Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for November 2025

10 December 2025

In accordance with the Environmental Permit, Condition 3.4, this Monthly EM&A Report has been certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC) as complying with the requirements as set out in Sections 1, 10, 11, 12 and 13 of the EM&A Manual.

Certified	
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Environmental Team Leader (ETL)

West Kowloon Cultural District Authority

Date

12 December 2025

Verified by:

Claudine LEE

Independent Environmental Checker (IEC)

Meinhardt Infrastructure & Environment Ltd

Date

10 December 2025

This Report Consists of:

Part-1: EM&A at Lyric Theatre Complex

and

Part-2: EM&A for ELS Works for The Integrated Basement and Underground Road in Zones 2A, 2B & 2C

Part-1: EM&A at Lyric Theatre Complex



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9 December 2025

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Executive summary

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO.

This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 November to 30 November 2025.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting month.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 5, 10, 19 and 26 November 2025 for Lyric Theatre Complex (L2 Contract) to confirm the implementation measures undertaken by the Contractor in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspection during the reporting month. No adverse comment on landscape and visual aspects were made during the inspections.

Record of Complaints

No environmental complaint was recorded in the reporting month.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting month.

Future Key Issues

The major site works for L2 to be commissioned in the coming month include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Defects rectification
- DCS cofferdam
 - Backfilling work
 - Excavation work
 - Construction of manholes
 - Installation of UU services
 - Excavation and installation of strut and waling

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1 Introduction

1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) were commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ Museum development aims to provide an iconic presence for the M+ Museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions.

The Lyric Theatre Complex (now known as "the WestK Performing Arts Centre") will comprise a 1,450-seat Grand Theatre, a 600-seat Medium Theatre and a 270-seat Studio Theatre. The complex will also house extensive rehearsal facilities and a Resident Company Centre that will serve as an exploration, development and collaboration hub for dance companies and artists in Hong Kong.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/B. This Monthly EM&A Report presents the monitoring works at Lyric Theatre Complex (L2 Contract) from 1 November to 30 November 2025. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Status of Construction Works in the Reporting Period

During the reporting period, construction works at L2 undertaken include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Defects rectification
 - Installation of subframe
 - Construction of the plant room
 - Construction of pipe work
 - Modification works
- DCS cofferdam
 - Backfilling
 - Excavation work
 - Construction of manholes
 - Installation of UU services
 - Excavation and installation of strut and waling

The Construction Works Programme of Lyric Theatre Complex (L2 Contract) is provided in **Appendix B**. As on 31 January 2023, site area P32 was handed over to AST Developer and was thus excluded from the site boundary of Lyric Theatre Complex (L2 Contract), the area was delineated in red in the layout plan of the Project which is provided in **Figure 1**. Please refer to **Table 4.1** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements and Alternative Monitoring Locations

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

1.4.1 EM&A Requirements

A summary of impact EM&A requirements is presented in **Table 1.1**.

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies		
Air Quality	24-Hour TSP	AM1 – International Commerce Centre	At least once every 6 days		
	1-Hour TSP	AM1 – International Commerce Centre	At least 3 times every 6 days		
	24-Hour TSP	AM2 – The Harbourside Tower 1	At least once every 6 days		
	1-Hour TSP	AM2 – The Harbourside Tower 1	At least 3 times every 6 days		
Noise	Leq, 30 minutes	NM1- The Harbourside Tower 1	Weekly		
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly		

1.4.2 Alternative Monitoring Locations

In the context of the monitoring activities at M+ Museum and the Lyric Theatre Complex, three monitoring stations had been considered, including AM1 (International Commerce Centre), AM2 (The Harbourside Tower 1) for air monitoring, and NM1 (The Harbourside Tower 1) for noise monitoring. Other monitoring locations (i.e. AM3 to AM5 and NM2 to NM5) were so far away from M+ Museum and the Lyric Complex and could not be representative for impact monitoring.

The Harbourside management office formally rejected our proposal of setting up air quality and noise monitoring equipment on its premises at the podium level of Tower 1 (AM2/NM1) on 10 November 2015. Nevertheless, a suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1, which is at the same location as that of baseline monitoring for consistency. No management approval is required on the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016. In order to have a more secure electricity supply, an alternative air monitoring location (AM2A) was identified at Austin Road West opposite to The Harbourside Tower 1, which is close to Lyric Theatre Complex site entrance. This alternative air monitoring location was approved by EPD on 28 September 2016. Due to the works programme, the air monitoring location AM2A has been relocated to the alternative monitoring location AM2B at the 1st floor of Gammon's site office, which was approved by EPD on 21 February 2019. In view of the upcoming construction works to be undertaken at the air monitoring station AM2B, AM2B was no longer available for conducting the impact air quality monitoring. Hence, an alternative air monitoring location was identified on the ground floor in front of The Harbourside Tower 1 (AM2) which is at the same location as the baseline monitoring and this previously approved monitoring location had also been used for the EM&A Programme from November 2015 to August 2016, the relocation was approved by EPD on 27 May 2021.

Alternative noise monitoring location was identified at The Arch (NM2); however, The Arch management office formally rejected our proposal of setting up noise monitoring equipment on its premises on 23 November 2015. On the other hand, noise monitoring at G/F of Harbourside could not be representative. However, approval from the management office of the International Commerce Centre has been granted on 29 February 2016 for conducting noise monitoring at the alternative noise monitoring location identified at the podium floor (NM1A) which is free from screening to the construction activities.

In short, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, and landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

2 Impact Monitoring Methodology

2.1 Introduction

For air quality and noise, the monitoring methodology, including the monitoring locations, monitoring equipment used, monitoring parameters, and frequency and duration etc., for air quality and noise are detailed in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring schedule for the coming month are provided in **Appendix E**.

For landscape and visual impact, the relevant EM&A monitoring requirements and details are also presented in this Section.

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

Table 2.1 summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

 Table 2.1:
 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

2.2.2 Monitoring Locations

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring stations AM1 and AM2 were set up at the proposed locations in accordance with updated EM&A Manual. Location of the monitoring station is given in **Table 2.2** and shown in **Figure 1**.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location
AM1	International Commerce Centre (ICC)
AM2	The Harbourside Tower 1 – Ground Floor

2.2.3 Monitoring Equipment

For 24-hour TSP air quality monitoring, High Volume Sampler (HVS) was used at air monitoring station AM1 and portable direct reading dust meter was used at air monitoring station AM2 due to the unavailability of power supply for HVS at / in the vicinity of the AM2. The portable direct reading dust meter is capable of producing comparable results as that by the HVS method. For 1-hour TSP monitoring, portable direct reading dust meter was used for the measurement.

Table 2.3 summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the calibration kit and portable dust meters are attached in **Appendix F**.

Table 2.3: TSP Monitoring Equipment

Equipment	Model
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No: 0767)
Calibrator	TE-5025A (Orifice I.D.: 2454)
Portable direct reading dust meter	Sibata LD-5R (Serial No.: 831656)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata LD-3B (Serial No.: 1Y5546 and 2Z6239)

Calibration of the HVS (five point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**.

The portable direct reading dust meter should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

2.2.4 Monitoring Methodology

24-hour TSP Monitoring (HVS)

Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 μm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.
- The filter holder was removed by loosening the four 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 was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the 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 length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

24-hour TSP Monitoring (Portable direct reading dust meter)

Field Monitoring

The measuring procedures of the portable direct reading dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.

- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 24 hours for the 24-hour TSP measurement.
- Push "START/STOP" to start the 24-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 24 hours.

Maintenance and Calibration

- The portable direct reading dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in **Appendix F**.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

1-hour TSP Monitoring

Field Monitoring

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

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.
- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 1 hour for the 1-hour TSP measurement.
- Push "START/STOP" to start the 1-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 1 hour.

Maintenance and Calibration

- The 1-hour dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in Appendix F.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

Table 2.4 summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels L_{eq} , L_{10} and L_{90} are recorded in a 30-minute interval between 0700 and 1900 hours.

Table 2.4: Noise Monitoring Parameters, Period and Frequency

Time Period	Parameters	Frequency	
Daytime on normal weekdays (0700-1900 hours)	L _{eq} (30 min), L ₉₀ (30 min) & L ₁₀ (30 min)	Once every week	

2.3.2 Monitoring Location

Currently, the works under the captioned project are confined in the western part of the WKCD site. Therefore, only the monitoring station NM1A was set up. Location of the monitoring station is given in **Table 2.5** and shown in **Figure 1**.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM1A	International Commerce Centre (ICC)

2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

Table 2.6: Noise Monitoring Equipment

Monitoring Station	Equipment Model	
	Integrating Sound Level Meter	Calibrator
NM1A	Rion NL-52 (Serial No. 00710259)	LARSON DAVIS CAL200 (Serial No. 16172)

2.3.4 Monitoring Methodology

Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at the monitoring locations.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.

- During the monitoring period, the L_{eq}, L₁₀ and L₉₀ were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The sound level meter and calibrator are sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- Calibration records are shown in **Appendix F**.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.7 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter-signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

3 Monitoring Results

3.1 Impact Monitoring

Construction impact monitoring for air quality, noise and landscape and visual impact was undertaken in compliance with the EM&A Manual during the reporting month.

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP at the monitoring location AM1 and AM2 are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring	Monitoring	Start	1-hour TSP (μο		1-hour TSP (µg/m3)		Action	Limit		
Station	Date	Time	1 st Result	2 nd Result	3 rd Result	(µg/m3)	Level (µg/m3)	Level (µg/m3)		
	05-Nov-25	8:37	38	39	42	_	17-42 273.7			
	11-Nov-25	8:37	36	34	30			500		
AM1	17-Nov-25	8:28	32	29	24	17-42				
	21-Nov-25	8:31	19	21	17	-				
	27-Nov-25	8:33	21	24	20					
	05-Nov-25	8:54	45	49	50		-50 274.2			
	11-Nov-25	8:53	41	39	36					
AM2	17-Nov-25	8:46	41	45	49	23-50		274.2	500	
	21-Nov-25	8:47	23	29	27					
	27-Nov-25	8:48	33	35	30					

3.2.2 24-hour TSP

Results of 24-hour TSP at the monitoring location AM1 and AM2 are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (µg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
	05-Nov-25	8:35	21			
	11-Nov-25	8:35	24			
AM1	17-Nov-25	8:26	17	10-24	143.6	260
	21-Nov-25	8:29	10			
	27-Nov-25	8:31	15			
	05-Nov-25	8:51	37			
	11-Nov-25	8:51	32			
AM2	17-Nov-25	8:44	26	26-37	151.1	260
	21-Nov-25	8:45	26			
	27-Nov-25	8:46	27			

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

3.3 Noise Monitoring

The construction noise monitoring results at the monitoring location NM1A are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up of a free-field measurement are shown in **Appendix G**.

Table 3.3: Summary of noise monitoring results during normal weekdays

	-		-	_
Monitoring Date	Start Time	End Time	L _{eq} (30 mins)*, dB(A)	Limit Level for Leq (dB(A))
05-Nov-25	9:40	10:10	64	
11-Nov-25	9:39	10:09	64	- - 75
17-Nov-25	9:32	10:02	64	- 75
27-Nov-25	9:33	10:03	64	•

Remarks:

No exceedance (Action/Limit Level) of construction noise was recorded in the reporting month.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspection on 10 and 26 November 2025 for Lyric Theatre Complex (L2 Contract) during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during this inspection.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures is provided in **Appendix J**.

^{* +3}dB (A) correction was applied to free-field measurement.

4 Site Environmental Management

4.1 Site Inspection

Construction phase weekly site inspections were carried out on 5, 10, 19 and 26 November 2025 at Lyric Theatre Complex (L2 Contract). While the site environmental management committee meeting with IEC, ET, ER and Contractor was held on 19 November 2025. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.1.**

Table 4.1: Summary of Site Inspections and Recommendations for L2

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
05/11/2025	Water Quality	Idle chemical containers were observed on ground, the contractor was reminded to provide suitable drip tray or remove them if no longer in use.	The contractor has removed the chemicals.	10/11/2025
19/11/2025	Water Quality	The contractor was reminded to ensure the proper functioning of the wastewater treatment facility.	The contractor has ensured the proper functioning of the wastewater treatment facility.	20/11/2025
19/11/2025	Water Quality	The breaker head was observed idle on ground, the contractor was reminded to provide a suitable drip tray.	The breaker head was no longer in use and removed.	25/11/2025

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractor has been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

As advised by the Lyric Theatre Complex (L2 Contract) Contractor, 438.9 tonnes, 44.8 tonnes and 0.0 tonne of inert C&D materials were disposed of as public fill to Tseung Kwan O Area 137 Public Fill, Tuen Mun Area 38 Public Fill and Chai Wan Public Fill Barging Point respectively in the reporting month, while 590.2 tonnes of general refuse were disposed of at SENT and WENT landfill. 0.0 tonne of metals, 0.0 tonnes of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber were collected by recycling contractors in the reporting month. 0.0 tonne of inert C&D material was reused in other projects and 0.0 tonne of inert C&D material was imported for reuse at site. 0.0 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste were collected by licensed contractors in the reporting period.

The actual amounts of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting month are shown in **Appendix I**.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.2**.

Table 4.2: Status of Environmental Submissions, Licenses and Permits for L2

Permit / License No. /	Valid F	Period	Status	Remarks
Notification / Reference No.	From	То		
Chemical Waste Producer Re	egistration			
WPN:5213-217-G2347-39	13-Sep-21	-	Valid	
Billing Account Construction	n Waste Disposal			
7032787	02-Jan-19	-	Account Active	
Construction Noise Permit				
GW-RE0876-25	12-Aug-25	11-Feb-26	Valid	
Wastewater Discharge Licen	se			
WT00043449-2023	30-Mar-23	30-Apr-28	Valid	
Notification under Air Polluti	on Control (Const	ruction Dust) Reg	ulation	
448474	27-Aug-19	-	Notified	

4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

Water Quality

- All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation.
- Oils and fuels should be stored in designated areas which have pollution prevention facilities.

