Vol. 4 of 5

EP-457/2013/D

Central Kowloon Route

Yau Ma Tei West

Contract No. HY/2014/20

&

Buildings, Electrical and Mechanical Works

Contract No. HY/2019/13

(Yau Ma Tei West area)

&

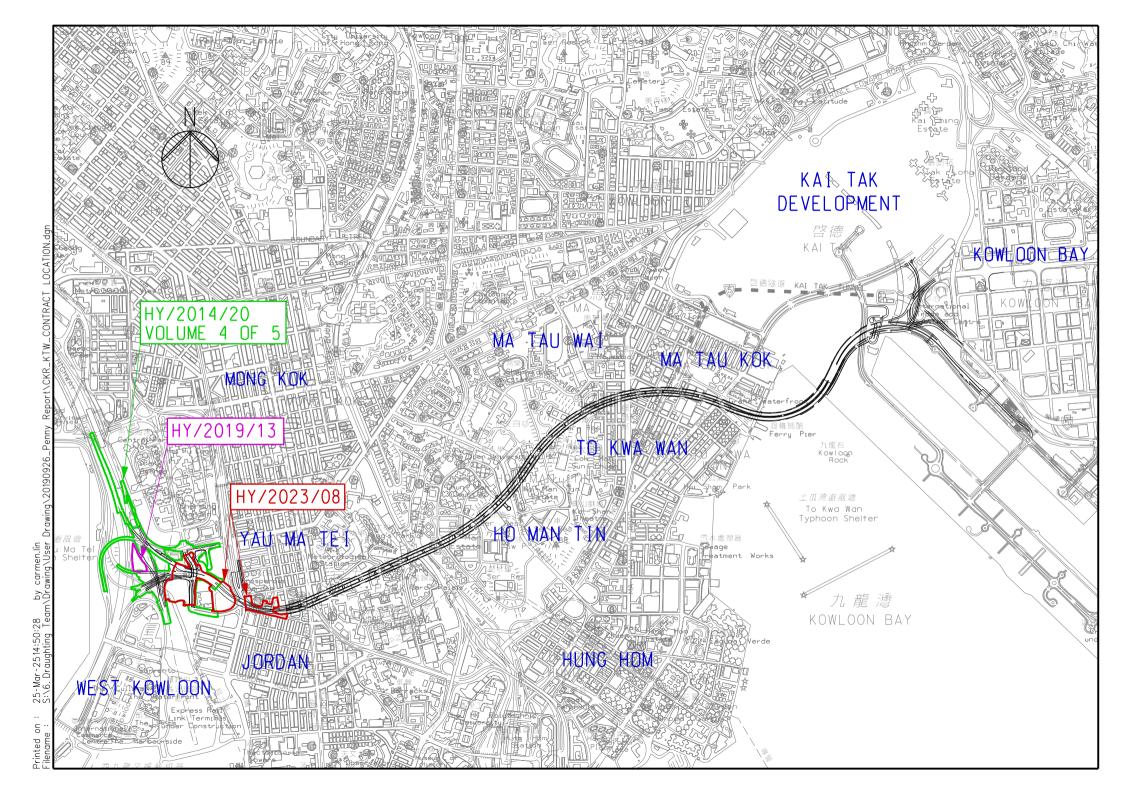
Central Kowloon Route

Remaining Works

Contract No. HY/2023/08

(Yau Ma Tei West area)

September 2025



Central Kowloon Route Yau Ma Tei West Contract No. HY/2014/20





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Yau Ma Tei West (HY/2014/20)	
Reference Document/Plan		
Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.80 (September 2025)	
Date of Report:	09 October 2025 (Rev. 0.1)	
Date received by IEC:	10 October 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

Mondy 20.

Date: 10 October 2025

Independent Environmental Checker

Our ref: 0436942 IEC Verification Cert YMTW Monthly EM&A Rpt No.80.docx





Build King – SK Ecoplant Joint Venture

Central Kowloon Route Contract HY/2014/20

Section of Yau Ma Tei West Section

Monthly EM&A Report No. 80

(Period from 1 to 30 September 2025)

Rev. 0.1

(09 October 2025)

	Name	Signature
Prepared by	Yoyo S.Y. Mok (Assistant Environmental Consultant)	40/9
Checked & Reviewed by	Y.H. LAW (Senior Environmental Consultant)	Malan
Approved & Certified by	Kevin W. M. Li (Environmental Team Leader)	K

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EXECUTIVE SUMMARY

- Build King SK ecoplant Joint Venture ("Contractor") commenced the construction works A.1 of Highway Department (HyD) Central Kowloon Route Contract No. HY/2014/20 - Section of Yau Ma Tei West ("The Project") on 12 February 2019. This is the 80th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 September 2025 to 30 September 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

- Slip Road A Roadworks including remaining Noise Barrier C06 & V09 Installation at Portion
- Slip Road D Road Works incl. VO at Portion 1B
- Road Works at Slip Road E & F (VO after opening Bridge B2/C2) at Portion 1A & 1B
- Emergency Vehicle Access (Variation Order) at Portion 1F
- Emergency Access Road connecting to Depressed Road at Portion 1F
- Improvement Works at Junction J4 at Lin Cheung Road cor. Jordan Road
- Outstanding Works at Junction J2 at Portion 1D
- Outstanding Works at Junction J5 VO (900mm Storm Drain and Manhole Modification) at Portion 1D
- Staircase A / Lift A at Segment 5 at Portion 1D
- Staircase B / Lift B at Segment 8 at Portion 1D
- 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	6 times
Construction dust (24-hour TSP) monitoring	
W-A1	6 times
W-A6	6 times
Construction dust (1-hour TSP) monitoring	
W-A1 W-A6	18 times

- Bi-weekly inspection of the implementation of landscape and visual mitigation measures A.4 was conducted on 11 and 25 September 2025. Details of the audit findings and implementation status are presented in Section 5.
- Joint weekly site inspections were conducted by representatives of the Contractor, Engineer A.5 and Contractor's ET on 4, 11, 17 and 25 September 2025. A joint site inspection with IEC was undertaken on 17 September 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 One action Level of construction noise was triggered during the reporting month. 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 one environmental complaint was 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.
- A.9 No notification of summon or prosecution was received in this reporting period.
- A.10 A summary of the construction activities provided by Main Contractor in the next reporting month is listed below:

Construction Activities to be undertaken

- Slip Road A Road works at Portion 1E
- Slip Road D Road works incl. VO at Portion 1B
- Road Works at Slip Road E & F (VO after opening of Bridge B2/C2) at Portion1A & 1B
- Improvement Works at Junction J4 at Lin Cheung Rd cor.Jordan Road
- Outstanding Works at Junction J2 at Portion 1D
- Outstanding Works at Junction J5 VO (900mm Storm Drain and Manhole Modification) at Portion 1D
- Staircase A / Lift A construction at Portion 1D
- Staircase B / Lift B construction at Portion 1D

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 December 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021.
- 1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2014/20 Section of Yau Ma Tei West (YMTW) covers part of the construction activities located at Yau Ma Tei under the EP which includes:
 - Section of Yau Ma Tei West
 - i. Construction of an approximately 250m long Depressed Road at the western tunnel portal of CKR;
 - ii. Construction of a Landscaped Deck structure above the western tunnel portal and Hoi Wang Road, including the associated civil engineering provisions and coordination with CKR-RMW contractor in respect of the remaining works for the Landscaped Deck;
 - iii. Construction of an underground Ventilation Adit connecting the tunnel ventilation system with the Yau Ma Tei Ventilation Building;
 - iv. Construction of approach roads and slip roads, including bridges and other associated structures, connecting CKR with the existing road networks:
 - Bridge B
 - Bridge C
 - Bridge D
 - Bridge G
 - Road D Structure
 - Box Structure E
 - Diversion of a section of existing drainage box culvert of approximately 215m in length;
 - v. Design and construction of the noise mitigation measures at Slip Roads A, C2, D, E, G, Hoi Wang Road, Lai Cheung Road and Lin Cheung Road;
 - vi. Design and construction of Smoke Ventilation System including Smoke Ventilator System including Smoke Ventilator System, Linear Heat Detection System, Pneumatic Air Supply System, the associated plant rooms, control system and power supply system for part of the Landscaped Deck;
 - vii. Design and construction of the façade system of the Landscaped Deck;
 - viii. Design and construction of lifts at the Landscaped Deck;

- ix. Associated roadworks, footpath, drainage, sewerage, watermains, street lighting, traffic aids, landscaping, electrical and mechanical works, instrument monitoring works and utility diversion works;
- x. Construction of civil engineering provisions and coordination with future tunnel E&M and TCSS contractor for installation of tunnel E&M and TCSS equipment;

The alignment and works area for the Contract No. HY/2014/20 – 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

- Slip Road A Roadworks including remaining Noise Barrier C06 & V09 Installation at Portion 1E
- Slip Road D Road Works incl. VO at Portion 1B
- Road Works at Slip Road E & F (VO after opening Bridge B2/C2) at Portion 1A & 1B
- Emergency Vehicle Access (Variation Order) at Portion 1F
- Emergency Access Road connecting to Depressed Road at Portion 1F
- Improvement Works at Junction J4 at Lin Cheung Road cor. Jordan Road
- Outstanding Works at Junction J2 at Portion 1D
- Outstanding Works at Junction J5 VO (900mm Storm Drain and Manhole Modification) at Portion 1D
- Staircase A / Lift A at Segment 5 at Portion 1D
- Staircase B / Lift B at Segment 8 at Portion 1D
- 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/	Valid	Period		
Notification	From	То	Status	Remark
/Reference No.	110111	10		
Environmental Permit		I = 4 0= 1		
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Li		21.14 2020	77 1' 1	1
WT10002994-2024 Notification of Constructi	30 May 2024	31 May 2029	Valid	ion Dust) Dogulation
438845	31 Oct 2018	End of Project	Notified	lon Dust) Regulation
Chemical Waste Produce		Elia of Floject	Noumed	_
WPN5213-229-B2526-02	8 Sep 2021	End of Project	Valid	_
Billing Account for Dispo			v and	
7032430	2 Nov 2018	End of Project	Valid	_
Disposal of Special Was				
Nil	-	_	-	_
Collection of Public Fill	at Public Fill			
TKO137-HY/2014/20-08	1 Jul 2025	31 Dec 2025	Valid	_
Construction Noise Permi				
GW-RE0663-25	17 Jun 2025	16 Sep 2025	Expired during reporting month	Road Marking for B2C2 Bridge Opening at Argyle Street (Part 1, Part 2)
GW-RE0667-25	17 Jun 2025	16 Sep 2025	Expired during reporting month	Banner Erection for B2C2 Bridge Opening at Argyle Street (Part 1, Part 2, Part 3)
GW-RE0712-25	1 Jul 2025	31 Dec 2025	Valid	General Site Activities
GW-RE0798-25	4 Jul 2025	31 Dec 2025	Valid	General Activities at Sign Gantry G1
GW-RE0814-25	5 Aug 2025	4 Nov 2025	Valid	Re-alignment of West Kowloon Highway Slip Road to Yau Ma Tei for Construction of Sign Gantry G20
GW-RE1074-25	8 Sep 2025	7 Dec 2025	Valid	Junction Improvement Works at Jordan Road and Lin Cheung Road
GW-RE1069-25	4 Sep 2025	30 Sep 2025	Expired during reporting month	Resurfacing Works at Yau Ma Tei Interchange
GW-RE1070-25	5 Sep 2025	30 Nov 2025	Valid	Portal Frame Erection at Hoi Wang Road Southbound
GW-RE1089-25	6 Sep 2025	29 Nov 2025	Valid	Sign Gantry Modification (G16 & G17)
GW-RE1144-25	22 Sep 2025	20 Dec 2025	Valid	Luminance Meter Construction at Junction of Lai Cheung Road and Hoi Wang Road (Stage 1 – 5)

Permit/ Licences/	Valid	Period	Status	Remark
GW-RE1168-25	1 Oct 2025	31 Oct 2025	Valid	Resurfacing Works at Yau Ma Tei Interchange (Extend of GW-RE1069- 25)

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) 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 for the Project

EP Condition (EP-457/2013/D)	Submission	Submission date
Condition 3.4	Monthly EM&A Report (August 2025)	10 September 2025

2.2. Details of the major construction activities undertaken in this reporting period are shown in Table 2.2.

Table 2.2 Summary of the Construction Activities Undertaken during the Reporting Month.

Construction activities undertaken	Remarks on progress
• Slip Road A Roadworks including remaining Noise Barrier C06 & V09 Installation at Portion 1E	•98% completion
• Slip Road D Road Works incl. VO at Portion 1B	•95% completion
• Fence Modification at existing XRL Ventilation Building (VO)	•Completed
• Road Works at Slip Road E & F (VO after opening of Bridge B2/C2) at Portion 1A & 1B	•90% completion
• Emergency Vehicle Access (Variation Order) at Portion 1F	• Completed
• Emergency Access Road connecting to Depressed Road at Portion 1F	• Completed
• Improvement Works at Junction J4 at Lin Cheung Rd cor.Jordan Road	• 50% completion
• Outstanding Works at Junction J2 at Portion 1D	• 60% completion
• Outstanding Works at Junction J5 – VO (900mm Storm Drain and Manhole Modification) at Portion 1D	• 45% completion
• Staircase A / Lift A at Segment 5 at Portion 1D	• 60% completion
• Staircase B / Lift B at Segment 8 at Portion 1D	• 50% 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 of the location of the monitoring stations

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}). L_{eq} (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

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
	LD-5R Digital Dust Indicator	761173	23 Feb 2025
	LD-5R Digital Dust Indicator	761174	23 Feb 2025
1-hour TSP	LD-5R Digital Dust Indicator	851816	23 Feb 2025
	LD-5R Digital Dust Indicator	851817	23 Feb 2025
	LD-5R Digital Dust Indicator	882107	23 Feb 2025
24-hour TSP	TE-5170X High Volume	1084	1 September 2025 and
	Sampler		16 September 2025
	TE-5170X High Volume	1050	1 September 2025 and
	Sampler		16 September 2025
	TE-5025A Calibration Kit	3465	2 Dec 2024

Table 3.1 Construction Dust Monitoring Equipment

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:

Monitoring Equipment	Serial Number	Date of Calibration
Nti XL3 Sound Level Meter	A3A-01229-FO	24 Jul 2025
Nti XL3 Sound Level Meter	A3A-01235-FO	13 May 2025
Rion NC-75 Sound Level	35124528	13 Feb 2025
Calibrator	33124328	13 Feb 2023
Rion NC-75 Sound Level	34724244	11 Jul 2025
Calibrator	34/24244	11 Jul 2023

Table 3.2 Monitoring Equipment Used in Monitoring

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) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° 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 was 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 0.64-1.52m³min⁻¹, which was within the range specified in the EM&A Manual (i.e. 0.6-1.7 m³min⁻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(30mins)} 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.

Air Quality Monitoring Station

W-A1

W-A6

Dust Monitoring
Station

Yau Ma Tei Catholic Primary School (Hoi Wang
Road)

Man Cheong Building

Table 3.3 Location of the Dust Monitoring Stations

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.

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

Table 3.4 Noise Monitoring Stations

- 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.

Impact Duration **Sampling Parameter** Frequency Monitoring 1-hour continuous Dust 1-hour TSP 3 times per six days measurement 24-hour continuous 24-hour TSP Dust Once per six days sampling Leq 30 min, 30-minute continuous Noise Once per week (0700-1900) measurement L10 and L90 as reference.

Table 3.5 Summary of Impact Monitoring Programme

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

- 3.6.1. Air quality impact monitoring for the reporting month was carried out on 01, 06, 12, 18, 25 and 30 September 2025.
- 3.6.2. 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	26 - 82	319	500
W-A6	28 - 78	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	21 - 54	167	260
W-A6	46 - 129	166	260

Noise

3.6.3. 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:

rable 3.9 Coservation at reduce monitoring stations		
Monitoring Station	Major Noise Source	
W-N1A	Nearby traffic	
W-N18	Nearby traffic	
W-N25A	Nearby traffic	
W-P11	Nearby traffic	

Table 3.9 Observation at Noise Monitoring Stations

- 3.6.4. The construction noise impact monitoring for the reporting month was carried out on 01, 06, 12, 18, 25 and 30 September 2025.
- 3.6.5. 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 Monitoring location	Monitoring	D	Range, dB(A)				
	Parameter	L_{eq}	L_{10}	L ₉₀	Action Level	Limit Level#	
	W-N1A*		59.0 – 61.8	59.7 – 64.1	56.6 – 61.1		70dB(A) or 65 dB(A) during examination
Normal working hour	W-N18	T	64.9 – 68.5	67.7 – 71.6	62.4 – 65.5	When one documented	
from 0700- 1900	W-N25A	Leq 30min	69.4 – 71.5	71.5 – 74.6	65.1 – 69.3	complaint is received	75dB(A)#
	W-P11		64.6 – 69.0	66.3 – 71.0	63.4 – 67.6		

Remarks:

- 1. # If works are to be carried out during restricted hours, the conditions in the construction noise permit by the Noise Control Authority have to be followed.
- 2. * No examination was scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

Waste management

3.6.6. 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

	Quantity					
				Non-inert C&D Materials		
Reporting period	Inert C&D Materials (in 'tonnes)	Chemical Waste (in'000 Kg)	Others, e.g. General Refuse disposed at		cycled materials	S
			Landfill (in 'tonnes)	Paper/card board (in '000 Kg)	Plastics (in '000 Kg)	Metals (in '000 Kg)
September 2025	1084.94	0.00	74.69	0.00	0.00	0.00

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 government departments	1823 or from other
		go verimient departments	
Contractor notify ER, ET	and IEC	ER notify Contractor, ET an	nd IEC
Contractor log complair	-	o the complaint database. Constation of complaint	tractor, ER and ET to
If complaint is considere	 d not valid	If complaint is found valid	
ET or ER to reply the con	ER to reply the complainant if necessary Contractor to identify and implement remembers in consultation with the IEC, ET ER.		-
		The ER, ET and IEC to rev	view the effectiveness
		of the Contractor's remed	
		updated situation; ET to monitoring and audit to v	
		necessary, and oversee that	•
		to the complaint do not r	_
		further inspection as necessar	ary.
-	•	tractor to prepare interim repo	
complaint investigation and follow-up actions stipulated above, including the details of the remedial			
measures and additiona		or already taken, for submissio	on to EPD within the
	time trame assi	igned by the EPD	
	time frame assi	igned 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. One action Level of construction noise was triggered during the reporting month. 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 one environmental complaint was 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. 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 4, 11, 17 and 25 September 2025, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 11 and 25 September 2025.
- 5.2. A joint site inspection with IEC were undertaken on 17 September 2025. Minor deficiency was observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Date	Environmental Observations	Follow-up Status	
	1. At Lift B and Gate 12, chemical containers	1. Chemical containers removed at	
4 September 2025	should be placed on drip tray.	Lift B. Chemical at Gate 12 was put	
4 September 2023	2. At Gate 12, faded NRMM label should be	inside drip tray.	
	replaced.	2. NRMM label replaced.	
11 September 2025	 At Lift B, housekeeping should be enhanced. At Gate 12, NRMM label should be provided to 	Housekeeping at Lift B improved. NRMM label displayed.	
	the excavator.	2. INKIMM label displayed.	
	1. At Depressed Road, emptied chemical container	1. The chemical container at	
17 September 2025	should be removed properly.	Depressed Road was removed.	
17 September 2025	2. At Gate 12, caps should be provided for water	2. Caps were provided for water	
	barriers.	barriers.	
	1. At Slip Roda E and Depressed Road, faded		
	NRMM label on the excavators should be	1. NRMM label at Slip Road E &	
25 September 2025	replaced.	Depressed Road replaced.	
	2. At Gate 12, drip tray should be provided to	2. Chemical put inside drip tray.	
	chemical container.		

