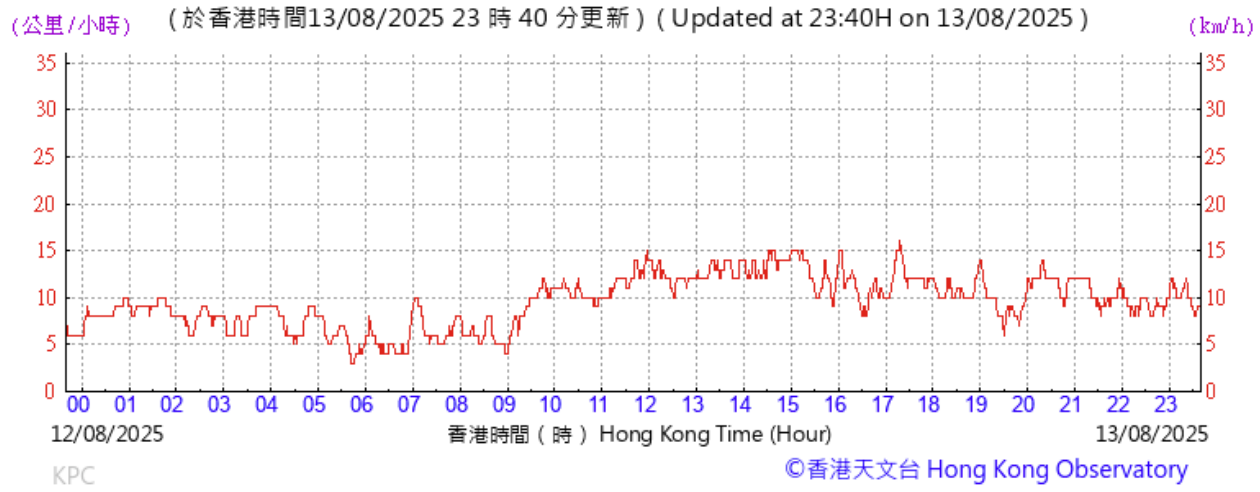
©香港天文台 Hong Kong Observatory

Wind speed data for 6, 7, 11, 12, 14, 15, 20, 21, 26 and 27 August 2025





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12/08/2025
香港時間(時) Hong Kong Time (Hour)
13/08/2025
KPC
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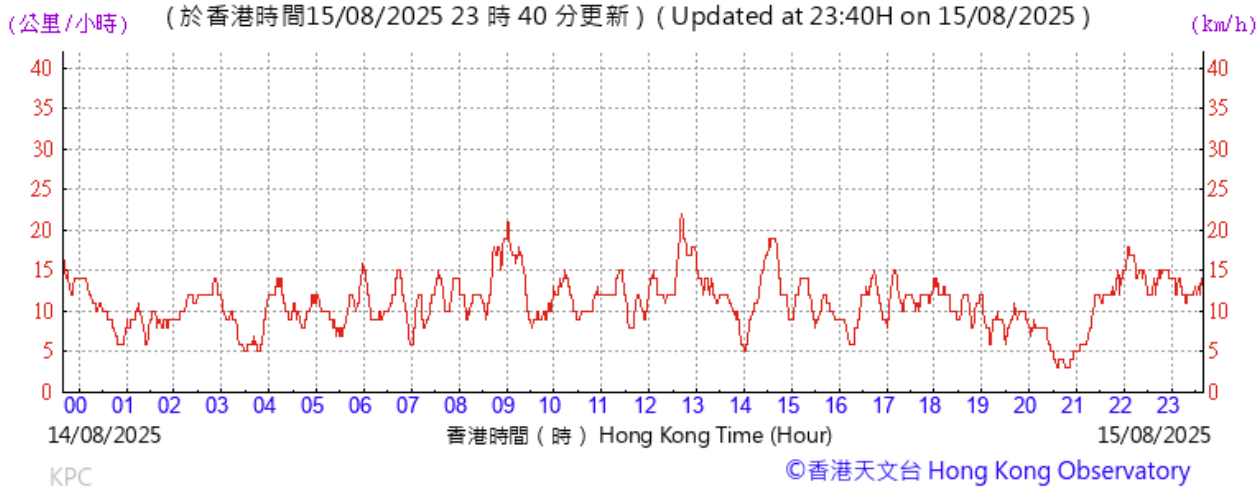
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香港時間(時) Hong Kong Time (Hour)
15/08/2025
KPC
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(公里/小時)
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香港時間(時) Hong Kong Time (Hour)
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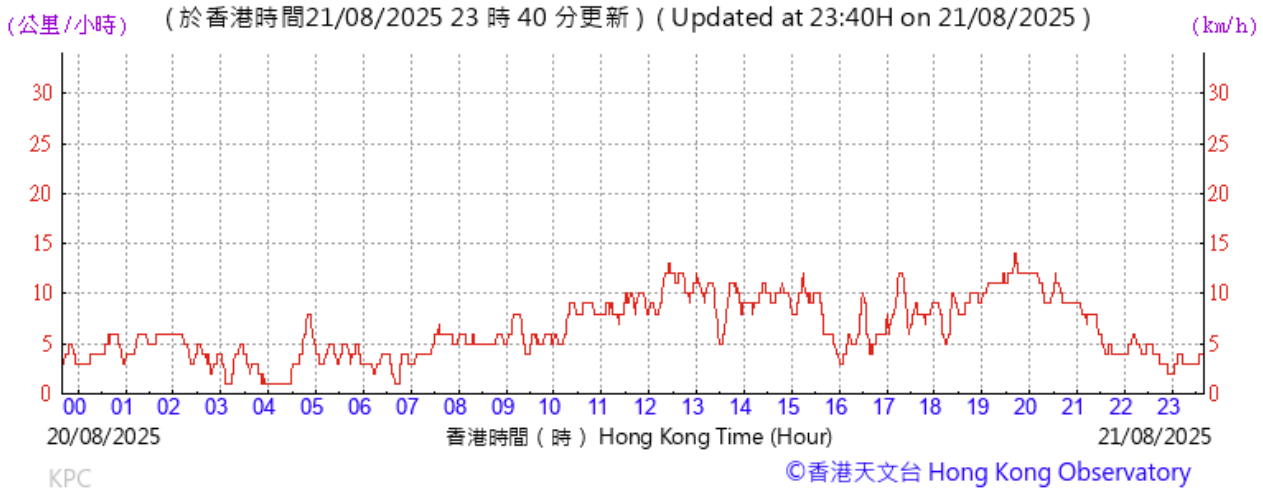
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20/08/2025
香港時間 (時) Hong Kong Time (Hour)
21/08/2025
KPC
©香港天文台 Hong Kong Observatory


(公里/小時)
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香港時間 (時) Hong Kong Time (Hour)
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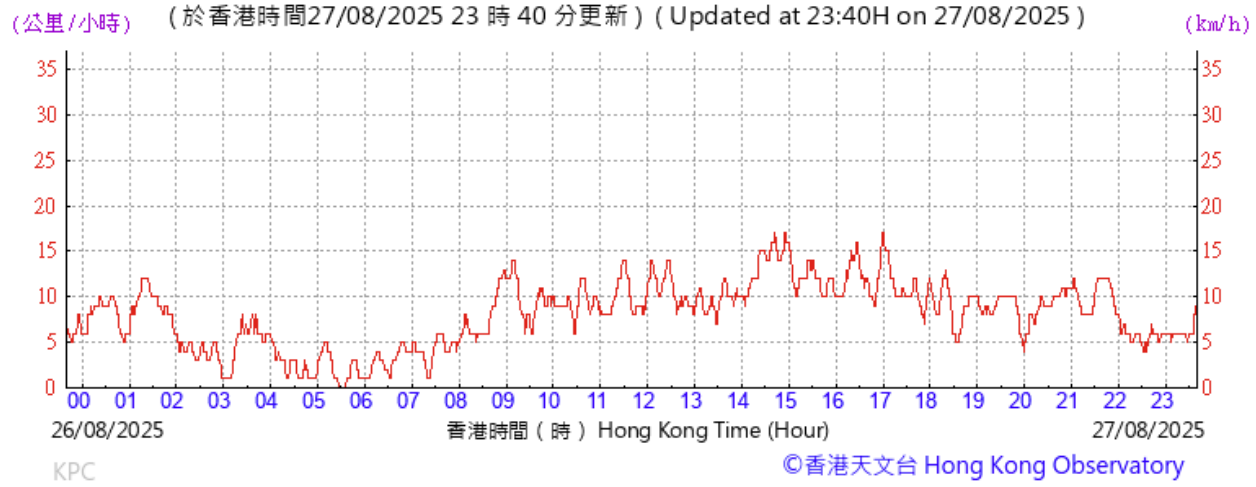
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00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
26/08/2025
香港時間 (時) Hong Kong Time (Hour)
27/08/2025
KPC
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(km/h)
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35
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20
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00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
27/08/2025
香港時間 (時) Hong Kong Time (Hour)
28/08/2025
KPC
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Appendix M
Monitoring Data (Noise)

Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-N1A)

Monitoring date: 06, 11, 14, 20, and 26 August 2025

Parameter : L_{eq}, L_{10}, L_{90}

Other Factors Nearby traffic

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L_{90}	Wind speed (m/s)
06/08/2025	Cloudy	9:18	-	9:48	59.3	61.5	56.8	2.8
11/08/2025	Fine	14:43	-	15:13	60.8	64.9	58.5	4.7
14/08/2025	Cloudy	13:40	-	14:10	59.4	61.3	58.0	3.3
20/08/2025	Cloudy	9:57	-	10:27	58.2	59.2	57.4	1.8
26/08/2025	Fine	9:40	-	10:10	58.8	59.6	57.5	2.5

Remarks: Examination was not scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions

Location: Hydan Place (W-N18)

Monitoring date: 06, 11, 14, 20, and 26 August 2025

Parameter : L_{eq}, L_{10}, L_{90}

Other Factors Nearby traffic

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L_{90}	Wind speed (m/s)
06/08/2025	Cloudy	13:41	-	14:11	68.2	70.4	66.5	2.4
11/08/2025	Fine	14:00	-	14:30	69.6	72.4	66.0	3.5
14/08/2025	Cloudy	16:29	-	16:59	61.9	64.3	60.0	3.5
20/08/2025	Cloudy	15:05	-	15:35	62.2	64.4	60.1	2.5
26/08/2025	Fine	14:22	-	14:52	62.5	64.9	60.5	4.0

Remarks: The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions

Location: Prosperous Garden Block 1 (W-N25A)

Monitoring date: 06, 11, 14, 20, and 26 August 2025

Parameter : L_{eq}, L_{10}, L_{90}

Other Factors Nearby traffic

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L_{90}	Wind speed (m/s)
06/08/2025	Cloudy	14:36	-	15:06	73.4	75.2	71.6	2.4
11/08/2025	Fine	14:48	-	15:18	72.6	75.1	66.1	4.4
14/08/2025	Cloudy	14:15	-	14:45	66.9	70.2	65.4	3.1
20/08/2025	Cloudy	16:30	-	17:00	72.3	75.2	69.2	2.8
26/08/2025	Fine	15:15	-	15:45	71.9	75.4	68.8	3.3

Remarks: The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions

Location: The Coronation Tower 1 (W-P11)

Monitoring date: 06, 11, 14, 20, and 26 August 2025

Parameter : L_{eq}, L_{10}, L_{90}

Other Factors Nearby traffic

Noise Monitoring data:

Date	Weather	Start Time	-	End Time	L_{eq}	L_{10}	L_{90}	Wind speed (m/s)
06/08/2025	Cloudy	10:09	-	10:39	60.9	62.9	59.3	3.9
11/08/2025	Fine	13:52	-	14:22	66.4	68.4	65.3	3.1
14/08/2025	Cloudy	15:00	-	15:30	67.4	69.6	64.5	2.6
20/08/2025	Cloudy	10:47	-	11:17	66.7	68.3	65.6	2.5
26/08/2025	Fine	11:05	-	11:35	71.2	74.1	67.8	2.4