5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

Table 5.1: Status of Submissions under the Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for Oct 2025	14 Nov 2025

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit Levels for Air Quality and Noise monitoring in the reporting month.

6.2 Record on Environmental Complaints Received

No environmental complaint was received in the reporting month.

The cumulative statistics on complaints were provided in **Appendix K**.

6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecutions were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

The major site works for L2 to be commissioned in the coming month include:

- LTC construction
 - ABWF works
 - Façade work
 - MEP works
- ASDA and Lyric Theatre Promenade
 - Defects rectification
- DCS cofferdam
 - Backfilling work
 - Excavation work
 - Construction of manholes
 - Installation of UU services
 - Excavation and installation of strut and waling

7.2 Key Issues for the Coming Month

Key issues to be considered at Lyric Theatre Complex in the coming month include:

- Generation of dust from construction works;
- Noise impact from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- · Management of chemicals and avoidance of oil spillage on-site; and
- · Operating conditions of drainage facilities.

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

Monitoring of air quality and noise with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP, noise level (as L_{eq} , 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit Levels for 1-hour TSP, 24-hour TSP and noise in the reporting month.

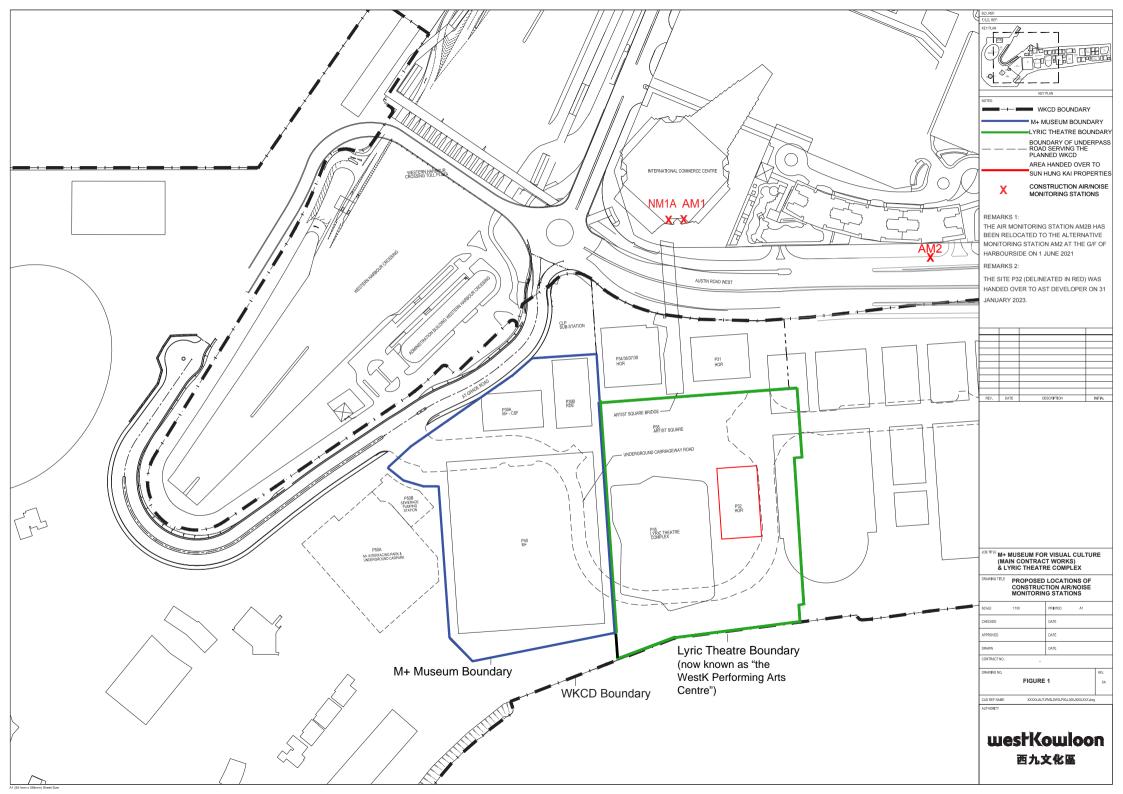
No environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

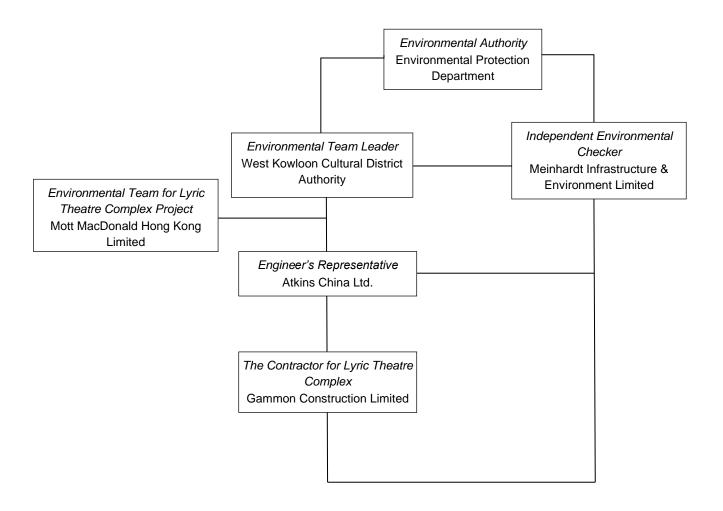
Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Tentative Construction Programme
- C. Action and Limit Levels for Construction Phase
- D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
- E. Monitoring Schedule
- F. Calibration Certifications
- G. Graphical Plots of the Monitoring Results
- H. Meteorological Data Extracted from Hong Kong Observatory
- I. Waste Flow table
- J. Environmental Mitigation Measures Implementation Status
- K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation



Tahla A-1.	Contact information

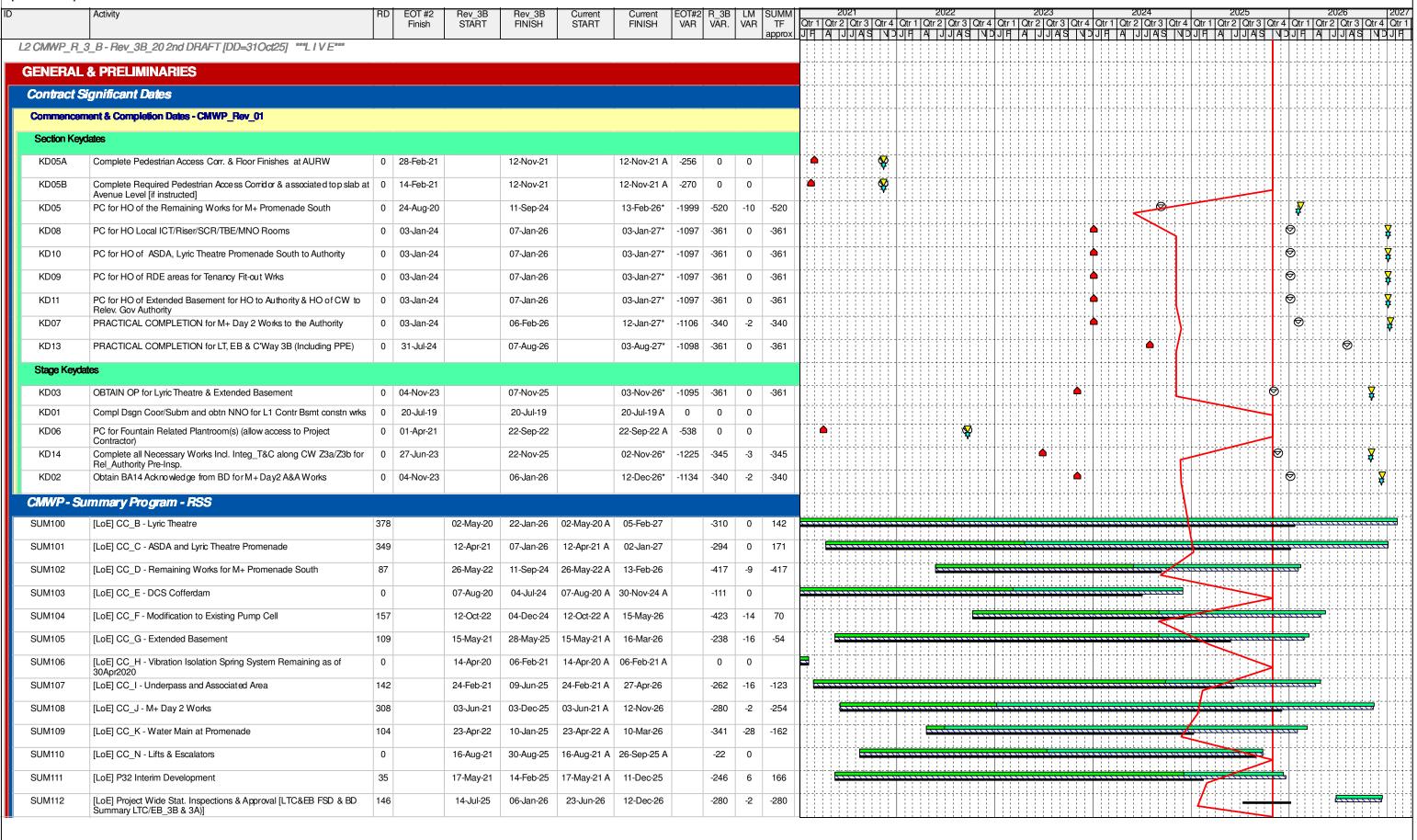
Company Name	Role	Name	Telephone	Email
Atkins China Ltd.	Project Manager	Mr. Simha LytheRao	2204 8259	Simha.Lytherao@atkinsglobal.com
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	claudinelee@meinhardt.com.hk
Gammon Construction Limited (L2)	Environmental Manager	Ms. Fiona Law	9156 7654	fiona.cm.law@gammonconstruction.com
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757	thomas.chan@mottmac.com
West Kowloon Cultural District Authority	Project Manager (Health, Safety and Environment)	Mr. Max Lee	2200 0782	max.sl.lee@wkcda.hk

B. Tentative Construction Programme

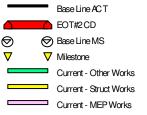
L2-CMWP-R_3_B_21 L2 CMWP_R_3_B - Rev_3B_20 2nd DRAFT [DD=31Oct25] ***L I V E***

TASK filter: UPD: Level 1 Summary.

Page 1 / 1







Legend:
RD = Remaining Duration; BL = Base
Line; LoE = Level of Effort Activity
Type; LM = Last Month; SUMM =
Summary; TF = Total Float; VAR =
Variance

L2 CMWP_R_3_B - Rev_3B_20 2nd DRAFT [DD=31Oct25] ***L I V E***

Date	Revision	Checked	Approved
Nov-25	CMWP Rev_3_B Oct25 Update	NS	IH

C. Action and Limit Levels for Construction Phase

Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring station are presented in following tables:

Table C-1: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (mg/m³)	Limit Level (mg/m³)
AM1	273.7	500
AM2	274.2	500

Table C-2: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (μg/m³)	Limit Level (µg/m³)
AM1	143.6	260
AM2	151.1	260

<u>Noise</u>

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

 Table C-3:
 Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM1A		
0700-1900 hours on normal weekdays	When one valid documented complaint is received.	75 dB(A)

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-1: Event and Action Plan for Air Quality

EPD and WKCDA

informed of the results.

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

remedial measures.

Event Action

- two or more consecutive samples
- 2. Exceedance for 1. Notify IEC, WKCDA, Contractor and EPD;
 - 2. Identify source;
 - 3. Repeat measurement to working method; confirm findings;
 - 4. Increase monitoring frequency to daily;
 - 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;
 - 6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken;
 - 7. Assess effectiveness of Contractor's remedial actions and keep IEC. EPD and WKCDA informed of the results;
 - 8. If exceedance stops, cease additional monitoring.

- 1. Check monitoring data 1. Confirm receipt of 1. Take immediate submitted by ET;
- 2. Check Contractor's
- 3. Discuss amongst WKCDA, ET, and Contractor on the potential with the Contractor remedial actions;
- 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness measures properly and advise the WKCDA accordingly;
- 5. Monitor the implementation of remedial measures.

- in writing;
- 2. Notify Contractor; 2. Submit proposals for
- 3. In consolidation with the IEC, agree on the remedial measures to be implemented;
- 4. Ensure remedial implemented;
- 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.

- notification of failure action to avoid further exceedance;
 - remedial actions to IEC within three working days of notification;
 - 3. Implement the agreed proposals;
 - 4. Resubmit proposals if problem still not under control;
 - 5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.

Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-2: Event and Action Plan for Construction Noise

Event	Action					
	ET	IEC	WKCDA	Contractor		
Action Level	1. Notify WKCDA, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCDA and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness.	investigation results	in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor	mitigation proposals to IEC and WKCDA;		
Limit Level	1. Inform IEC, WKCDA, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCDA on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.	lin writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to	action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.		

Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

Table D-3: Event and Action Plan for Landscape and Visual Impact

Event	Action					
	ET	IEC	WKCDA	Contractor		
Design Check	Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; Prepare and submit report.	Check report submitted by ET; Recommend remedial design if necessary.	Undertake remedial design if necessary.	-		
Non-conformity on one occasion	Identify source of non- conformity;	1. Check and verify source of non-conformity;	Notify Contractor; Ensure remedial	Amend working method as necessary;		
	2. Report to IEC and WKCDA;	2. Discuss remedial actions with ET and	actions are properly implemented.	2. Rectify damage and undertake necessary		
	actions with IEC, WKCDA and Contractor;	·	replacement and remedial actions.			
	actions until rectification has been completed.	4. Check implementation of remedial actions.				
Repeated non conformity	i-1. Identify source of non- conformity;	1. Check and verify source of non-conformity;	 Notify Contractor; Ensure remedial actions are properly implemented. 	Amend working method as necessary;		
	2. Report to IEC and WKCDA;	2. Check Contractor's working method;		2. Rectify damage and undertake necessary		
	3. Increase monitoring frequency;	Discuss remedial actions with ET and		replacement and remedial actions.		
	4. Discuss remedial actions with IEC, WKCDA and Contractor;	Contractor; 4. Advise WKCDA on effectiveness of proposed				
	5. Monitor remedial remedial actions; actions until rectification has been completed; remedial actions; 5. Supervise implementation of					
	6. If non-conformity rectified, reduce monitoring frequency back to normal.	remedial actions.				