Table 5.1 Site Observations

- 5.3. The Contractor had rectified all observations identified during environmental site inspections 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. Work to be undertaken in the next reporting month are:

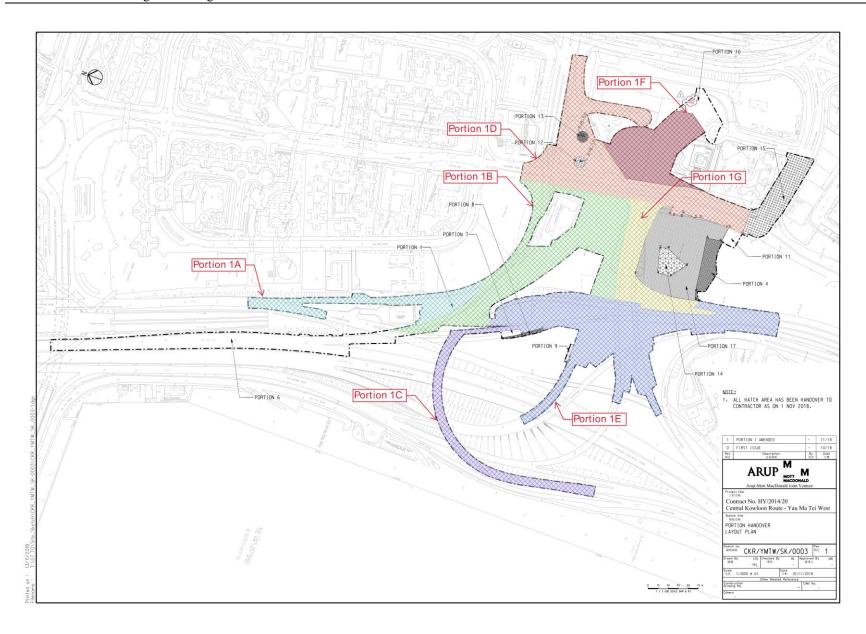
Construction Activities to be undertaken

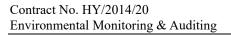
- Slip Road A Road works at Portion 1E
- Slip Road D Road works incl. VO at Portion 1B
- Road Works at Slip Road E & F (VO after opening of Bridge B2/C2) at Portion1A & 1B
- Improvement Works at Junction J4 at Lin Cheung Rd cor.Jordan Road
- Outstanding Works at Junction J2 at Portion 1D
- Outstanding Works at Junction J5 VO (900mm Storm Drain and Manhole Modification) at Portion 1D
- Staircase A / Lift A construction at Portion 1D
- Staircase B / Lift B construction at Portion 1D
- 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 monitoring, 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

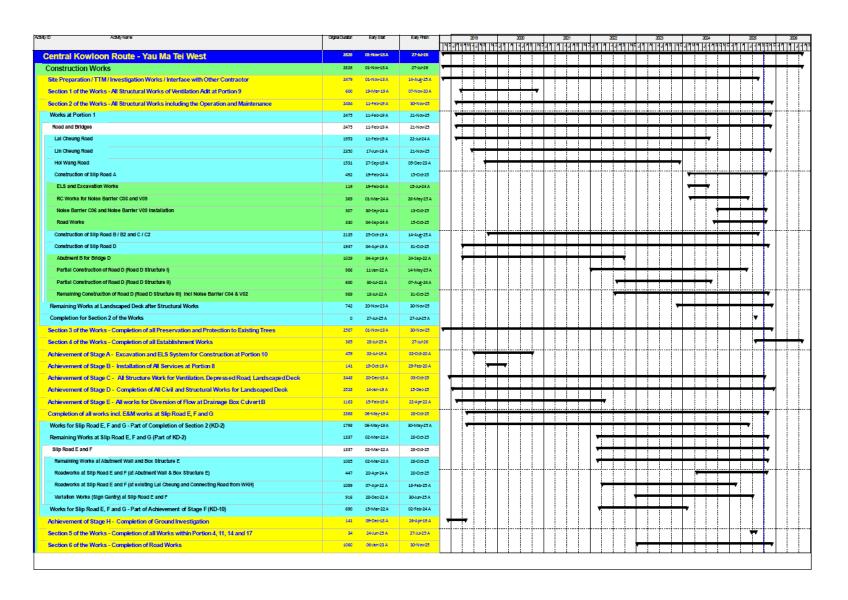
- 7.1. This 80th monthly EM&A Report presents the EM&A works undertaken during the period from 1 September 2025 to 30 September 2025 in accordance with the EM&A Manual and the requirement under EP- 457/2013/D.
- 7.2. Air quality (including 1-hour TSP and 24-hour TSP) and noise impact monitoring were carried out in the reporting period.
- 7.3. Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with IEC were carried out on 17 September 2025. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 7.4. One action Level of construction noise was triggered during the reporting month. 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.
- 7.5. A total of one environmental complaint was 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.
- 7.6. No non-compliance was reported in the reporting month.
- 7.7. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

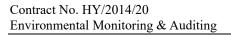
Contract No. HY/2014/20 Environmental Monitoring & Auditing
Appendix A
Alignment and Works Area For the Contract No.
HY/2014/20





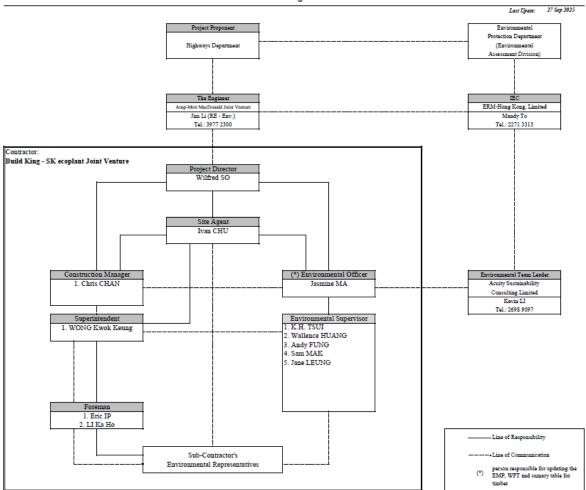
Appendix B Construction Programme



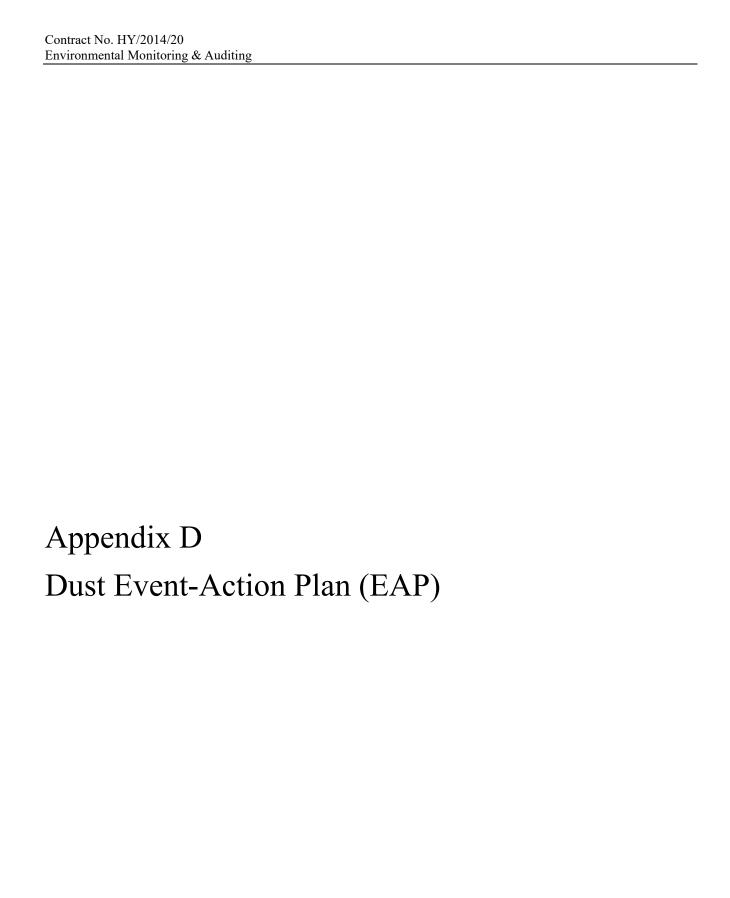


Appendix C Project Organization Chart

Contract No.: HY/2014/20 Central Kowloon Route - Yau Ma Tei West Environmental Organization Chart



Contact List				
Party	Department / Company	Name of Contact Person	Position	Te1
Project Proponent	Highways Department			
The Engineer	Arup-Mott MacDonald Joint Venture	Jim LI	Resident Engineer - Environmental	3977 2300
Independent Environmental Checker	ERM-Hong Kong, Limited	Mandy TO	IEC	2271 3313
Environmental Team Leader	Acuity Sustainability Consulting Limited	Kevin LI	ETL	2698 9097
Contractor	Build King - SK ecoplant Joint Venture	Wilfred SO	Project Director	3622 8300
		Ivan CHU	Site Agent	3622 8300
		Chris CHAN	Construction Manager	3622 8300
		WONG Kwok Keung	Superintendent	9131 9991
		Eric IP	Foreman	9603 1445
		LI Ka Ho	Foreman	9023 9310
		Jasmine MA	(*) Environmental Officer	6191 9436
		K.H. TSUI	Environmental Supervisor	9090 9052
		Wallance HUANG	Environmental Supervisor	9364 1453
		Andy FUNG	Environmental Supervisor	6888 4620
		Sam MAK	Environmental Supervisor	6923 7688
		Jane LEUNG	Environmental Supervisor	9133 9066



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

EVENT	ACTION							
EVENI	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; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.				
2.Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 				

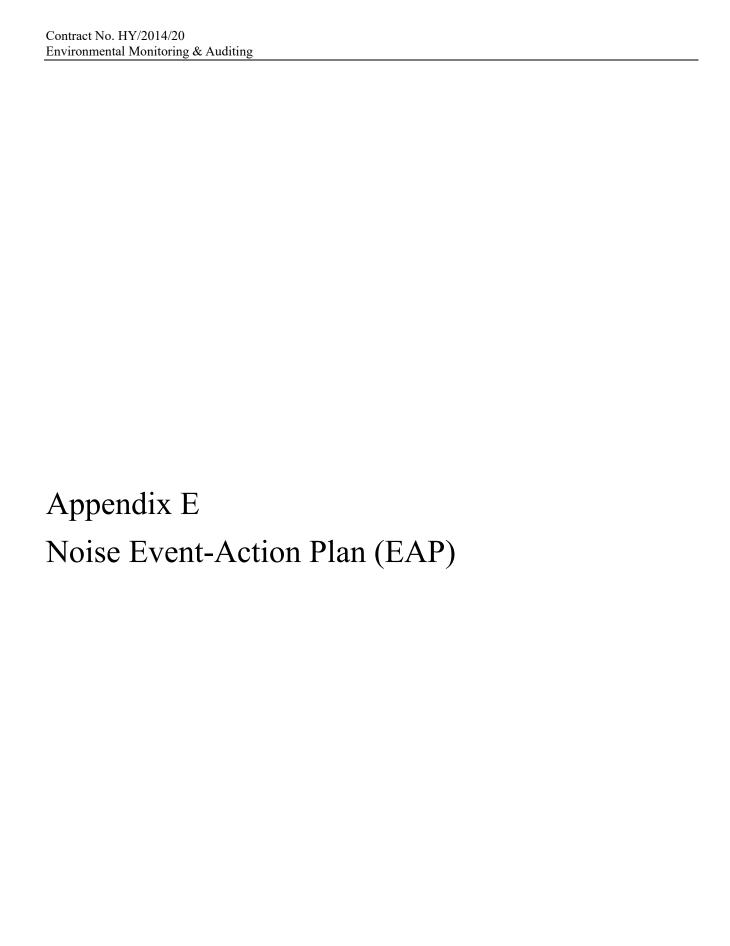
Note:

ET – Environmental Team

ER – Engineer's Representative **IEC** Independent

Environmental

Checker



EVENT		ACTIO)N	
	ET	IEC	ER	CONTRACTOR
Action Level	 Identify source, investigate the causes of exceedance and propose remedial measures; Notify IEC and Contractor; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; 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 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant 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		abated.				
	additional monitoring.						

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Contract No. HY/2014/20
Environmental Monitoring & Auditing

Appendix F
Environmental Mitigation Implementation
Schedule (EMIS)

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
		Col	nstruction Dust Im	pact				
\$4.3.10	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/m² 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		 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 extended 	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

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
		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 continuously;						

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
		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 or part of the						
\$4.3.10	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
	•	Co	nstruction Noise ((Airborne)	<u>'</u>		<u>'</u>	

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 onsite 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
\$5.4.1	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

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
\$5.4.1	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
\$5.4.1	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 C	Quality (Construction	on Phase)				
\$6.9.1.1	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	To minimize water quality impact from the construction site	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance	Implemented, deficiency rectified after observation

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 Runoff 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 stornwater 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 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 	runoff and general construction activities				Propecc PN 1/94 TM-EIAO TM-DSS	

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
		 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 of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or 						

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
		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 site exit where practicable. Washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the						

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
		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 December) as far as practicable.						

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
S6.9.1.2	W2	 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 December) 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	• N/A
\$6.9.1.3	W3	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	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance TM-DSS	Implemented

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
		appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.						
S6.9.1.5	W4	 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

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
		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	Accidental Spillage 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, deficiency rectified after observation

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
		 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 Man	agement (Constru	ction Waste)				
S7.4.1	WM1	On-site sorting of C&D material ■ 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 batching plants and be turned into concrete for	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	• N/A

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 DFVB 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 Construction and Demolition Material for backfilling and reinstatement; • 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 • Implement a menhanced Waste Management Plan	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
	\$7.5.1	WM2	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. Construction and Demolition Material 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;	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	Contractor	construction	Construction stage	(Miscellaneo us Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW	• Implemented

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
		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	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 (Miscellaneo us Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005	• Implemented
\$7.5.1	WM5	 Land-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants 	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	Implemented

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
		 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 licence. 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 						

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
		 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. 						
\$7.5.1	WM6	Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; Containers used for the storage of chemical wastes	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on	Implemented

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
		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.					the Packaging, Labelling and Storage of Chemical Waste	
S7.5.1	WM7	General Refuse 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	Minimize production of the general refuse and avoid odour, pest and	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	Implemented, deficiency rectified after observation

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
		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.	litter impacts					
	1	screene should be considered by the contractor.	Land Contamin	ation		l	L	
S8.9 & Appendix 8.4	LC2	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 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	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 Contaminate d Land Guidance Notes for Contaminate d Land Assessment	Implemented

EIA Ref.	EM&A Log Ref.		ended Mitigatior		Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S8.9 & Appendix 8.4	LC3	• Following conspecified dept of the excadistributed alshall be take The acceptant. Locations PBH4 • If the results Park), no furth further excavati increment vertication(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the location(s) or specified dept of the excavation of the ex	Pollution Control (conce from EPD where mpletion of the sch, at least one sand vation and four ong the boundary in for a closure a ce criterion is show the property of analysis below the excavation will endicate the presence of the account of the sample(s) where the conformation of the	excavation to the riple from the base samples evenly of the excavation ssessment testing in below: Acceptance Criteria RBRGs (Public Park)	to address				and Remediation Guidance Manual for Use of Risk- Based Remediation Goals (RBRGs) for Contaminate d Land Management	• Implemented
		excavation,samp continue until all	ling and compliar contaminated mat	g. The process of ice testing should erials are removed and Contamination						

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
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 Li	fe				
\$9.18	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 sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	Н9	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
			Landscape & V	'isual				
S10.10.1 Table 10.11	LV3	Good Site Management 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

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 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	Screen Hoarding 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	Lighting Control during Construction 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	Erosion Control 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	Tree Protection & Preservation 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

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
S10.10.1 Table 10.11	LV8	Tree Transplantation • 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	Landscape and Tree Management (GLTM) Section, DEVB Latest recommende d horticultural practices from GLTM Section, DEVB ETWB TCW 3/2006 Latest recommende d horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW	• Implemented

S10.10.1 Table 10.11 Some and a compensatory Planting 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. Cultural Heritage Impact (Construction Phase)	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
Table 10.11 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. Impact and also enhance landscape Indicate the site of the landscape landscape Impact and also enhance landscape Indicate the landscape Indicate the landscape Impact and also enhance landscape Indicate the landscape Indicate the landscape Impact and also enhance landscape Indicate the landscape Indicate								2/2004	
Cultural Haritage Impact (Construction Phase)	Table	LV9	 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. 	impact and also enhance landscape		•	Construction stage	3/2006 Latest recommende d horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW	• Implemented

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	• N/A
			EM&A Proje	ct				
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



		Im	pact Monitoring Schedule fo	or YMTW		
			Sep-25			
Sun	Mon		Wed		Fri	Sat
	Impact Air monitoring for W-A6 &W-A1	2	3	4	5	Impact Air monitoring for W-A6 &W-A1
	Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A					Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A
7	8	9	10	11	12 Impact	13
					Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A W-P11,W-N18 & W-N25A	
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 Impact	25 Impact	26	27
			Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A (Rescheduled to 25 September 2025)^	Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 &W-N25A (Rescheduled from 24 September 2025)^		
28	29	30 Impact				
		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A				
^The monitoring works originally s	cheduled on 24 Sep 2025 was resch	eduled to 25 Sep 2025 due to adver	se weather conditions.			

Remarks: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavourable weather conditions.

Appendix H
Calibration Certificates
(Air Monitoring)



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

Information of Calibrated Ed	quipment
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Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:	Sit	oata LD-5R			
Unit-under-Test Serial No.:		761173			
Our Report Reference No.:	RPT-	25-HVS-0102	!		
Calibration Location:	AM2, loca	tion near the	Leachate Trea	tment Works within the NENTX Landfill	

Standard Equipment Information

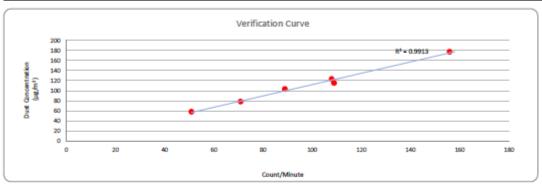
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification		Duration			Results from	Calibrated Equipment	Results from Standard Equipment
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) γ-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





Operated By: Andy Li Project Technician, Environmental

Checked By: Vega Wong Senior Consultant, Environmental



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.:	R	PT-25-HVS-010	1		
Calibration Location:	AM2.1	ocation near th	e Leachate Tre	tment Works within the NENTX Landfill	

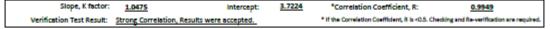
Standard Equipment Information

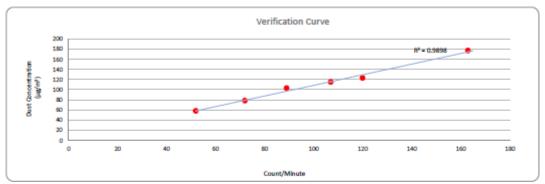
Verification Equipment Type:		Tisch TSP HVS	Tisch HVS Calibrator		
	Standard Equipment Model No.:	TE-5170X	TE-5025A		
	Equipment serial no.:	1106	3465		
	Last Calibration Date:	10-Feb-25	2-Dec-24		
L	Next Calibration Date:	9-Apr-25	2-Dec-25		

Equipment Verification Result

Verification	Date	Duration		Results from Calibrated Equipment		Results from Standard Equipment				
Test No.		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









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

ı	Infor	mat	ion	of	Cal	ibra	sted	En	mi	nm	ent	۱

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.:	R	PT-25-HVS-01	03		
Calibration Location:	AM2,	location near t	the Leachate Trea	stment Works within the NENTX Landfill	
-					-

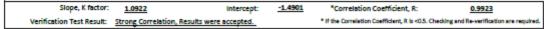
Standard Equipment Information

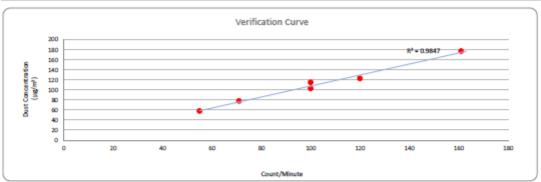
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Varification	erification Test No. Date	Duration			Results from	n Calibrated Equipment	Results from Standard Equipment
Test No.		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





Operated By:

Andy Li

Project Technician, Environmental

Checked By:

Vega Wong

Date: 04-03-2025



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

Int	formation	of	Calibrated	Ec	ıui	oment

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.:	R	PT-25-HVS-010	4		
Calibration Location:	AM2, I	ocation near th	ne Leachate Tre	stment Works within the NENTX Landfill	

Standard Equipment Information

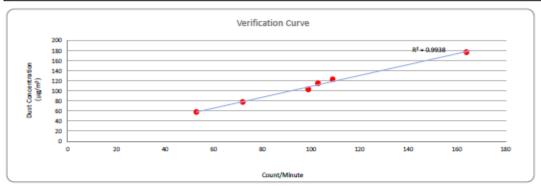
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

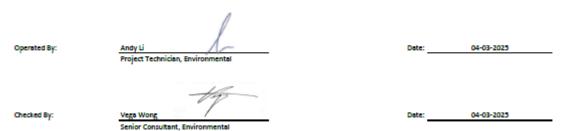
Equipment Verification Result

Verification		Duration			Results from	n Calibrated Equipment	Results from Standard Equipment
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) γ-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

1	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. Chec	ding and Re-verification are required.