Remarks: The monitoring works originally scheduled on 05 August 2025 was rescheduled to 06 August 2025 due to unfavourable weather conditions

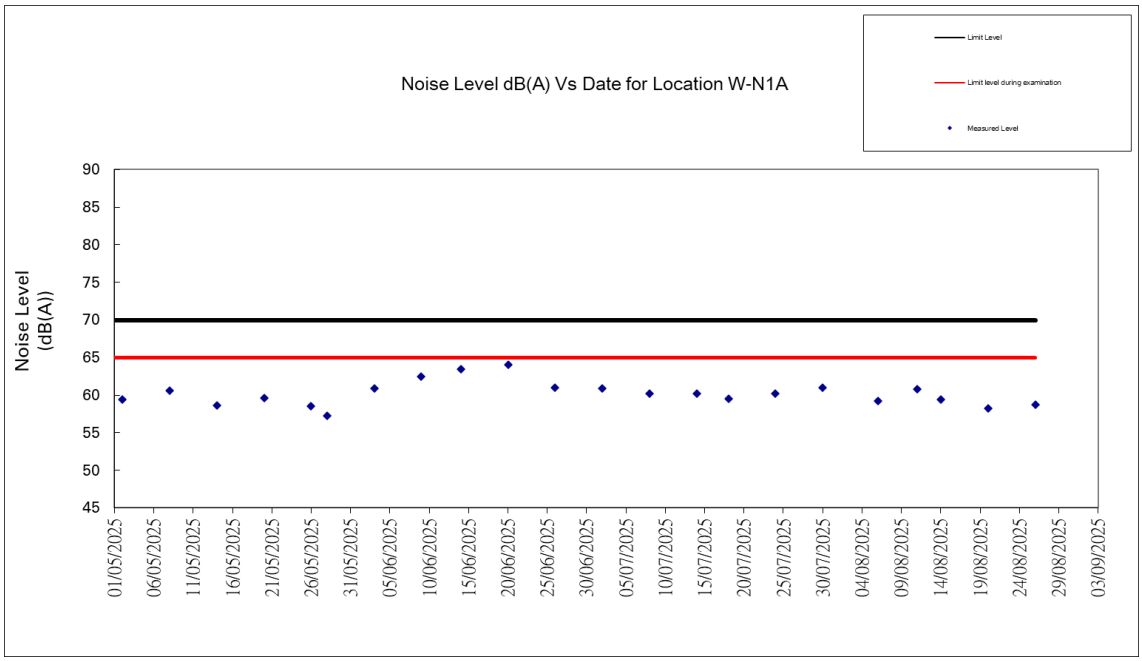


Figure 1: Graphical Illustration of Measured Noise Levels at W-N1A

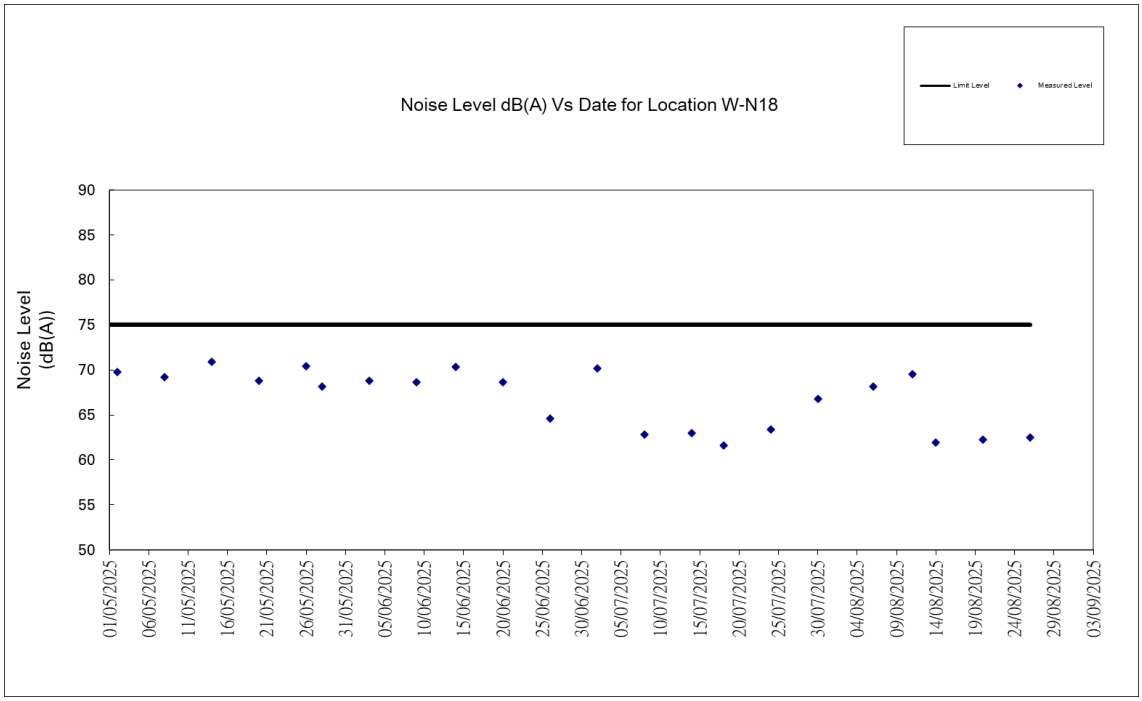


Figure 2: Graphical Illustration of Measured Noise Levels at W-N18

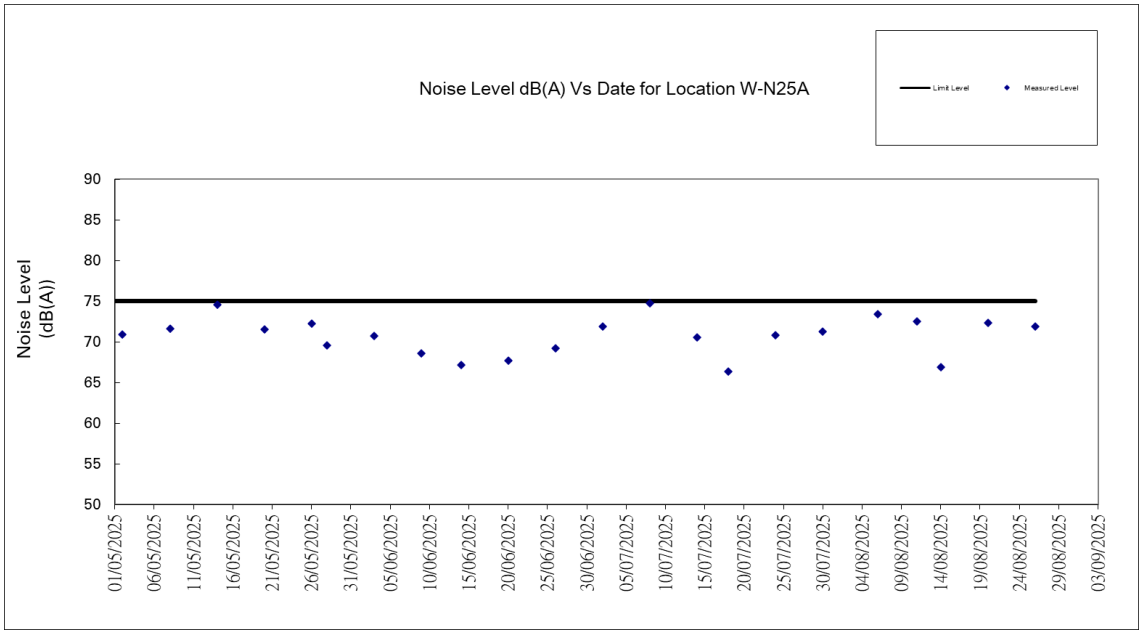


Figure 3: Graphical Illustration of Measured Noise Levels at W-N25A

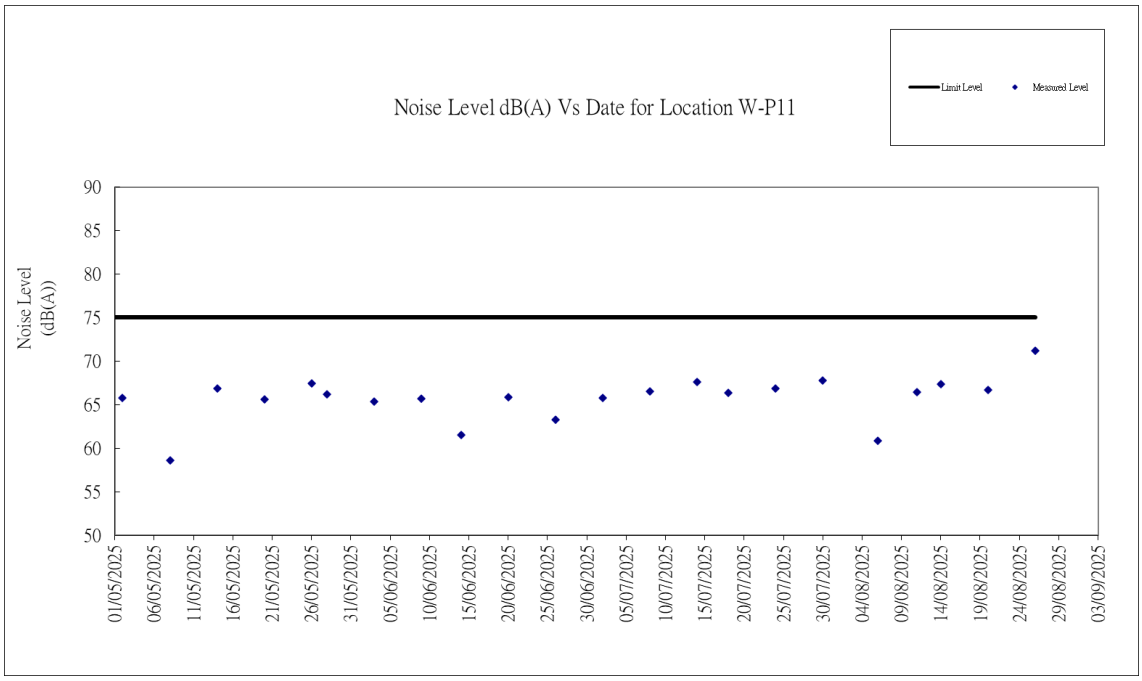


Figure 4: Graphical Illustration of Measured Noise Levels at W-P11

Appendix N
Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Highways Department **Contract No. / Works Order No.: HY/2014/08**

Monthly Summary Waste Flow Table for August 2025

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 2 decimal places.)