E. Monitoring Schedule

November 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
						1	
2	3	4	5 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6	7	8	
9	Lyric Landscape & Visual Inspection	11 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	12	13	14	15	
16	17 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	18	19	20	21 AM1, AM2 - 24hrTSP, 1hr TSP x3	22	
23	24	25	26 Lyric Landscape & Visual Inspection	27 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	28	29	
30		Notes AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 - Ground Floor NM1A - International Commerce Centre (ICC)					

December 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	4	5	6
7	8	9 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	10	11	12	13
14	15 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	16	17	18	19 AM1, AM2 - 24hrTSP, 1hr TSP x3	20
21	22	23	24 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	25	26	27
28	29	30 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	31			
		Notes AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 - Ground Floor NM1A - International Commerce Centre (ICC)				

F. Calibration Certifications

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location:AM1(ICC)Calibrated by:K.T.HoDate:31/10/2025

<u>Sampler</u>

Model : TE-5170 Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Next Calibration Date : 02 December 2025

 Slope (m)
 : 2.08315

 Intercept (b)
 : -0.04938

 Correlation Coefficient(r)
 : 0.99985

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1016.2 Ta(K) : 300.3

Resi	Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	10.0	3.156	1.538	56	55.88
2	13 holes	8.2	2.857	1.395	50	49.89
3	10 holes	6.8	2.602	1.273	42	41.91
4	7 holes	4.2	2.045	1.005	34	33.93
5	5 holes	2.4	1.546	0.766	20	19.96

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship

Checked by: _____ Date: <u>01/11/2025</u>

Magnum Fan



RECALIBRATION **DUE DATE:**

December 2, 2025

Pertificate of

Calibration Certification Information

Cal. Date: December 2, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch Pa: 757.4

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	12.8	8.00

	Data Tabulation							
Vstd	Qstd	$\sqrt{\Delta H(\frac{Pa}{Pstd})(\frac{Tstd}{Ta})}$		Qa	√∆H(Ta/Pa)			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)			
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796			
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439			
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907			
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586			
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592			
	m=	2.08315		m=	1.30443			
QSTD	b=	-0.04938	QA	b=	-0.03050			
	r=	0.99985		r=	0.99985			

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

	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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK2502565 WORK ORDER CONTACT : MR MAGNUM FAN

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM 712, 7/F, MY LOFT 9 HOI WING ROAD, SUB-BATCH : 1

> DATE RECEIVED : 15-JAN-2025 TUEN MUN, N.T. HK DATE OF ISSUE : 21-JAN-2025

PROJECT NO. OF SAMPLES : 1 CLIENT ORDER

General Comments

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Richard Fung

Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

: HK2502565 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2502565-001	Sibata LD-5R (831656)	Equipments	02-Jan-2025	S/N: 831656

----- END OF REPORT -----



Envirotech Services Co.

Rm. 712, 7/F My Loft, 9 Hoi Wing Road, Tuen Mun, H.K. Tel: 2560 8450 Fax: 2560 6553

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:

Laser Dust Monitor

Manufacturer:

Sibata LD-5R

Serial No.:

831656

Equipment Ref.:

N/A

ALS Job Order:

HK2500343

Standard Equipment

Standard Equipment:

High Volume Sampler (TSP)

Location:

Envirotech Room (Calibration Room)

Equipment Ref.:

HVS 8162

Last Calibration Date:

1-Jan-2025

Equipment Verification Results:

Verification Date:

2-Jan-2025

		Mean	Mean	TSP Level in mg	Total Count
Hour	Time	Temp°C	Pressure	(Standard Equipment)	(Calibrated Equipment)
			(hpa)	(Y-Axis)	(X-Axis)
1hr 00mins	0900-1000	16.1	1023	0.096	62
2hr 00mins	1005-1205	20.5	1022	0.147	122
3hr 00mins	1330-1630	21.0	1022	0.268	220

Linear Regression of Y or X

Slope (K-factor):

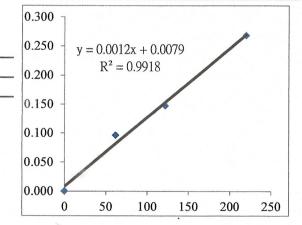
0.0012(mg)/Count

Correlation Coefficient (R):

0.9959

Date of Issue:

15-Jan-2025



Remarks:

- 1. Strong Correlation (>0.8)
- 2. Factor <u>0.0012(mg)/Count</u> should be applied for TSP monitoring

Operator:

P.F.Yeung

Signature

Date: 15 Jan 2025

QC Reviewer:

K.F.Ho

Signature

Date: 15 Jan 2025

^{*}If R<0.5, repair or verification is required for the equipment

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location: Rm. 712, My Loft, Tuen Mun Date of Calibration: 1-Jan-25
HVS ID: 8162 Next Calibration Date: 31-Mar-25

CONDITIONS

Sea Level Pressure (hpa) 1023
Temperature (°C) 15.8

Name and Model: TISCH HVS Model TE-5170

Corrected Pressure (mm Hg) 767.3 Temperature (K) 288.8

CALIBRATION ORIFICE

Make: Model:

Serial#:

TISCH TE-5025A 2454 Qstd Slope Ostd Intercept

Operator:

2.08315 -0.04938

K.F.Ho

CALIBRATION

- 8								
-	Plate	H2O(L)	H20(R)	H2O	Qstd	I	IC	LINEAR
	No.	(in)	(in)	(in)	(m3/min)	(chart)	(corrected)	REGRESSION
	18	6.4	6.4	12.8	1.777	62	63.30	Slope= 35.208
	13	5.3	5.3	10.6	1.619	56	57.17	Intercept= -0.0015
100000000000000000000000000000000000000	10	4.2	4.2	8.4	1.444	48	49.00	Corr. Coeff.= 0.9959
	7	2.7	2.7	5.4	1.163	41	41.86	chekeling A-weighted equivalent continue
	5	1.7	1.7	3.4	0.927	32	32.67	nevel of Leg(30min), L19(30min) and Lee

Calulations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Ostd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

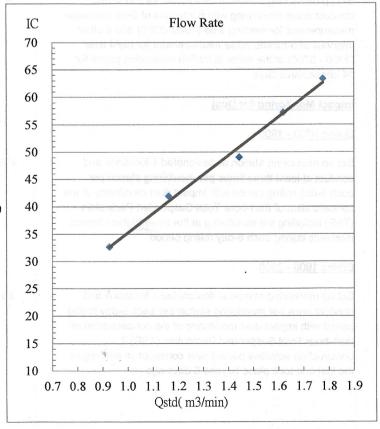
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





RECALIBRATION DUE DATE:

December 2, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 2, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch

......

Pa: 757.4

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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	0.7108	1.4238	0.9958	0.7013	0.8796		
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439		
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907		
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586		
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592		
	m=	2.08315		m=	1.30443		
QSTD	b=	-0.04938	QA	b=	-0.03050		
QJID	r=	0.99985		r=	0.99985		

	Calculations		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd= Vstd/ΔTime		Qa=	Va/ΔTime
	For subsequent flow rate	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)
	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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK2520194 WORK ORDER CONTACT : MR MAGNUM FAN

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM 712, 7/F, MY LOFT 9 HOI WING ROAD, SUB-BATCH : 1

DATE RECEIVED : 16-MAY-2025 TUEN MUN, N.T. HK

DATE OF ISSUE : 23-MAY-2025

PROJECT NO. OF SAMPLES : 1

CLIENT ORDER

General Comments

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Richard Fung

Managing Director

: HK2520194 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2520194-001	Sibata LD-3B (1Y5546)	Equipments	10-May-2025	S/N: 1Y5546

----- END OF REPORT -----

 $\mathsf{Page}: 2 \text{ of } 2$



Envirotech Services Co.

Rm. 712, 7/F My Loft, 9 Hoi Wing Roed, Tuen Mun, H.K. Tel: 2560 8450 Fax: 2560 6553

E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:

Laser Dust Monitor

Manufacturer:

Sibata LD-3B

Serial No.:

1Y5546

Equipment Ref.:

N/A

ALS Job Order:

HK2518511

Standard Equipment

Standard Equipment:

High Volume Sampler (TSP)

Location:

Envirotech Room (Calibration Room)

Equipment Ref.:

HVS 8162

Last Calibration Date:

17-Mar-2025

Equipment Verification Results:

Verification Date:

10-May-2025

		Mean	Mean	TSP Level in mg	Total Count
Hour	Time	Temp °C	Pressure (hpa)	(Standard Equipment) (Y-Axis)	(Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	24.2	1010.4	0.051	40
2hr 00mins	1005-1205	24.4	1010.2	0.101	86
3hr 00mins	1400-1700	27.1	1009.8	0.144	104

Linear Regression of Y or X

Slope (K-factor):

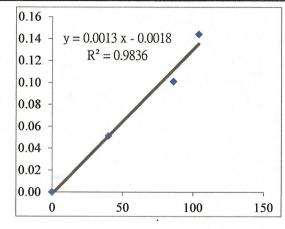
0.0013(mg)/Count

Correlation Coefficient (R):

0.9918

Date of Issue:

15-May-2025



Remarks:

- 1. Strong Correlation (>0.8)
- 2. Factor 0.0013(mg)/Count should be applied for TSP monitoring

Operator:

P.F.Yeung

Signature

Date: 15 May 2025

QC Reviewer:

K.F.Ho

Signature

Date: 15 May 2025

^{*}If R<0.5, repair or verification is required for the equipment

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location: Rm. 712, My Loft, Tuen Mun Date of Calibration: 17-Mar-25 HVS ID: 8162 Next Calibration Date: 16-May-25 Name and Model: TISCH HVS Model TE-5170 Operator: K.F.Ho CONDITIONS 766.6 Sea Level Pressure (hpa) 1022 Corrected Pressure (mm Hg) 18.0 291 Temperature (K) Temperature (°C)

CALIBRATION ORIFICE

Make: Model: Serial#: TISCH TE-5025A 2454

Qstd Slope Qstd Intercept 2.08315

CALIBRATION

1	9 A FALL				1 1		
Plate	H2O(L)	H20(R)	H2O	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	(corrected)	REGRESSION
18	6.8	6.9	13.7	1.830	62	63.03	Slope= 39.645
13	5.2	5.3	10.5	1.605	56	56.93	Intercept= -8.4950
10	4.8	4.8	9.6	1.536	50	50.83	Corr. Coeff.= 0.9912
7	2.8	2.8	5.6	1.179	40	40.66	· · · · · · · · · · · · · · · · · · ·
5	1.6	1.6	3.2	0.897	25	25.41	a e- co . Per St. La Act bill d. diff

Calulations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Ostd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

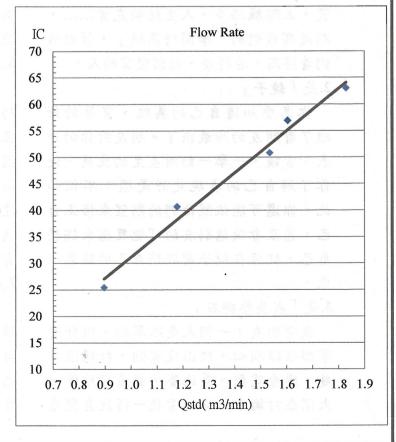
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





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

Operator: Jim Tisch

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	12.8	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H \left(Ta/Pa \right)}$		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796		
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439		
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907		
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586		
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592		
	m=	2.08315		m=	1.30443		
QSTD	b=	-0,04938	QA	. b=	-0.03050		
2310	r=	0.99985	-	r=	0.99985		

Calculati	ons	
Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/Pa)	
Qstd= Vstd/ΔTime	Qa= Va/ΔTime	
For subsequent flow r	ate calculations:	
Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	$Qa = 1/m \left(\sqrt{\Delta H(Ta/Pa)} - b \right)$	

	Standard Conditions					
Tstd: 298.15 °K						
Pstd:	760 mm Hg					
	Key					
ΔH: calibrate	or manometer reading (in H2O)					
ΔP: rootsme	ter manometer reading (mm Hg)					
Ta: actual ab	osolute temperature (°K)					
Pa: actual ba	Pa: actual barometric pressure (mm Hg)					
b: intercept						
m: slope						

RECALIBRATION

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

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK2520196 WORK ORDER CONTACT : MR MAGNUM FAN

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM 712, 7/F, MY LOFT 9 HOI WING ROAD, SUB-BATCH : 1

> DATE RECEIVED : 16-MAY-2025 TUEN MUN, N.T. HK DATE OF ISSUE : 23-MAY-2025

PROJECT NO. OF SAMPLES : 1

CLIENT ORDER

General Comments

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Richard Fung Managing Director

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.

: HK2520196 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2520196-001	Sibata LD-3B (2Z6239)	Equipments	10-May-2025	S/N: 2Z6239

----- END OF REPORT -----



Envirotech Services Co.