Sibata LD-SR 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.:		882107			
Our Report Reference No.:		RPT-2-HVS-0107	7		
Calibration Location:	AM2, location near the Leachate Trea			atment Works within the NENTX Landfill	
					•

Standard Equipment Information

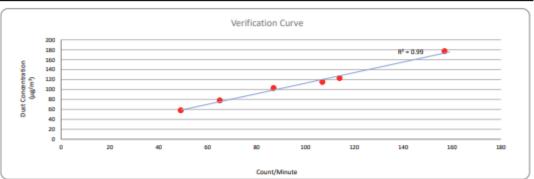
Г	Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
1	Standard Equipment Model No.:	TE-5170X	TE-5025A
1	Equipment serial no.:	1106	3465
1	Last Calibration Date:	10-Feb-25	2-Dec-24
L	Next Calibration Date:	9-Apr-25	2-Dec-25

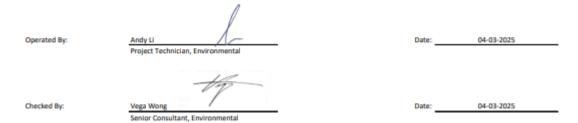
Equipment Verification Result

				Equipment	Verification Result				
Verification		Duration			Results from	Calibrated Equipment	Results from Standard Equipment		
Test No.	Date	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	11700	65	78		
2	23/02/2025	5388.00	5391.00	180.00	28260	157	177		
3	23/02/2025	5394.00	5397.00	180.00	19260	107	115		
4	2/03/2025	5397.00	5400.00	180.00	8820	49	58		
5	2/03/2025	5400.00	5403.00	180.00	15660	87	103		
6	2/03/2025	5403.00	5406.00	180.00	20520	114	123		

Linear Regression of y on x









RECALIBRATION
DUE DATE:

December 2, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 2, 2024

Rootsmeter S/N: 438320

Ta: 293 Pa: 757.4 °K mm Hg

Operator: Jim Tisch

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	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(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		
	m=	2.08107		m=	1.30313		
QSTD[b=	-0.04295	QA [b=	-0.02653		
	r=	0.99999		r=	0.99999		

	Calculatio	ns	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd= Vstd/ΔTime		Qa= Va/ΔTime	
	For subsequent flow ra	te calculatio	ns:
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: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric 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





Site Information

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

Ambient Condition

Actual Pressure during Calibration (P _a)	756.0	Actual Temperature during	303.5
(mm Hg):		Calibration (T _a) (deg K):	

Calibration Orifice

Model:	TE-5025A	Slope (m _e):	2.08107
Serial No.:	3465	Intercept (b _c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or	ΔH₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test#	(in)	(m³/min)	(chart)	(corrected)
18	10.40	1.552	55.0	54.36
13	8.50	1.405	53.0	52.38
10	6.50	1.231	50.0	49.42
7	4.50	1.028	47.0	46.45
5	2.50	0.772	41.0	40.52

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

17.5164 27.6473 Corr. Coeff= 0.9944

Calculations

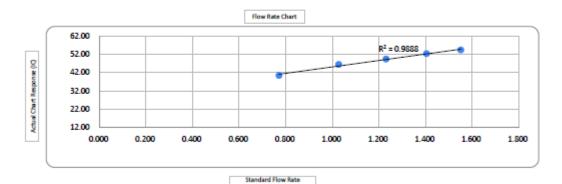
 $Q_B = 1/m_c*[Sqrt (\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c]$ $IC = I*(Sqrt(P_a/P_{\otimes d})*(T_{\otimes d}/T_a))$

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 $P_{Std} = 760 \text{ mm Hg}$

T_a = actual temperature during calibration (deg K) Pa = actual pressure during calibration (mm Hg)



Checked by 01-Sep-2025 Date:





Site Information

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

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	756.0	Actual Temperature during Calibration (T _a) (deg K):	303.5
--	-------	---	-------

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	ΔH _z O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/mln)	(chart)	(corrected)
18	10.70	1.574	56.0	55.35
13	9.50	1.484	53.0	52.38
10	8.30	1.389	52.0	51.39
7	4.50	1.028	46.0	45.46
5	2.50	0.772	41.0	40.52

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

m= 17.5395 b= 27.1080 Corr. Coeff: 0.9961

Calculations

$$\begin{split} Q_B &= 1/m_c{}^{*} [Sqrt \left(\Delta H_2 O^{*} (P_a/P_{Std})^{*} (T_{StS}/T_a) \right) \cdot b_c] \\ & iC = i^{*} (Sqrt \left(P_a/P_{Std} \right)^{*} (T_{StS}/T_a)) \end{split}$$

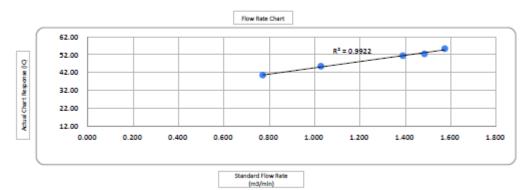
. . . (-4.-(-a.- aa) (-aa--a))

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

 $\mathbf{b}_{c} = \mathbf{calibrator}$ 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-Sep-2025





Site Information

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

Ambient Condition

Actual Pressure during Calibration (P.)	759 5	Actual Temperature during	303.6
(mm Hg):		Calibration (T _a) (deg K):	

Calibration Orifice

Model:	TE-5025A	Slope (m _e):	2.08107
Serial No.:	3465	Intercept (b _c):	-0.04295
Calibration Due Date:	2-Dec-25	Corr. Coeff:	0.99999

Calibration Data

Plate or	ΔH₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test#	(in)	(m³/min)	(chart)	(corrected)
18	10.50	1.562	56.0	55.43
13	8.40	1.399	52.0	51.47
10	6.30	1.214	49.0	48.50
7	4.60	1.041	46.0	45.53
5	2.40	0.757	42.0	41.57

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

m= 16.9389 b= 28.2634 Corr. Coeff= 0.9946

Calculations

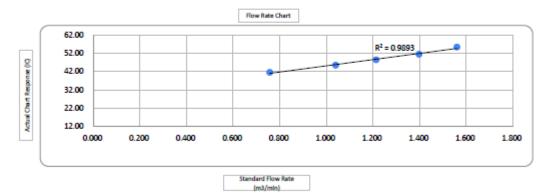
$$\begin{split} Q_{a} &= 1/m_{c} * [\text{Sqrt} \left(\Delta H_{2} O^{*} (P_{a}/P_{\text{Std}}) * (T_{\text{Std}}/T_{a}) \right) \cdot b_{c}] \\ &| C = I * \left(\text{Sqrt} \left(P_{a}/P_{\text{Std}} \right) * (T_{\text{Std}}/T_{a}) \right) \end{split}$$

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-Sep-2025





Site Information

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

Ambient Condition

Actual Pressure during Calibration (Pa)		Actual Temperature during	303.6
(mm Hg):	/36.3	Calibration (T _a) (deg K):	303.0

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	ΔH₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test#	(in)	(m³/min)	(chart)	(corrected)
18	10.80	1.584	55.0	54.44
13	9.30	1.471	54.0	53.45
10	7.90	1.357	51.0	50.48
7	4.70	1.052	46.0	45.53
5	2.60	0.788	42.0	41.57

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

16.6626 28.2611 Corr. Coeff= 0.9968

Calculations

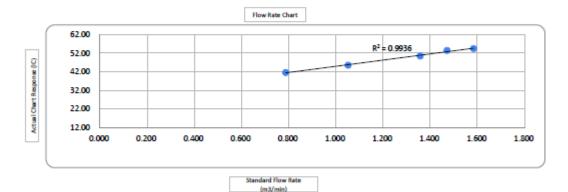
 $Q_a = 1/m_c*[Sqrt(\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c]$ $IC = I*(Sqrt(P_a/P_{Std})*(T_{Std}/T_a))$

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 16-Sep-2025 Date:

Annandix I	
Appendix I	
Calibration Certificates (Noise)	

Contract No. HY/2014/20







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

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

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 Homepage: http://www.aa-lab.com

Fax:(852) 2668 6946 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: Air Pressure: 24.6°C

1006 hPa 57.8 %

B&K 4226

Relative Humidity:

3. Calibration Equipment:

Type Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

2288467

AV240081

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Uni	t-under-t	est (UUT)	Appl	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	ing of Uni	Unit-under-test (UUT) Applied valu			Applied value		Applied value		Applied value		IEC 61672 Class I
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB				
				94		94.0	Ref				
20-120	dBA	SPL	Fast	104	1000	104.0	±0.3				
essentates	narebodica			114		114.0	±0.3				

Time Weighting

Sett	Setting of Unit-under-test (UUT) Applied value		of Unit-under-test (UUT)		Applied value		Applied value UUT F		UT) Applied value UUT F		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB				
20 120	JD 4	enr	Fast	9.4	1,000	94.0	Ref				
20-120	dBA	SPL	Slow	94	1000	94.0	±0.3				

Certificate No.: APJ25-046-CC001

Page 2 of 4

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



Acoustics and Air Testing Loboratory Co. Ltd. 聲學及空氣測試實驗室有限公司



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	Freq. Weighting Time Weighting Level, dB Frequency, Hz		dB	Specification, dB		
			31.5	94.3	±2.0		
			63	94.2	±1.5		
			1.25	94.2	±1.5		
			Fast	94	250	94.1	±1.4
20-120	dB	SPL			500	94.1	±1.4
	*************		71.545.5		1000	94.0	Ref
					2000	94.0	±1.6
					4000	93.9	±1.6
				8000	91.7	+2.1; -3.1	

A-weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading.	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
			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		
20-120	dBA	SPL	Fast	94	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	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
			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	
20-120	dBC	SPL	Fast	94	500	94.2	-0.0 ±1.4
Description:	100000		23324	1000	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		

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



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.

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



Certificate of Calibration

for

Description: Sound Level Meter

Manufacturer: NTi

Type No.: XL3 (Serial No.: A3A-01235-F0)
Microphone: MC230A (Serial No.: A30051)

Preamplifier: MA230 (Serial No.:1895)

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: 12 May 2025

Date of calibration: 13 May 2025

Date of NEXT calibration: 12 May 2026

Calibrated by:

Calibration Technician

Mr. Ng Yan Wa

Laboratory Manager

Page I of 4

Date of issue: 13 May 2025

Certificate No.: APJ25-015-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

Certified by:



Calibration Precaution: I.

- 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:

24.7°C

Air Pressure:

1006 hPa

Relative Humidity:

62.1 %

Calibration Equipment: 3.

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV240081

HOKLAS

Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
0-200	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
0-200	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Sett	Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	10.4	cm	Fast	94	1000	94.0	Ref
0-200	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ25-015-CC001

Page 2 of 4

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



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weigh	Freq. Weighting Time Weighting Level, dB Frequency, Ha		dB	Specification, dB		
			31.5	94.1	±2.0		
			63	94.2	±1.5		
			1	125	93.9	±1.5	
			Fast	94	250	93.9	±1.4
0-200	dB S	SPL			500	93.9	±1.4
					1000	94.0	Ref
1					2000	94.0	±1.6
					4000	94.1	±1.6
				8000	92.8	+2.1; -3.1	

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	req. Weighting Time Weighting Level, dB Freq		Frequency, Hz	dB	Specification, dB
			31.5	54.6	-39.4 ±2.0	
			63	68.0	-26.2±1.5	
			125	77.8	-16.1±1.5	
		BA SPL	Fast	94	250	85.3
0-200	dBA				500	90.7
10305-251			2723554		1000	94.0
				2000	95.2	+1.2±1.6
				4000	95.1	+1.0±1.6
			8000	91.5	-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. We	eighting	Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
			31.5	91.0	-3.0±2.0		
			63	93.4	-0.8 ±1.5		
				125	93.7	-0.2±1.5	
			Fast	94	250	93.9	-0.0±1.4
0-200	dBC	SPL			500	93.9	-0.0±1.4
					1000	94.0	Ref
				2000	93.8	-0.2 ±1.6	
				4000	93.3	-0.8±1.6	
			8000	89.6	-3.0 +2.1: -3.1		

Certificate No.: APJ25-015-CC001

(A+A)*L
Page 3 of 4

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



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	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.10
	4000 Hz	± 0.10
	8000 Hz	± 0.10
0104 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.

Certificate No.: APJ25-015-CC001





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: Double Trackwision

Date of issue: 13 February 2025

Certified by:_

Mr. Ng Yan Wa Laboratory Manager

Certificate No.: APJ24-145-CC002

Page 1 of 2

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



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:

24.3 °C
1006 hPa
68.2 %

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 Accept lower level dB 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.

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

Certificate No.: APJ24-145-CC002

Page 2 of 2

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



Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724244

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:

Calibration Technician

✓ 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: 10 July 2025

Date of calibration: 11 July 2025

Date of NEXT calibration: 10 July 2026

Calibrated by:

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 11 July 2025

Certificate No.: APJ25-045-CC001

Page 1 of 2

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



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:	24.6 °C
Air Pressure:	1006 hPs
Relative Humidity:	57.5%

4. Calibration Equipment:

Test Equipment	Туре	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	Accept lower level	Accept upper level	Measured value		
dB	dB	dB	dB		
94.0	93.6	94.4	94.0		

Note:

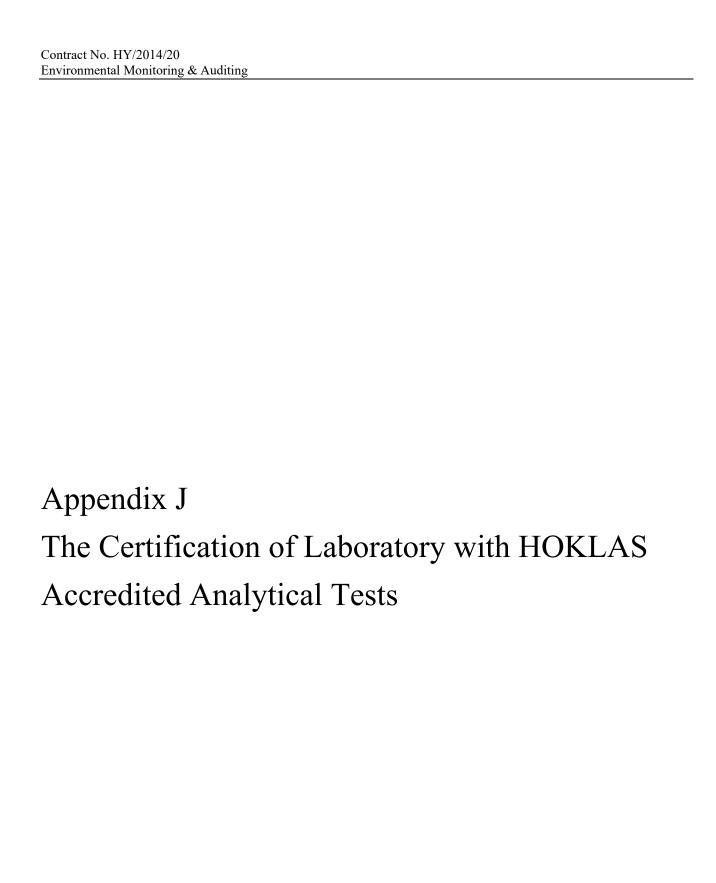
The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ25-045-CC001

Page 2 of 2

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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 進行戰於認可範圍內下這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 Communique).

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關系 (見國際認可結婚、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

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 本體書級照香港認可盡訂立的條款及媒件發出

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 進行戰於認可範圍內下透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:

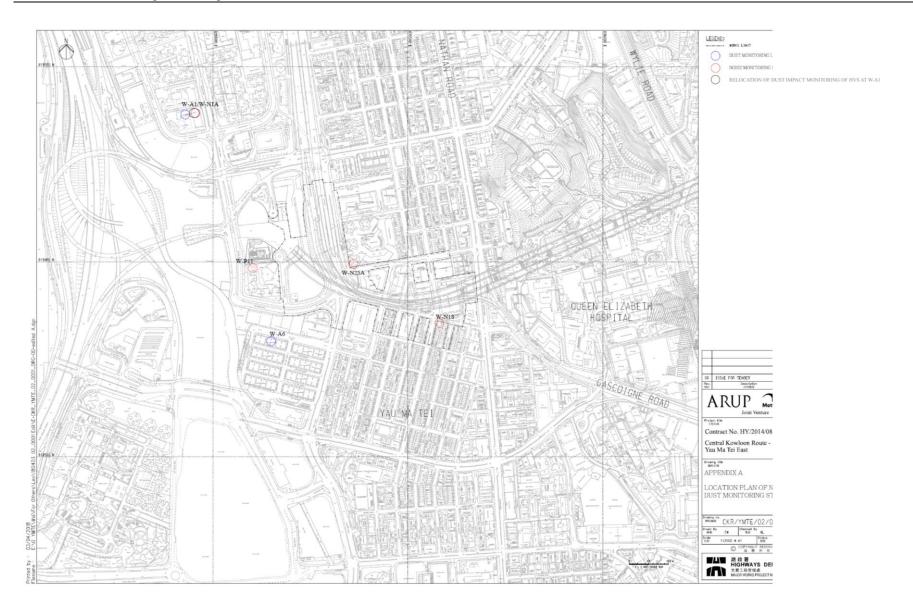
Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日

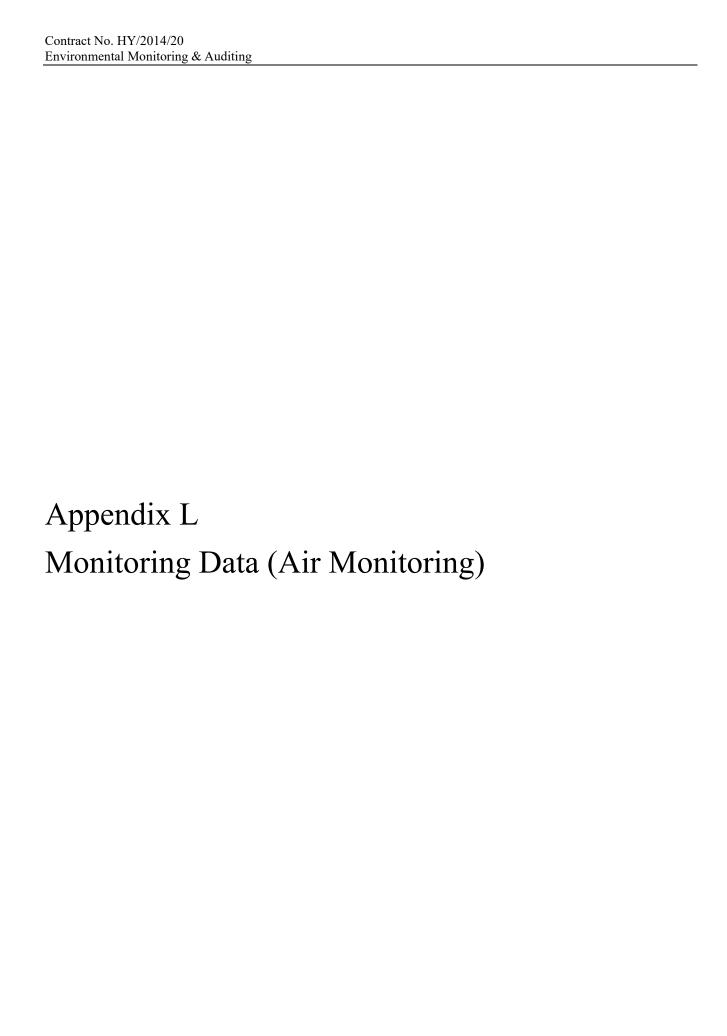
This certificate is issued subject to the terms and conditions laid down by HKAS 本證書按照香港即可處訂立的條款及條件發出

L001934

Contract No. HY/2014/20
Environmental Monitoring & Auditing

Appendix K
Location Plan of Noise and Air Quality
Monitoring Station





Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

Parameter: TSP 1-hour Other Factors Nearby traffic

	1-hour TSP (μg/m³)									
Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (μg/m³)	3 rd Hour (μg/m³)					
01/09/2025	Sunny 9:30		57	52	46					
06/09/2025	9/2025 Sunny		42	42	46					
12/09/2025	Sunny 9:15		41	43	37					
18/09/2025	Sunny	9:40	32	26	28					
25/09/2025	Sunny	9:25	75	82	76					
30/09/2025	Sunny 14:10		42	39	45					
Mini	mum: 26 μg/m ²	3		Maximum: 82 μg	m^3					

Remarks: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

Location: Man Cheong Building (W-A6)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

Parameter: TSP 1-hour Other Factors Nearby traffic

	1-hour TSP (μg/m³)											
Date	Weather	Start Time	1 st Hour (μg/m³)	2 nd Hour (μg/m³)	3 rd Hour (μg/m³)							
01/09/2025	Sunny	10:06	75	47	44							
06/09/2025	Sunny	11:32	57	63	60							
12/09/2025	Sunny	9:52	37	35	35							
18/09/2025	Sunny	11:16	28	32	29							
25/09/2025	Sunny	11:18	78	78 74								
30/09/2025	Sunny	15:00	53	51	61							
I	Minimum: 28	μg/m ³		Maximum: 78 μg	m^3							

Remarks: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

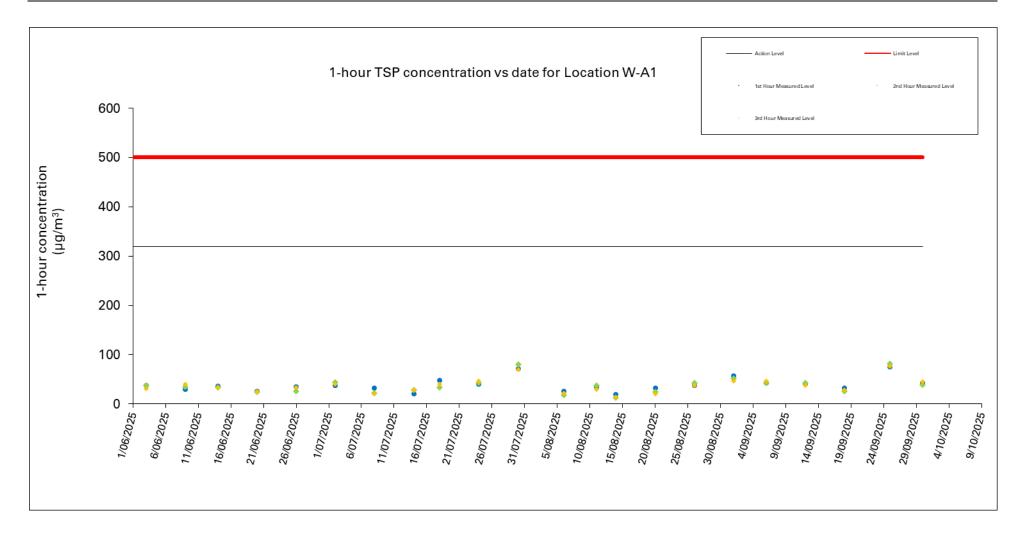


Figure 1: Graphical Illustration of Measured 1-hour TSP (μg/m³) Levels at W-A1

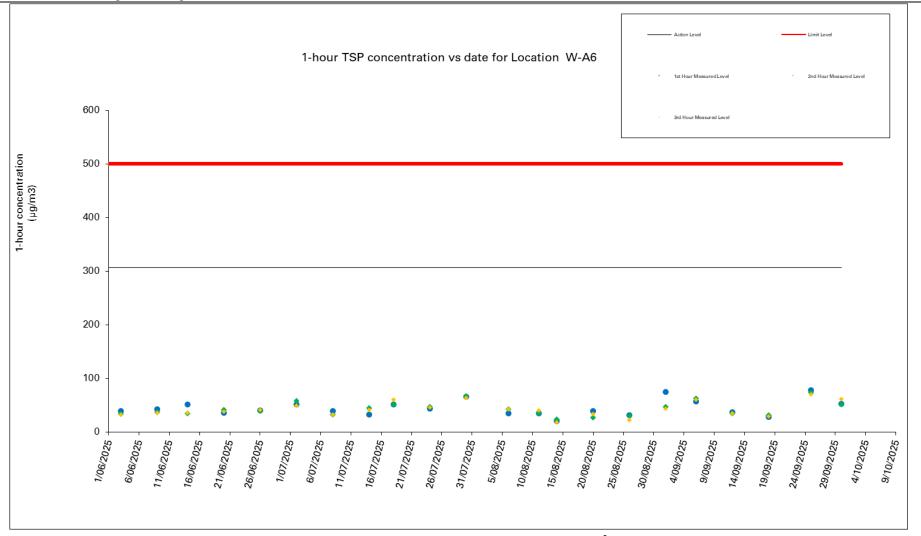


Figure 2: Graphical Illustration of Measured 1-hour TSP (μg/m³) Levels at W-A6

Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-A1) Location:

1440.0

40

41

40.5

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

TSP 24-hour Parameter: Nearby traffic Other Factors

11278.4

11302.4

Summary of TSP-24hr Concrentration (μg/m³) at Location W-A1

			<u> </u>							Calibrati	ion due date:	16-Sep-25		Intercept =	27.6473
										Date o	f Calibration:	16-Sep-25		Slope =	16.9389
									Calibrati	ion due date:	1-Oct-25		Intercept =	28.2634	
Start Date	Weather		Elapse Time		C	Chart Reading		Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter W	eight (g)	Particulate weight	Corr.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(hPa)	(m³/min)	(m ³)	Initial	Final	(g)	(μg/m ³)
1/09/2025	Sunny	11158.4	11182.4	1440.0	40	41	40.5	30.3	1008.1	0.70	1010	2.7014	2.7456	0.0442	44
6/09/2025	Sunny	11182.4	11206.4	1440.0	41	41	41.0	29.4	1007.1	0.73	1053	2.6958	2.7525	0.0567	54
12/09/2025	Sunny	11206.4	11230.4	1440.0	40	41	40.5	30.1	1011.6	0.71	1023	2.7061	2.7482	0.0421	41
18/09/2025	Sunny	11230.4	11254.4	1440.0	41	42	41.5	29.2	1007.4	0.75	1080	2.7020	2.7462	0.0442	41
25/09/2025	Sunny	11254.4	11278.4	1440.0	41	41	41.0	28.6	1010.4	0.73	1052	2.7104	2.7323	0.0219	21
20/00/2025		44270.4	44202.4	4440.0	40	44	40.5	20.7	1012.1	0.70	4044	2 7200	2 7720	0.0420	40

29.7

1012.4

0.70 1011 2.7309 2.7739 0.0430 43 54 $\mu g/m^3$ 21 $\mu g/m^3$ Minimum: Maximum:

1-Sep-25

Date of Calibration:

Slope =

17.5164

Sunny

30/09/2025

Man Cheong Building (W-A6) Location:

01, 06, 12, 18, 25 and 30 September 2025 Monitoring date:

TSP 24-hour Parameter: Other Factors Nearby traffic

Summary of TSP-24hr Concrentration (μg/m³) at Location W-A6

1-Sep-25

129 μg/m³

Minimum:

Slope =

17.5395

46 $\mu g/m^{3}$

Date of Calibration:

Maximum:

										on due date:	16-Sep-25		Intercept =	27.1080
									Date of	f Calibration:	16-Sep-25		Slope =	16.6626
									Calibrati	on due date:	1-Oct-25		Intercept =	28.2611
Weather	Elapse Time			Chart Reading		Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter We	eight (g)	Particulate weight	Conc.	
Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(hPa)	(m³/min)	(m ³)	Initial	Final	(g)	$(\mu g/m^3)$
Sunny	13958.4	13982.4	1440.00	42	42	42.0	30.3	1008.1	0.82	1175	2.6975	2.7515	0.0540	46
Sunny	13982.4	14006.4	1440.00	40	41	40.5	29.4	1007.1	0.73	1055	2.7096	2.8453	0.1357	129
Sunny	14006.4	14030.4	1440.00	40	40	40.0	30.1	1011.6	0.71	1025	2.6728	2.7758	0.1030	100
Sunny	14030.4	14054.4	1440.00	39	40	39.5	29.2	1007.4	0.64	928	2.7279	2.8048	0.0769	83
Sunny	14054.4	14078.4	1440.00	40	40	40.0	28.6	1010.4	0.68	984	2.7092	2.7708	0.0616	63
Sunny	14078.4	14102.4	1440.00	40	40	40.0	29.7	1012.4	0.68	985	2.7400	2.8041	0.0641	65
	Sunny Sunny Sunny Sunny Sunny Sunny	Sunny 13958.4 Sunny 13982.4 Sunny 14006.4 Sunny 14030.4 Sunny 14054.4	Weather Condition Initial Final Sunny 13958.4 13982.4 Sunny 13982.4 14006.4 Sunny 14006.4 14030.4 Sunny 14030.4 14054.4 Sunny 14054.4 14078.4	Weather Condition Initial Final (min) Sunny 13958.4 13982.4 1440.00 Sunny 13982.4 14006.4 1440.00 Sunny 14030.4 1440.00 14054.4 1440.00 Sunny 14054.4 14078.4 1440.00	Weather Condition Initial Final (min) Actual (min) Min Sunny 13958.4 13982.4 1440.00 42 Sunny 13982.4 14006.4 1440.00 40 Sunny 14030.4 14030.4 1440.00 40 Sunny 14030.4 14054.4 1440.00 39 Sunny 14054.4 14078.4 1440.00 40	Weather Condition Initial Final (min) Actual (min) Min (max) Sunny 13958.4 13982.4 1440.00 42 42 Sunny 13982.4 14006.4 1440.00 40 41 Sunny 14006.4 14030.4 1440.00 40 40 Sunny 14030.4 14054.4 1440.00 39 40 Sunny 14054.4 14078.4 1440.00 40 40	Weather Condition Initial Final (min) Actual (min) Min (min) Max Avg Sunny 13958.4 13982.4 1440.00 42 42 42.0 Sunny 13982.4 14006.4 1440.00 40 41 40.5 Sunny 14006.4 14030.4 1440.00 40 40 40.0 Sunny 14030.4 14054.4 1440.00 39 40 39.5 Sunny 14054.4 14078.4 1440.00 40 40 40.0	Weather Condition Initial Final (min) Min (min) Max Avg (°C) Sunny 13958.4 13982.4 1440.00 42 42 42.0 30.3 Sunny 13982.4 14006.4 1440.00 40 41 40.5 29.4 Sunny 14006.4 14030.4 1440.00 40 40 40.0 30.1 Sunny 14030.4 14054.4 1440.00 39 40 39.5 29.2 Sunny 14054.4 14078.4 1440.00 40 40 40.0 28.6	Weather Condition Elapse Time Chart Reading Avg Arr Temp Atmospheric Pressure Sunny 13958.4 13982.4 1440.00 42 42 42.0 30.3 1008.1 Sunny 13982.4 14006.4 1440.00 40 41 40.5 29.4 1007.1 Sunny 14006.4 14030.4 1440.00 40 40 40.0 30.1 1011.6 Sunny 14030.4 14054.4 1440.00 39 40 39.5 29.2 1007.4 Sunny 14054.4 14078.4 1440.00 40 40 40.0 28.6 1010.4	Neather Condition Final Actual (min) Min Max Avg Avg Air (°C) (hPa) (m³/min)	Weather Condition Elapse Time Chart Reading Avg Arr Temp Atmospheric Pressure Flow Rate Pressure Standard Air Volume Sunny 13958.4 13982.4 1440.00 42 42 42.0 30.3 1008.1 0.82 1175 Sunny 13982.4 14006.4 1440.00 40 41 40.5 29.4 1007.1 0.73 1055 Sunny 14006.4 14030.4 1440.00 40 40 40.0 30.1 1011.6 0.71 1025 Sunny 14030.4 14054.4 1440.00 39 40 39.5 29.2 1007.4 0.64 928 Sunny 14054.4 14078.4 1440.00 40 40.0 28.6 1010.4 0.68 984	Page of Calibration: 16-Sep-25 Calibration: 16-Sep-25 Calibration: 16-Sep-25	Weather Condition Elapse Time Chart Reading Avg Air Temp Avg Air Temp Flow Rate Pressure Filter Weight (g) Sunny 13958.4 13982.4 1440.00 42 42 42.0 30.3 1008.1 0.82 1175 2.6975 2.7515 Sunny 13982.4 14006.4 1440.00 40 41 40.5 29.4 1007.1 0.73 1055 2.7096 2.8453 Sunny 14006.4 14030.4 1440.00 40 40 40.0 30.1 1011.6 0.71 1025 2.6728 2.7758 Sunny 14030.4 14054.4 1440.00 39 40 39.5 29.2 1007.4 0.64 928 2.7279 2.8048 Sunny 14054.4 14078.4 1440.00 40 40 40.0 28.6 1010.4 0.68 984 2.7092 2.7708	Date of Calibration: 16-Sep-25 Slope = Calibration: Cali

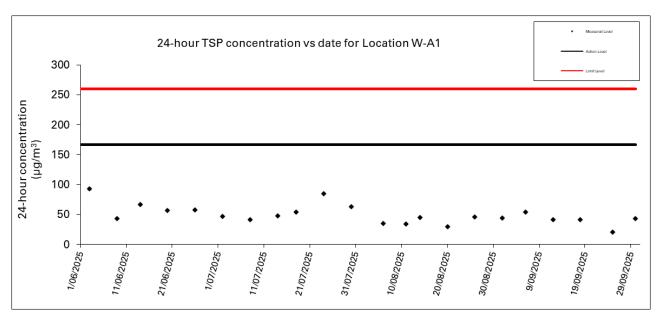


Figure 3: Graphical Illustration of Measured 24-hour TSP (μg/m³) Levels at W-A1

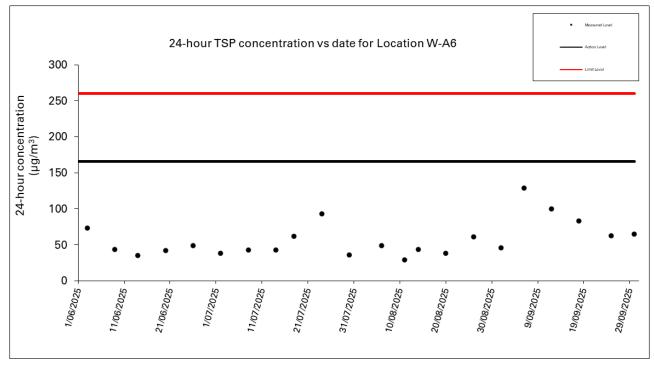
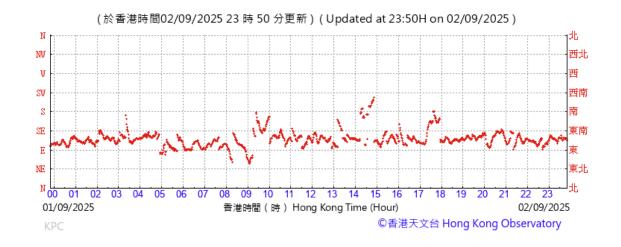
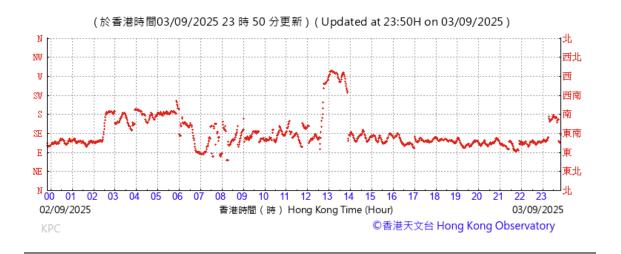
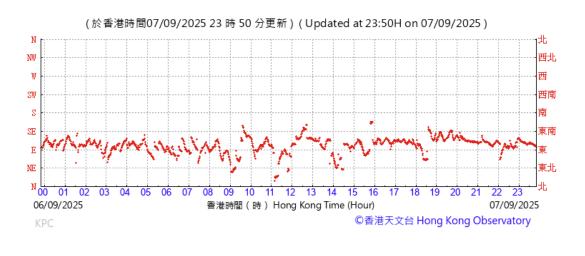


Figure 4: Graphical Illustration of Measured 24-hour TSP ($\mu g/m^3$) Levels at W-A6

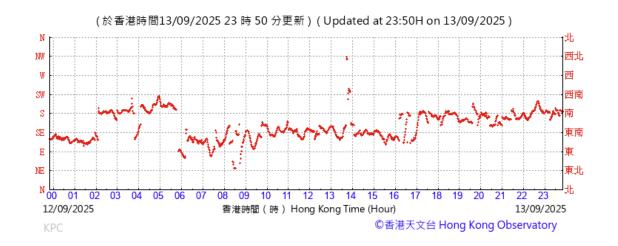
Wind direction data for 1, 2, 6, 7, 12, 13, 18, 19, 25, 26, 30 September and 1 October 2025

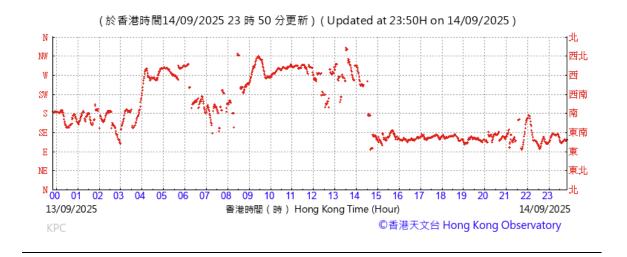


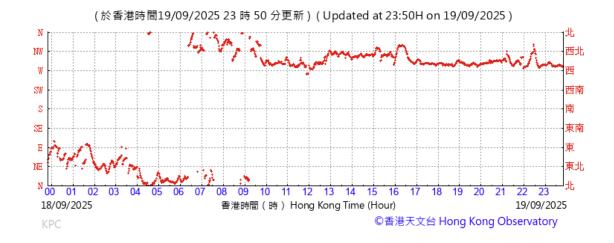


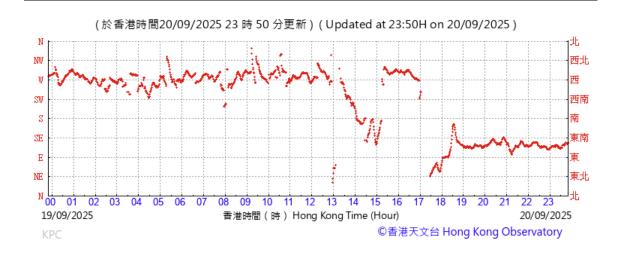


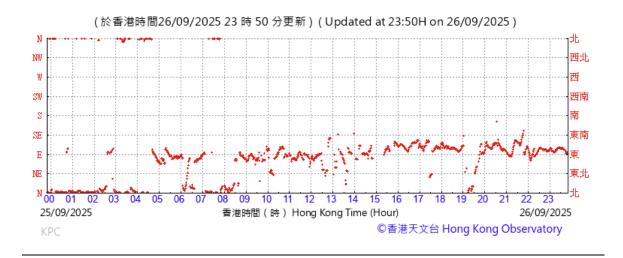




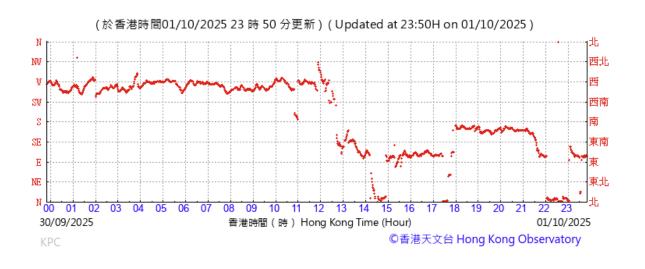


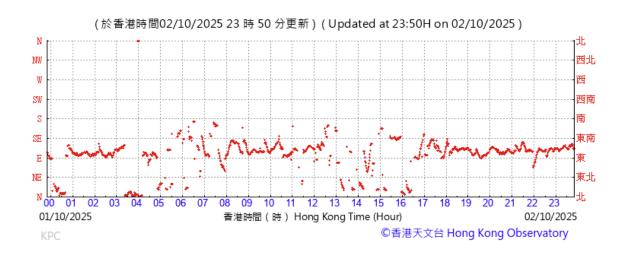




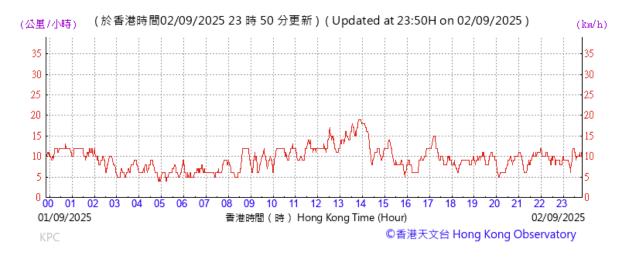




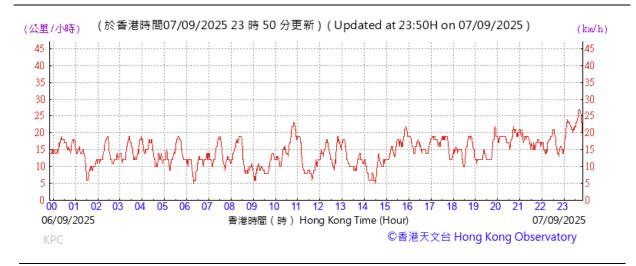


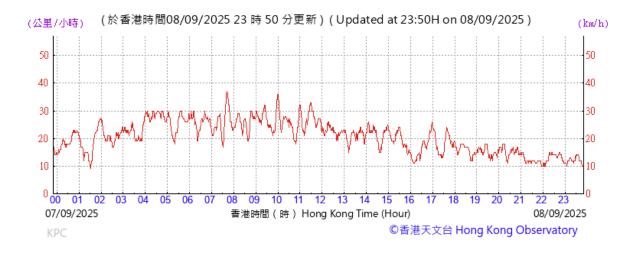


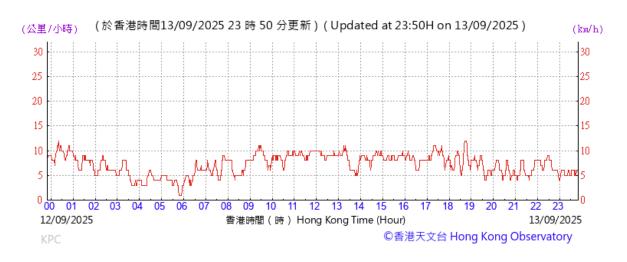
Wind speed data for 1, 2, 6, 7, 12, 13, 18, 19, 25, 26, 30 September and 1 October 2025

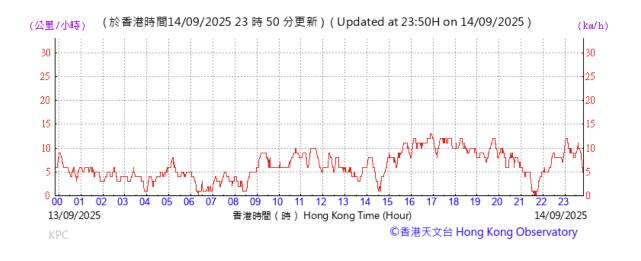




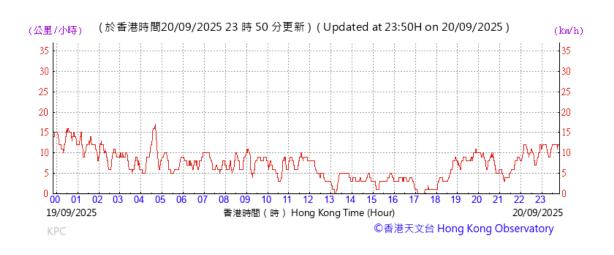








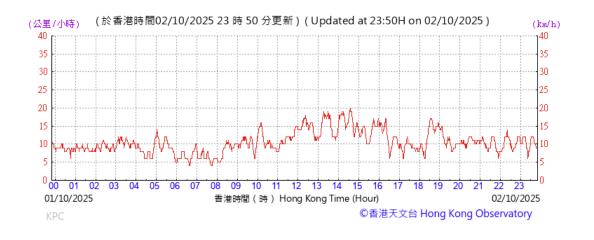












Contract No. HY/2014/20
Environmental Monitoring & Auditing

Appendix M Monitoring Data (Noise) Location: Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-N1A)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

 $\begin{array}{ll} \text{Parameter:} & L_{\text{eq}},\,L_{10},\,L_{90} \\ \text{Other Factors} & \text{Nearby traffic} \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	- End Time	L_{eq}	L_{10}	L ₉₀	Wind speed (m/s)	Limit level
01/09/2025	Sunny	9:15	- 9:45	60.2	61.6	56.6	2.1	70.0
06/09/2025	Sunny	9:45	- 10:15	61.0	63.2	58.0	3.3	70.0
12/09/2025	Sunny	9:00	- 9:30	61.4	62.5	56.6	2.5	70.0
18/09/2025	Sunny	9:39	- 10:09	59.0	59.7	58.1	2.7	70.0
25/09/2025	Sunny	9:30	- 10:00	61.8	64.1	59.0	4.8	70.0
30/09/2025	Sunny	14:00	- 14:30	61.7	62.5	61.1	2.4	70.0

Remark: No examination was scheduled at Yau Ma Tei Catholic Primary School during the reporting month.