Month		Actual Quantities of Inert Construction Waste Generated Monthly				
	(a)=(b)+(c)+(d)+(e)+ (f)+ (g)+ (h)+ (i)+ (j)+ (k) Total Quantity Generated	(b) Hard Rock and Large Broken	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)
Jan-25	13132.80	540.30	0.00	1156.60	1303.10	9936.80
Feb-25	20719.10	156.90	0.00	0.00	568.90	19863.00
Mar-25	22668.26	501.20	0.00	0.00	1613.20	20461.30
Apr-25	20858.50	347.20	0.00	0.00	112.10	19984.10
May-25	16744.61	337.20	0.00	0.00	343.50	15932.80
Jun-25	8480.70	378.10	0.00	0.00	361.00	7640.90
Sub-total	102603.97	2260.90	0.00	1156.60	4301.80	93818.90
Jul-25	5121.60	351.60	0.00	0.00	732.60	3930.60
Aug-25	3578.00	190.70	343.10	0.00	685.40	2191.00
Sep-25						
Oct-25						
Nov-25						
Dec-25						
Total	111303.57	2803.20	343.10	1156.60	5719.80	99940.50
2018	51057.90	0.00	0.00	0.00	47715.60	2877.40
2019	112830.10	541.00	1523.80	13525.00	93132.90	3155.60
2020	193021.92	58778.00	1205.60	19108.60	112556.80	0.00
2021	104679.02	6461.30	1393.70	1144.70	92950.20	1542.90
2022	114787.22	3600.50	1804.50	18471.20	90202.70	0.00
2023	192946.67	73219.70	1670.00	20008.60	96991.50	0.00
2024	282726.21	52152.28	25269.83	70408.56	128027.11	4773.80
Accumulated Total	1163352.61	197555.98	33210.53	143823.26	667296.61	112290.20

Month	Actual Quantities of Non-inert Construction Waste Generated Monthly								
	(g) Metals		(h) Paper/ cardboard packaging		(i) Plastics		(j) Chemical Waste		(k) Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan-25	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	195.60
Feb-25	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	128.70
Mar-25	0.00	2.10	0.00	0.26	0.00	0.00	0.00	0.00	90.20
Apr-25	0.00	332.00	0.00	0.80	0.00	0.00	0.00	0.00	82.30
May-25	0.00	71.90	0.00	0.00	0.00	0.01	0.00	0.00	59.20
Jun-25	0.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	72.60
Sub-total	0.00	435.70	0.00	1.46	0.00	0.01	0.00	0.00	628.60
Jul-25	0.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00	81.00
Aug-25	0.00	91.80	0.00	0.80	0.00	0.00	0.00	0.00	75.20
Sep-25									
Oct-25									
Nov-25									
Dec-25									
Total	0.00	553.30	0.00	2.26	0.00	0.01	0.00	0.00	784.80
2018	28.40	0.00	0.00	0.00	0.00	0.00	2.00	0.00	434.50
2019	0.00	9.10	3.40	6.80	0.00	0.00	5.20	0.00	927.30
2020	69.20	0.00	3.30	0.00	0.02	0.00	25.30	0.00	1275.10
2021	30.20	0.00	4.80	0.00	0.02	0.00	25.50	0.00	1125.70
2022	108.60	0.00	3.30	0.40	0.02	0.00	1.20	0.00	594.80
2023	0.00	65.70	0.00	2.71	0.00	0.06	0.00	0.00	988.40
2024	0.00	143.41	0.00	5.28	0.00	0.81	0.00	4.00	1941.13
Accumulated Total	236.40	771.51	14.80	17.45	0.06	0.88	59.20	4.00	8071.73

Appendix O
Statistics on Complaint, Notifications of Summons and Successful Prosecutions

Statistical Summary of Exceedances

Air Quality		
Reporting Period	**Action Level**	**Limit Level**
01 – 31 August 2025	0	0
Noise		
Reporting Period	**Action Level**	**Limit Level**
01 – 31 August 2025	0	0

Statistical Summary of Environmental Complaints

Reporting Period	**Environmental Complaint Statistics**		
	Frequency	**Cumulative**	**Complaint Nature**
01 – 31 August 2025	6	177	Dust Impact, Noise Impact, Wastewater

Statistical Summary of Environmental Non-compliance

Reporting Period	**Environmental Non-compliance Statistics**		
	Frequency	**Cumulative**	**Details**
01 – 31 August 2025	0	2	N/A

Statistical Summary of Environmental Summons

Reporting Period	**Environmental Summons Statistics**		
	Frequency	**Cumulative**	**Details**
01 – 31 August 2025	0	1	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	**Environmental Prosecution Statistics**		
	Frequency	**Cumulative**	**Details**
01 – 31 August 2025	0	0	N/A

Appendix P
Monitoring Schedule of the Coming Month

Impact Monitoring Schedule for YMTE						
Sep-25						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
	Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A (Rescheduled to 6 August 2025)					Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A (Rescheduled to 6 August 2025)
7	8	9	10	11	12	13
					Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A (Rescheduled to 6 August 2025)	
14	15	16	17	18	19	20
				Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A		
21	22	23	24	25	26	27
			Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A			
28	29	30				
		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A				

Appendix Q
Interim Report for the Complaint

Interim Report on Environmental Complaint

<table>
<tr><td>Project</td><td>Central Kowloon Route, Yau Ma Tei East Section</td></tr>
<tr><td>Complaint Code</td><td>EC172-CKRYMTE20250807_001</td></tr>
<tr><td>Complaint description</td><td>The 1823 complaint was forwarded to the Contractor and the Environmental Team (ET) on 07 August 2025. The complaint was concerned about the construction noise from the site area at Gascoigne Road Flyover during nighttime hours, specifically at 2:00 am to 3:00 am on 31 July 2025.</td></tr>
<tr><td>Parameter</td><td>Construction Noise</td></tr>
<tr><td>Investigation finding</td><td>The complaint was about the construction noise received by the complainant during nighttime hours. At the time of concern, nighttime work was carried out at Working Zone D at Gascoigne Road Flyover [1] for the construction of noise enclosure. This work was conducted from 12:00 am till 5:00 am on 31 July 2025.

For construction works undertaken within restricted hours, Construction Noise Permits (CNP) have been applied by the Contractor. The work conducted at nighttime on 31 July 2025 was covered by a valid CNP with no. GW-RE0871-25 granted by the EPD. Advance notification of CNP [2] had been submitted to the EPD via the online system within 14 days but not less than 48 hours before the commencement of work.

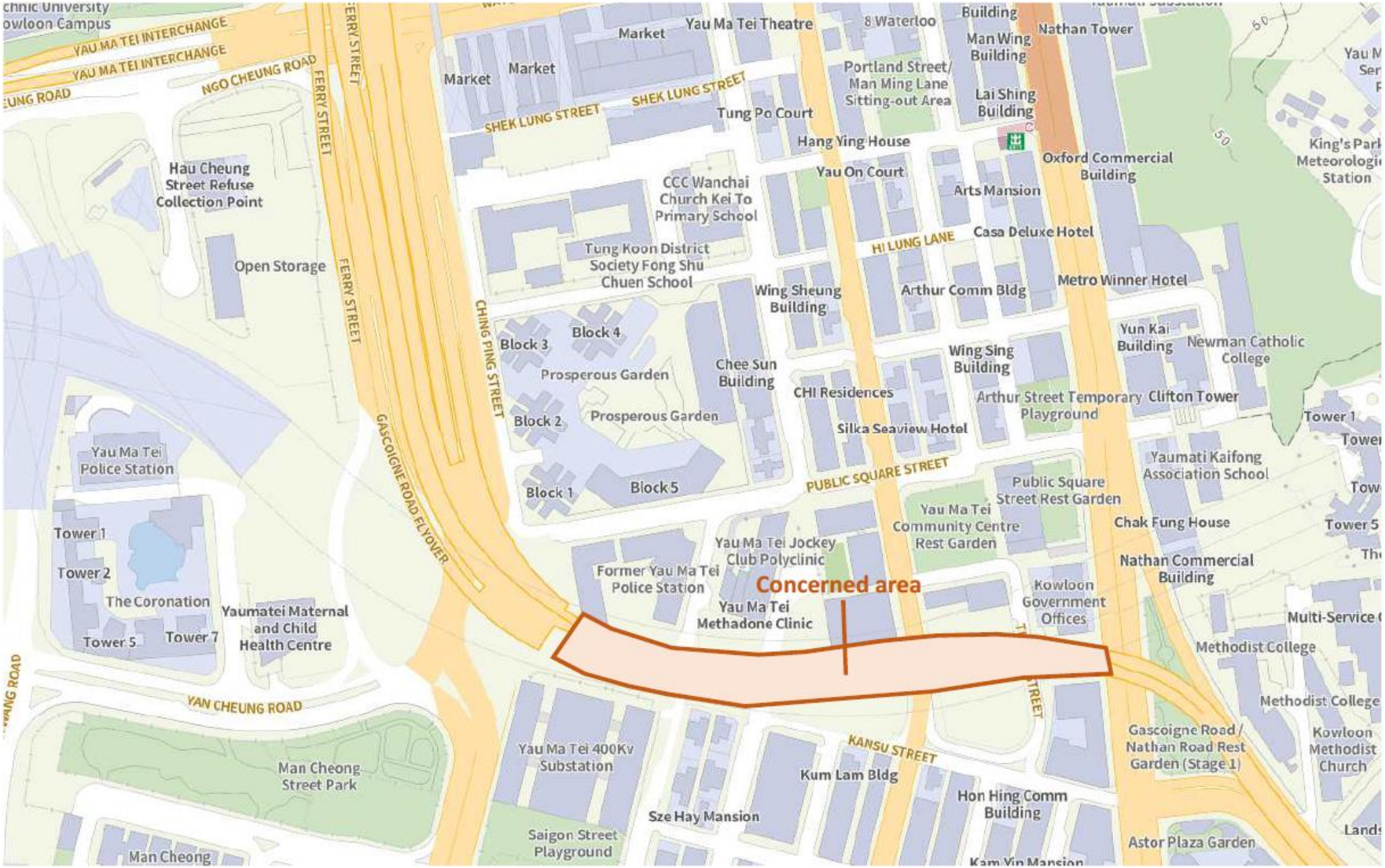
The Powered Mechanical Equipment (PMEs) used for works conducted at nighttime and the prescribed construction works carried out during the period include the following:
<table>
<tr><td>Working Zone</td><td>PME(s)</td></tr>
<tr><td rowspan="3">D</td><td>• 2 Cherry Pickers
• 1 Lorry, with crane, 5.5 tonne <gross vehicle weight ≤38 tonne</td></tr>
<tr><td>Prescribed Construction Work</td></tr>
<tr><td>• Hammering</td></tr>
</table>
According to the CNPs, the above PMEs were approved to operate within their respective Working Zone during the permitted hours specified in the CNP. The Contractor has confirmed that noise mitigation measures were implemented on-site. These measures included covering the power generating parts of the PMEs with acoustic sheds and switching off all idling PMEs, in compliance with the requirements outlined in CNP [3]. All PMEs that were used on site were well-functioned. For hammering works conducted at nighttime, plastic hammers with non-metallic tips were utilized as per requested in the CNP [3].