Rm. 712, 7/F My Loft, 9 Hoi Wing Road, Tuen Mun, H.K. Tel: 2560 8450 Fax: 2560 6553

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:

Laser Dust Monitor

Manufacturer:

Sibata LD-3B

Serial No.:

2Z6239

Equipment Ref.:

N/A

ALS Job Order:

HK2518511

Standard Equipment

Standard Equipment:

High Volume Sampler (TSP)

Location:

Envirotech Room (Calibration Room)

Equipment Ref.:

HVS 8162

Last Calibration Date:

17-Mar-2025

Equipment Verification Results:

Verification Date:

10-May-2025

	No.	Mean	Mean	TSP Level in mg	Total Count
Hour	Time	Temp °C	Pressure	(Standard Equipment)	(Calibrated Equipment)
			(hpa)	(Y-Axis)	(X-Axis)
1hr 00mins	0900-1000	24.2	1010.4	0.051	37
2hr 00mins	1005-1205	24.4	1010.2	0.101	82
3hr 00mins	1400-1700	27.1	1009.8	0.144	116

Linear Regression of Y or X

Slope (K-factor):

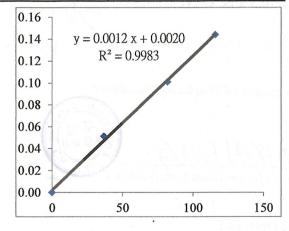
0.0012(mg)/Count

Correlation Coefficient (R):

0.9992

Date of Issue:

15-May-2025



Remarks:

- 1 . Strong Correlation (>0.8)
- 2. Factor 0.0012(mg)/Count should be applied for TSP monitoring

Operator:

P.F.Yeung

Signature

Date: 15 May 2025

QC Reviewer:

K.F.Ho

Signature

Date: 15 May 2025

^{*}If R<0.5, repair or verification is required for the equipment

TSP SAMPLER CALIBRATION CACULATION SPREADSHEET

Location: Rm. 712, My Loft, Tuen Mun

Date of Calibration: 17-Mar-25

HVS ID: 8162

Next Calibration Date: 16-May-25

Name and Model: TISCH HVS Model TE-5170

Operator: K.F.Ho

CONDITIONS

Sea Level Pressure (hpa) 1022 Corrected Pressure (mm Hg) 766.6

Temperature (°C) 18.0 Temperature (K) 291

CALIBRATION ORIFICE

Make: Model:

Serial#:

TISCH TE-5025A 2454

Qstd Slope Qstd Intercept 2.08315 -0.04938

CALIBRATION

1							
Plate	H2O(L)	H20(R)	H2O	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	(corrected)	REGRESSION
18	6.8	6.9	13.7	1.830	62	63.03	Slope= 39.645
13	5.2	5.3	10.5	1.605	56	56.93	Intercept= -8.4950
10	4.8	4.8	9.6	1.536	50	50.83	Corr. Coeff.= 0.9912
7	2.8	2.8	5.6	1.179	40	40.66	经 一种 电操作 第二色
5	1.6	1.6	3.2	0.897	25	25.41	and the service of th

Calulations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Ostd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

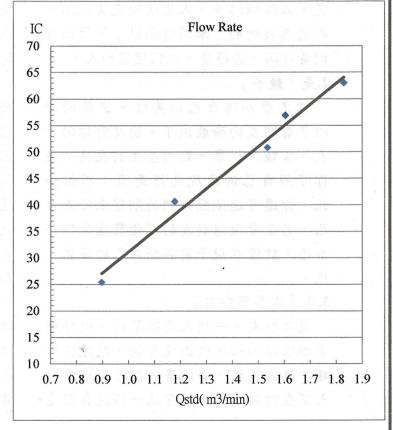
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





RECALIBRATION **DUE DATE:**

December 2, 2025

tificate of libration

Calibration Certification Information

Cal. Date:

December 2, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator:

Jim Tisch

Pa: 757.4

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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	0.7108	1.4238	0.9958	0.7013	0.8796				
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439				
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907				
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586				
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592				
	m=	2.08315		m=	1.30443				
QSTD	b=	-0,04938	QA	b=	-0.03050				
2310	r= 0.99985			r=	0.99985				

	Calculation	ns	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	13.23	ΔVol((Pa-ΔP)/Pa)
	Vstd/ΔTime	Qa= Va/ΔTime	
	For subsequent flow rat	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 Co	onditions
Tstd:	298.15 °K	
Pstd:	760 mi	m Hg
	Key	
ΔH: calibrator	manometer	reading (in H2O)
ΔP: rootsmet	er manomete	er reading (mm Hg)
Ta: actual abs		
Pa: actual bar	ometric pres	sure (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

Certificate of Calibration

Description:

Sound Level Calibrator

Manufacturer:

Larson Davis

Type No .:

CAL200

Serial No.:

16172

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

U	pon	receipt	for	calibration,	the	instrument	was	found	to	be:
_	~~~	- cock	~ ~ ~							3

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: 6 February 2025

Date of calibration: 7 February 2025

Date of NEXT calibration: 6 February 2026

Calibrated by:

Date of issue: 7 February 2025

Certified by:

Mr. Ng Yan Wa

Page 1 of 2

Laboratory Manager

Certificate No.: APJ24-143-CC002

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

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

1. Calibration Precautions:

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	24.3 °C
Air Pressure:	1006 hPa
Relative Humidity:	59.2 %

4. Calibration Equipment:

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

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	93.7
114.0	113.6	114.4	113.7

6. Calibration Results Applied

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

Note:

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



Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-52 (Serial No.: 00710259)

Microphone:

UC-59 (Serial No.: 12128)

Preamplifier:

NH-25 (Serial No.:43067)

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

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

☑ Within (31.5Hz – 4kHz)

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: 6 February 2025

Date of calibration: 7 February 2025

Date of NEXT calibration: 6 February 2026

Calibrated by: Calibration Technician

Date of issue: 7 February 2025

Certified by:

Mr. Ng Yan Wa

Laboratory Manager

Certificate No.: APJ24-143-CC001

Page 1 of 4

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

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature:

24.3 °C

Air Pressure:

1006 hPa

Relative Humidity:

59.2 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV240081

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Range, dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)				App	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	e, dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SA SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
20.120	ID A	CDI	Fast	0.4	1000	94.0	Ref
30-130	dBA	SPL	Slow	94	1000	94.0	±0.3



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				31.5	94.0	±2.0	
		dB SPL	Fast	94	63	94.1	±1.5
					125	94.1	±1.5
20 120	1D				250	94.0	±1.4
30-130	aB				500	94.0	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
					4000	93.3	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
			31.5	54.6	-39.4 ±2.0		
			Fast		63	67.9	-26.2 ±1.5
				94	125	78.0	-16.1±1.5
20.120	ID A	ant			250	85.4	-8.6 ± 1.4
30-130	dBA	A SPL			500	90.8	-3.2±1.4
					1000	94.0	Ref
					2000	95.1	+1.2±1.6
					4000	94.3	+1.0±1.6

C-weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
			31.5	91.0	-3.0 ± 2.0		
			Comment!	63	93.3	-0.8 ± 1.5	
				94	125	93.9	-0.2 ±1.5
20.120	ID C	CDI	T		250	94.0	-0.0 ±1.4
30-130	dBC	SC SPL	Fast		500	94.0	-0.0 ± 1.4
- 54555					1000	94.0	Ref
					2000	93.7	-0.2 ±1.6
					4000	92.5	-0.8 ±1.6



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5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

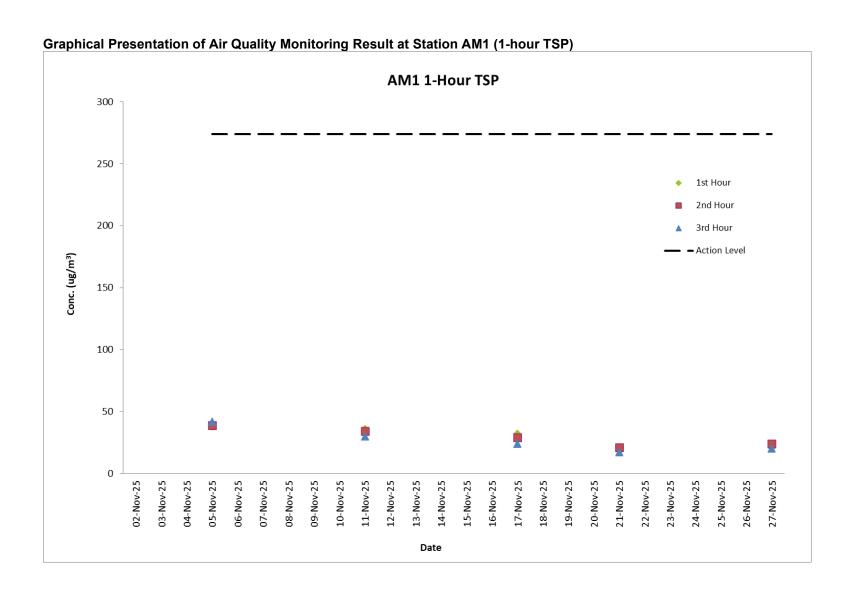
The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the 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.



G. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM1 (1-hour TSP)

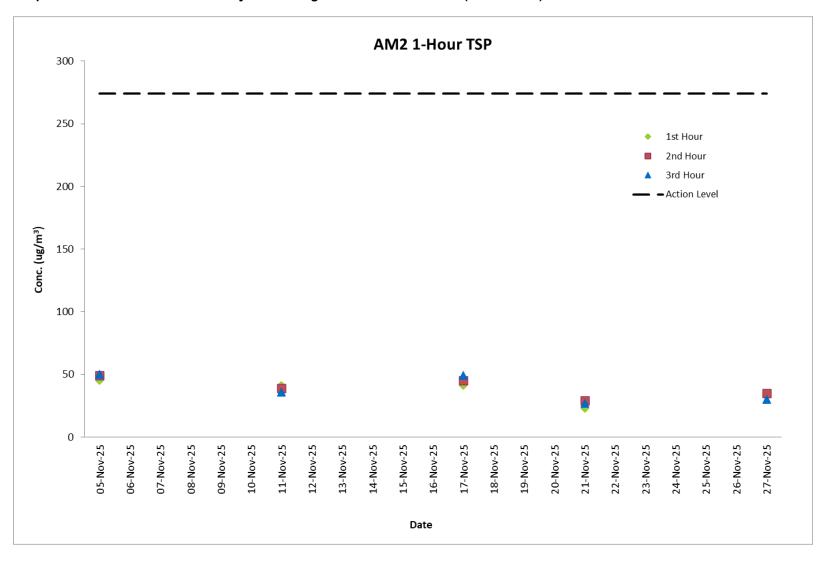
	Weather		Conc. (µg/m³)			Action Level	Limit Level		
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(μg/m ³)	$(\mu g/m^3)$	Min	Max
05-Nov-25	Sunny	8:37 - 11:37	38	39	42	273.7	500		
11-Nov-25	Cloudy	8:37 - 11:37	36	34	30	273.7	500		
17-Nov-25	Sunny	8:28 - 11:28	32	29	24	273.7	500	17	42
21-Nov-25	Cloudy	8:31 - 11:31	19	21	17	273.7	500		
27-Nov-25	Cloudy	8:33 - 11:33	21	24	20	273.7	500		



Air Quality Monitoring Result at Station AM2 (1-hour TSP)

	Weather		Conc. (µg/m³)			Action Level	Limit Level		
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	$(\mu g/m^3)$	$(\mu g/m^3)$	Min	Max
05-Nov-25	Sunny	8:54 - 11:54	45	49	50	274.2	500		
11-Nov-25	Cloudy	8:53 - 11:53	41	39	36	274.2	500		
17-Nov-25	Sunny	8:46 - 11:46	41	45	49	274.2	500	23	50
21-Nov-25	Cloudy	8:47 - 11:47	23	29	27	274.2	500		
27-Nov-25	Cloudy	8:48 - 11:48	33	35	30	274.2	500		

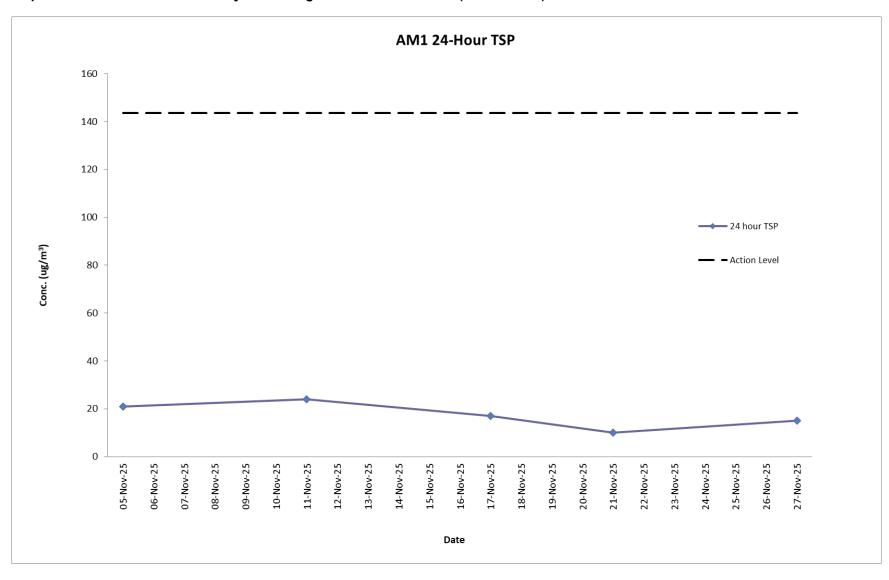
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Air Quality Monitoring Result at Station AM1 (24-hour TSP)

Star	rt	Finis	sh	Filter W	eight (g)		d Time ding	Sampling	Flow	Rate (m³/min	n)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m ³)	Condition	Level	Level
05-Nov-25	08:35	06-Nov-25	08:35	2.7605	2.7979	30436.38	30460.38	24	1.24	1.24	1.24	21	Sunny	143.6	260
11-Nov-25	08:35	12-Nov-25	08:35	2.7631	2.8064	30460.38	30484.38	24	1.24	1.24	1.24	24	Cloudy	143.6	260
17-Nov-25	08:26	18-Nov-25	08:26	2.7634	2.7931	30484.38	30508.38	24	1.24	1.24	1.24	17	Sunny	143.6	260
21-Nov-25	08:29	22-Nov-25	08:29	2.7671	2.7857	30508.38	30532.38	24	1.24	1.24	1.24	10	Cloudy	143.6	260
27-Nov-25	08:31	28-Nov-25	08:31	2.7634	2.7900	30532.38	30556.38	24	1.24	1.24	1.24	15	Cloudy	143.6	260