The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

Location: Hydan Place (W-N18)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

 $\begin{array}{ll} Parameter: & L_{eq}, L_{10}, L_{90} \\ Other \ Factors & Nearby \ traffic \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	- End Time	L_{eq}	L_{10}	L ₉₀	Wind speed (m/s)	Limit level
01/09/2025	Sunny	10:23	- 10:53	64.9	67.7	62.4	3.1	75.0
06/09/2025	Sunny	10:45	- 11:15	65.5	68.3	62.6	4.2	75.0
12/09/2025	Sunny	10:20	- 10:50	67.9	70.8	65.3	2.6	75.0
18/09/2025	Sunny	10:00	- 10:30	66.6	68.2	62.8	2.8	75.0
25/09/2025	Sunny	10:17	- 10:47	68.5	71.6	65.5	4.7	75.0
30/09/2025	Sunny	15:57	- 16:27	65.1	68.1	63.0	2.8	75.0

Remark: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

Location: Prosperous Garden Block 1 (W-N25A)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

 $\begin{array}{ll} \mbox{Parameter:} & L_{\mbox{\scriptsize eq}}, L_{10}, L_{90} \\ \mbox{Other Factors} & \mbox{Nearby traffic} \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	- End Time	L_{eq}	L_{10}	L ₉₀	Wind speed (m/s)	Limit level
01/09/2025	Sunny	9:30	- 10:00	69.5	72.7	66.5	2.5	75.0
06/09/2025	Sunny	9:45	- 10:15	69.4	71.5	65.2	3.3	75.0
12/09/2025	Sunny	9:36	- 10:06	71.5	74.6	69.3	2.6	75.0
18/09/2025	Sunny	9:00	- 9:30	70.9	72.3	65.1	2.2	75.0
25/09/2025	Sunny	9:30	- 10:00	70.1	72.2	67.9	4.8	75.0
30/09/2025	Sunny	15:07	- 15:37	70.5	72.9	65.9	2.2	75.0

Remark: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

Location: The Coronation Tower 1 (W-P11)

Monitoring date: 01, 06, 12, 18, 25 and 30 September 2025

 $\begin{array}{ll} \mbox{Parameter:} & L_{\mbox{\scriptsize eq}}, L_{10}, L_{90} \\ \mbox{Other Factors} & \mbox{Nearby traffic} \end{array}$

Noise Monitoring data:

Date	Weather	Start Time	- E	and Time	$L_{\rm eq}$	L_{10}	L ₉₀	Wind speed (m/s)	Limit level
01/09/2025	Sunny	10:30	-	11:00	65.2	67.5	63.5	3.5	75.0
06/09/2025	Sunny	10:40	-	11:10	65.2	67.2	63.9	4.2	75.0
12/09/2025	Sunny	10:15	-	10:45	65.9	68.0	64.0	2.6	75.0
18/09/2025	Sunny	10:28	-	10:58	64.6	66.3	63.4	3.7	75.0
25/09/2025	Sunny	10:22	-	10:52	66.5	67.9	65.3	4.7	75.0
30/09/2025	Sunny	15:26	-	15:56	69.0	71.0	67.6	3.3	75.0

Remark: The monitoring works originally scheduled on 24 September 2025 was rescheduled to 25 September 2025 due to unfavorable weather conditions

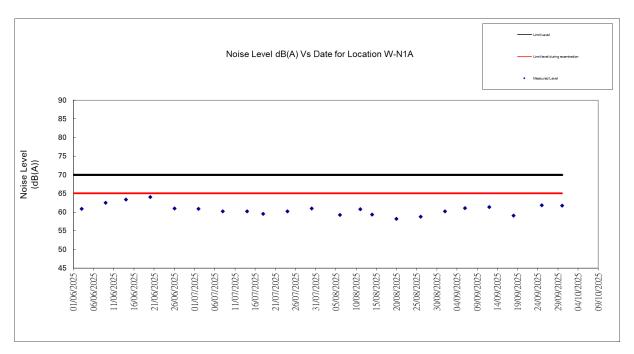


Figure 1: Graphical Illustration of Measured Noise Levels at W-N1A

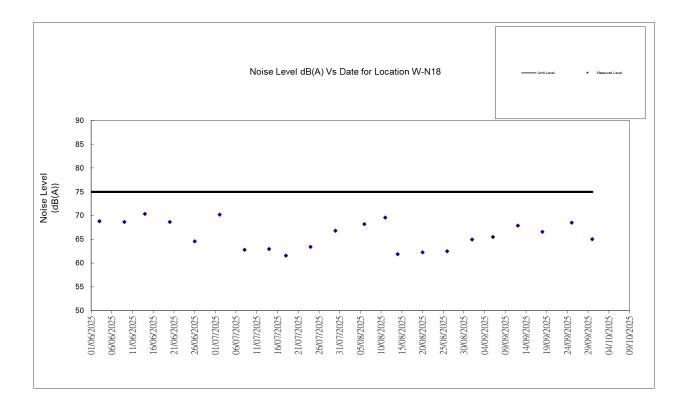


Figure 2: Graphical Illustration of Measured Noise Levels at W-N18

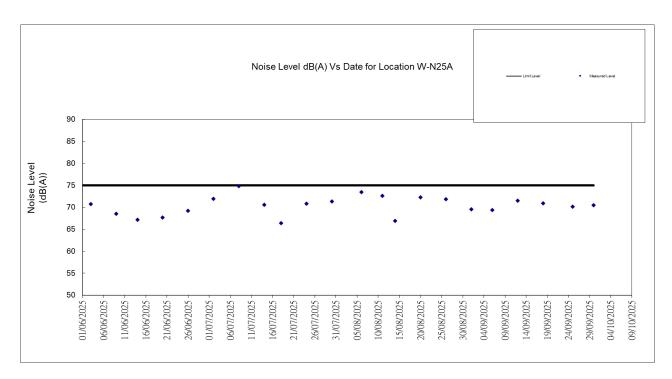


Figure 3: Graphical Illustration of Measured Noise Levels at W-N25A

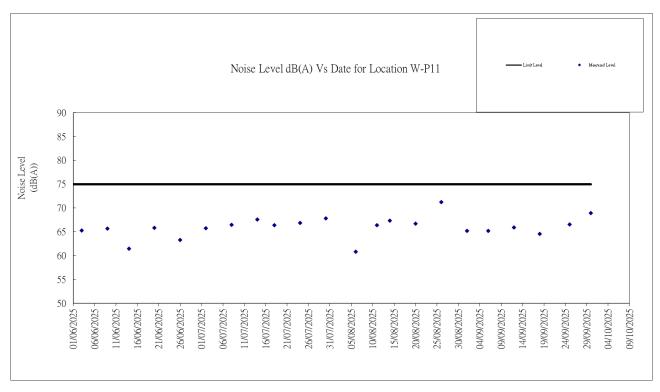


Figure 4: Graphical Illustration of Measured Noise Levels at W-P11

Contract No. HY/2014/20
Environmental Monitoring & Auditing

Appendix N Waste Flow Table **Monthly Summary Waste Flow Table**

Name of Department: **Highways Department**

Contract No. / Works Order No.: HY/2014/20

Monthly Summary Waste Flow Table for September 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 place.)

		Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly						
Month	(a)=(b)+(c)+(d)+I+ (f)+ (g)+ (h)+ (i)+ (j)+ (k) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(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	1829.57	0.00	0.00	0.00	1290.94	454.60		
Feb-25	3865.77	0.00	0.00	0.00	2082.43	1684.46		
Mar-25	2090.57	0.00	0.00	0.00	1333.26	640.89		
Apr-25	2809.75	0.00	0.00	0.00	1917.91	725.77		
May-25	2371.61	0.00	0.00	0.00	2137.86	0.00		
Jun-25	1968.26	0.00	0.00	0.00	1863.38	0.00		
Sub-total	15001.10	0.00	0.00	0.00	10625.78	3571.28		
Jul-25	1802.80	0.00	0.00	0.00	1321.25	343.42		
Aug-25	1701.96	0.00	0.00	0.00	1514.15	76.66		
Sep-25	1384.74	0.00	0.00	0.00	920.39	164.55		
Oct-25								
Nov-25								
Dec-25								
Total	19890.60	0.00	0.00	0.00	14381.57	4155.91		
2018	15.65	0.00	0.00	0.00	0.00	0.00		
2019	71691.85	0.00	5534.00	8066.88	57313.64	415.55		
2020	168891.36	0.00	15437.30	84381.54	68187.83	180.00		
2021	213790.30	0.00	16567.28	79780.37	114965.52	1002.03		
2022	140806.50	0.00	22476.00	20553.85	51490.05	44771.11		
2023	126731.90	0.00	27490.00	129.27	92991.04	4240.52		
2024	41924.52	0.00	0.00	0.00	19978.70	19393.12		
Accumulated Total	784010.66	0.00	87504.58	192911.91	419308.35	74158.23		

		Actual Quantities of Non-inert Construction Waste Generated Monthly							
Month	М	(g) etals	(h) Paper/ cardboard packaging		(i) Plast) tics	Chemic	(j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill
	(in '	000kg)	(in '0	000kg)	(in '00	00kg)	(in '(000kg)	(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.03
Feb-25	4.14	0.00	0.0037	0.00	1.20	0.00	0.00	0.00	93.54
Mar-25	14.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	101.48
Apr-25	74.94	0.00	0.0016	0.00	0.48	0.00	0.00	0.00	90.65
May-25	156.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.28
Jun-25	28.63	0.00	0.00	0.00	0.33	0.00	0.00	0.00	75.92
Sub-total	279.12	0.00	0.01	0.00	2.01	0.00	0.00	0.00	522.90
Jul-25	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	137.80
Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.15
Sep-25	224.67	0.00	0.00	0.00	0.44	0.00	0.00	0.00	74.69
Oct-25									
Nov-25									
Dec-25									
Total	503.79	0.00	0.01	0.00	2.78	0.00	0.00	0.00	846.54
2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.65
2019	106.03	106.04	0.20	0.20	1.47	1.47	2.11	0.00	251.96
2020	359.10	0.00	0.35	0.00	3.16	0.00	0.88	0.00	341.20
2021	945.79	0.00	0.20	0.00	3.34	0.00	0.00	0.00	525.77
2022	775.03	159.28	0.26	0.08	3.61	1.49	0.00	0.00	736.02
2023	716.48	716.48	0.33	0.33	4.45	4.46	0.00	0.00	1185.01
2024	765.22	795.22	0.09	0.09	4.15	4.15	0.00	0.00	1753.24
Accumulated Total	4171.44	1777.03	1.43	0.70	22.97	11.57	2.99	0.00	5655.39

Remark:

Sub-total, Total and Accumulated Total are corrected to 2 decimal places. Construction waste records for July and August 2025 had been updated.



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

Statistical Summary of Exceedances

Air Quality								
Reporting Period	Action Level	Limit Level						
1–30 September 2025	0	0						
	Noise							
Reporting Period	Action Level	Limit Level						
1–30 September 2025	1	0						

Statistical Summary of Environmental Complaints

Donauting David	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1–30 September 2025	1	27	N/A		

Statistical Summary of Environmental Non-compliance

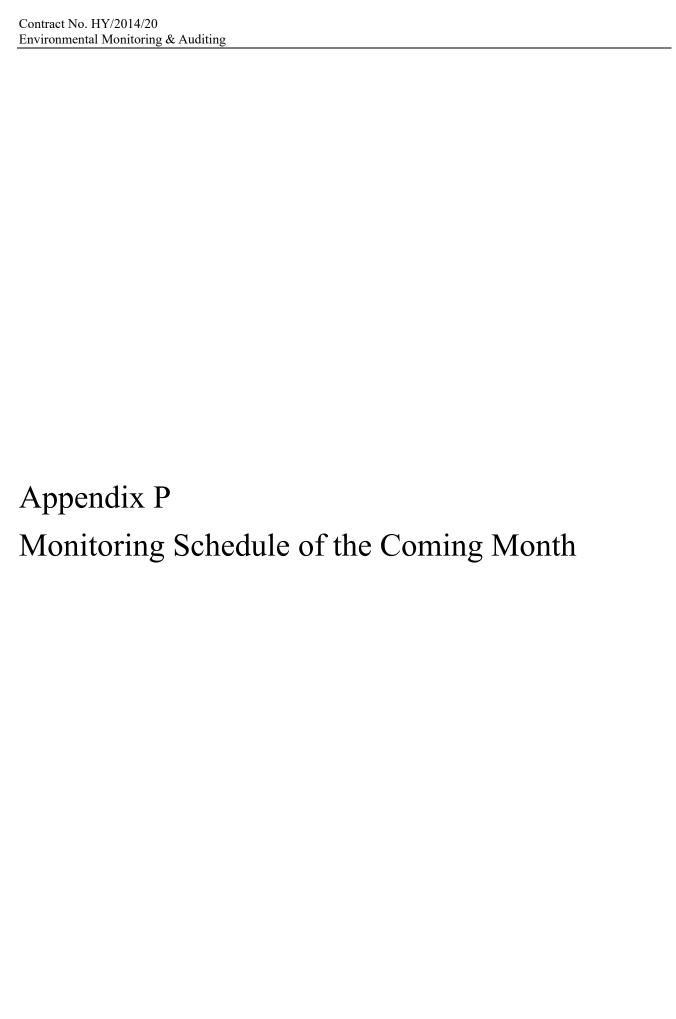
Donarting Davied	Eı	nvironmental Non-compliance	Statistics
Reporting Period	Frequency	Cumulative	Details
1–30 September 2025	0	0	N/A

Statistical Summary of Environmental Summons

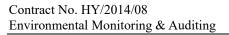
Danguting Davied		Environmental Summons Sta	tistics
Reporting Period	Frequency	Cumulative	Details
1–30 September 2025	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics				
	Frequency	Cumulative	Details		
1–30 September 2025	0	0	N/A		



	Impact Monitoring Schedule for YMTW							
0ct-25								
Sun								
			1	2	3	4		
5	6	7	8	9	10	11		
	Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A					
12	13		15	16	17	18		
		Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A						
19	20	21	22	23	24	25		
	Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A					Impact Air monitoring for W-A6 &W-A1 Noise monitoring for W-N1A, W-P11,W-N18 & W-N25A		
26	27	28	29	30	31			
					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

Project	Central Kowloon Route, Yau Ma Tei West Section				
Complaint Code	EC027-CKRYMTW20250901_001				
Complaint description	The complaint lodged on 1 September 2025 was referred to the Contractor and the Environmental Team (ET) by the EPD on 1 September 2025. It was concerned about the construction noise and bright light emitted from the site area near Charming Garden from 02:30 to 03:00 on 29 August 2025.				
Parameter	Construction Nois				
Actions taken / to be taken	The complaint was concerned about the construction noise and bright light emitted near Charming Garden from 02:30 to 03:00 on 29 August 2025. According to the Contractor's information, no midnight construction works were conducted by the Contractor at Central Kowloon Route, Yau Ma Tei West Section nor near Charming Garden on 29 August 2025. As no midnight construction works were conducted by the Contractor in the concerned area nor during the concerned period, the complaint was concluded as non-related to this Project. In view of public concerns, the following preventative measures were taken / to be taken:				
		e noise mitigation m properly implemen	neasures recommended in CNMMP and granted ted		
Remarks (Shown in next page)			Nil.		
Prepared by ET (Acuity Sustainability Consulting Limited)	Yoyo Mok	40/9			
Reviewed by ETL (Acuity Sustainability Consulting Limited)	/ Kevin Li /X /				
Verified by IEC (ERM-Hong Kong, Limited)	Mandy To	Mandy2.			
Date	8 Septemb	ber 2025			

Central Kowloon Route
Buildings, Electrical and
Mechanical Works
Contract No. HY/2019/13
(Yau Ma Tei West Area)

Gammon Construction Limited

Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

Monthly EM&A Report No. 60 (September 2025)

Version 1.0

Date of Report: 8 October 2025

Certified By

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract: Buildi	ngs, Electrical and Mechanical Works (HY/2019/13)
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Reference Document/Plan

Document/Plan to be Certified/ Verified: Monthly EM&A Report No.60 (Version 1.0) for Kai Tak East

& Yau Ma Tei West Areas

08 October 2025 Date of Report:

Date received by IEC: 08 October 2025

Reference EP Condition

Environmental Permit Condition: 3.4

Submission of Monthly EM&A Report of the Project

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

Mondy 20.

09 October 2025 Date:

Independent Environmental Checker

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.60_20251009.docx

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 60th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. HY/2019/13 "Central Kowloon Route Buildings, Electrical and Mechanical Works". This report summarized the monitoring results and audit findings of the EM&A programme under the issued EP No. EP-457/2013/D, and in accordance with the EM&A programme in Yau Ma Tei West Area during the reporting period from 1 September 2025 30 September 2025.
- 2. The major site activities undertaken in Yau Ma Tei Area in the reporting month included:
 - ABWF works

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor for Contract No. HY/2019/13 were conducted on 2, 9, 16, 23, & 30 September 2025, whereas joint site inspection with the representative of IEC was conducted on 16 September 2025. The implementation of the environmental mitigation measures, Event and Action Plans and environmental complaint handling procedures were also checked.
- 4. A summary of the non-compliance (exceedance) during the reporting month (September 2025) and the investigation results and/or follow-up actions is provided below:

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

Complaint Handling, Prosecution and Public Engagement

5. Summary of complaint/summons/prosecution in the reporting month is tabulated in **Table I**.

Table I Summary of Complaint/Summons/Prosecution in the Reporting Month

E-10-14	Event Details		Follow-up/ Remedial	Status/ Remarks
Event	Number	Brief Description	Actions	
Complaints	0	_	_	
Received	U		_	-
Notification of				
Summons and	0			
Prosecutions	U	-	-	_
Received				

Reporting Changes

6. There were no reporting changes during the reporting month.

Future Key Issues

- 7. The key works or activities will be anticipated in the coming two months are as follows:
 - ABWF works

1 INTRODUCTION

Background

- 1.1 Central Kowloon Route (CKR) is a 4.7km long dual 3-lane trunk road across Central Kowloon linking Yau Ma Tei Interchange in West Kowloon and the road network at Kai Tak Development and Kowloon Bay in East Kowloon. The underground tunnel section will be about 3.9km long. In particular, an underground tunnel of about 370m long in Kowloon Bay to the north of To Kwa Wan Typhoon Shelter will be constructed.
- 1.2 The Environmental Impact Assessment Report for Central Kowloon Route Design and Construction (Register No.: AEIAR-171/2013) was approved under the Environmental Impact Assessment Ordinance (EIAO) on 11 July 2013. An Environmental Permit (EP No.: EP-457/2013) was issued on 9 August 2013. Variations of Environmental Permit (VEP) was subsequently applied and an EP (EP No. EP-457/2013/C) was issued on 16 January 2017. The latest EP (EP No. EP-457/2013/D) was issued by Environmental Protection Department (EPD) on 15 June 2021.
- 1.3 The construction of the CKR had been divided into different sections. This Contract No. HY/2019/13 Central Kowloon Route Buildings, Electrical and Mechanical Works ("The Project") will include the architectural, civil and structural construction works of Yau Ma Tei Ventilation Building (YVB), Ho Man Tin Ventilation Building (HVB), Kai Tak Ventilation Building (KVB) and Central Kowloon Route Administration Building (ADB) for the CKR. The landscaping and electrical and mechanical (E&M) works within the building sites will be involved as well.
- 1.4 Cinotech Consultants Limited was assigned as the Environmental Team (ET) to undertake the EM&A works for the Project. The construction of this Contract was commenced on 12th October 2020.

Purpose of the Report

1.5 This is the 60th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in Yau Ma Tei West Area during the reporting period from 1 September 2025 – 30 September 2025. The Yau Ma Tei West Area site layout plan for the Project is shown in **Figure 1.1**.

Project Organizations

- 1.6 Different Parties with different levels of involvement in the project organization include:
 - Project Proponent Highways Department (HyD)
 - Engineer Representative (ER) Arup Mott MacDonald Joint Venture (AMMJV)
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) Environmental Resources Management Hong Kong Limited (ERM)
 - Contractor Gammon Construction Limited (GCL)

1.7 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.
AMMJV	Engineer Representative	Mr. Tommy Wong	3695 0419
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
ERM	Independent Environmental Checker	Ms. Mandy To	2271 3113
GCL	Contractor	Mr. William Chan	5408 3045

1.8 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

Construction Activities undertaken during the Reporting Month

- 1.9 The construction programme is presented in **Appendix A**.
- 1.10 The major site activities undertaken in the reporting month included:
 - ABWF works

Summary of EM&A Requirements

- 1.11 The EM&A programme requires air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.

Statues of Environmental Licensing and Permitting

1.13 All permits/licenses obtained for the Project are summarized in **Table 1.2**.

Table 1.2 Summary of Environmental Licensing and Permit Status

Table 1.2 Summary of Environm	Valid P				
Permit / License No.	From	То	Status		
Environmental Permit (EP)					
EP-457/2013/D	15 Jun 2021	N/A	Valid		
Notification of Construction Works	s under Air Pollution	Control Ordinanc	e (APCO)		
457325	19 Jun 2020	End of Project	Valid		
Billing Account for Construction W	Vaste Disposal				
7037679	26 Jun 2020	N/A	Valid		
Registration of Chemical Waste Pr	oducer – YVB				
5117-253-G2347-55	25 Aug 2020	N/A	Valid		
Wastewater Discharge Licence - Y	МТ				
WT00036898-2020	25 Nov 2020	30 Nov 2025	Valid		
Construction Noise Permit (YVB S	ite - General Works)				
GW-RE0343-25	14 Apr 2025	13 Oct 2025	Valid		

2 AIR QUALITY

Monitoring Requirements

2.1 As all of the air quality (1-hour TSP and 24-hour TSP) monitoring works in Yau Ma Tei West Area are currently covered under the Contract No. HY/2014/20 (Central Kowloon Route - Yau Ma Tei West), the corresponding monitoring parameters, equipment, methodology, results and established Action and Limit Levels could be referred to Section 3 of the EM&A report for Contract No. HY/2014/20 during this reporting month.