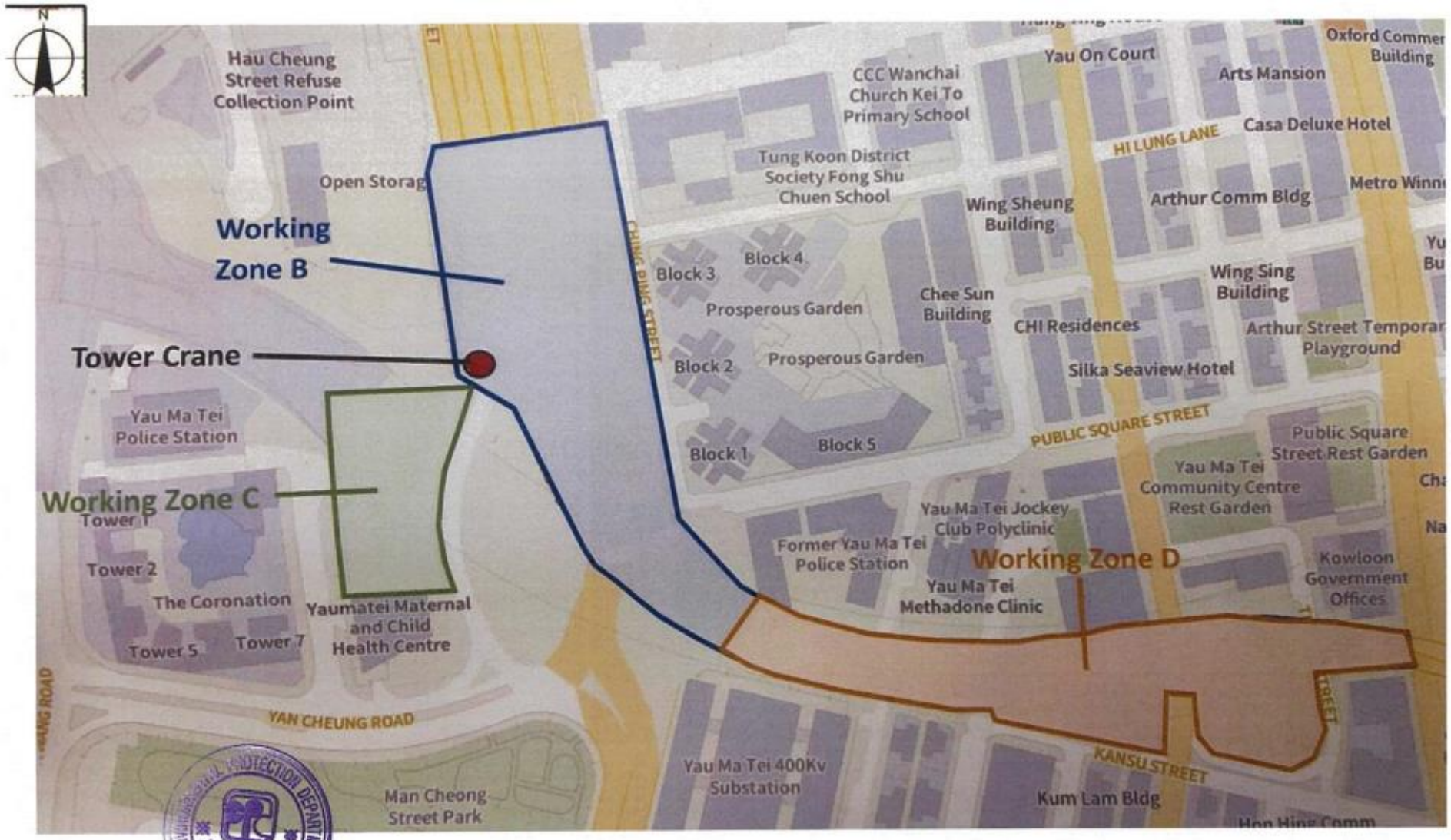
Upon consideration of the fulfillment of the stipulated requirements by the contractor for the approved Environmental Monitoring & Audit (EM&A) manual and the valid CNP, it is concluded that there was no non-compliance regarding construction noise impact in the Project's work conducted at nighttime on 31 July 2025.</td></tr>
<tr><td>Actions taken / to be taken</td><td>The Contractor has adhered to the stipulated requirements outlined in the EM&A manual and the valid CNP. Mitigation measures have been implemented to minimize any nuisance to the public.

The following additional remediation measures have been taken:
• Arranging works to be completed as soon as possible to minimize nuisance to the public
• Carrying out site inspection to ensure all PMEs are well-maintained and in proper function to avoid excessive noise
• Providing training to workers on using PME carefully to minimize noise caused</td></tr>
</table>

Remarks (Shown in next pages)	1. Layout of the concerned site area & Working Zone Layout of CNP GW-RE0871-25 2. Record of Advance Notification to EPD via online system 3. Site photos of noise mitigation measures	
Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	13 August 2025	

Remark 1: Layout of the concerned site area & Working Zone Layout of CNP GW-RE0871-25





環境保護署 Environmental Protection Department	噪音管制監督 Noise Control Authority	圖例 Legend 建築地盤 Construction Site
建築噪音許可證編號 GW-RE0871-25 的附圖 2 Plan 2 attached to Construction Noise Permit No. GW-RE0871-25		比例 Scale

Remark 2: Record of Advance Notification to EPD via online system

Outlook

[Acknowledgement] GW-RE0871-25 Yau Tsim Mong

From Online Submission for Advance Notification of CNPs <admin@nco-emergencywork.hk>
Date Fri 7/25/2025 4:28 PM
To Lee Wan Chung, Leo <leo.lee@buildking.hk>

This email acknowledges your advance notification submitted at 25/07/2025 on 16:27.
Information appended below:

CNP No. :	GW-RE0871-25
Date and time of receiving notification :	25/07/2025 16:27:59
Notification Ref :	GW-RE0871-25-002
CNP holder :	Build King - SK ecoplant Joint Venture
Location of Work :	
- District :	Yau Tsim Mong
- Affected TPUs :	221,225,226,228,229,252,253

Details of work :

Details Location of Work	Date & Time	Details of work program
Road Sections of Ferry Street (from Waterloo Road to Kansu Street) to Road Sections of West Kowloon Corridor and Gascoigne Road Flyover (from Boundary Street to Wylie Road), Kowloon	Start:: 30/07/2025 19:00 End:: 31/07/2025 07:00	1. TTA Implementation 2. Construction Activities 3. Road Reinstatement

Company Details (Contact) :	
Name of company conducting the work :	Build King - SK ecoplant Joint Venture
Name & title of responsible person :	Bosco Lee/ Construction Manager
Fax number :	
Telephone number :	98363402
Email :	leo.lee@buildking.hk

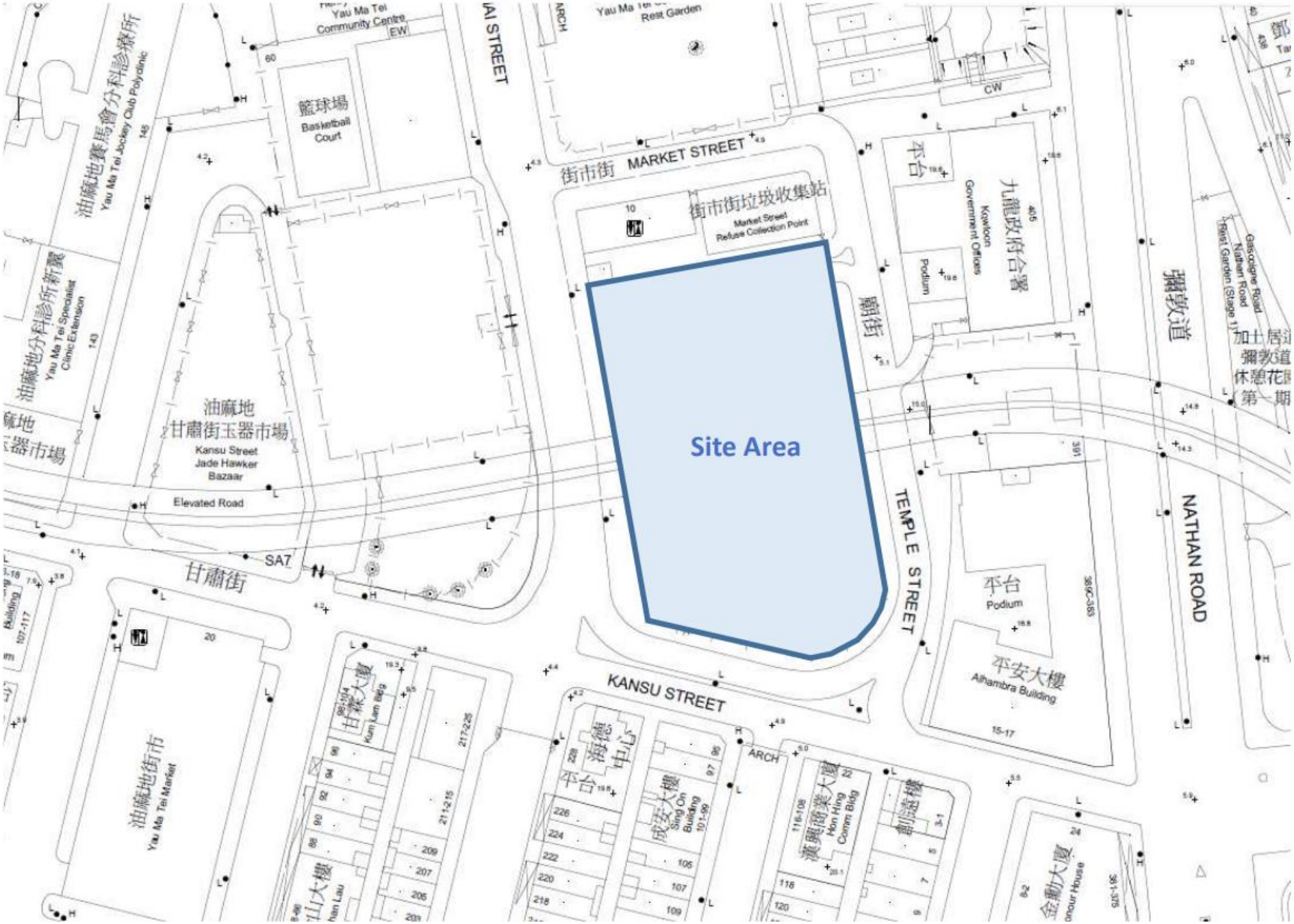
Remark 3: Site photos of noise mitigation measures

Interim Report on Environmental Complaint

Project	Central Kowloon Route, Yau Ma Tei East Section
Complaint Code	EC173-CKRYMTE20250812_001
Complaint description	The complaint case lodged on 12 August 2025 was referred to the Contractor by the EPD and then referred to the Environmental Team (ET) on 12 August 2025. The complaint concerned water flowing onto the pedestrian walkway from the site area.
Parameter	Wastewater
Investigation finding	The complaint pertained to the water flowing onto the pedestrian walkway from Working Zone P6 at the junction of Shanghai Street and Kansu Street [1]. According to the site records, the area was used for material storage and lifting operations were the major activities carried out in the concerned working zone in August 2025. Based on the photo records provided by the complainant, water was observed near the site boundary on the pedestrian walkway of Shanghai Street. The ground of the site is concrete-paved, and the footing of the hoarding was covered with cement. A broken water hose was found in the site area near the site boundary. Since no construction activities other than lifting operations were conducted at the working zone, the water flowing to the concerned area was suspected to have originated from the potable water leaking from the broken water hose on site. Upon being notified of the complainant's concern on 12 August 2025, the Contractor promptly cleaned up the water on the pedestrian walkway [2] and replaced the broken water hose with a new intact water hose. The condition of the bunding at the bottom part of the hoarding was inspected and the bunding was mended where necessary.
Actions taken / to be taken	Mitigation measures have been implemented to prevent water from site from entering the public road. The following additional remediation measures have been taken: • Carrying out site inspection to ensure wastewater from construction works is directed to the wastewater treatment tanks and discharged after treatment on site according to the Water Pollution Control Ordinance • Providing training to workers on the proper handling of construction wastewater and promoting good water usage practice on site
Remarks (Shown in next pages)	1. Layout of the concerned site area 2. Site photo of mitigation action

Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	18 August 2025	

Remark 1: Layout of the concerned site area



Remark 2: Site photo of mitigation action

Interim Report on Environmental Complaint

Project	Central Kowloon Route, Yau Ma Tei East Section
Complaint Code	EC174-CKRYMTE20250814_001
Complaint description	The complaint case that was created on 5 August 2025 was referred to the Contractor on 13 August 2025 and subsequently to the Environmental Team (ET) on 14 August 2025. The complaint pertained to turbid water flowing onto the public road from the site area.
Parameter	Wastewater
Investigation finding	The complaint was concerned about the turbid water flowing onto the public road from the site area near the Former Yau Ma Tei Police Station [1]. A Black Rainstorm Warning Signal was hoisted on 5 August 2025 from 5:50 am to 5:05 pm on the day the complaint was lodged [2]. Hence, no construction activities were carried out at all site area on that day. Inspections were carried out by the frontline staff on 5 August during the period when the Black Rainstorm Warning Signal was active. No turbid or muddy water seepage from the concerned site area was observed during the inspection [3], and the rainwater that entered the site area was effectively collected within the cofferdam in the site. Since no construction activities were carried out at all site area, and no seepage of turbid water from the site was observed during the inspection on 5 August, no non-compliance was concluded for this complaint case.
Actions taken / to be taken	Mitigation measures have been implemented to prevent water from the site from entering the public road during adverse weather. The following additional mitigation measures have been taken: • Conducting site inspection to ensure wastewater from construction works is directed to the wastewater treatment tanks and discharged after treatment on site according to the Water Pollution Control Ordinance • Assigning personnel for any emergency situations during the adverse weather • Providing stand-by pumps or other equipment for emergency situations • Providing additional sandbag bunding at the bottom part of the hoarding where necessary
Remarks (Shown in next pages)	1. Layout of the concerned site area 2. Weather information, 5 August 2025 3. Photos of the area concerned during inspection on 5 August 2025

Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	18 August 2025	

Remark 1: Layout of the concerned site area

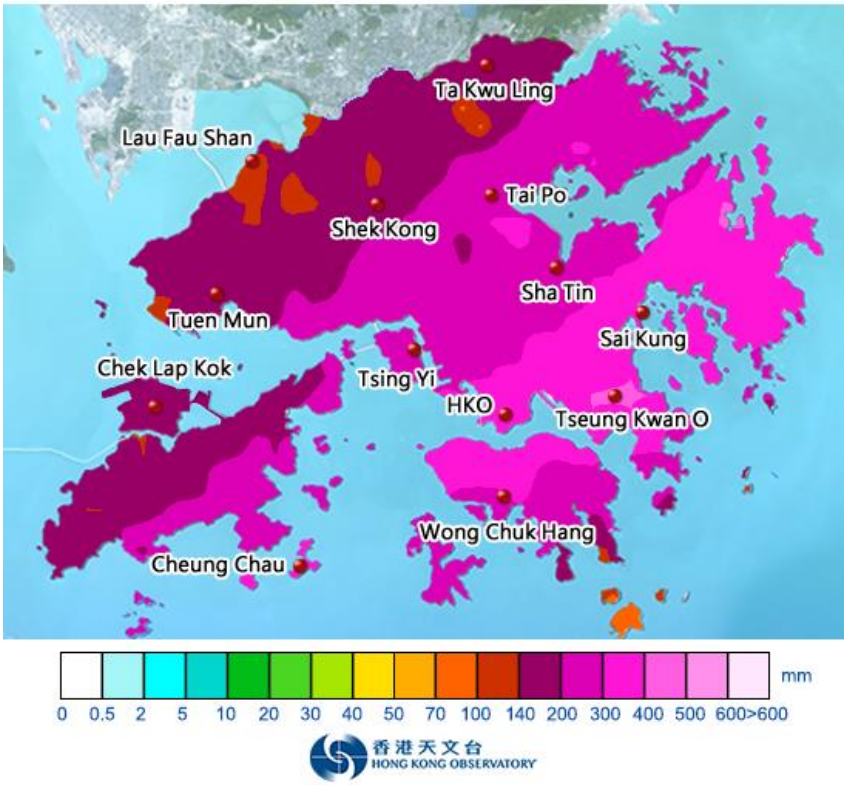
Remark 2: 1. Weather information, 5 August 2025

Weather Warning and Signals Record(2025-08-05)

Rainstorm Warnings

	Warning and Signals	Start Time		End Time	
		hh:mm	dd/mon/yyyy	hh:mm	dd/mon/yyyy
Black 黑	Black Rainstorm Warning Signal	23:45	04/Aug/2025	02:10	05/Aug/2025
Red 紅	Red Rainstorm Warning Signal	02:10	05/Aug/2025	03:00	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	03:00	05/Aug/2025	05:20	05/Aug/2025
Red 紅	Red Rainstorm Warning Signal	05:20	05/Aug/2025	05:50	05/Aug/2025
Black 黑	Black Rainstorm Warning Signal	05:50	05/Aug/2025	17:05	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	17:05	05/Aug/2025	18:15	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	22:55	05/Aug/2025	00:30	06/Aug/2025

Total rainfall on 5-Aug-2025 (based on raingauges and radar data)



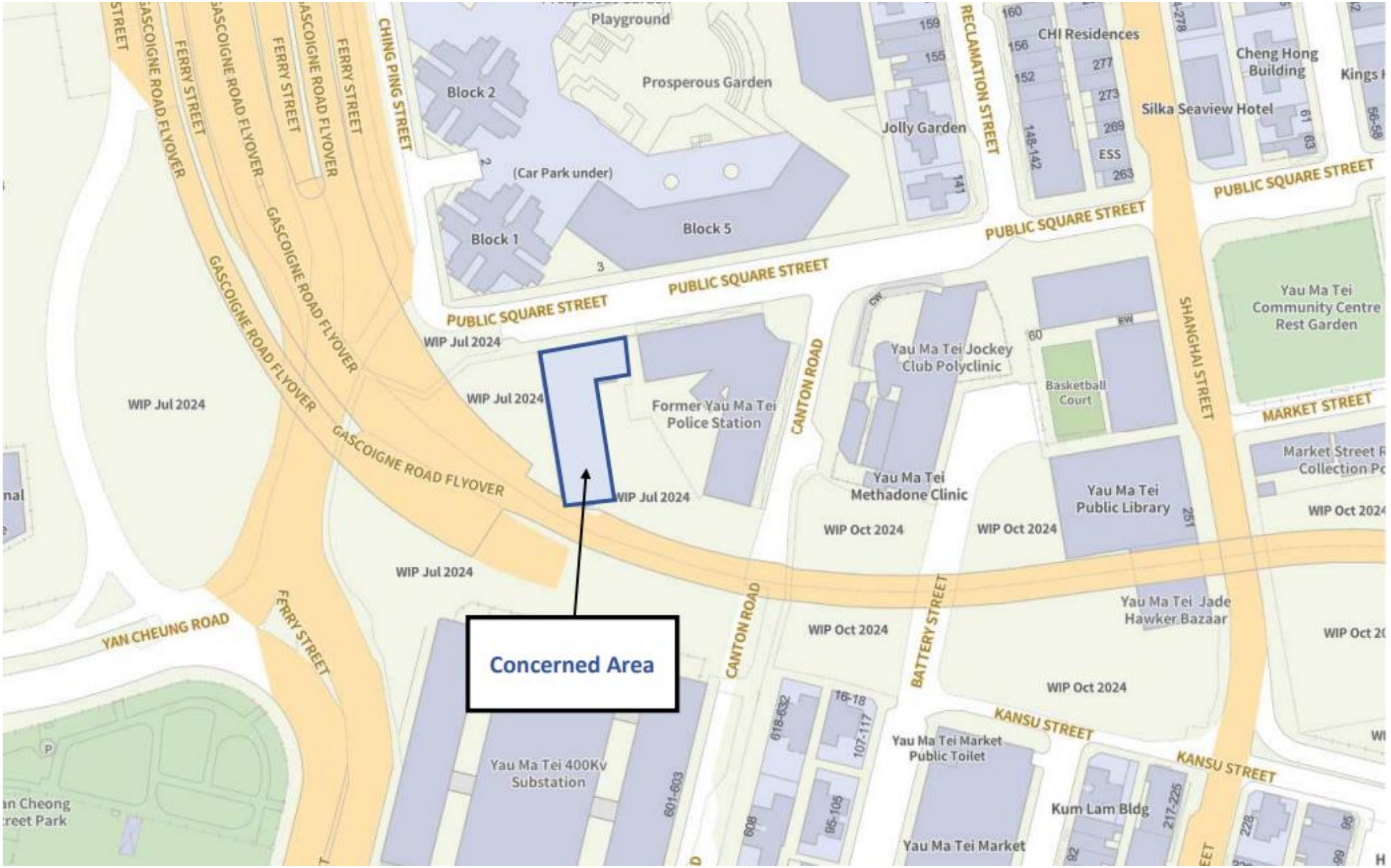
Remark 3: Photos of the area concerned during inspection on 5 August 2025

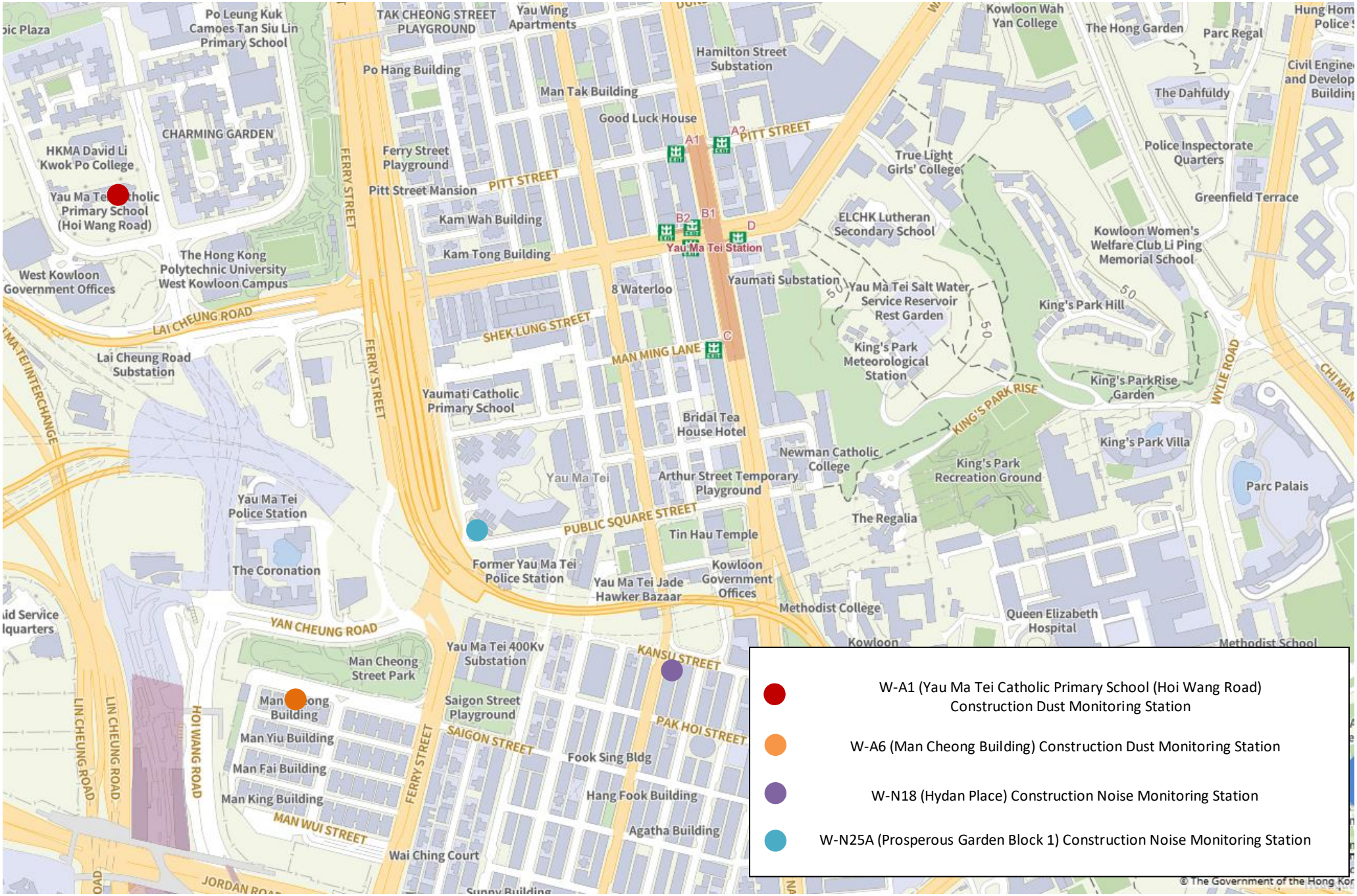
Interim Report on Environmental Complaint