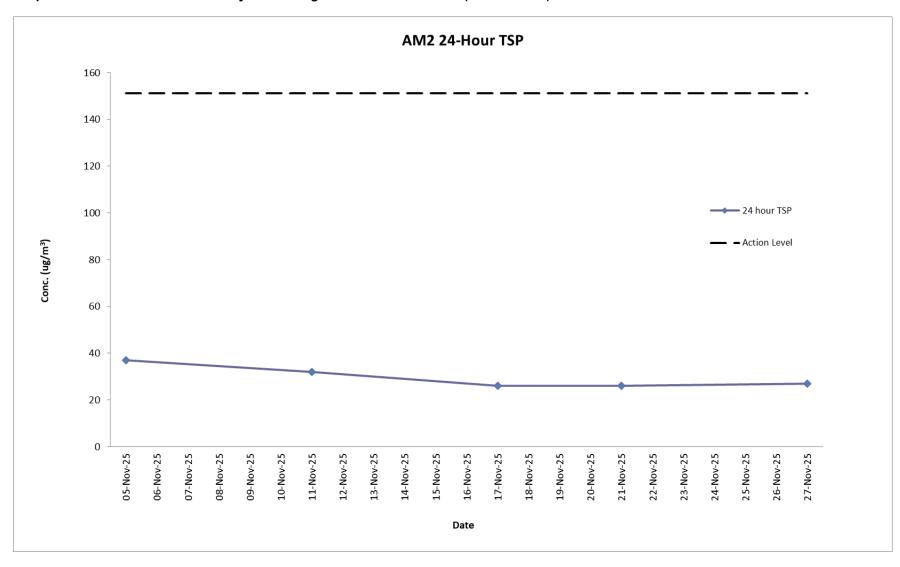
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2 (24-hour TSP)

				_ (_ : ::• •::	<u> , </u>			
Sta	rt	Finis	sh	Sampling	Conc.	Weather	Action	
Date	Time	Date	Time	Time (hrs)	(µg/m³)	Condition	Level	Limit Level
05-Nov-25	08:51	06-Nov-25	08:51	24	37	Sunny	151.1	260
11-Nov-25	08:51	12-Nov-25	08:51	24	32	Cloudy	151.1	260
17-Nov-25	08:44	18-Nov-25	08:44	24	26	Sunny	151.1	260
21-Nov-25	08:45	22-Nov-25	08:45	24	26	Cloudy	151.1	260
27-Nov-25	08:46	28-Nov-25	08:46	24	27	Cloudy	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Noise Monitoring Result at Station NM1A

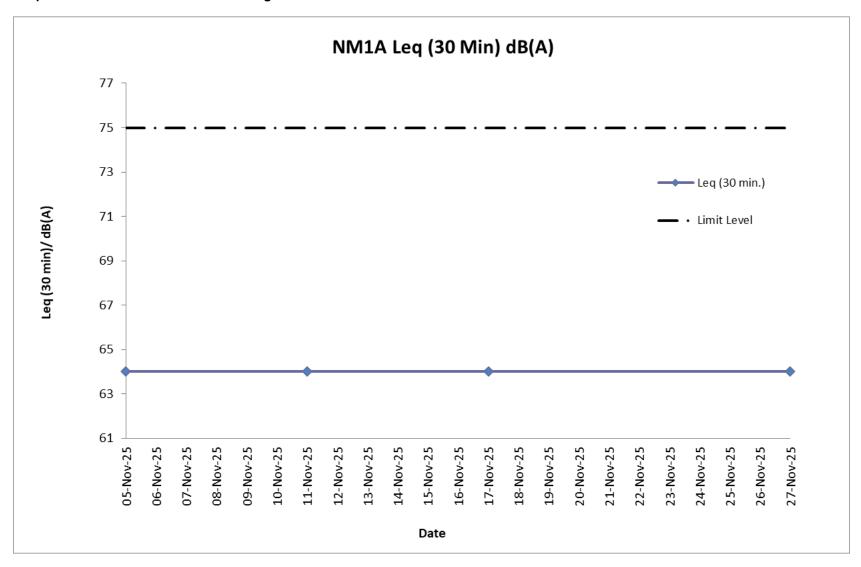
Date	Time	Measured L ₁₀ , dB(A)	Measured L ₉₀ , dB(A)	L _{eq} (30 min.)*, dB(A)
05-Nov-25	9:40	63.5	59.9	
05-Nov-25	9:45	63.7	59.3	
05-Nov-25	9:50	62.2	58.0	64
05-Nov-25	9:55	61.8	57.6	04
05-Nov-25	10:00	62.0	58.7	
05-Nov-25	10:05	63.9	59.4	
11-Nov-25	9:39	61.5	57.3	
11-Nov-25	9:44	62.2	58.6	
11-Nov-25	9:49	63.8	59.0	64
11-Nov-25	9:54	62.7	58.6	04
11-Nov-25	9:59	61.0	57.7	
11-Nov-25	10:04	63.9	59.9	
17-Nov-25	9:32	62.9	58.9	
17-Nov-25	9:37	61.5	57.3	
17-Nov-25	9:42	61.2	57.0	64
17-Nov-25	9:47	62.8	58.6	04
17-Nov-25	9:52	63.0	59.7	
17-Nov-25	9:57	63.7	59.4	
27-Nov-25	9:33	62.2	58.6	
27-Nov-25	9:38	61.9	57.0	
27-Nov-25	9:43	61.8	57.3	6.4
27-Nov-25	9:48	63.5	59.7	64
27-Nov-25	9:53	62.0	58.9	
27-Nov-25	9:58	63.7	58.4	

Remarks:

^{* +3}dB (A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at Station NM1A.

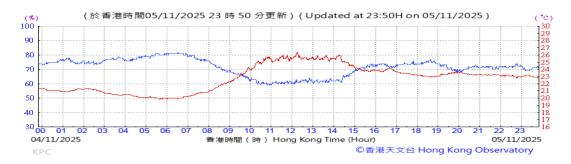


H. Meteorological Data Extracted from Hong Kong Observatory

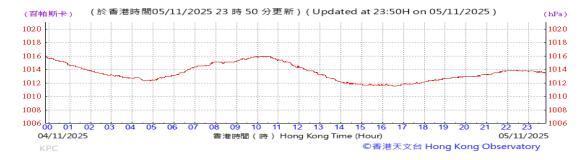
Extract of Meteorological Observations for King's Park Automatic Weather Station

November 2025

Temperature/Humidity:



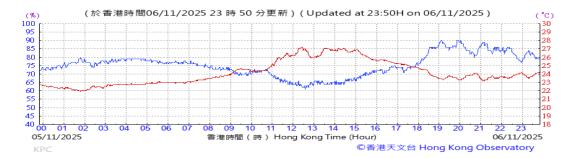
Pressure:



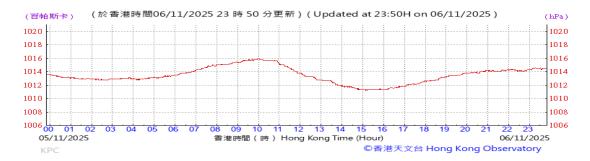
Wind Direction:







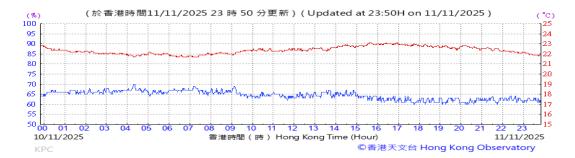
Pressure:



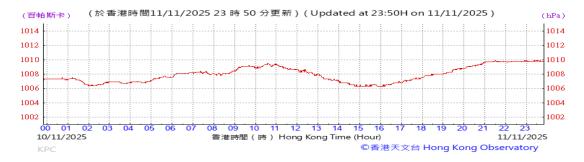
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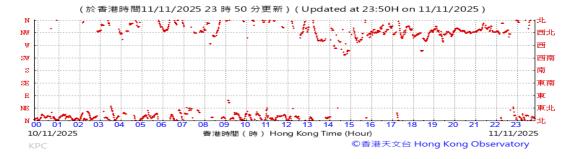




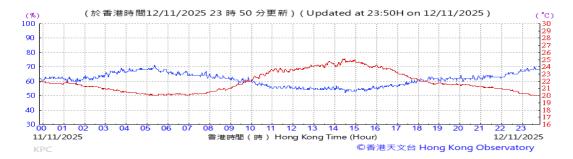
Pressure:



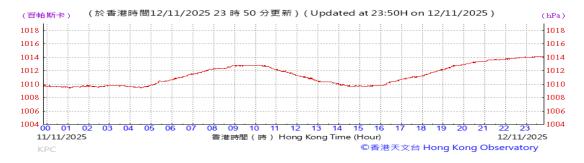
Wind Direction:



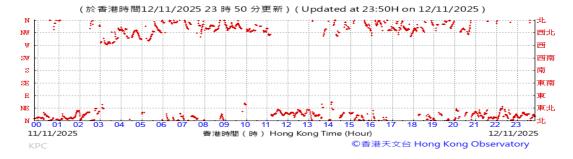


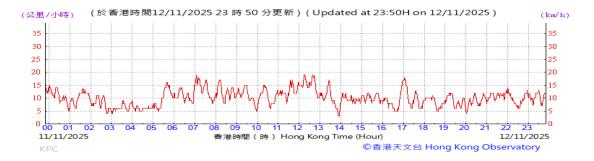


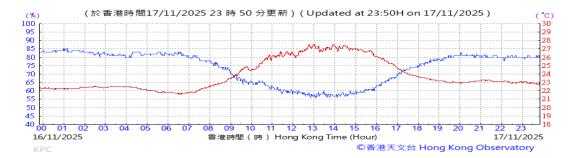
Pressure:



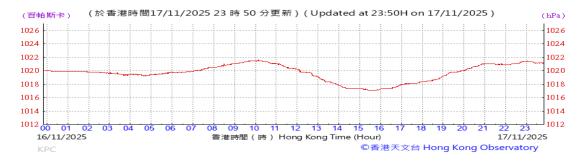
Wind Direction:







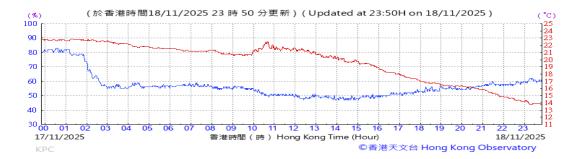
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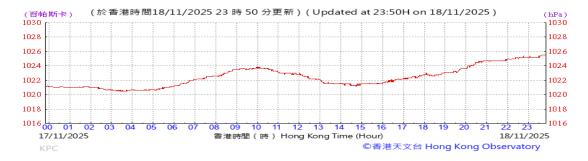
Wind Direction:



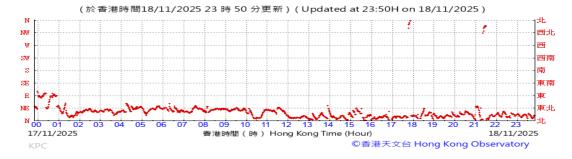




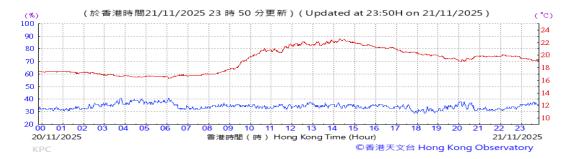
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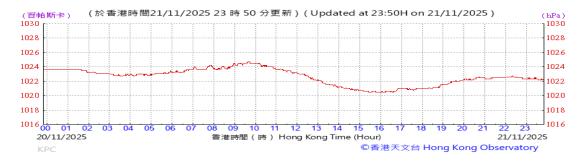
Wind Direction:



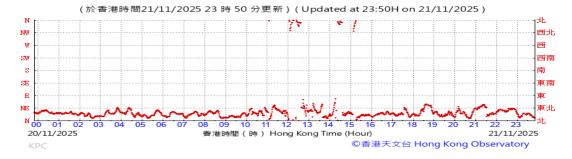




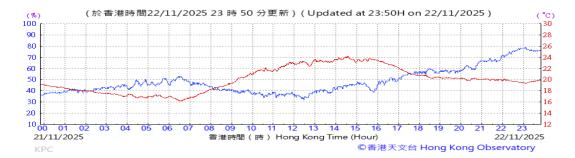
Pressure:



Wind Direction:





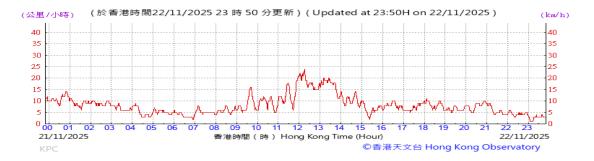


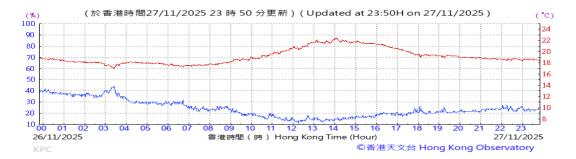
Pressure:



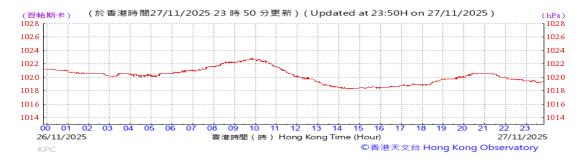
Wind Direction:



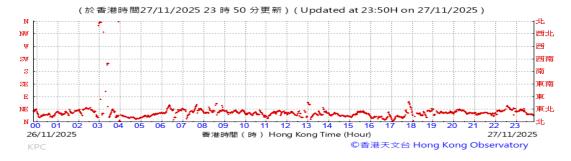




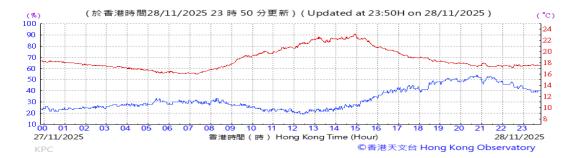
Pressure:



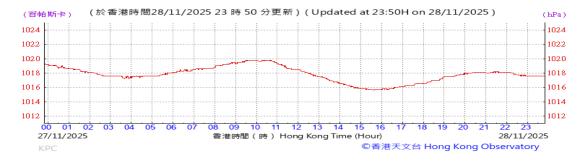
Wind Direction:







Pressure:



Wind Direction:





I. Waste Flow Table

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

										Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse		
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)		
2016															
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6		
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2		
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5		
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5		
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9		
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1		
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4		
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	36.9	0.2	1.5	0.0	0.0	15.2		
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2		
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0		
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.5	0.4	1.5	0.0	7.6	191.6		
2017	•				•				•		•				
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3		
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8		
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5		
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7		
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0		
Jun	476.0	0.0	0.0	341.0	129.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6		
Jul	3419.0	0.0	0.0	804.0	2615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8		
Aug	3730.9	0.0	0.0	1377.5	2353.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4		
Sep	2108.2	0.0	0.0	1133.5	974.7	0.0	0.0	34.6	0.2	0.0	0.0	0.0	10.8		
Oct	9159.0	0.0	0.0	7868.0	1291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.3		
Nov	5095.4	0.0	0.0	4352.0	725.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	38.8		
Dec	3856.2	0.0	0.0	3076.0	780.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	8.4		
Sub-total (2017)	63093.1	0.0	0.0	19051.0	44018.7	23.4	0.0	187.1	0.7	0.0	0.0	3.8	137.3		

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

		Actual Qu	antities of Ine	rt C&D Mater	ials Generate	d Monthly		Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2018	-	-			-	-						-	
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4924.3	0.0	0.0	4641.2	196.1	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19099.9	0.0	0.0	11301.0	7642.8	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104168.0	0.0	0.0	79811.6	24351.0	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62989.9	0.0	0.0	51284.4	11699.9	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449702.6	0.0	0.0	368984.8	80463.7	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
2019		-											
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.9	0.0	0.0	8569.9	10742.0	0.0	337.8	61.5	0.0	0.0	0.0	0.0	36.3
Apr	28559.9	0.0	0.0	21280.3	7279.6	0.0	0.0	32.6	0.0	0.8	0.0	0.0	24.9
May	45418.0	0.0	0.0	11200.6	34217.4	0.0	0.0	27.4	0.2	0.5	0.0	0.0	33.7
Jun	66633.4	0.0	0.0	23874.5	42748.0	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36619.6	0.0	0.0	1632.7	34960.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2526.8	0.0	0.0	0.0	2499.0	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4117.6	0.0	0.0	0.0	4088.7	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6974.2	0.0	0.0	0.0	6948.1	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5334.4	0.0	0.0	0.0	5304.1	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Dec	6236.8	0.0	0.0	0.0	6236.8	0.0	0.0	70.6	0.0	0.0	0.0	0.0	98.9
Sub-total (2019)	318181.6	0.0	0.0	153531.3	164500.1	150.1	938.9	785.8	0.6	4.6	0.0	0.6	959.0

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

		Actual Qu	antities of Ine	rt C&D Mater	ials Generate	d Monthly			Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse	
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	
2020														
Jan	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	39.6	0.2	0.0	0.0	0.0	65.7	
Feb	16822.3	0.0	0.0	0.0	16822.3	0.0	0.0	240.5	0.1	0.0	0.0	0.0	66.3	
Mar	6559.0	0.0	0.0	0.0	6559.0	0.0	110.4	63.1	0.0	0.9	0.0	0.0	138.3	
Apr	4997.9	0.0	0.0	1615.7	3382.2	0.0	159.2	1129.2	1.9	0.0	0.0	0.0	113.2	
May	2236.0	0.0	0.0	452.3	1783.6	0.0	0.0	412.3	0.0	0.0	0.0	0.0	188.8	
Jun	1134.3	0.0	0.0	0.0	1134.3	0.0	31.5	328.7	0.2	0.6	0.0	0.0	210.6	
Jul	148.8	0.0	0.0	0.0	148.8	0.0	31.5	502.2	0.5	0.0	0.0	0.0	220.0	
Aug	540.7	0.0	0.0	0.0	540.7	0.0	0.0	393.4	0.0	0.0	0.0	0.0	238.3	
Sep	1432.3	0.0	0.0	0.0	1432.3	0.0	0.0	835.6	0.2	0.0	0.0	0.0	291.9	
Oct	1381.5	0.0	0.0	0.0	1381.5	0.0	0.0	756.1	0.2	0.0	0.0	0.0	400.2	
Nov	1444.1	0.0	0.0	0.0	1437.4	6.7	475.8	567.8	0.2	0.5	0.0	0.0	377.8	
Dec	793.8	0.0	0.0	0.0	793.8	0.0	0.0	503.4	0.2	0.0	0.0	0.0	435.8	
Sub-total (2020)	44580.6	0.0	0.0	2068.1	42505.8	6.7	808.3	5771.9	3.7	2.0	0.0	0.0	2746.8	
2021			-						-		-			
Jan	881.4	0.0	0.0	0.0	881.4	0.0	0.0	906.7	0.4	0.0	0.0	0.0	497.0	
Feb	544.7	0.0	0.0	0.0	544.7	0.0	0.0	206.3	0.3	0.0	0.0	0.0	504.7	
Mar	406.1	0.0	0.0	0.0	406.1	0.0	0.0	1235.0	0.3	0.0	0.0	0.0	881.7	
Apr	633.0	0.0	0.0	0.0	633.0	0.0	0.0	480.8	0.7	0.0	0.0	0.0	613.0	
May	1125.8	0.0	0.0	0.0	1125.8	0.0	0.0	382.8	0.2	0.1	0.0	0.0	355.2	
Jun	877.3	0.0	0.0	0.0	877.3	0.0	0.0	163.7	0.2	0.0	0.0	0.4	420.3	
Jul	8.9	0.0	0.0	0.0	0.0	8.9	0.0	56.5	2.0	0.0	0.0	0.0	278.2	
Aug	1296.2	0.0	0.0	0.0	1296.2	0.0	0.0	270.0	0.0	0.0	0.0	0.0	459.1	
Sep	1040.5	0.0	0.0	0.0	490.9	549.6	0.0	193.2	0.0	0.0	0.0	0.0	620.8	
Oct	311.0	0.0	0.0	0.0	311.0	0.0	0.0	92.0	0.3	0.0	0.0	0.0	485.6	
Nov	203.9	0.0	0.0	0.0	203.9	0.0	0.0	93.9	0.0	0.0	0.0	0.0	609.6	
Dec	576.6	0.0	0.0	0.0	576.6	0.0	0.0	85.2	0.0	0.0	0.0	0.0	590.6	
Sub-total (2021)	7905.3	0.0	0.0	0.0	7346.9	558.5	0.0	4165.9	4.4	0.1	0.0	0.4	6315.9	

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

		Actual Qu	antities of Ine	rt C&D Mater	ials Generate	d Monthly			Actual Quant	Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse	
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	
2022														
Jan	579.3	0.0	0.0	0.0	579.3	0.0	0.0	41.3	0.4	0.0	0.0	0.0	565.5	
Feb	58.9	0.0	0.0	0.0	58.9	0.0	0.0	85.7	0.0	0.0	0.0	0.0	172.2	
Mar	412.8	0.0	0.0	0.0	412.8	0.0	0.0	87.1	0.3	0.0	0.0	0.0	339.8	
Apr	390.2	0.0	0.0	0.0	390.2	0.0	0.0	44.7	0.0	0.0	0.0	0.0	390.9	
May	357.3	0.0	0.0	0.0	350.1	7.2	0.0	99.4	0.3	0.0	0.0	0.0	401.9	
Jun	200.4	0.0	0.0	0.0	200.4	0.0	0.0	134.7	0.0	0.0	0.0	1.1	447.8	
Jul	166.8	0.0	0.0	0.0	166.8	0.0	0.0	15.3	0.3	0.0	0.0	0.7	343.9	
Aug	150.9	0.0	0.0	0.0	150.9	0.0	0.0	9.6	0.4	0.2	0.0	0.0	410.6	
Sep	437.6	0.0	0.0	0.0	437.6	0.0	0.0	11.5	0.3	0.0	0.0	0.0	348.3	
Oct	708.0	0.0	0.0	0.0	708.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	353.0	
Nov	244.1	0.0	0.0	0.0	244.1	0.0	0.0	47.3	0.3	0.0	0.0	0.0	427.4	
Dec	337.4	0.0	0.0	0.0	337.4	0.0	0.0	28.1	0.0	0.0	0.0	0.0	385.3	
Sub-total (2022)	4043.5	0.0	0.0	0.0	4036.3	7.2	0.0	618.3	2.3	0.3	0.0	1.8	4586.5	
2023					•				•					
Jan	307.0	0.0	0.0	0.0	307.0	0.0	0.0	44.5	0.2	0.0	0.0	0.0	415.1	
Feb	1087.8	0.0	0.0	0.0	1087.8	0.0	0.0	22.9	0.4	0.0	0.0	0.0	411.4	
Mar	1944.0	0.0	0.0	0.0	1944.0	0.0	0.0	37.7	0.0	0.0	0.0	0.0	469.6	
Apr	819.5	0.0	0.0	0.0	819.5	0.0	0.0	218.7	0.1	0.0	0.0	0.0	320.5	
May	842.1	0.0	0.0	0.0	842.1	0.0	0.0	35.6	0.3	0.0	0.0	0.0	439.4	
Jun	952.1	0.0	0.0	0.0	952.1	0.0	0.0	22.9	0.2	0.0	0.0	0.0	399.3	
Jul	583.1	0.0	0.0	0.0	583.1	0.0	0.0	38.3	0.0	0.0	0.0	0.0	421.6	
Aug	778.2	0.0	0.0	0.0	778.2	0.0	0.0	28.5	0.0	0.0	0.0	0.0	427.9	
Sep	316.4	0.0	0.0	0.0	316.4	0.0	0.0	14.8	0.1	0.0	0.0	0.0	344.3	
Oct	1253.3	0.0	0.0	0.0	1253.3	0.0	0.0	17.9	0.0	0.0	0.0	0.0	353.9	
Nov	862.7	0.0	0.0	0.0	862.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	436.4	
Dec	337.8	0.0	0.0	0.0	337.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	374.0	
Sub-total (2023)	10084.0	0.0	0.0	0.0	10084.0	0.0	0.0	481.8	1.3	0.0	0.0	0.0	4813.3	

Table I-1: Monthly Waste Flow Table for Lyric Theatre Complex

		Actual Qu	uantities of Ine	rt C&D Mater	ials Generate	d Monthly		Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024													
Jan	256.8	0.0	0.0	0.0	256.8	0.0	0.0	11.1	0.6	0.0	0.0	0.0	448.6
Feb	321.4	0.0	0.0	0.0	321.4	0.0	0.0	9.4	0.6	0.0	0.0	0.0	263.4
Mar	1167.4	0.0	0.0	0.0	1167.4	0.0	0.0	445.3	0.2	0.0	0.0	0.2	360.9
Apr	283.5	0.0	0.0	0.0	283.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	467.1
May	534.3	0.0	0.0	0.0	534.3	0.0	0.0	16.9	0.7	0.0	0.0	0.0	376.3
Jun	175.1	0.0	0.0	0.0	175.1	0.0	0.0	73.5	0.0	0.0	0.0	0.0	339.3
Jul	1171.9	0.0	0.0	0.0	1171.9	0.0	0.0	43.6	0.0	0.0	0.0	0.0	408.4
Aug	1056.5	0.0	0.0	0.0	1056.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	354.2
Sep	286.0	0.0	0.0	0.0	286.0	0.0	0.0	8.9	0.5	0.0	0.0	0.0	383.6
Oct	433.3	0.0	0.0	0.0	433.3	0.0	0.0	93.1	0.0	0.0	0.0	0.0	520.4
Nov	599.0	0.0	0.0	0.0	599.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	708.8
Dec	291.0	0.0	0.0	0.0	291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	646.5
Sub-total (2024)	6576.1	0.0	0.0	0.0	6576.1	0.0	0.0	701.7	3.0	0.0	0.0	0.2	5277.4
2025	•	•			•								
Jan	318.6	0.0	0.0	0.0	312.8	5.8	0.0	0.0	0.1	0.0	0.0	0.0	714.3
Feb	1147.3	0.0	0.0	0.0	1147.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	600.1
Mar	1513.2	0.0	0.0	0.0	1513.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	592.8
Apr	335.3	0.0	0.0	0.0	335.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	564.2
May	390.8	0.0	0.0	0.0	390.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	694.0
Jun	175.5	0.0	0.0	0.0	175.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	676.3
Jul	186.6	0.0	0.0	0.0	186.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	891.3
Aug	283.1	0.0	0.0	0.0	283.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	693.5
Sep	399.5	0.0	0.0	0.0	399.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	523.9
Oct	349.4	0.0	0.0	0.0	349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	695.3
Nov	483.7	0.0	0.0	0.0	483.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	590.2
Sub-total (2025)	5582.9	0.0	0.0	0.0	5577.1	5.8	0.0	0.0	2.1	0.0	0.0	0.0	7236.0
Total	1020888.4	0.0	0.0	543635.2	476247.4	1005.7	2301.1	13716.7	19.0	10.8	0.0	14.9	33207.4

Note:

^{- 438.85} tonnes, 44.83 tonnes and 0.0 tonne of inert C&D materials were disposed of as public fill to Tseung Kwan O Area 137 Public Fill, Tuen Mun Area 38 Public Fill and Chai Wan Public Fill Barging Point respectively in the reporting month.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (November 2025)

		Implementation Stage
EM&A Ref.	Recommendation Measures	L2
Air Quality	Impact (Construction)	
2.1 &	General Dust Control Measures	
10.3.1	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓
2.1 &	Best Practice For Dust Control	
10.3.1	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include: Good Site Management	
	 Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. 	✓
	Disturbed Parts of the Roads	
	• Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or	✓
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓
	Exposed Earth	
	• Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.	N/A No exposed earth in this project
	Loading, Unloading or Transfer of Dusty Materials	
	 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓
	Debris Handling	
	 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓
	Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.	✓

Implementation	Stage
12	

EM&A Ref.	Recommendation Measures	L2
	Transport of Dusty Materials	
	 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	√
	Wheel washing	
	 Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓
	Use of vehicles	
	 The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. 	✓
	 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓
	 Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓
	Site hoarding	
	 Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	✓
2.1 &	Best Practicable Means for Cement Works (Concrete Batching Plant)	
10.3.1	The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:	
	Exhaust from Dust Arrestment Plant	
	 Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection 	N/A No concrete batching plant in this project.
	Emission Limits	
	All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke	N/A No concrete batching plant in this project.
	Engineering Design/Technical Requirements	. ,
	As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions	N/A No concrete batching plant in this project.