Observations

- 2.2 No Action/Limit Level exceedance was recorded for all 1-hour TSP and 24-hour TSP monitoring in the reporting month.
- 2.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

3 NOISE

Monitoring Requirements

3.1 As all of the construction noise monitoring works in Yau Ma Tei West Area are currently covered under the Contract No. HY/2014/20 (Central Kowloon Route - Yau Ma Tei West), the corresponding monitoring parameters, equipment, methodology, results and established Action and Limit Levels could be referred to Section 3 of the EM&A report for Contract No. HY/2014/20 during this reporting month.

Observations

- 3.2 No Action/Limit Level exceedance was recorded for all construction noise monitoring in the reporting month.
- 3.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

4 WASTE MANAGEMENT

Monitoring Requirements

4.1 Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D materials. Inert C&D waste includes soil, broken rock, broken concrete and building debris, while non-inert C&D materials are made up of C&D waste which cannot be reused or recycled and has to be disposed of at the designated landfill sites.

Results and Observations

4.2 The quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of the amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix B**.

 Table 4.1 Quantities of Waste Generated from the Project

Quantity							
	Inert C&I) Materials		Non-inert C&D Materials			
Reporting	Total	Disposed as	Others, e.g.	Metals	Paper/cardboard	Plastics	Chemical
Period	Quantity	Public Fill	general	(in	Packaging	(in	waste (in
	Generated	$(in '000m^3)$	refuse (in	'000kg)	(in '000kg)	'000kg)	'000kg)
	$(in '000m^3)$		'000m ³)				
Sep 2025	0.000	0.000	0.000	0	0	0	0

4.3 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation, and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summary of site audits is shown in **Table 6.1** of this report. The implementation status of the waste/chemical management measures in the reporting period are summarized in **Appendix** C.

Monthly EM&A Report No. 60 (Yau Ma Tei West) – August 2025

5 LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to the EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Site inspections of the implementation of landscape and visual mitigation measures would be undertaken at least once every two weeks during the construction period.

Results and Observations

- 5.2 Bi-weekly inspection of the implementation of landscape and visual mitigation measures within the site boundaries of this Project was conducted on 2, 16, & 30 September 2025. The implementation status of the landscape and visual mitigation measures in the reporting period are summarised in **Appendix C**. The summary of observations and recommendations made for landscape and visual mitigation measures during site audits are shown in **Table 6.1** of this report.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.

Monthly EM&A Report No. 60 (Yau Ma Tei West) – August 2025

6 ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site audits for Contract No. HY/2019/13 were conducted on 2, 9, 16, 23, & 30 September 2025 in the reporting month. Joint site inspection with the representative of IEC was conducted on 16 September 2025. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 6.3 According to Environmental Permit, the approved EIA Report (Register No.: AEIAR-171/2013), and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix C**.
- 6.4 The ET weekly site inspections were carried out during the reporting month and the observations and follow-up actions in Yau Ma Tei West Area are summarized in **Table 6.1**.

Table 6.1 Observations and Recommendations of Site Inspections

Parameters	Date	Observations	Follow-up Actions
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A
Waste / Chemical Management	16 Sep 2025	General refuse should be avoided accumulation.	General refuse has been removed.
Land Contamination	16 Sep 2025	Drip tray should be provided for chemicals and paint oil.	Chemical has been removed.
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A
Permits /Licences	N/A	No environmental deficiency was identified in the reporting period.	N/A

Implementation Status of Event and Action Plans

6.5 The Event and Action Plans for air quality and construction noise could be referred to Appendices D and E of the EM&A report in Contract No. HY/2014/20 respectively.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring

- No documented complaint on construction noise was received; no Action Level exceedance for day time construction noise monitoring was recorded.
- No Limit Level exceedance for day time construction noise monitoring was recorded in the reporting month.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.6 No environmental complaints, warning, notifications of summons and successful prosecutions were received in the reporting month. The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix D**

Status of Required Submission under Environmental Permit

6.7 Status of required submission under EP-457/2013/D during the reporting period are summarized in **Table 6.2**.

Table 6.2 Status of Required Submission under Environmental Permit

EP Condition (EP-457/2013/D)	Submission	Submission Date
Condition 3.4	Monthly EM&A Report (August 2025)	11 September 2025

Monthly EM&A Report No. 60 (Yau Ma Tei West) - August 2025

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - ABWF works
- 7.2 Key environmental issues in the coming two months include:
 - Stockpile accumulation on-site;
 - Water spraying for dust generating activities and on haul road;
 - Wastewater and runoff discharge from site;
 - Coverage of open manholes to avoid dirty runoff to drainage system;
 - Noise from operation of the equipment, especially for excavation works and machinery onsite;
 - Accumulation of general refuse and construction waste on-site;
 - Proper storage of construction materials on-site; and
 - Storage of chemicals/fuel and chemical waste/waste oil on-site.

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 This is the 60th Monthly EM&A Report which presents the EM&A works undertaken in Yau Ma Tei West Area during the reporting month from 1 September 2025 – 30 September 2025 in accordance with the EM&A Manual and the requirements under the EP.

Air Quality Monitoring

8.2 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

8.3 No Action/Limit Level exceedance was recorded for all noise monitoring in the reporting month.

Landscape and visual

8.4 No non-compliance was recorded in the reporting month.

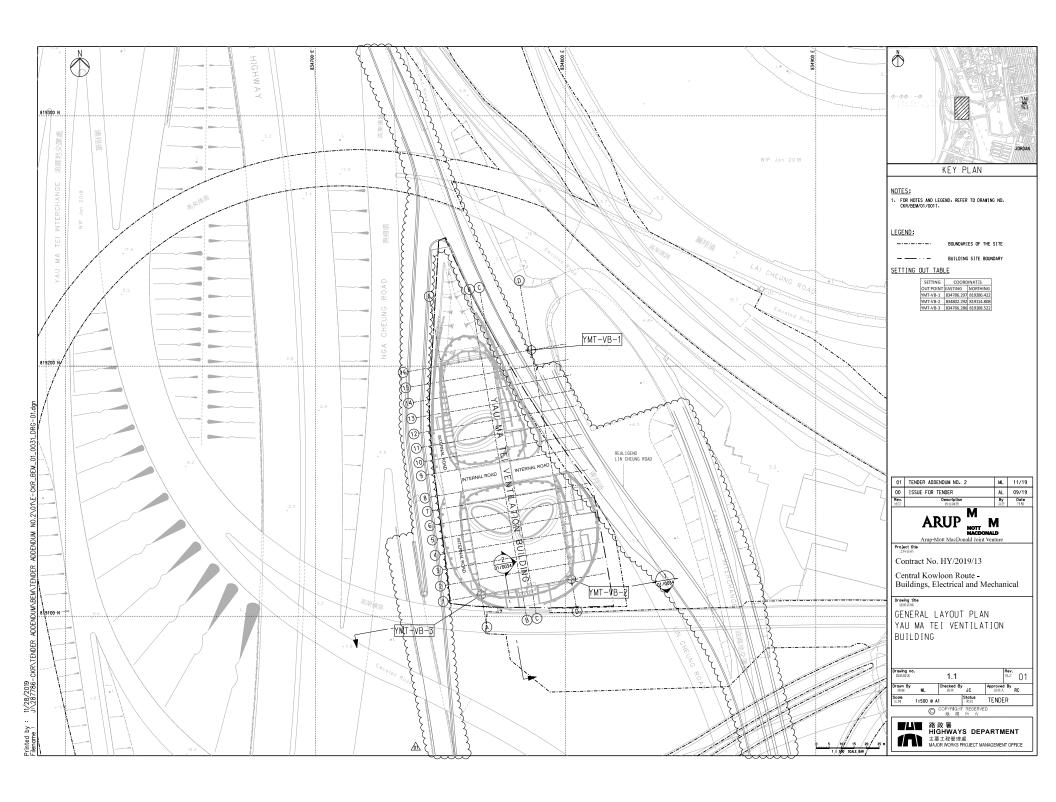
Site Audit

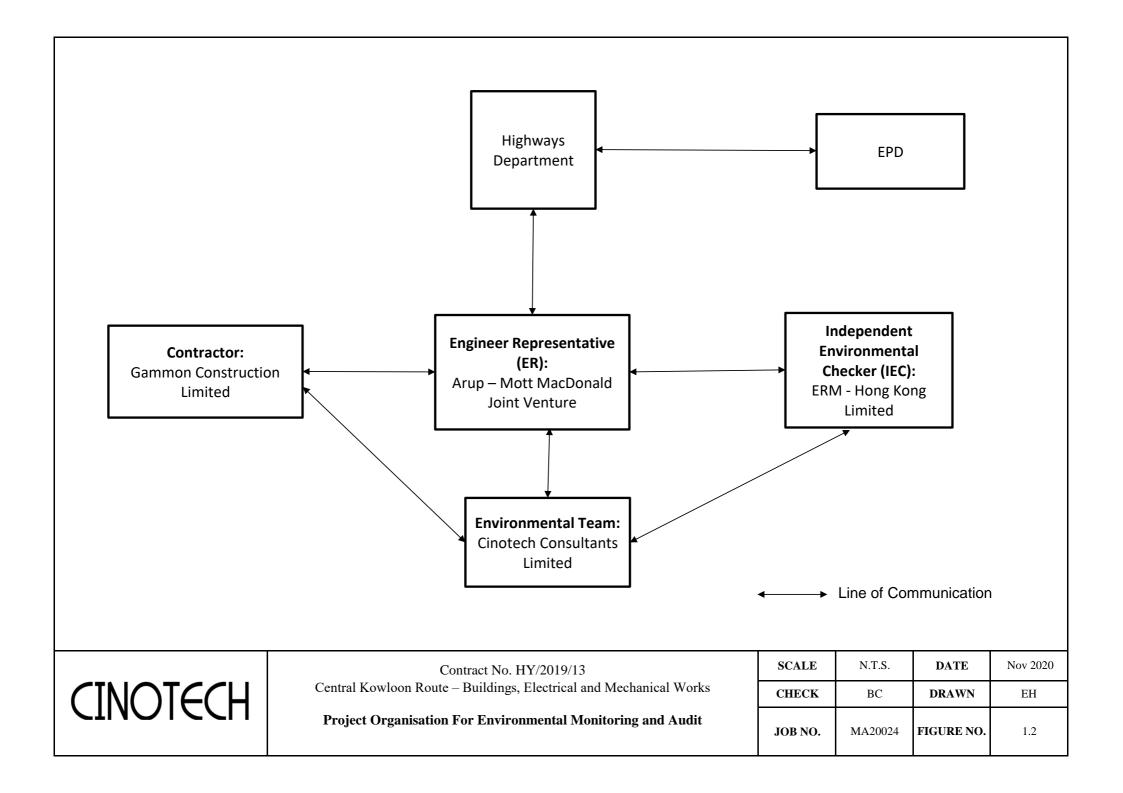
8.5 5 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor for Contract No. HY/2019/13 were conducted on 2, 9, 16, 23 & 30 September 2025, whereas joint site inspection with the representative of IEC was conducted on 16 September 2025. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

8.6 No environmental complaint and no notifications of summons and successful prosecutions were received in the reporting month.

FIGURES

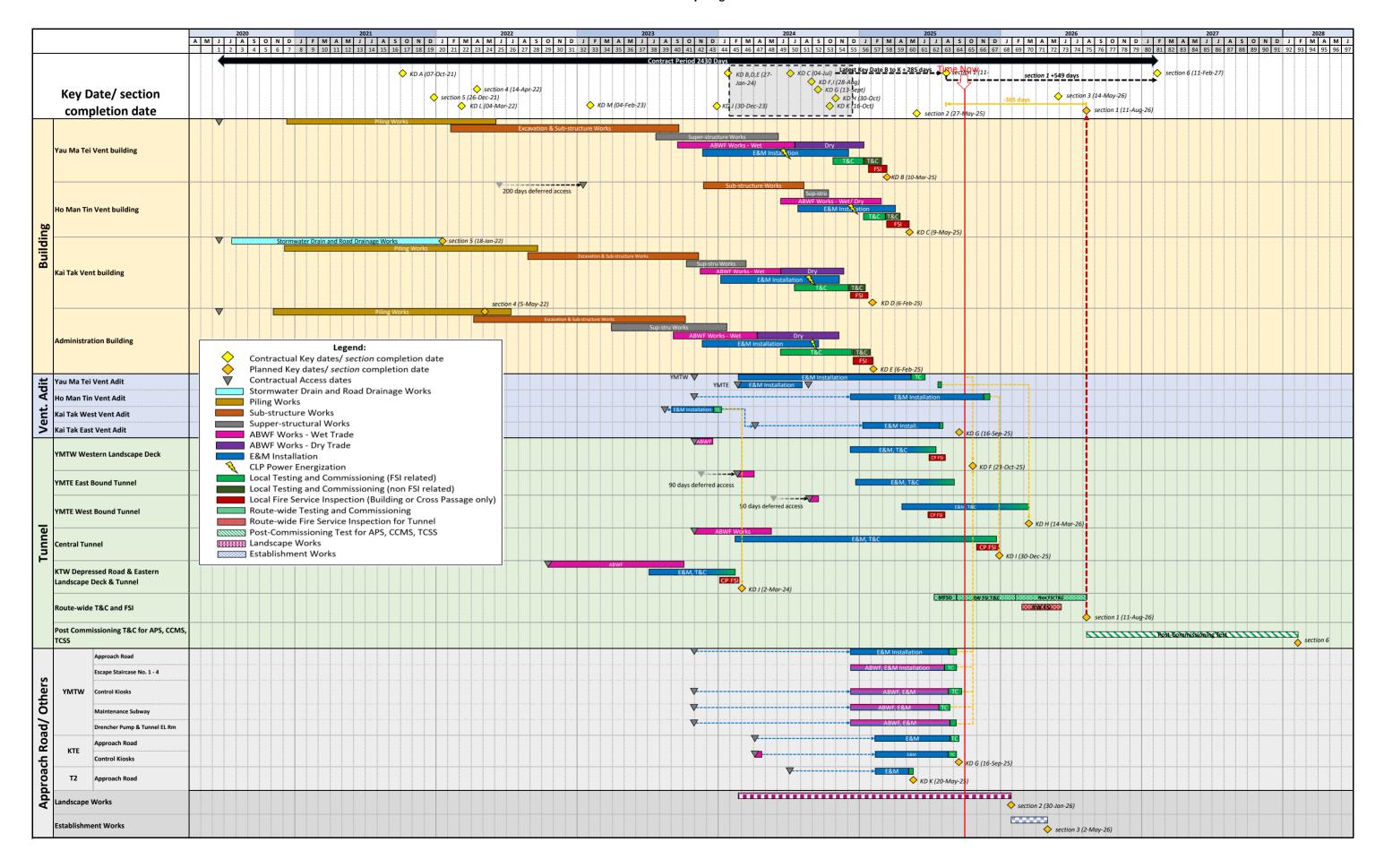




APPENDIX A CONSTRUCTION PROGRAMME

Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works Summary Programme





APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Monthly Summary Waste Flow Table

[PS Clauses 25.24(11)S & 25.34(16)(a)]

Annex 4 to Appendix C

Name of Department: HyD Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works

Yau Ma Tei Site Area

Monthly Summary Waste Flow Table for 2025 (year)

		Actual Quantit	tes of Inert C&D	Materials Genera	ited Monthly			Actual	Quantites of C&	D Waste Generat	ted Monthly	
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)
		(see Note 5)										
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)
Jan	0.085	0.000	0.000	0.000	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.092
Feb	0.193	0.000	0.000	0.000	0.193	0.000	0.000	0.000	0.000	0.000	0.000	0.079
Mar	0.005	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.046
Apr	0.027	0.000	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.043
May	0.021	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.086
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038
Sub-Total	0.332	0.000	0.000	0.000	0.332	0.000	0.000	0.000	0.000	0.000	0.000	0.384
Jul	0.003	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.020
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total (2025)	0.335	0.000	0.000	0.000	0.335	0.000	0.000	0.000	0.000	0.000	0.000	0.419
Total (whole)	89.388	0.000	0.000	57.554	31.834	0.000	0.000	0.000	0.000	0.000	0.000	7.419

Note:

- (1) The performance targets are given in PS Clause 25.24
- (2) The waste flow table shall also include C&D materails that are specified in the Contract to be imported for use at the Sites.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials, and water barriers
- (4)

The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.24

(5) Density values and Bulk Factors adopted:

Hard Rock and Large Broken Concrete: 2.4 T/m3 (in-situ) Bulk Factor: 1.25 Soil / Fill: 2.0 T/m3 (in-situ) Bulk Factor: 1.1

Marine Sediment: 2.0 T/m3 (in-situ) Bulk Factor: 1.3

General Refuse: 400 kg/m3
Chemical Waste (mainly used lubricant): 900 kg/m3

Tree Trunk / Tree Stump: 850 kg/m3 (in-situ) Bulk Factor: 1.1

- (6) The reported and forecast volume figures are in "bulk" volume, with Bulk Factor applied as per Note (5)
- (7) This figure refers to marine sediment disposed via dumping at sea. Treated Sediment for Reuse on-site will be categorized into "Reused in the Contract"

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
	n 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	^
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/m2 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	^
S4.3.10	D3	Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the	Contractor	All construction sites	Construction stage	- APCO - To control the dust	۸
		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.	nearby sensitive receivers				impact to meet HKAQO and TM-EIA criteria	^
		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 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.						^

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EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
		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 continuously.						۸
		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						۸
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						N/A
		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						^
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		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.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						N/A
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	^
Construction	n Noise (Airbor							
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	۸
		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.						۸
		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.						۸
		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.						N/A
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	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
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, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
S5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	٨
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	۸
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	۸
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	۸
Water Quali	ty (Construction	on Phase)						
S6.9.1.1	W1	Construction Runoff 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.	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	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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 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.						۸
		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.						N/A
		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.						N/A
		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 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.						^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
		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.						۸
		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 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.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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 September) as far as practicable.						۸
S6.9.1.2	W2	Tunneling Works and Underground Works 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 September) as far as practicable.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	N/A
		Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge.	WOIKS				- TWI-D33	۸
		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.						N/A
		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.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.3	W3	Sewage Effluent 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 responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - TM-DSS	۸
S6.9.1.5		Groundwater from Potential Contaminated Area: 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.	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	- Water Pollution Control Ordinance - TM-EIAO - TM-DSS	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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 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.						۸
		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.						N/A
S6.9.1.6	W6	Accidental Spillage 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	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	٨
		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.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
	gement (Const		c c	C	I 4 11	G:	DEVID (W) M. (/2010	^
S7.4.1	WM1	On-site sorting of C&D material 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 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.	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	
S7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.	Good site practice to minimize the waste generation and recycle the	Contractor	All construction sites	Construction stage	· Land (Miscellaneous Provisions) Ordinance · Waste Disposal Ordinance	۸
		Carry out on-site sorting.	C&D materials as				· ETWB TCW No.	^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate	far as practicable so as to reduce the amount for final				19/2005	^
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.	disposal					N/A
		Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						^
		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.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S7.5.1	WM3	C&D Waste 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 onsite. 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	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	N/A
S7.5.1	WM4	Storage. Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for onsite reuse	Contractor	РВН4	t of	· Practice Guide (PG) for Investigation and Remediation of Contaminated Land · GN/GM for land contamination	۸
S7.5.1	WM5	Land-based and Marine-based Sediment 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	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	· ETWB TCW No. 34/2002	^ N/A
		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.						

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		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.						N/A
		Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.						N/A
		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.						N/A
		The Contractors shall comply with the conditions in the dumping licence.						۸
		All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.						N/A
		The material shall be placed into the disposal pit by bottom dumping.						N/A
		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.						N/A
		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.						N/A
		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.						N/A

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\$7.5.1	WM6	Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical	*
		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.					Waste	۸
		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.						۸
		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.						۸
\$7.5.1	WM7	General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest	Contractor	All construction sites	Construction stage	· Waste Disposal Ordinance	*
		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.	and litter impacts					^
		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.						۸

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		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.						۸
Land Contai	mination					•		
S8.9 & Appendix 8.4	LC2	Excavation of the Contaminated Soil 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 during stockpiling.	The contaminated soil will be excavated for onsite reuse	Contractor	PBH4	t of construction works within the contaminated	Practice Guide (PG) for Investigation and Remediation of Contaminated Land - Guidance Notes for Contaminated Land Assessment and Remediation - Guidance Manual for	N/A
		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.					Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	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 sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	۸
S9.18	Н9	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	/	۸

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Landscape a	nd Visual							
S10.10.1 Table 10.11	LV3	Good Site Management 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 Phase	/	۸
		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	Screen Hoarding 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 Phase	/	^
S10.10.1 Table 10.11	LV5	Lighting Control during Construction 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 Phase	/	۸
S10.10.1 Table 10.11	LV6	Erosion Control 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 Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	Tree Protection & Preservation 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.	visual impact	Contractor	Within Project site		· 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB · Latest recommended horticultural practices from GLTM Section,	N/A
S10.10.1 Table 10.11	LV8	Tree Transplantation 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.	visual impact	Contractor	Within Project site and designated off- site locations		· ETWB TCW 3/2006 · Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB · ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV9	Compensatory Planting 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.	enhance landscape	Contractor	Within Project site		· ETWB TCW 3/2006 · Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB · ETWB TCW 2/2004	N/A

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S10.10.1 Table 10.11	LV10	Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction Phase	· Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB · ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV11	Green Roof Roof greening will be established on ventilation and administration buildings to reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels.	Minimize landscape and visual impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV12	Reinstatement All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV13	Reprovising of Public Open Space All areas of public open space affected by the Project will be reprovisioned either at the same location following the completion of temporary works, or at a separate site, as agreed with relevant Government departments. Open space should be re-provisioned in an enhanced manner.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	Open space should be re-provided in an enhanced manner.	N/A
Cultural Her	ritage Impact (Construction Phase)						
S11.4.4	СН1	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	During the Construction Phase	· AMOs requirements	N/A

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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	۸
\$13.2-13.4	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	· EIAO Guidance Note No. 4/2010 · TM-EIAO	^
		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.						^

Remarks: F	M&A Programme under EP-457/2013/D
^	Compliance of mitigation measure;
N/A N/A(1)	Not applicable at this stage; Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
X	Non-compliance of mitigation measure;
•	Non-compliance but rectified by the contractor.