Project	Central Kowloon Route, Yau Ma Tei East Section
Complaint Code	EC175-CKRYMTE20250815_001
Complaint description	The complaint case made on 13 August 2025 was referred to the Contractor by the EPD and subsequently to the Environmental Team (ET) on 15 August 2025, about the dust emissions and noise impacts from the site area at the Former Yau Ma Tei Police Station.
Parameter	Air Quality, Construction Noise
Investigation finding	The complaint was concerned about the dust and construction noise emitted from the site area at the rooftop of the Former Yau Ma Tei Police Station [1]. According to site records and from the photo provided by the complainant, the major construction work conducted at the concerned area was concrete breaking work. The work was carried out at the rooftop from 9:00 am to 11:30 am, and from 1:30 pm to 5:30 pm on the complaint date, which was conducted within the permitted hours (i.e. 07:00-19:00 on normal weekdays) under the stipulated Noise Control Ordinance (NCO) requirement. Two hand-held breakers were the only Powered Mechanical Equipment (PMEs) used for the construction works at the concerned area on 13 August 2025. As confirmed by the contractor, proper dust and noise mitigation measures were implemented on site [2] in accordance with the approved Environmental Monitoring & Audit (EM&A) manual and recommendations outlined in the Environmental Impact Assessment (EIA) Report. The mitigation measures include carrying out the noisy work at less-sensitive hours (i.e. after 9:00 am), operating PMEs intermittently to minimize continuous noise impact, avoiding the simultaneous operation of all PMEs as far as possible, and wetting the work area before conducting breaking works. Regular air quality and noise impact monitoring was conducted on 11 August 2025. No exceedance of action or limit levels in construction dust monitoring [3] was recorded on the monitoring date at the two dust monitoring stations (i.e. W-A1 (Yau Ma Tei Catholic Primary School (Hoi Wang Road)) and W-A6 (Man Cheong Building)) [1]. There was also no exceedance of limit level in construction noise monitoring [3] at the two nearest noise monitoring stations to the Former Yau Ma Tei Police Station (i.e. W-N18 (Hydan Place) and W-N25A (Prosperous Garden Block 1)) [1]. According to the weekly site inspection record on 7 August 2025, no non-compliance in the aspects of air quality or construction noise was observed, which proper site practices and measures were implemented on site.
Actions taken / to be taken	The Contractor has adhered to the requirements stipulated in the EM&A manual and the recommendations outlined in the EIA Report. Mitigation measures have been implemented to minimize the air quality and construction noise impact and reduce potential effects on the public: • Employing water spraying during activities such as loading, unloading, drilling, and other operations likely to generate dust. The frequency of water spraying is regularly reviewed, with adjustments made to increase the spraying frequency when necessary. • Providing vehicle washing facilities at vehicle exit points. • Carrying out site inspection to ensure that all PMEs are well maintained and are functioning properly to avoid excessive noise generation. • Switching off unused machinery and equipment to minimize noise generation. • Providing induction/ refresher training and tool-box talks of proper implementation of construction dust and noise control measures to frontline staff.

Remarks (Shown in next pages)	1. Layout of the concerned area and the locations of the relevant construction dust and noise monitoring stations 2. Site photo of dust mitigation measure 3. Results of construction dust and noise impact monitoring on 11 August 2025	
Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	21 August 2025	

Remark 1: Layout of the concerned area and the locations of the relevant construction dust and noise monitoring stations




W-A1 (Yau Ma Tei Catholic Primary School (Hoi Wang Road) Construction Dust Monitoring Station
W-A6 (Man Cheong Building) Construction Dust Monitoring Station
W-N18 (Hydan Place) Construction Noise Monitoring Station
W-N25A (Prosperous Garden Block 1) Construction Noise Monitoring Station
Po Leung Kuk Camoes Tan Siu Lin Primary School
TAK CHEONG STREET PLAYGROUND
Yau Wing Apartments
Kowloon Wah Yan College
The Hong Garden
Parc Regal
Hung Hom Police
Hamilton Street Substation
Po Hang Building
Man Tak Building
Good Luck House
Civil Engineering and Development Building
The Dahfuldy
CHARMING GARDEN
HKMA David Li Kwok Po College
Ferry Street Playground
PITT STREET
Police Inspectorate Quarters
True Light Girls' College
Yau Ma Tei Catholic Primary School (Hoi Wang Road)
Pitt Street Mansion
Greenfield Terrace
Kam Wah Building
ELCHK Lutheran Secondary School
Kowloon Women's Welfare Club Li Ping Memorial School
Kam Tong Building
Yau Ma Tei Station
The Hong Kong Polytechnic University West Kowloon Campus
West Kowloon Government Offices
8 Waterloo
Yaumati Substation
Yau Ma Tei Salt Water Service Reservoir Rest Garden
King's Park Hill
LAI CHEUNG ROAD
SHEK LUNG STREET
MAN MING LANE
Lai Cheung Road Substation
King's Park Meteorological Station
King's ParkRise Garden
KING'S PARK RISE
WYLIE ROAD
Yaumati Catholic Primary School
Bridal Tea House Hotel
King's Park Villa
Newman Catholic College
King's Park Recreation Ground
Parc Palais
Yau Ma Tei
Arthur Street Temporary Playground
Yau Ma Tei Police Station
PUBLIC SQUARE STREET
The Regalia
Tin Hau Temple
The Coronation
Former Yau Ma Tei Police Station
Yau Ma Tei Jade Hawker Bazaar
Kowloon Government Offices
Methodist College
Queen Elizabeth Hospital
YAN CHEUNG ROAD
Yau Ma Tei 400Kv Substation
KANSU STREET
Man Cheong Street Park
Saigon Street Playground
PAK HOI STREET
SAIGON STREET
Fook Sing Bldg
Man Yiu Building
Man Fai Building
Hang Fook Building
Man King Building
Agatha Building
MAN WUI STREET
Wai Ching Court
HOI WANG ROAD
LIN CHEUNG ROAD
FERRY STREET
JORDAN ROAD
© The Government of the Hong Kong

Remark 2: Site photo of dust mitigation measure

Remark 3: Results of construction dust and noise impact monitoring on 11 August 2025

Date	Monitoring Station		Weather	1-hour TSP (μg/m³)							
				Start Time	-	End Time	1st Hour	2nd Hour	3rd Hour	Action Level	Limit Level
11/8/2025	W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Fine	14:44	-	17:44	35	37	30	319	500
11/8/2025	W-A6	Man Cheong Building	Fine	13:30	-	16:30	35	35	40	306	500

Date	Monitoring Station		Weather	24-hour TSP (μg/m³)					
				Initial Time	-	Final Time	Measured Level	Action Level	Limit Level
11/8/2025	W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Fine	14:44 (11/8/2025)	-	14:44 (12/8/2025)	34	167	260
11/8/2025	W-A6	Man Cheong Building	Fine	13:30 (11/8/2025)	-	13:30 (12/8/2025)	29	166	260

Date	Monitoring Station		Weather	Start Time	-	End Time	L_{eq} (dB)	L_{10}(dB)	L_{90}(dB)	Limit Level (dB)
11/8/2025	W-N18	Hydan Place	Fine	14:00	-	14:30	69.6	72.4	66.0	75
11/8/2025	W-N25A	Prosperous Garden Block 1	Fine	14:48	-	15:18	72.6	75.1	66.1	75

Interim Report on Environmental Complaint

<table>
<tr><td>Project</td><td>Central Kowloon Route, Yau Ma Tei East Section</td></tr>
<tr><td>Complaint Code</td><td>EC176-CKRYMTE20250819_001.</td></tr>
<tr><td>Complaint description</td><td>The complaint was forwarded to the Contractor by the EPD and to the Environmental Team (ET) on 19 August 2025. The complaint pertained to construction noise from the site area at Gascoigne Road Flyover during nighttime hours on 15 August 2025.</td></tr>
<tr><td>Parameter</td><td>Construction Noise</td></tr>
<tr><td>Investigation finding</td><td>The complaint referred to the construction noise received by the complainant during nighttime hours. Nighttime work was carried out at Working Zone D at Gascoigne Road Flyover [1] for the construction of noise enclosure. This work activity was conducted from 7:00 pm on 15 August 2025 to 6:00 am on 16 August 2025.

For construction works undertaken within restricted hours, Construction Noise Permits (CNP) have been applied by the Contractor. The work conducted at nighttime on 15 August 2025 was covered under a valid CNP with no. GW-RE0871-25 granted by the EPD. An advance notification of CNP [2] had been submitted to the EPD via the online system within 14 days but not fewer than 48 hours before the commencement of work.

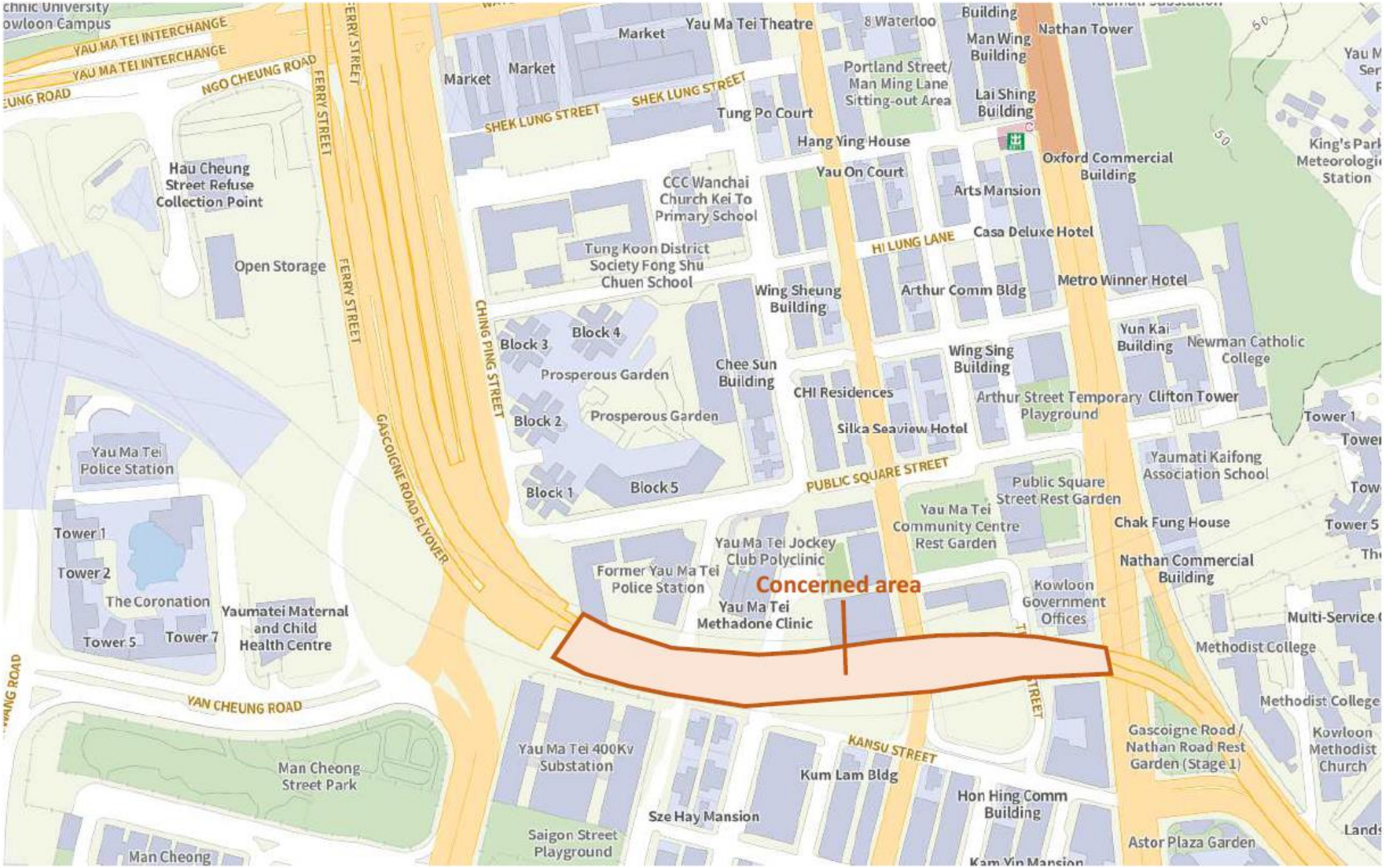
The Powered Mechanical Equipment (PMEs) used for works conducted at nighttime and the prescribed construction works carried out during the period included the following:
<table>
<tr><th>Working Zone</th><th>PME(s)</th></tr>
<tr><td rowspan="3">D</td><td>• 1 Cherry Picker
• 1 Lorry, with crane, 5.5 tonne <gross vehicle weight ≤38 tonne</td></tr>
<tr><td>Prescribed Construction Work</td></tr>
<tr><td>• Hammering</td></tr>
</table>
According to the CNPs, the above PMEs were authorized to operate within their respective Working Zone during the permitted hours specified in the CNP. The Contractor confirmed that noise mitigation measures were implemented on-site. These measures included covering the power generating parts of the PMEs with acoustic sheds and switching off all idling PMEs, in compliance with the requirements outlined in CNP [3]. All PMEs that were used on site were properly functioning. For hammering works conducted at nighttime, plastic hammer with non-metallic tips were utilized, as required by the CNP [3].