EM&A Ref.	Recommendation Measures	L2
	Non-Road Mobile Machinery (NRMM):	
	All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	✓
Noise Impa	act (Construction)	
3.1 & 10.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The	
	following package of measures should be followed during each phase of construction:	
	 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	v
	 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum 	√
	 plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; 	✓
	mobile plant should be sited as far away from NSRs as possible; and	✓
	 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓
3.1 &	Adoption of Quieter PME	
10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓
3.1 &	Use of Movable Noise Barriers	
10.4.1	Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓
3.1 &	Use of Noise Enclosure/ Acoustic Shed	
10.4.1	The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓
3.1 &	Use of Noise Insulating Fabric	
10.4.1	Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	✓

L2

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3.1 &	Scheduling of Construction Works outside School Examination Periods	
10.4.1	During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A No educational institutions nearby the site.
Water Qua	lity Impact (Construction)	
4.1 & 10.5.1	Construction site runoff and drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:	
	 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, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; 	✓
	 Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. 	✓
	 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 during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	Rem
	 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓
	 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 sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly 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. 	✓
	• Open stockpiles of construction materials or construction wastes on-site 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 (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers. 	✓

EM&A Ref. Recommendation Measures

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EM&A Ref.	Recommendation Measures	L2
	 Precautions should be taken at any time of the year when rainstorms are likely. Actions should 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 Note 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. 	√
	 Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A No bentonite slurries are used in this project.
	Barging facilities and activities	
	Recommendations for good site practices during operation of the proposed barging point include:	
	 All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A No barging facilities in this project.
	• Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;	N/A No barging facilities in this project.
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and	N/A No barging facilities in this project.
	 Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A No barging facilities in this project.
4.1 &	Sewage effluent from construction workforce	
10.5.1	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	✓
4.1 &	General construction activities	
10.5.1	 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. 	✓
	 Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	Obs

EM&A Ref.	Recommendation Measures	L2
Waste Mar	nagement Implications (Construction)	
6.1 &	Good Site Practices	
10.7.1	Recommendations for good site practices during the construction activities include:	
	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	✓
	Training of site personnel in proper waste management and chemical handling procedures	✓
	Provision of sufficient waste disposal points and regular collection of waste	✓
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	✓
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	✓
	 Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non- inert C&D materials is not anticipated 	√
6.1 &	Waste Reduction Measures	
10.7.1	Recommendations to achieve waste reduction include:	
	Sort inert C&D material to recover any recyclable portions such as metals	✓
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	✓
	 Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force 	✓
	 Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	✓
	Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes	✓
6.1 &	Inert and Non-inert C&D Materials	
10.7.1	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	√
	The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.	✓
	 Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	✓
	 The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. 	✓

		Implementation Stage
EM&A Ref.	Recommendation Measures	L2
	• In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.	√
6.1 &	Chemical Waste	
10.7.1	• If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	✓
	 Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	✓
6.1 &	General Refuse	
10.7.1	General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	✓
Land Cont	amination (Construction)	
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material:	
	To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref. Recommendation Measures

- Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as
 gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition
 of smoking and eating on site;
- Stockpiling of contaminated excavated materials on site should be avoided as far as possible;
- The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;
- Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater:
- Truck bodies and tailgates should be sealed to stop any discharge;
- Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;
- Speed control for trucks carrying contaminated materials should be exercised;
- Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and

L2 N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref.	Recommendation Measures	L2
	Maintain records of waste generation and disposal quantities and disposal arrangements.	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
Ecological	Impact (Construction)	
	No mitigation measure is required.	
Landscape	and Visual Impact (Construction)	
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	N/A No trees under this Contract.
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A Compensatory tree planting is being reviewed.
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A Climbing or weeping plants are designed to be planted, but proposal is being reviewed for the planting location.
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A Greening along the seafront is proposed, but it has not been completed yet.
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A Gardens are designed to be built, but it has not been completed yet.

EM&A Ref.	Recommendation Measures	L2
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A Roof garden is designed to be built, but it has not been completed yet.
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A No marine facilities for this project.
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A No landscape treatments during this stage.
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A No ventilation shafts for this project.
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	N/A
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A No temporary open areas for this project.

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works to the end of the reporting month are summarised in the **Table K-1** below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex

Reporting Period Cumulative Statistics

	Complaints	Notifications of summons	Successful prosecutions
This reporting month	0	0	0
From 1 March 2016 to end of the reporting month (November 2025)	63	0	0

Part-2: EM&A for ELS Works for The Integrated Basement and Underground Road in Zones 2A, 2B & 2C

ELS Works for The Integrated Basement and Underground Road in Zones 2A, 2B & 2C

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best of our knowledge, correct at time of printing

The information supplied and contained within this report is, to the

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Executive summary

Apex Testing & Certification Limited (Apex) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A) for the construction activities in Zone 2A, consisting of Foundation, Excavation and Lateral Support Works for Integrated Basement and Underground Road (Contract No.: GW/2020/05/073); Zone 2B & 2C consisting of Piling Works for Integrated Basement and Underground Road (Contract No.: CC/2020/2B/088); and Zones 2A, 2B & 2C consisting of Excavation and Lateral Support Works (Stages 1 & 2) for The Integrated Basement and Underground Road (Contract No.: CC/2023/2B/095) at WKCD. The construction works and EM&A programme for Zone 2A (Contract No.: GW/2020/05/073) was commenced on 03 October 2020 and handed over on 31 March 2023; while the construction works and EM&A programme for Zone 2B & 2C (Contract No.: CC/2020/2B/088) was commenced on 30 September 2021 and handed over on 05 July 2024. The construction works and EM&A programme for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) was commenced on 05 July 2024.

The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/A (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO.

This Monthly EM&A Report presents the monitoring works at Zones 2A, 2B & 2C from 01 to 30 November 2025.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out on 05, 12, 19 and 26 November 2025 for Excavation and Lateral Support Works in Zones 2A, 2B & 2C to confirm the implementation measures undertaken by the Contractors in the reporting month. The outcomes are presented in Section 4 and the status of implementation of mitigation measures in the site is shown in **Appendix J**.

Landscape and visual impact inspections were conducted as part of the above-mentioned weekly site inspections during the reporting month. No adverse comment on landscape and visual aspects was made during these inspections.

Record of Complaints

No environmental complaints were recorded in the reporting month.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting month.

Future Key Issues

The major site works for Zones 2A, 2B & 2C scheduled to be commissioned in the coming month include:

- Pipe Pile and King Post Works
- Jet Grouting Works
- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS installation

Potential environmental impacts due to the construction activities, including air, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

1 Introduction

1.1 Background

Apex Testing & Certification Limited (Apex) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction activities in Zone 2A, consisting of Foundation, Excavation and Lateral Support Works for Integrated Basement and Underground Road (Contract No.: GW/2020/05/073); Zone 2B & 2C consisting of Piling Works for Integrated Basement and Underground Road (Contract No.: CC/2020/2B/088); and Zones 2A, 2B & 2C consisting of Excavation and Lateral Support Works (Stages 1 & 2) for The Integrated Basement and Underground Road (Contract No.: CC/2023/2B/095) at WKCD. The purpose of the development in Zone 2A and Zone 2B & 2C is to reserve for Integrated Basement (IB) and Underground Road (UR). The Zone 2A construction activities involve the foundation, excavation and lateral support (ELS) works, road works, drainage diversion works, and temporary car parking. The Zone 2B & 2C construction activities involve the piling works. The construction works and EM&A programme for Zone 2A (Contract No.: GW/2020/05/073) was commenced on 03 October 2020 and handed over on 31 March 2023: while the construction works and EM&A programme for Zone 2B & 2C (Contract No.: CC/2020/2B/088) was commenced on 30 September 2021 and handed over on 05 July 2024. The construction works and EM&A programme for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) was commenced on 05 July 2024.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/A (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary falls under this same category.

The Monthly EM&A Report is prepared in accordance with the Condition 3.4 of the Environmental Permit No. EP-453/2013/A. This Monthly EM&A Report presents the monitoring works at 2A, 2B & 2C from 01 to 30 November 2025. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Construction Works Status in the Reporting Period

During the reporting period, construction works at Zones 2A, 2B & 2C undertaken include:

- Pipe Pile and King Post Works
- Jet Grouting Works

- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS installation

The Construction Works Programme of Zones 2A, 2B & 2C is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**. Please refer to **Table 4.3** on the status of the environmental licenses.

1.4 Summary of EM&A Requirements and Alternative Monitoring Locations

1.4.1 EM&A Requirements

The EM&A programme requires environmental monitoring of air quality, noise, landscape and visual as specified in the approved EM&A Manual.

A summary of impact EM&A requirements is presented in **Table 1.1**.

Table 1.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies
Ala Occalita	24-Hours TSP	AM3-The Victoria Towers Tower 1	At least once every 6 days
	1-Hour TSP	AM3-The Victoria Towers Tower 1	At least 3 times every 6 days
	24-Hours TSP	AM4-Canton Road Government Primary School	At least once every 6 days
Air Quality	1-Hour TSP	AM4-Canton Road Government Primary School	At least 3 times every 6 days
	24-Hours TSP	AM5-Topside Developments at West Kowloon Terminus Site	At least once every 6 days
	1-Hour TSP	AM5-Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days
	Leq, 30 minutes	NM2-The Arch, Sun Tower	Weekly
	Leq, 30 minutes	NM3-The Victoria Towers Tower 1	Weekly
Noise	Leq, 30 minutes	NM4-Canton Road Government Primary School	Weekly
	Leq, 30 minutes	NM5-Development next to Austin Station	Weekly
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-Weekly

1.4.2 Alternative Monitoring Locations

The EM&A programme for the Project should require 5 noise monitoring station and 5 air quality monitoring stations located closest to the Project area. With regard to the monitoring activities at M+ Museum and the Lyric Complex, three monitoring stations had been considered, including AM1 (International Commerce Centre), AM2 (The Harbourside Tower 1) for air monitoring, and NM1 (The Harbourside Tower 1) for noise monitoring.

In the context of the construction activities in Zone 2A and Zone 2B & 2C, all other monitoring locations including AM3 (The Victoria Towers Tower 1), AM4 (Canton Road Government Primary School), and AM5 (Topside Developments at West Kowloon Terminus Site) for air monitoring; and NM2 (The Arch, Sun Tower), NM3 (The Victoria Towers Tower 1), NM4 (Canton Road Government Primary School) and NM5 (Development next to Austin Station) for noise monitoring, have been taken into account. However, access to all these originally designated monitoring stations was declined as described below point-by-point.

The Arch management office and owners' committee have formally declined the proposal of setting up noise monitoring instrument on its premises at the podium level of Sun Tower (NM2) on 24 July 2014. Thus, alternative noise monitoring location was identified at the ground floor in front of The Arch – Sun Tower (NM2A), which is at the same location as stated in the EM&A Manual for consistency. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

The Victoria Towers management office formally declined the proposal of setting up air quality and noise monitoring instruments on its premises at the podium area of Tower 1 (AM3/NM3) on 16 June 2020. Alternative air monitoring location was identified at ground floor at the Northeast corner of West Kowloon Station's station box (AM3A), in the same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020. An alternative noise monitoring location was identified at the ground floor in front of the Xiqu Centre (NM3A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

Canton Road Government Primary School formally declined the proposal of setting up air quality and noise monitoring instruments on its premise at the podium level (AM4/NM4) on 16 June 2020. Alternative air monitoring location was identified at ground floor at the Southeast corner of West Kowloon Station's station box (AM4A), in same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020. An alternative noise monitoring location was identified at the ground floor next to Tsim Sha Tsui Fire Station (NM4A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

MTR also formally declined the access to the designated AM5 location (topside developments at West Kowloon Terminus Site) on 15 July 2020. Alternative air monitoring location was identified at ground floor at the North of West Kowloon Station's station box (AM5A), in same direction to the area of major construction site activities in Zone 2A. This alternative air monitoring location was approved by EPD on 29 September 2020.

Grand Austin property management office formally declined our proposal of setting up noise monitoring instrument on its premises at the podium level (NM5) on 10 July 2020. Alternative noise monitoring location was identified at the Pedestrian road (ground floor) outside West Kowloon Station (NM5A), which is set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no

disturbance to the premises' occupants during noise monitoring activities. No management approval is required at the ground floor for conducting the noise monitoring. This alternative air monitoring location was approved by EPD on 29 September 2020.

The Environmental Quality Performance Limits for air quality and noise are shown in **Appendix C**.

The Event and Action Plan for air quality, construction noise, and landscape and visual are shown in **Appendix D**.

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**.

2 Impact Monitoring Methodology

2.1 Introduction

Air quality and noise monitoring methodology, including the monitoring locations, equipment used, parameters, frequency and duration etc., are described in this Section. The environmental monitoring schedules for the reporting period and the tentative monitoring Schedule for the coming month are provided in **Appendix E**.

The relevant EM&A monitoring requirements and details for landscape and audit impact, are also presented in this Section.

2.2 Air Quality

2.2.1 Monitoring Parameters, Frequency and Duration

Table 2.1 summarizes the monitoring parameters, frequency and duration of the TSP monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency	Duration
24-hour TSP	At least once in every six-days	24 hours
1-hour TSP	At least 3 times every six-days	60 minutes

2.2.2 Monitoring Locations

Monitoring stations and locations are given in Table 2.2 and shown in Figure 1.