APPENDIX D SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION **Complaint Log on Reporting Month (September 2025)**

Log Ref.	Location	Received Date	Details of Complaint/warning/ summon and prosecution	Investigation/ Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint and warning/summon and prosecution was received in the reporting period.

Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions and Public Engagement Activities

Reporting Period	Site Location	Frequency	Cumulative	Details			
			Environmental Complaint Statistics				
		0	3	N/A			
	Kai Tak East	Environmental Non-compliance Statistic					
	Kai Tak East	0	0	N/A			
		Envi	ronmental Summon and Prosecution Stat	tistic			
		0	0	N/A			
	Yau Ma Tei West		Environmental Complaint Statistics				
		0	0	N/A			
September 2025		Environmental Non-compliance Statistic					
September 2023		0	0	N/A			
		Environmental Summon and Prosecution Statistic					
		0	0	N/A			
		Environmental Complaint Statistics					
		0	7	N/A			
	Ho Man Tin		Environmental Non-compliance Statistic				
	Ho Man 11n	0	0	N/A			
		Environmental Summon and Prosecution Statistic					
		0	0	N/A			

Central Kowloon Route Remaining Works Contract No. HY/2023/08 (Yau Ma Tei West area)





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Reference Document/Plan	
Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.7 (Yau Ma Tei West Area)
Date of Report:	08 October 2025
Date received by IEC:	08 October 2025

Remaining Works (HY/2023/08)

Reference EP Condition

Works Contract:

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

Mondy 20.

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

Ms Mandy To Date: 08 October 2025

Independent Environmental Checker

Our ref: 0436942 IEC Verification Cert RMW Monthly EM&A Rpt No.7(YMTW) 20251008.docx

Contract No.: HY/2023/08 Central Kowloon Route – Remaining Works

Monthly Environmental Monitoring and Audit – Yau Ma Tei West Area – Report No. 7 (Period from 1st to 30th September 2025)

Build King – Tung Lee Joint Venture

Reference: P528199

Revision: 0 **2025-10-08**



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Aurecon Hong Kong Limited

Unit 1608, 16/F, Tower B, Manulife Financial Centre 223 -231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong.

T 3664 6888

F 3664 6999

E hongkong@aurecongroup.com

W www.aurecongroup.com

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Curre	ent revision	0					

Approval					
Author signature	Kmer	Approver signature	Tour Failbearg		
Name	Kisten Ma	Name	F. C. Tsang		
Title	Senior Consultant	Title	Environmental Team Leader		



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Appendix A	Alignment and Works Site in Yau Ma Tei West Area for Contract No. HY/2023/08
Appendix B	Construction Programme
Appendix C	Project Organization Chart
Appendix D	Event and Action Plan (EAP) (Air Quality Monitoring)
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Appendix F	Environmental Mitigation Implementation Schedule (EMIS)
Appendix G	Waste Flow Table
Appendix H	Statistics on Complaint, Notifications of Summons and Successful Prosecutions



Executive Summary

- 1.1.1 Build King Tung Lee Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2023/08 Central Kowloon Route Remaining Works at Yau Ma Tei West Area ("The Project") on 1 March 2025. This is the 7th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out in the Yau Ma Tei West Area during the period from 1 September 2025 to 30 September 2025.
- 1.1.2 A summary of major construction activities informed by the Contractor for the Project during the reporting period is presented below.

Construction Activities Undertaken in Yau Ma Tei West

- Planter wall construction at Yau Ma Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C)
- Drainage works and cable ducting woks (lighting, power and CCTV) at Yau Ma
 Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C)
- Planter wall, kerb and footing construction at Yau Ma Tei West Landscaped
 Deck (Portion of Site Part 1A, 1B and 1C)
- Excavation works at Jade Hawker Bazaar works area

Environmental Monitoring and Audit Works

- 1.1.3 Regular construction air quality monitoring (24-hour TSP and 1-hour TSP) and noise monitoring works in Yau Ma Tei West Area are currently covered under Contract No. HY/2014/20 Central Kowloon Route Yau Ma Tei West. Details of the monitoring works could be referred to Sections 3 of the corresponding Monthly EM&A Report for Contract No. HY/2014/20.
- 1.1.4 Joint weekly site inspections were conducted by representatives of the Environmental team (ET), the Contractor and the Engineer on 5, 12, 19 and 26 September 2025. A joint site inspection with the Independent Environmental Checker (IEC) was undertaken on 12 September 2025. Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted by the ET on 5 and 19 September 2025. Details of the audit findings and implementation status are presented in **Section 7**. Details of waste management are presented in **Section 4**.



- 1.1.5 A summary of the non-compliance (exceedance) during the reporting period is provided below.
 - Air quality Monitoring
 - No Action / Limit Level exceedance for 1-hour TSP was recorded.
 - No Action / Limit Level exceedance for 24-hour TSP was recorded.
 - Noise Monitoring
 - No Action / Limit Level exceedance for construction noise was recorded.

Complaints, Notification of Summons and Successful Prosecution

1.1.6 No environmentally related complaints, notification of summons and successful prosecution were received in the reporting period.

Reporting Changes

1.1.7 There were no reporting changes during the reporting period.

Future Key Issues

1.1.8 A summary of construction activities informed by the Contractor for the next reporting period are listed below:

Construction Activities To be Undertaken in Yau Ma Tei West Area

- Drainage works and cable ducting woks (lighting, power and CCTV) at Yau Ma
 Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C)
- Planter wall, kerb and footing construction at Yau Ma Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C)
- Planter wall construction at Yau Ma Tei West Landscaped Deck (Site Part 1D)
- Site clearing and mobilization works at North Tree Park
- Excavation works at Jade Hawker Bazaar works area
- Footing construction at Jade Hawker Bazaar

1 Introduction

1.1 Basic Project Information

- 1.1.1 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.
- 1.1.2 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 subsequently applied for and the latest EP (EP-457/2013/D) was issued by the EPD on 15 June 2021.
- 1.1.3 The construction of the CKR had been divided into different sections. Contract No. HY/2023/08 Central Kowloon Route Remaining Works covers part of the construction activities located at Kai Tak West Area and Yau Ma Tei West Area under the EP, including:
 - design and construction of landscaping works at Yau Ma Tei Landscaped Deck, Yau Ma Tei Rest Gardens, North Tree Park and Kai Tak Phase 2B Landscaped Deck:
 - improvement of a section of Kai Fuk Road of approximately 300 metres in length;
 - planting of compensatory trees; and
 - associated civil works, electrical and mechanical works, road and drainage works, lighting works and establishment works.
- 1.1.4 The works site at Yau Ma Tei West Area for Contract No. HY/2023/08 are shown in **Appendix A**.

1.2 Purpose of the Report

1.2.1 This is the 7th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out for the Project in the Yau Ma Tei West Area during the period from 1 September 2025 to 30 September 2025.



1.3 Construction Activities Undertaken During the Reporting Period

1.3.1 A summary of major construction activities carried out during the reporting period are presented in **Table 1.1**. The construction programme is presented in **Appendix B**.

Table 1.1 Summary of Construction Activities during the Reporting Period

Construction Activities Undertaken in Yau Ma Tei West Area	Progress
 Planter wall, kerb and footing construction at Yau Ma Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C) 	95%
 Drainage works and cable ducting woks (lighting, power and CCTV) at Yau Ma Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C) 	15%
Excavation works at Jade Hawker Bazaar works area	10%

1.4 Project Organisation

1.4.1 The project organization structure is shown in **Appendix C**. The key personnel contact names and numbers for the Project are summarized in **Table 1.2**.

Table 1.2 Contact Information of Key Personnel

Party	Role	Position	Name	Contact No.
Arup – Mott MacDonald Joint Venture	Engineer's Representative ("ER")	Resident Engineer (Environmental)	Ms. Jim Li	9120 1157
ERM – Hong Kong Limited	Independent Environmental Checker ("IEC")	IEC	Ms. Mandy To	2271 3313
Aurecon Hong Kong Limited	Environmental Team ("ET")	ET Leader	Mr. F. C. Tsang	3664 6801
Build King – Tung Lee Joint Venture	Contractor	Environmental Officer	Mr. Samuel Pang	9876 9121

1.5 Status of Environmental Licences, Notification and Permit

1.5.1 A summary of the valid permits, licences, and/ or notifications on environmental protection for this Project is presented in **Table 1.3**.

Table 1.3 Summary of the Environmental Licence, Notification, Permit and Documentations

Permit/	Valid	Period	Status	Remark
License/ Notification / Reference No.	From	То		
Environmental P	ermit			
EP-457/2013/D	15 June 2021		Valid	
Wastewater Disc	harge License			
1				The contractors of Contract No. HY/2014/20—Central Kowloon Route — Yau Ma Tei West (for Yau Ma Tei West (for Yau Ma Tei Landscaped Deck) and, Contract No. HY/2014/08—Central Kowloon Route — Yau Ma Tei East (for Jade Hawker Bazaar works area), will accept all discharge from the Project for treatment prior to discharge.
Notification of Co	onstruction Works	IInder the Air Polli	ıtion Contr	
Dust Regulation)				
10007351, 10007352	25 July 2024	End of Project	Notified	
Chemical Waste	Producer Registra	tion		
5213-252- B2767-01	14 August 2024		Valid	
Billing Account f	or Disposal of Con	struction Waste		
7051793	6 August 2024		Valid	
Y-Park Members	hip			
C0280	12 August 2024		Valid	
Construction No	sie Permit			

Permit/	Vali	d Period	Status	Remark
License/ Notification /	From	То		
Reference No.				
Collection of Publ	ic Fill at Public	Fill Reception Facility		
TKO137- HY/2023/08-002	1 July 2025	31 December 2025	Valid	



2 Environmental Status

2.1 Environmental Permit (EP) Submission Status

2.1.1 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) during 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 for the Project

EP Condition (EP-457/2013/D)	Submission	Submission Date
3.4	Monthly EM&A Report – Yau Ma Tei West Area (August 2025)	13 September 2025



3 Air Quality and Noise Monitoring

3.1 Air Quality

Monitoring Requirements and Results

3.1.1 The air quality (24-hour TSP, 1-hour TSP) monitoring works in Yau Ma Tei West Area are currently covered under Contract No. HY/2014/20 – Central Kowloon Route – Yau Ma Tei West. Details of the corresponding monitoring parameters, equipment, methodology, monitoring schedule wind data, results and the established Action and Limit Levels could be referred to Section 3 of the corresponding Monthly EM&A Report for Contract No. HY/2014/20.

Observations

- 3.1.2 No Action/ Limit Level exceedance was recorded for all 1-hour TSP and 24-hour TSP monitoring in the reporting period.
- 3.1.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. A summary of observation during the site audits is shown in Table 7.1 of this report.

3.2 Noise

Monitoring Requirements and Results

3.2.1 The construction noise monitoring works in Yau Ma Tei West Area are currently covered under Contract No. HY/2014/20 – Central Kowloon Route – Yau Ma Tei West. Details of the corresponding monitoring parameters, equipment, methodology, results and the established Action and Limit Levels could be referred to Section 3 of the corresponding Monthly EM&A Report for Contract No. HY/2014/20.

Observations

3.2.2 No Action/ Limit Level exceedance was recorded for construction noise monitoring in the reporting period.



3.2.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of noise mitigation measures within the site boundaries of this Project. A summary of observations during the site audits is shown in **Table 7.1** of this report.



4 Waste Management

- 4.1.1 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.
- 4.1.2 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

Table 4.1 Quantities of Waste Generated from the Project in the Reporting Period

			Quantit	у						
D			Non-inert C&D Materials							
Reporting period	Inert C&D Chemical		Others, e.g. General	Recycled materials						
period	Materials (in '000 kg)	Waste (in 'kg)	Refuse disposed of at Landfill (in '000kg)	Paper/ cardboard (in '000kg)	Plastics (in '000 kg)	Metals (in '000 kg)				
September 2025	109.07	0.000	46.55	0.000	0.000	0.000				

5 Landscape and Visual

- 5.1.1 As per the EM&A Manuals, the landscape and visual mitigation measures shall be implemented, and site inspections should be undertaken once every two weeks during the construction period.
- 5.1.2 Bi-weekly inspection of the implementation of landscape and visual mitigation measures was conducted on 5 and 19 September 2025. The observations and recommendations made during the site inspections are presented in **Table 7.1**. A summary of the implementation status is presented in **Appendix F**.



6 Summary of Complaints, Notification of Summons and Prosecutions

6.1.1 The environmental Complaints Handling Procedures is shown below.

Complaint Received	d via Project Hotline	Complaint Received via government departments								
Contractor notify	ER, ET and IEC	ER notify Contract	ctor, ET and IEC							
Contractor log compla	Contractor log complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint									
If complaint is cor	nsidered not valid	If complaint is	s found valid							
ET or ER to reply to neces	•	Contractor to identify an measures in consultation ER.								
		The ER, ET and IEC to review the effectivenes of the Contractor's remedial measures and the updated situation; ET to undertake addition monitoring and audit to verify the situation necessary and oversee that circumstance leading to the complaint do not recur. ER 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 timeframe 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										

- 6.1.2 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.
- 6.1.3 No exceedance of the Action and Limit Levels of air quality (1-hour TSP and 24-hour TSP) monitoring and noise monitoring was recorded in the reporting period.
- 6.1.4 No complaint was received in the reporting period.
- 6.1.5 No non-compliance was received in the reporting period.
- 6.1.6 No notification of summons and successful prosecution was received in the reporting period.
- **6.1.7** Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix H.**



7 EM&A Site Inspection

- 7.1.1 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, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 5, 12, 19 and 26 September 2025, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 5 and 19 September 2025.
- 7.1.2 One joint site inspection with the IEC was also undertaken on 12 September 2025. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 7.1**.

Table 7.1 Summary of Site Observation

Date	Environmental Observations	Follow-up Status
5 September 2025	Nil.	Nil.
12 September 2025	At Yau Ma Tei West Landscaped Deck, construction packaging waste should be removed timely.	The site tidiness was improved (Rectified on 18 September 2025)
19 September 2025	At Jade Hawker Bazaar works area, chemical containers were observed without drip tray(s), drip trays should be provided to avoid leakage.	The chemical containers in concerned were removed. (Rectified on 25 September 2025)
	2. At Yau Ma Tei West Landscaped Deck, a few general waste bins and recycling bins were damaged without lids, bins without lids should be replaced or removed on site.	2. The damaged general waste bins and recycling bins were removed from site. (Rectified on 2 October 2025)
26 September 2025	Nil.	Nil.

- 7.1.3 The Contractor has rectified all observation identified during environmental site inspection.
- 7.1.4 According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents had been implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix F**.

8 Future Key Issues

8.1.1 The construction activities to be undertaken in the next reporting period are listed below:

Construction Activities To be Undertaken in Yau Ma Tei West Area

- Drainage works and cable ducting woks (lighting, power and CCTV) at Yau Ma
 Tei West Landscaped Deck (Portion of Site Part 1A, 1B and 1C)
- Planter wall, kerb and footing construction at Yau Ma Tei West Landscaped
 Deck (Portion of Site Part 1A, 1B and 1C)
- Planter wall construction at Yau Ma Tei West Landscaped Deck (Site Part 1D)
- Site clearing and mobilization works at North Tree Park
- Excavation works at Jade Hawker Bazaar works area
- Footing construction at Jade Hawker Bazaar
- 8.1.2 Potential environmental impacts arising from the above construction activities are mainly associated with dust noise and waste management.
- 8.1.3 The tentative schedule of air quality (1-hour TSP and 24-hour TSP) monitoring and noise monitoring in the next reporting period is presented in Appendix P of the corresponding Monthly EM&A Report for Contract No. HY/2014/20.
- 8.1.4 The construction programme for the Project for the next reporting period is presented in **Appendix B**.

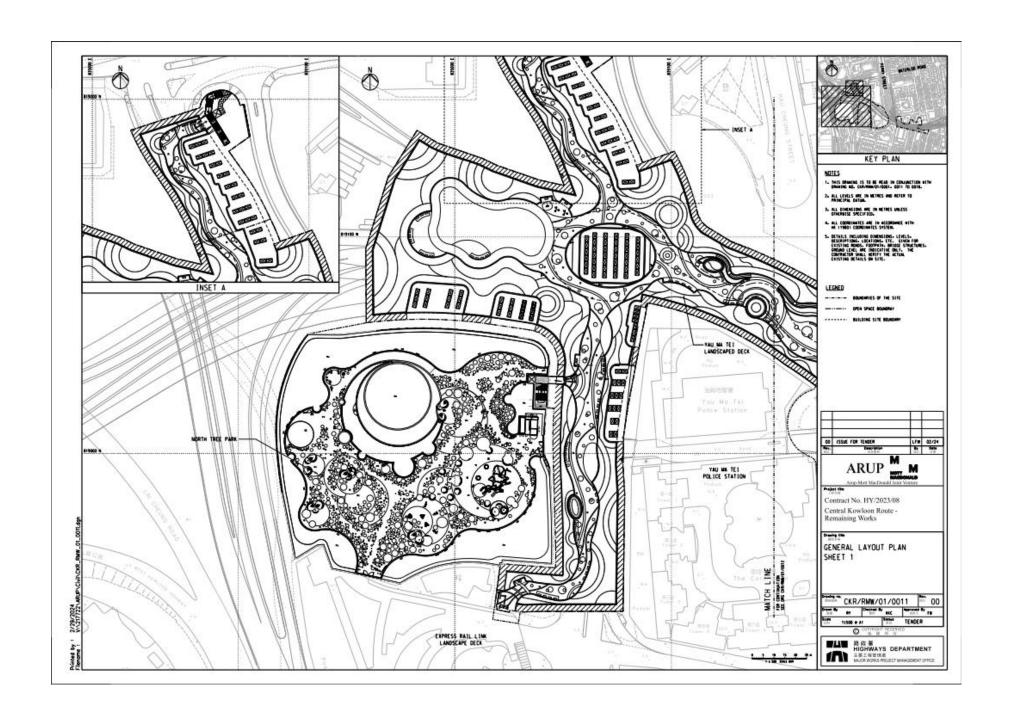


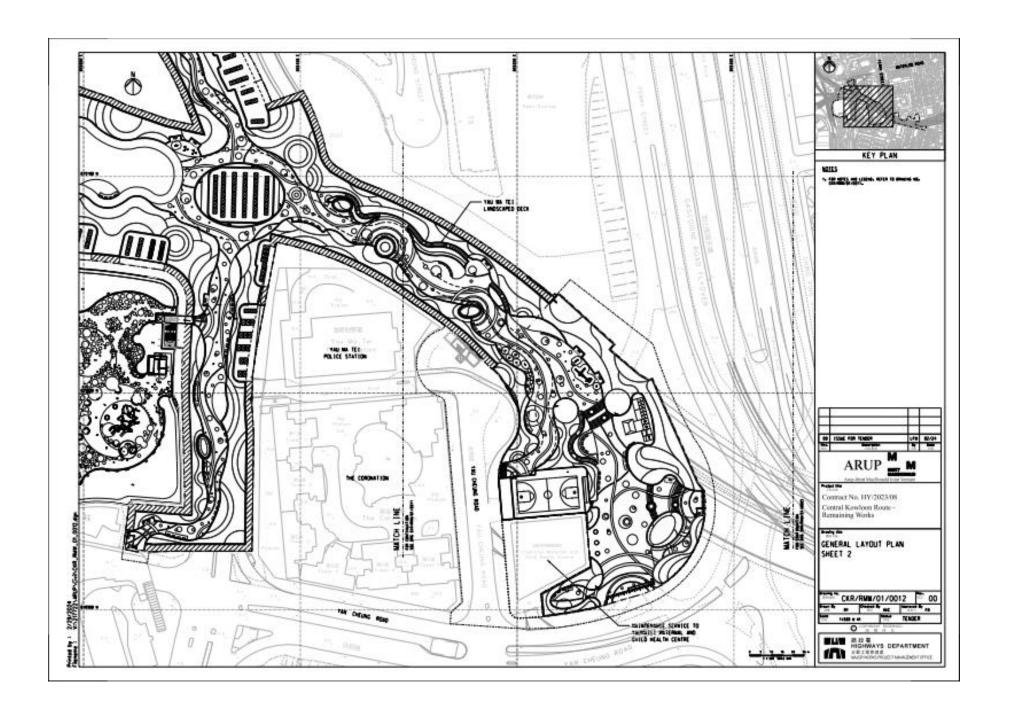
9 Conclusion and Recommendations

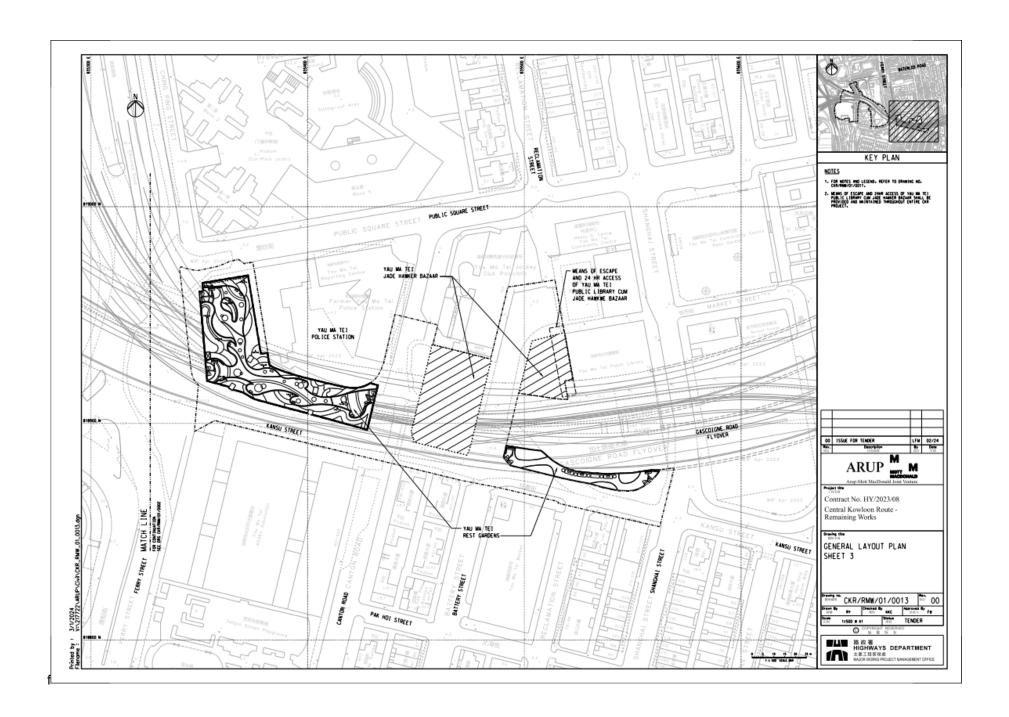
- 9.1.1 This is the 7th monthly EM&A Report presenting the EM&A works undertaken in Yau Ma Tei West Area during the period from 1 September 2025 to 30 September 2025 in accordance with the EM&A Manual and the requirement under EP-457/2013/D.
- 9.1.2 Air quality monitoring (including 1-hour TSP and 24-hour TSP) and noise monitoring were carried out in the reporting period under Contract No. HY/2014/20. No exceedance of the Action or Limit Level was recorded for air quality monitoring and noise during the reporting period.
- 9.1.3 Weekly environmental site inspections by representatives of the ET, the Contractor and the Engineer were conducted during the reporting period. One joint site inspection with the IEC was carried out on 12 September 2025. Minor deficiencies were observed during site inspection and was rectified within specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 9.1.4 No complaint was received in the reporting period.
- 9.1.5 No non-compliance situation was received in the reporting period.
- 9.1.6 No notification of summons or prosecution was received since commencement of the Contract.
- 9.1.7 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 Site in Yau Ma Tei West Area for Contract No. HY/2023/08