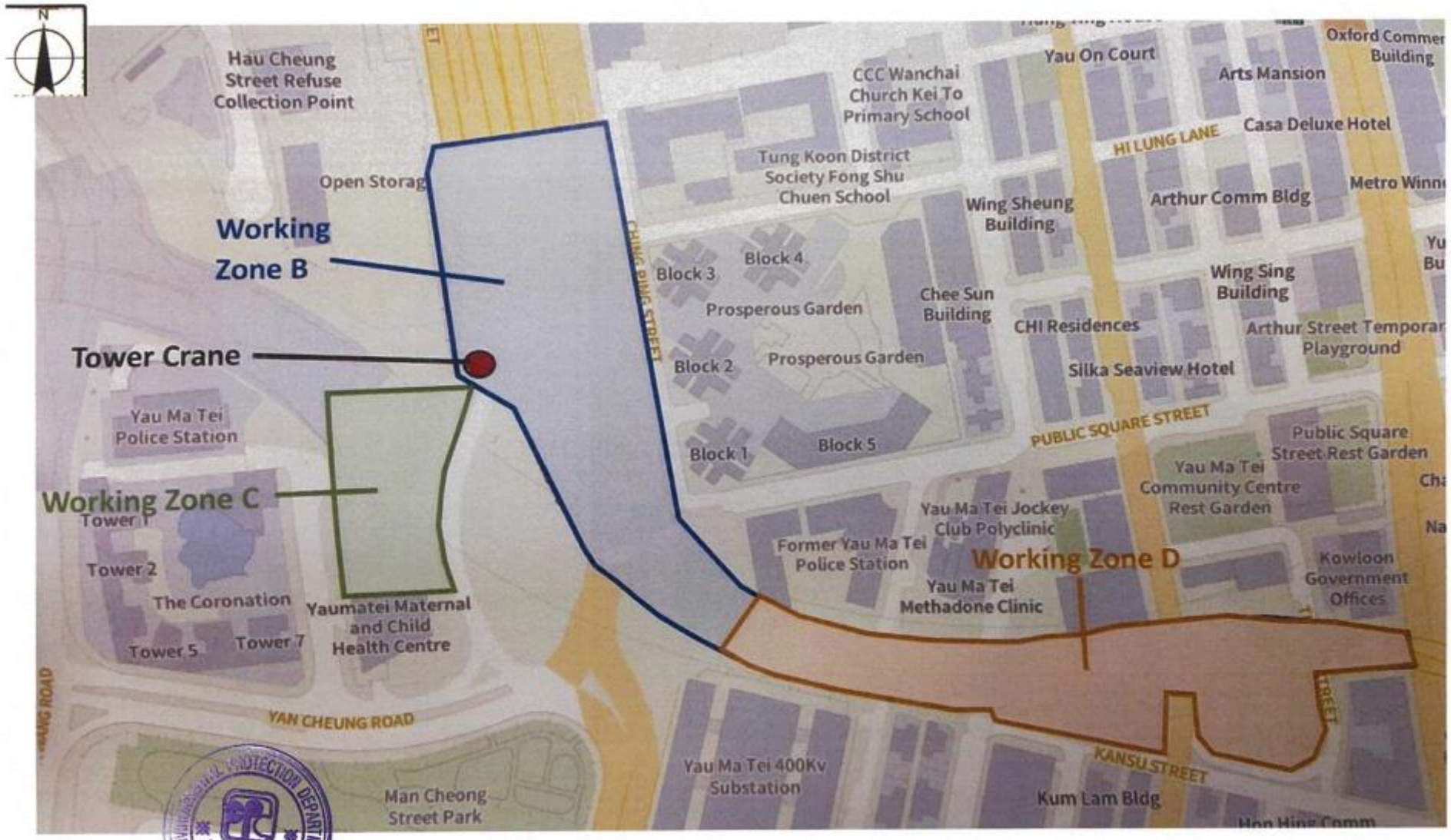
Upon consideration of the fulfillment of the stipulated requirements by the contractor for the approved Environmental Monitoring & Audit (EM&A) manual and the valid CNP, it is concluded that there was no non-compliance regarding construction noise impact in the Project's work conducted at nighttime on 15 August 2025.</td></tr>
<tr><td>Actions taken / to be taken</td><td>The Contractor has adhered to the stipulated requirements outlined in the EM&A manual and the valid CNP. Mitigation measures have been implemented to minimize any nuisance to the public.

The following additional remediation measures were undertaken:
• Arranging works to be completed as soon as possible to minimize disruption caused to the public
• Conducting site inspections to ensure all PMEs are well-maintained and properly functioning to avoid excessive noise
• Providing training to workers on the careful operation of PMEs to minimize noise impacts</td></tr>
</table>

Remarks (Shown in next pages)	1. Layout of the concerned site area & Working Zone Layout of CNP GW-RE0871-25 2. Record of Advance Notification to EPD via online system 3. Site photos of noise mitigation measures	
Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	22 August 2025	

Remark 1: Layout of the concerned site area & Working Zone Layout of CNP GW-RE0871-25





環境保護署 Environmental Protection Department	噪音管制監督 Noise Control Authority	圖例 Legend 建築地盤 Construction Site
建築噪音許可證編號 GW-RE0871-25 的附圖 2 Plan 2 attached to Construction Noise Permit No. GW-RE0871-25		比例 Scale

Remark 2: Record of Advance Notification to EPD via online system

Outlook

[Acknowledgement] GW-RE0871-25 Yau Tsim Mong

From Online Submission for Advance Notification of CNPs <admin@nco-emergencywork.hk>
Date Fri 8/8/2025 8:25 AM
To Lee Wan Chung, Leo <leo.lee@buildking.hk>

This email acknowledges your advance notification submitted at 08/08/2025 on 08:24.
Information appended below:

CNP No. :	GW-RE0871-25
Date and time of receiving notification :	08/08/2025 08:24:48
Notification Ref :	GW-RE0871-25-016
CNP holder :	Build King - SK ecoplant Joint Venture
Location of Work :	
- District :	Yau Tsim Mong
- Affected TPUs :	221,225,226,228,229,252,253

Details of work :

Details Location of Work	Date & Time	Details of work program
Road Sections of Ferry Street (from Waterloo Road to Kansu Street) to Road Sections of West Kowloon Corridor and Gascoigne Road Flyover (from Boundary Street to Wylie Road), Kowloon	Start:: 15/08/2025 19:00 End:: 16/08/2025 07:00	1. TTA Implementation 2. Construction Activities 3. Road Reinstatement

Company Details (Contact) :	
Name of company conducting the work :	Build King - SK ecoplant Joint Venture
Name & title of responsible person :	Bosco Lee/ Construction Manager
Fax number :	
Telephone number :	98363402
Email :	leo.lee@buildking.hk

Remark 3: Site photos of noise mitigation measures

Interim Report on Environmental Complaint

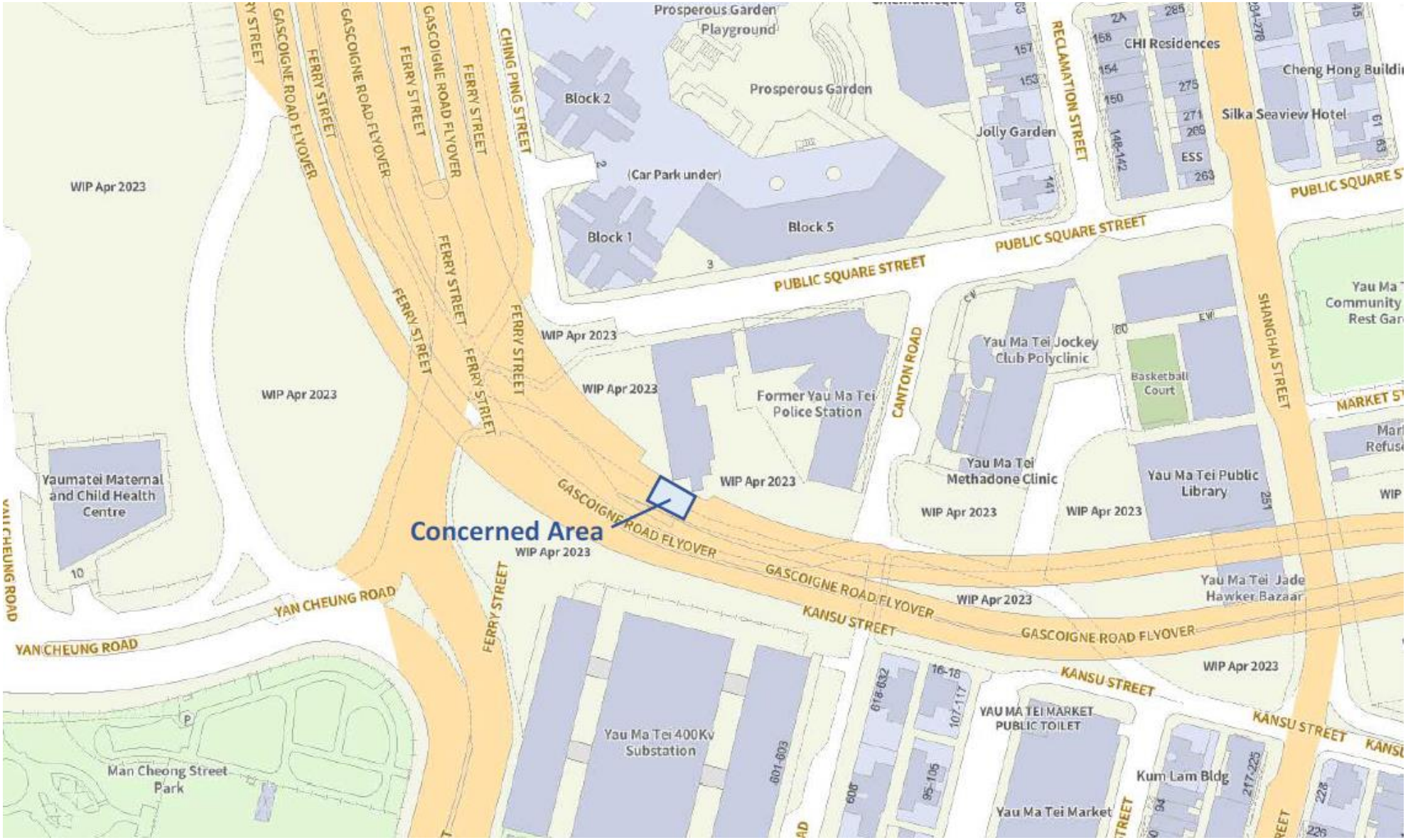
Project	Central Kowloon Route, Yau Ma Tei East Section
Complaint Code	EC177-CKRYMTE20250819_002
Complaint description	The complaint case made on 8 August 2025 was referred to the Contractor by the EPD and subsequently to the Environmental Team (ET) on 19 August 2025. It was concerned with the dust emissions and noise impacts from the site area near Prosperous Garden Block 1. No specified date of complaint was raised in the complaint.
Parameter	Air Quality, Noise Impact
Investigation finding	The complaint raised concerns about the impact of dust and noise from the site area near Prosperous Garden Block 1. The letter is a general complaint in which no specific date or time was mentioned. Five matters of concern are referred to in the complaint, including: the location of impact noise monitoring, the noise generated from vehicles when passing through the movement joint of flyover, the daytime noise, the nighttime noise, and the air quality. <u>Location of Impact Noise Monitoring</u> The impact noise monitoring locations are selected according to Section 6.4 of the approved Environmental Monitoring & Audit (EM&A) manual. The locations are chosen based on the following criteria: • All locations close to the major site activities which are likely to have noise impacts; • Close to the most affected existing noise sensitive receivers (NSRs); and • For monitoring locations located in the vicinity of the sensitive receivers, care should be taken to cause minimal disturbance to the occupants during monitoring. Major construction activities are being conducted at the site areas at Kansu Street and Ching Ping Street. Considering the overall noise impacts of the site areas and the proximity to the most affected NSRs, the current monitoring station W-N25A at Prosperous Garden Block 1[1], is considered a valid monitoring location. <u>Noise Generated from Vehicles when Passing through the Movement Joint of Flyover</u> As confirmed by the contractor, the project team continues to review the status of the movement joint at the concerned area of Gascoigne Road Flyover [2] and conduct repairs and maintenance as necessary to avoid noise generation from vehicles passing over it. <u>Daytime Noise</u> According to the site record, daytime works not requiring a Construction Noise Permit (CNP) were conducted within the permitted hours (i.e. 07:00-19:00 on normal weekdays) under the stipulated Noise Control Ordinance (NCO) requirement. As confirmed by the contractor, noise mitigation measures [3] were implemented at the site with reference to the approved EM&A manual and the Construction Noise Mitigation Measures Plan (CNMMP). These mitigation measures will continue to be reviewed and strengthened where appropriate. Regular construction noise impact monitoring was conducted as required in the EM&A Manual. A review of the monitoring data of the recent months (24, 30 July 2025 and 6, 11, 14 August 2025) showed no exceedance of limit level in construction noise monitoring [4] at W-N25A (i.e. Prosperous Garden Block 1) noise monitoring station [1]. According to the weekly site inspection records from the recent months (24, 31 July and 7, 14 August 2025), no non-compliance with the aspect of construction noise was observed in general. A deficiency was identified on 14 August 2025 during weekly site inspection, where noise barrier canvas was recommended to be deployed for the air compressor at Zone 3. The observation was rectified by the Contractor promptly on the same day [5]. <u>Nighttime Noise</u> For nighttime works undertaken within restricted hours (i.e. 00:00 - 07:00 and 19:00 – 24:00 any day), CNPs have been applied by the Contractor. The existing works conducted are covered by a valid CNP with no. GW-RE0871-25 and advance notifications of CNP

	were submitted to the EPD via the online system within 14 days but not fewer than 48 hours before the commencement of work. As confirmed by the contractor, noise mitigation measures [3], including erecting movable noise barriers, covering the power generating parts of the PMEs with acoustic sheds, and switching off all idling PMEs, were implemented on site to fulfill the requirements in the EM&A Manual and the valid CNPs. <u>Air Quality</u> The Contractor confirmed that proper dust mitigation measures [3] were implemented on site in accordance with the approved EM&A manual and recommendations outlined in the Environmental Impact Assessment (EIA) Report to reduce the dust impacts on the air sensitive receivers (ASRs). Regular air quality monitoring has been conducted for the captioned project. No exceedance of action or limit levels in construction dust monitoring [4] was recorded on monitoring dates at the two dust monitoring stations (i.e. W-A1 (Yau Ma Tei Catholic Primary School (Hoi Wang Road)) and W-A6 (Man Cheong Building)) [1] over the recent months (24, 30 July 2025 and 6, 11, 14 August 2025). According to the weekly site inspection records from the recent months (24, 31 July and 7, 14 August 2025), no non-compliance in the air quality records was observed. Proper site practices and mitigation measures were implemented on site. The Project Team will continue monitoring the effectiveness of the air quality mitigation measures and enhance them when necessary.
Actions taken / to be taken	The Contractor has adhered to the requirements stipulated in the EM&A manual and the recommendations outlined in the EIA Report. Mitigation measures have been implemented to minimize the air quality and construction noise impact and reduce potential effects on the public: • Employing water spraying during activities such as loading, unloading, drilling, and other operations likely to generate dust. The frequency of water spraying is regularly reviewed, with adjustments made to increase the spraying frequency when necessary. • Providing vehicle washing facilities at vehicle exit points. • Carrying out site inspection to ensure that all PMEs are well maintained and are functioning properly to avoid excessive noise generation. • Switching off unused machinery and equipment to minimize noise generation. • Arranging works to be completed as soon as possible to minimize disruption caused to the public • Providing induction/ refresher training and tool-box talks of proper implementation of construction dust and noise control measures to frontline staff.

Remarks (Shown in next pages)	1. Locations of the construction dust and the W-N25A construction noise impact monitoring stations 2. Layout of the concerned area of the movement joint of flyover 3. Site photos of dust and noise mitigation measures 4. Results of construction dust and noise impact monitoring on 24, 30 July and 6, 11, 14 August 2025 5. Rectification record for the deficiency observed on 14 August 2025	
Prepared by ET (Acuity Sustainability Consulting Limited)	Natalie Wong	
Reviewed by ETL (Acuity Sustainability Consulting Limited)	Kevin Li	
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	
Date	24 August 2025	

Remark 1: Locations of the construction dust and the W-N25A construction noise impact monitoring stations

Remark 2: Layout of the concerned area of the movement joint of flyover



Remark 3: Site photos of dust and noise mitigation measures

	
Noise Mitigation Measures at Daytime	**Noise Mitigation Measures at Nighttime**


Dust Mitigation Measures

Remark 4: Results of construction dust and noise impact monitoring on 24, 30 July and 6, 11, 14 August 2025

Date	Monitoring Station		Weather	1-hour TSP (μg/m³)							
				Start Time	-	End Time	1st Hour	2nd Hour	3rd Hour	Action Level	Limit Level
24/7/2025	W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Sunny	11:00	-	14:00	40	42	46	319	500
30/7/2025			Sunny	09:33	-	12:33	71	80	70		
6/8/2025			Cloudy	09:18	-	12:18	26	18	22		
11/8/2025			Fine	14:44	-	17:44	35	37	30		
14/8/2025			Cloudy	13:30	-	16:30	19	13	14		

Date	Monitoring Station		Weather	1-hour TSP (μg/m³)							
				Start Time	-	End Time	1st Hour	2nd Hour	3rd Hour	Action Level	Limit Level
24/7/2025	W-A6	Man Cheong Building	Sunny	10:32	-	13:32	44	47	46	306	500
30/7/2025			Sunny	11:03	-	14:03	66	67	64		
6/8/2025			Cloudy	13:12	-	16:12	35	43	43		
11/8/2025			Fine	13:30	-	16:30	35	35	40		
14/8/2025			Cloudy	14:25	-	17:25	21	24	18		

*Remark: The air and noise monitoring work on 5 August 2025 was rescheduled to 6 August 2025 due to the Black Rainstorm Warning Signal hoisted on 5 August 2025

Date	Monitoring Station		Weather	24-hour TSP (μg/m³)				
				Initial Time	-	Final Time	Measured Level	Action Level	Limit Level
24/7/2025	W-A1	Yau Ma Tei Catholic Primary School (Hoi Wang Road)	Sunny	11:00 (24/7/2025)	-	11:00 (25/7/2025)	85	167	260
30/7/2025			Sunny	09:33 (30/7/2025)	-	09:33 (31/7/2025)	63		
6/8/2025			Cloudy	09:18 (6/8/2025)	-	09:18 (7/8/2025)	35		
11/8/2025			Fine	14:44 (11/8/2025)	-	14:44 (12/8/2025)	34		
14/8/2025			Cloudy	13:30 (14/8/2025)	-	13:30 (15/8/2025)	45		

Date	Monitoring Station		Weather	24-hour TSP (μg/m³)				
				Initial Time	-	Final Time	Measured Level	Action Level	Limit Level
24/7/2025	W-A6	Man Cheong Building	Sunny	10:32 (24/7/2025)	-	10:32 (25/7/2025)	93	166	260
30/7/2025			Sunny	11:03 (30/7/2025)	-	11:03 (31/7/2025)	36		
6/8/2025			Cloudy	13:12 (6/8/2025)	-	13:12 (7/8/2025)	49		
11/8/2025			Fine	13:30 (11/8/2025)	-	13:30 (12/8/2025)	29		
14/8/2025			Cloudy	14:25 (14/8/2025)	-	14:25 (15/8/2025)	44		

*Remark: The air and noise monitoring work on 5 August 2025 was rescheduled to 6 August 2025 due to the Black Rainstorm Warning Signal hoisted on 5 August 2025

Date	Monitoring Station		Weather	Start Time	-	End Time	L_{eq} (dB)	L_{10}(dB)	L_{90}(dB)	Limit Level (dB)
24/7/2025	W-N25A	Prosperous Garden Block 1	Sunny	09:08	-	09:38	70.8	73.9	67.5	75
30/7/2025			Sunny	09:11	-	09:41	71.3	74.1	68.4	
6/8/2025			Cloudy	14:36	-	15:06	73.4	75.2	71.6	
11/8/2025			Fine	14:48	-	15:18	72.6	75.1	66.1	
14/8/2025			Cloudy	14:15	-	14:45	66.9	70.1	64.2	

*Remark: The air and noise monitoring work on 5 August 2025 was rescheduled to 6 August 2025 due to the Black Rainstorm Warning Signal hoisted on 5 August 2025

Remark 5: Rectification record for the deficiency observed on 14 August 2025

At Zone 3, noise barrier canvas should be deployed for the air compressor to minimise noise impact.	At Zone 3, noise barrier canvas was deployed for the air compressor to minimise noise impact.
	

Appendix R
Weather Warning and Signals Record

香港天文台 HONG KONG OBSERVATORY

5 Sep 2025 (Fri) 32.5°C 62% (17:20) 繁 简 Text Size

Weather | Climate | Geophysics | Astronomy and Time | Radiation Monitoring | Community | Learning | International & Regional Cooperation | Media and News | e-Services | About Us

> Climate > Climate Information Service > HKO Warnings/Signals Database

Choose Date:
2025-08-05
Enter Today Yesterday

Weather Warning and Signals Record(2025-08-05)

Rainstorm Warnings

	Warning and Signals	Start Time		End Time	
		hh:mm	dd/mon/yyyy	hh:mm	dd/mon/yyyy
Black 黑	Black Rainstorm Warning Signal	23:45	04/Aug/2025	02:10	05/Aug/2025
Red 紅	Red Rainstorm Warning Signal	02:10	05/Aug/2025	03:00	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	03:00	05/Aug/2025	05:20	05/Aug/2025
Red 紅	Red Rainstorm Warning Signal	05:20	05/Aug/2025	05:50	05/Aug/2025
Black 黑	Black Rainstorm Warning Signal	05:50	05/Aug/2025	17:05	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	17:05	05/Aug/2025	18:15	05/Aug/2025
Amber 黃	Amber Rainstorm Warning Signal	22:55	05/Aug/2025	00:30	06/Aug/2025