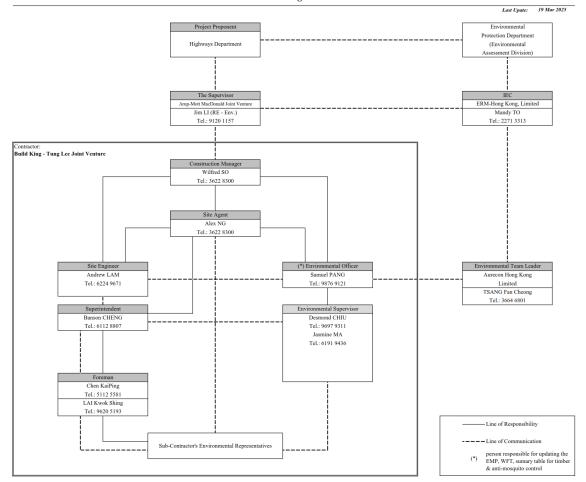


Appendix B
Construction Programme

					Jul A S	OND	J F M	A M J	ASO	N D J F	M A	A M. L N	S O N	DJF	M A M	M A S O N	D J F M	A M J	A S O	N D
entral Kowloon Ro	ute - Remaining Works	1517			V														V	T
onstruction Works		1517	15-Jul-24 A	08-Sep-28	▼						+		+				-		~	
reliminary Submissions		148	15-Jul-24 A	04-Dec-24 A	~	_														
Key Date A and Section 1 - Ya	au Ma Tei Landscaped Deck	1387	29-Jul-24 A	15-May-28	V-						_		+-	+	+		-	~		
Preliminaries		663	29-Jul-24 A	22-May-26	~						+	▼					'			
TTA Application and Impleme	entation	297	04-Oct-25	27-Jul-26					·					1	1					
Site Works		788	20-Aug-24 A	16-Oct-26	~			-	_	_	+	+	~				'			
Completion and Establishme	ent Works	807	28-Feb-26	15-May-28							- 	-	+	+	+	\vdash	+	~		
S1.YMTLD.9000 Plan	nned Completion for Key Date A	0		28-Feb-26							♦ 28-F	b-26					'			
S1.YMTLD.9010 Cor	ntract Completion for Key Date A	0		28-Feb-26*	1						♦ 28-F	b-26*								
S1.YMTLD.9020 Plan	nned Completion for Section 1 of the Works	0		16-Oct-26	 	†							♦ 16 -	Oct-26	†****			tt		
S1.YMTLD.9030 Cor	ntract Completion for Section 1 of the Works (407 days after access date of Part 1D)	0		15-Nov-26*	1								• 1	15-Nov-2	26*		'			
	nned Completion for Section 1A of the Works	0		15-Apr-28														◆ 15-Apı	-28	
	ntract Completion for Section 1A of the Works (547 days - Establishment Works of Section 1)	0		15-May-28*	1												'	◆ 15-I	1ay-28*	
Section 2 - Yau Ma Tei Rest G		1333	15-Jan-25 A	_			<u> </u>	-	-	_	+	+	+	+-	+-		+-	+ +	~	
Preliminaries		240		12-Aug-26	<u> </u>	†				V				+	†		+	++		
TTA Application and Impleme	entation		15-Jan-25 A	01-Jun-26			v-	-		_	+	-								
Site Works			26-Sep-25	11-Mar-27					-	_	-	-	+-	+	7					
Completion and Establishme	ent Works	663		08-Sep-28									<u></u>	1	-	-	+	-		
	nned Completion for Section 2 of the Works	003	.0-1101-20	11-Mar-27										1.	11-Mar	27				
	ntract Completion for Section 2 of the Works (489 days after access date of Parts 2A and 407 days after 2B & 2C)	0		15-Nov-26*	 	 							• 1	15-Nov-				 		
	nned Completion for Section 2.6 at the Works	0		08-Sep-28	-									1					◆ 08-	-Sen-
	ntract Completion for Section 2A of the Works thract Completion for Section 2A of the Works (547 days - Establishment Works of Section 2)	0		15-May-28*	-													♦ 15-1		оср
Section 3 - North Tree Park	indact Completion for Section 2A of the Works (34/ days - Establishment Works of Section 2)	-	20-May-25 A	-	ll .			-			_			-				- "		
Preliminaries			24-May-25 A					_			_	~								
TTA Application and Impleme	entation			01-Jun-26	ļ	ļ						<u>-</u>			-			 		
Site Works	GIII GIII GIII GIII GIII GIII GIII GII		26-Sep-25 20-May-25 A									`								
Completion and Establishme	ant Waste							`											,	
		558	04-Jan-27	15-Jul-28										[,, ,	i Jain-27					
	nned Completion for Section 3 of the Works	0		04-Jan-27											Jan-27*		'			
	ntract Completion for Section 3 of the Works (488 days after access date of Parts 3A and 3B)	0		15-Jan-27*	ļ	ļ								¥ 13-	Jan-21			ļ <u>Ļ</u>		
	nned Completion for Section 3A of the Works	0		04-Jul-28													'		04-Jul-2 15-Jul-	
	ntract Completion for Section 3A of the Works (547 days - Establishment Works of Section 3)	0		15-Jul-28*													'		15-Jul-	28"
Section 4 - Kai Tak Phase 2B	Landscaped Deck		01-Nov-24 A													~				
Preliminaries			12-Dec-24 A	21-Jan-26		_											'			
TTA Application and Impleme	entation		01-Sep-25 A		ļ						!				<u> </u>			ļļ.		
Site Works			01-Nov-24 A	18-Jul-26		_						Τ'								
Completion and Establishme		369	18-Jul-26	22-Jul-27								V				7	'			
	nned Completion for Section 4 of the Works	0		18-Jul-26									-Jul-26				'			
	ntract Completion for Section 4 of the Works (488 days after access date of Parts 4A)	0		22-Jul-26*								◆ 2 2	-Jul-26*							
S4.KTLD.9020 Plan	nned Completion for Section 4A of the Works	0		18-Jul-27	<u> </u>										<u> </u>	♦ 18-Jul-27		<u> </u>		
	ntract Completion for Section 4A of the Works (365 days - Establishment Works of Section 4)	0		22-Jul-27*												◆ 22-Jul-27*				
	rices of Yaumatei Maternal and Child Health Centre	913	20-Nov-25	20-May-28						V	\neg						\top			
Maintenance Services		913	20-Nov-25	20-May-28						<u> </u>	\neg	_	\top	1			\top	_		
Completion		0	20-May-28	20-May-28														▽		
S6.YMCHC.9000 Pla	nned Completion for Section 6 of the Works	0		20-May-28	ļ		L											: :	May-28	
S6.YMCHC.9010 Cor	ntract Completion for Section 6 of the Works (912 days after access date of Parts 6)	0		20-May-28*										1	T		1	◆ 20 -	May-28*	
Section 7 - Yau Ma Tei Jade H	lawker Bazaar	961	25-Oct-24 A	12-Jun-27		∇				\rightarrow	+		+	1	_					
Preliminaries		180	12-Oct-25	09-Apr-26					▽-		_									
TTA Application and Impleme	entation	589	25-Oct-24 A	05-Jun-26		∨		-		_	+	-⊽								
Site Works		679	20-Jun-25 A	29-Apr-27				V		_	+	+	+	+	 					
Completion			29-Apr-27	12-Jun-27	İ	İ								+	~~		1	$t^{}t$		
S7.YMTJHB.9000 Plan	nned Completion for Section 7	0		29-Apr-27											◆ 29 -	Apr-27				
	ntract Completion for Section 7 of the Works (651 days after access date of Parts 7)	0		12-Jun-27*	1											12-Jun-27*	1			

Appendix C Project Organisation Chart

Contract No.: HY/2023/08 Central Kowloon Route - Remaining Works Environmental Organization Chart





EVENT	ACTION			
	ENVIRONMENTAL TEAM (ET)	INDEPENDENT ENVIRONMENTAL CHECKER (IEC)	ENGINEER'S REPRESENTATIVE (ER)	CONTRACTOR
ACTION LEVI	EL			
Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 1. Check monitoring data submitted by causement of the cause of exceedance and propose remedial measures; 2. Check Contractor's working method.		1. Notify Contractor.	Rectify any unacceptable practice; Amend working methods if appropriate.
	Repeat measurement to confirm finding;			
	Increase monitoring frequency to daily.			
Exceedance for two or	Identify source; Inform IEC and ER;	Check monitoring data submitted by ET;	Confirm receipt of notification of failure in writing;	Submit proposals for remedial actions to ER within 3 working days of
more	3. Advise the ER on the	2. Check Contractor's working method;	2. Notify Contractor;	notification;
consecutive samples	effectiveness of the proposed remedial measures;	Discuss with ET and Contractor on possible remedial measures;	Ensure remedial measures properly implemented.	2. Implement the agreed proposals;3. Amend proposal if appropriate.
	 Repeat measurements to confirm findings; 	4. Advise the ET on the effectiveness of the proposed remedial measures;		
	Increase monitoring frequency to daily;	Supervise implementation of remedial measures.		
	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.			

EVENT	ACTION			
	ENVIRONMENTAL TEAM (ET)	INDEPENDENT ENVIRONMENTAL CHECKER (IEC)	ENGINEER'S REPRESENTATIVE (ER)	CONTRACTOR
LIMIT LEVEL				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 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.	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix E
Event and Action Plan (EAP) (Noise Monitoring)

EVENT		ACTION		
	ENVIRONMENTAL TEAM (ET)	INDEPENDENT ENVIRONMENTAL CHECKER (IEC)	ENGINEER'S REPRESENTATIVE ER	CONTRACTOR
Action Level	 Identify source, investigate the causes of exceedance and propose remedial measures; Notify IEC and Contractor; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.

Appendix F
Environmental Mitigation Implementation Schedule (EMIS)

Environmental Mitigation Implementation Schedule

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	on Dust Impact				
S4.3.10	D1			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/m² 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 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 	impact at the	Contractor	All construction sites	Construction stage	APCO To control the dust impact to meet HKAQO and TM-EIA criteria	Implemented for the 1 st to 4 th bullets. N/A for other bullets.

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
		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 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						

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
		 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	n Noise (Airborne	·)			
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 for the 1 st , 2 nd , 5 th bullets, N/A for other bullets
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	Contractor	All construction sites	Construction stage	Annex 5, TM- EIAO	N/A

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
			through partial screening					
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, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	Annex 5, TM- EIAO	N/A
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	N/A
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	N/A
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	N/A
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 Pha	ase)			
S6.9.1.1	W1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 2023 (ProPECC PN 2/23), construction phase mitigation measures shall include the following:	To minimize water quality impact from the construction site runoff and general	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance ProPECC PN 2/23	Implemented for the 1 st , 3 rd , 6 th to 10 th , 13 th , 16 th to 17 th bullets

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 Runoff At the start of site establishment, perimeter cutoff 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 sandbag 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 2/23, which states that the retention time for silt/ sand traps should be 5 minutes under 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; 	construction activities				• TM-EIAO • TM-DSS	N/A for other bullets

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
		 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 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 						

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
		 2/23. 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 site exit where practicable. Washwater 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 September) as far as practicable. 						

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
S6.9.1.2	W2	 Tunnelling Works and Underground Works Cut-&-cover tunnelling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) 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 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 2/23 should be adhered to in the handling and disposal of bentonite slurries. 	To minimize construction water quality impact from tunnelling works	Contractor	All tunnelling portion	Construction stage	Water Pollution Control Ordinance ProPECC PN 2/23 TM-DSS TM-EIAO	N/A
S6.9.1.3	W3	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 responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	Water Pollution Control Ordinance TM-DSS	Implemented
S6.9.1.5	W4	Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted.	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	Water Pollution Control Ordinance TM-DSS	N/A

EIA Ref. L	M&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
		 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 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 					• TM-EIAO	

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
		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	 Accidental Spillage In order to prevent accidental spillage of chemicals, the following is recommended: 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. 		Contractor	All construction site where practicable	Construction stage	Water Pollution Control Ordinance ProPECC PN 2/23 TM-EIAO TM-DSS	Implemented, rectified after observation for the 1 st bullet.
			Waste Manageme	ent (Construction W	/aste)			
S7.4.1	WM1	On-site sorting of C&D material 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	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	N/A

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
		up at concrete 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	 Construction and Demolition Material 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 is properly documented and verified; and 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. 	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 for the 1 st , 2 nd , 5 th , 6 th bullets N/A for other bullets

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
S7.5.1	WM3	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	N/A
S7.5.1	WM4	Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	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 GN/GM for land contamination	N/A
S7.5.1	WM5	Land-based Sediment • 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;	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	N/A

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
		 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. 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 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. 						

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
		 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	 Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in 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; 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	Implemented for the 2 ^{nd,} 3 rd bullets. N/A for other bullet.

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
		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.						
S7.5.1	WM7	General Refuse 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. Aluminium 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, rectified after observation for the 1st bullet. Implemented for other bullets
	_			ard to Life	T		1	
S9.18	Н8	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 sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	N/A
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented.	To reduce the risk during	Contractor	Works areas at which	Construction stage	-	N/A

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
		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.	explosives transport		explosives would be used			
			Landso	ape & Visual				
S10.10.1 Table 10.11	LV3	Good Site Management 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. Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented for the 2 nd bullet N/A for other bullet
S10.10.1 Table 10.11	LV4	Screen Hoarding 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	-	N/A
S10.10.1 Table 10.11	LV5	Lighting Control during Construction • 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	-	N/A
S10.10.1 Table 10.11	LV6	Erosion Control 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	Tree Protection & Preservation 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	N/A

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
							Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from GLTM Section, DEVB	
S10.10.1 Table 10.11	LV8	Tree Transplantation 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 2/2004	N/A
S10.10.1 Table 10.11	LV9	Compensatory Planting 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	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	N/A

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
		 Tree Felling Application process under ETWB TC 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 the Government during the Tree Felling Application process. 					• ETWB TCW 2/2004	
S10.10.1 Table 10.11	LV10	 Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment. 	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV12	Reinstatement All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14.)	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	N/A

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	
	Cultural Heritage Impact (Construction Phase)								
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.		Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	N/A	
			EN	/I&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. 	environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	EIAO Guidance Note No. 4/2010 TM-EIAO	Implemented	

Appendix G Waste Flow Table

Contract No: HY/2023/08

Central Kowloon Route - Remaining Works

Name of Department: Highways Department Contract No./ Work Order No.: HY/2023/08

Contract Name: Central Kowloon Route - Remaining Works
Contractor: Build King - Tung Lee Joint Venture

Trip Ticket Account (Main Account): 7051793

Monthly Summary Waste Flow Table for 2025 (in Weight) - Yau Ma Tei Area

(All quantities shall be rounded off to 3 decimal places)

updated on:
08-Oct-2025
record as at:
23-Sep-2025

(2 th quantities	An quantities shall be founded off to 5 decimal places)										
		Actual Quantit	ties of Inert C&D Mater	ials Generated / Import	ed (in '000 kg)			Actual Quantities o	f Other C&D Materials	/ Wastes Generated	
Month	Total Quantities Generated [a+b+c+d+c+f+g+h+i]	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported C&D Material	Metal (e) (in '000kg)	Paper/ Cardboard Packaging (f) (in '000kg)	Plastic (g) (bottles/containers, plastic sheets/ foams from package material) (in '000kg)	Chemical Waste (h) (in '000kg)	Others (i) (e.g. General Refuse etc.) (in '000kg)
		\"/	(-)	(c)				()	()		
Jan-2025	0.0271	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0271	0.0000	0.0000
Feb-2025	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014	0.0009	0.0337	0.0000	0.0000
Mar-2025	0.0086	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	0.0009	0.0067	0.0000	0.0000
Apr-2025	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101	0.0000	0.0000
May-2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Jun-2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Half-year total	0.0818	0.0000	0.0000	0.0000	0.0000	0.0000	0.0024	0.0018	0.0776	0.0000	0.0000
Jul-2025	802.5100	0.0000	0.0000	0.0000	802.3000	0.0000	0.0000	0.0000	0.2100	0.0000	0.0000
Aug-2025	63.1900	0.0000	0.0000	0.0000	63.1900	129.3950	0.0000	0.0000	0.0000	0.0000	0.0000
Sep-2025	155.6200	0.0000	0.0000	0.0000	109.0700	0.0000	0.0000	0.0000	0.0000	0.0000	46.5500
Oct-2025	0.0000										
Nov-2025	0.0000										
Dec-2025	0.0000										
Yearly Total	1021.4018	0.0000	0.0000	0.0000	974.5600	129.3950	0.0024	0.0018	0.2876	0.0000	46.5500

(All quantities shall be rounded off to 3 decimal places)

(1111)	An quantities shall be founded on to 5 declinar places)										
Actual Quantities of Inert C&D Materials Generated / Imported (in '000 kg)							Actual Quantities of Other C&D Materials / Wastes Generated				
Year	Total Quantities Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported C&D Material	Metal	Paper/ Cardboard Packaging	Plastic (bottles/containers, plastic sheets/ foams from package material)	Chemical Waste	Others (e.g. General Refuse etc.)
	[a+b+c+d+e+f+g+h+i)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
2024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2025	1021.4018	0.0000	0.0000	0.0000	974.5600	129.3950	0.0024	0.0018	0.2876	0.0000	46.5500
2026	0.0000										
2027	0.0000										
2028	0.0000										
2029	0.0000										
2030	0.0000										
Total	1021.4018	0.0000	0.0000	0.0000	974.5600	129.3950	0.0024	0.0018	0.2876	0.0000	46.5500

R	e	r	۲	ıa	۳	k

1) Density of C&D material to be
2 metric ton/m3
3) Density of Chemical Waste to be
0.88 metric ton/m3
2) Density of General Refuse to be
1.6 metric ton/m3

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Sites. (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

- (3) The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.20(8)
- (4) The figure for imported fill might require minor adjustments due to the availability of late records

Appendix H
Statistics on Complaint, Notifications of Summons and Successful Prosecution

Statistical Summary of Environmental Complaints

Paparting Pariod	Environmental Complaint Statistics					
Reporting Period	Frequency	Cumulative	Complaint Nature			
1 September 2025	0	0	N/A			
30 September 2025						

Statistical Summary of Environmental Non-compliance

Reporting Period	Environmental Non-compliance Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 September 2025	_	_				
-	0	0	N/A			
30 September 2025						

Statistical Summary of Environmental Summons

Reporting Period	Enviro	onmental Summons Statis	stics
Reporting Period	Frequency	Cumulative	Details
1 September 2025 - 30 September 2025	0	0	N/A

Statistical Summary of Environmental Prosecution

Panarting Pariod	Environmental Prosecution Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 September 2025 - 30 September 2025	0	0	N/A			

Document prepared by

Aurecon Hong Kong Limited

Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223 – 231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong.

T 3664 6888

F 3664 6999

E hongkong@aurecongroup.com

W www.aurecongroup.com