Table 2.2: Air Quality Monitoring Station

Monitoring Station	Location Description	
AM3A	Northeast corner of West Kowloon Station's station box (G/F)	
AM4A	Southeast corner of West Kowloon Station's station box (G/F)	
AM5A	North of West Kowloon Station's station box (G/F)	

2.2.3 Monitoring Equipment

Continuous 24-hour TSP air quality monitoring was conducted using High Volume Sampler (HVS) (Model: TE-5170) located at the designated monitoring station. The HVS meets all the requirements stated in of the EM&A Manual. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. **Table 2.3** summarizes the equipment used in the impact air quality monitoring. Copies of the calibration certificates for the HVS, calibration kit and portable dust meters are attached in **Appendix F**.

Table 2.3: TSP Monitoring Equipment

Equipment Model	
24-hour TSP monitoring	
High Volume Sampler	TE-5170 (Serial No.: 4340; 3998; 4344)

Equipment	Model
Calibrator	TE-5025A (Orifice I.D.: 4088)
1-hour TSP monitoring	
Portable direct reading dust meter	Sibata-LD-3B (Serial No.: 276004, 336338, 476672)

Calibration of the HVS (five-point calibration) using Calibration Kit was carried out every two months. The HVS calibration orifice will be calibrated annually. Calibration certificate of the TE-5025A Calibration Kit and the HVS are provided in **Appendix F**.

The 1-hour TSP monitoring should be determined periodically (e.g. annually) by the HVS to check the validity and accuracy of the results measured by direct reading method.

2.2.4 Monitoring Methodology

24-hour TSP Monitoring

Installation

The HVS was installed at the site boundary. The following criteria were considered in the installation of the HVS.

- A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
- The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- A minimum of 2 metres separation from walls, parapets and penthouse was required for rooftop sampler.
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required.
- No furnace or incinerator flues or building vent were nearby.
- Airflow around the sampler was unrestricted.
- The sampler has been more than 20 metres from any drip line.
- Permission was obtained to set up the sampler and to obtain access to the monitoring station.
- A secured supply of electricity is needed to operate the sampler.

Preparation of Filter Papers

- Glass fibre filters were labelled and sufficient filters that were clean and without pinholes were selected.
- The filters used are specified to have a minimum collection efficiency of 99 percent for 0.3 μm (DOP) particles.
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C with relative humidity (RH) < 50% and was not variable by more than ±5 %. A convenient working RH was 40%. All preparation of filters was done by Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory.</p>

Field Monitoring Procedures

- The power supply was checked to ensure the HVS works properly.
- The filter holder and the area surrounding the filter were cleaned.

- The filter holder was removed by loosening the four 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 was secured with the aluminium strip.
- The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
- A new flow rate record sheet was set into the flow recorder.
- The flow rate of the HVS was checked and adjusted at around 1.3 m³/min. The range specified in the EM&A Manual was between 0.6-1.7 m³/min.
- The programmable timer was set for a sampling period of 24 hours, and the starting time, weather condition and the 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 length so that only surfaces with collected particulate matter were in contact.
- It was then placed in a clean plastic envelope and sealed.
- All monitoring information was recorded on a standard data sheet.
- Filters were sent to a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory for analysis.

Maintenance and Calibration

- The HVS and its accessories are maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVSs were calibrated upon installation and thereafter at bi-monthly intervals. The calibration kits were calibrated annually.
- Calibration records for HVS and calibration kit are shown in Appendix F.

1-hour TSP Monitoring

Field Monitoring

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

- Turn the power on.
- Close the air collecting opening cover.
- Push the "TIME SETTING" switch to [BG].
- Push "START/STOP" switch to perform background measurement for 6 seconds.
- Turn the knob at SENSI ADJ position to insert the light scattering plate.
- Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- Pull out the knob and return it to MEASURE position.
- Setting time period of 1 hour for the 1-hour TSP measurement.
- Push "START/STOP" to start the 1-hour TSP measurement.
- Regular checking of the time period setting to ensure monitoring time of 1 hour.

Maintenance and Calibration

- The 1-hour dust meter would be checked at 3-month intervals and calibrated at 1-year intervals throughout all stages of the air quality monitoring.
- Calibration records for direct dust meters are shown in Appendix F.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.3 Noise

2.3.1 Monitoring Parameters, Frequency and Duration

Table 2.4 summarizes the monitoring parameters, frequency and duration of noise monitoring. The noise in A-weighted levels L_{eq} , L_{10} and L_{90} are recorded in a 30-minute interval between 0700 and 1900 hours.

Table 2.4: Noise Monitoring Parameters, Period and Frequency

Time Period	Parameters	Frequency
Daytime on normal weekdays	$L_{eq}(30 \text{ min}), L_{90}(30 \text{ min}) \& L_{10}(30 \text{ min})$	Once every week
(0700-1900 hours)		

Note: *70 dB(A) for schools and 65 dB(A) during school examination periods.

If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

2.3.2 Monitoring Location

Noise monitoring stations and locations are given in Table 2.5 and shown in Figure 1.

Table 2.5: Noise Monitoring Station

Monitoring Station	Location
NM2A	The Arch – Sun Tower (G/F)
NM3A	Xiqu Centre (G/F)
NM4A	Next to Tsim Sha Tsui Fire Station (G/F)
NM5A	Pedestrian road (G/F) outside West Kowloon Station

2.3.3 Monitoring Equipment

Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{Aeq}) and percentile sound pressure level (L_x). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). **Table 2.6** summarizes the noise monitoring equipment model being used.

Table 2.6: Noise Monitoring Equipment

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Integrating Sound Level Meter	Calibrator
AWA5661 (Serial No.: 341483)	AWA6221A (Serial No.: AWA6221A0439E)

2.3.4 Monitoring Methodology

Field Monitoring

- The microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- Free Field measurement was made at NM5A monitoring location.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - frequency weighting: Atime weighting: Fast
 - time measurement: 30 minutes intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and has to be repeated after re-calibration or repair of the equipment.
- During the monitoring period, the L_{eq}, L₁₀ and L₉₀ were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- A correction of +3dB(A) was made to the free field measurements.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator is cleaned with soft cloth at quarterly intervals.
- The sound level meter and calibrator are sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- Calibration records are shown in Appendix F.

Weather Condition

 Meteorological data extracted from Hong Kong Observatory for the reporting month is provided in **Appendix H**.

2.4 Landscape and Visual

2.4.1 Monitoring Program

Table 2.7 details the monitoring program (as proposed in the WKCD EIA report) for landscape and visual impact during the construction phase.

Table 2.7: Monitoring Program for Landscape and Visual Impact during Construction Phase

Stage	Monitoring Task	Frequency	Report	Approval
Construction	Monitor implementation of proposed mitigation measures during the construction stage.	Bi-weekly	ET to report on Contractor's compliance	Counter- signed by IEC

During the landscape and visual impact monitoring, any changes in relation to the landscape and visual amenity should be monitored with reference to the baseline conditions of the site. In addition, mitigation measures were proposed in the WKCD EIA report to minimise the landscape and visual impacts during the construction phase. The proposed mitigation measures as shown in Table 9.1 and Table 9.2 of the EM&A Manual should be checked for proper implementation.

3 Monitoring Results

3.1 Impact Monitoring

Air quality, noise and landscape and visual impact monitoring was undertaken in compliance with the EM&A Manual during the reporting month.

3.2 Air Quality Monitoring

3.2.1 1-hour TSP

Results of 1-hour TSP are summarised in **Table 3.1**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.1: Summary of 1-hour TSP monitoring results

Monitoring	Monitoring	Start	1-ho	1-hour TSP (µg/m3)		3		Limit
Station	Date	Time	1st Result	2nd Result	3rd Result	(µg/m3)	Level (µg/m3)	Level (µg/m3)
	05-Nov-25	13:05	35	37	37			
	11-Nov-25	7:00	40	47	38			
AM3A	17-Nov-25	13:04	40	40	40	35-52	280.4	500
	22-Nov-25	7:09	46	52	51	-		
	28-Nov-25	13:05	51	52	51			
	05-Nov-25	13:13	36	32	36	- 32-59	278.5	500
	11-Nov-25	7:08	47	42	39			
AM4A	17-Nov-25	13:12	44	44	41			
	22-Nov-25	7:17	50	46	52			
	28-Nov-25	13:13	59	55	58			
	05-Nov-25	13:28	32	40	33			
	11-Nov-25	7:25	38	44	47			
AM5A	17-Nov-25	13:27	38	41	37	32-59	275.4	500
	22-Nov-25	7:34	47	51	52			
	28-Nov-25	13:28	59	59	56			

3.2.2 24-hour TSP

Results of 24-hour TSP are summarised in **Table 3.2**. Graphical plots of the monitoring results are shown in **Appendix G**.

Table 3.2: Summary of 24-hour TSP monitoring results

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (μg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
AM3A	05-Nov-25	10:00	35	25 51	150 / 0	260
AIVISA	11-Nov-25	10:00	37	35-51 152.4		200

Monitoring Station	Monitoring Date	Start Time	Monitoring Results (μg/m³)	Range (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
	17-Nov-25	10:00	38			
	22-Nov-25	10:00	48			
	28-Nov-25	10:00	51			
	05-Nov-25	10:00	34			260
	11-Nov-25	10:00	39		152.6	
AM4A	17-Nov-25	10:00	37	34-52		
	22-Nov-25	10:00	47			
	28-Nov-25	10:00	52			
	05-Nov-25	10:00	34			
	11-Nov-25	10:00	41			
AM5A	17-Nov-25	10:00	36	34-54	141.1	260
	22-Nov-25	10:00	48			
	28-Nov-25	10:00	54			
			-			

No exceedance of 1-hour and 24-hour TSP (Action or Limit Level) was recorded in the reporting period.

3.3 Noise Monitoring

The construction noise monitoring results are summarized in **Table 3.3**. Graphical plots of the monitoring data and the station set-up as façade and free-field measurements are shown in **Appendix G**.

Table 3.3: Summary of noise monitoring results during normal weekdays

Monitorin g Stations	Monitoring Date	Start Time	End Time	L _{eq} (30 mins) dB(A)	Limit Level for Leq (dB(A))
	05-Nov-25	13:05	13:35	62.6	
	11-Nov-25	08:00	08:30	62.9	_
NM2A	17-Nov-25	13:04	13:34	62.5	75
_	22-Nov-25	08:07	08:37	62.9	_
_	28-Nov-25	13:05	13:35	62.5	_
	05-Nov-25	14:35	15:05	61.1	
	11-Nov-25	09:21	09:51	61.0	_
NM3A	17-Nov-25	14:34	15:04	61.2	
_	22-Nov-25	09:32	10:02	60.9	_
_	28-Nov-25	14:44	15:14	60.7	_
	05-Nov-25	16:40	17:10	58.4	
_	11-Nov-25	09:56	10:26	58.2	_
NM4A	17-Nov-25	16:39	17:09	58.6	70/65^#
_	22-Nov-25	10:07	10:37	58.7	_
_	28-Nov-25	16:49	17:19	58.1	_
NIN4E A *	05-Nov-25	13:55	14:25	63.2	75
NM5A*	11-Nov-25	08:40	09:10	63.7	- 75

17-Nov-25	13:54	14:24	63.6
22-Nov-25	08:45	09:24	63.5
28-Nov-25	13:55	14:34	63.5

Remarks

No exceedance of Construction Noise (Action or Limit Level) was recorded in the reporting month

Construction Noise Permits for the works carried out during restricted hours were obtained and listed in **Table 4.3**.

3.4 Landscape and Visual Impact

Landscape and visual impact inspections were conducted as part of the weekly site inspections on 12 and 26 November 2025 for Zones 2A, 2B & 2C during the reporting month. As reviewed by the registered Landscape Architect, no adverse comment on landscape and visual aspects was made during these inspections.

The landscape and visual mitigation measures were implemented during the reporting period. The summary of implementation status of the environmental mitigation measures is provided in **Appendix J**.

^{* +3}dB (A) correction was applied to free-field measurement.

^{^ 70} dB(A) for schools and 65 dB(A) during school examination periods.

[#] No school examination was conducted during reporting period.

4 Site Environmental Management

4.1 Site Inspection

4.1.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Construction phase weekly site inspections were carried out on 05, 12, 19 and 26 November 2025 at Zones 2A, 2B & 2C. The joint site inspection with IEC, ET, ER and Contractor for Zones 2A, 2B & 2C was held on 12 November 2025. All observations have been recorded in the site inspection checklist and passed to the Contractor together with the appropriate recommended mitigation measures where necessary.

The key observations from the site inspections and associated recommendations are summarized in **Table 4.**.

Table 4.1: Summary of Site Inspections and Recommendations for Zones 2A, 2B & 2C

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses Action(s) Undertaken	/Close-out (Date)
05-Nov-25	Air Quality	The contractor was reminded that channel shall be sealed to prevent silt,	Sealing of channel was conducted.	11-Nov-25
	Water Quality	construction materials or debris from getting into drainage system.		
	&	The contractor was reminded that dus	. Water was sprayed	
	Waste Management	suppression measures shall be strengthened.	(water was sprayed.	
		The contractor was reminded to have better housekeeping and dispose of general refuse frequently at designed areas.	General refuse was removed.	
		The contractor was reminded that bags of cement shall be covered when not in use.	Stockpile of cement is removed.	

Inspectior Date	n Parameter	Observation / Recommendation	Contactor's Responses /Close-out Action(s) Undertaken (Date)
12-Nov-25	Noise Impact	The contractor was reminded that noise barrier shall be hanged up.	Noise barrier was hanged up. 17-Nov-25
	Air Quality	The contractor was reminded that dus suppression measures shall be strengthened.	t Water was sprayed.
		The contractor was reminded that NRMM labels shall be provided for all regulated machinery on site, using either a green or yellow colored label.	NRMM label was displayed in correct colour.
19-Nov-25	Water Quality	The contractor was reminded to clean up the deposited water.	Stagnant water was drained 22-Nov-25 away.
	Air Quality	The contractor was reminded that pumps shall be provided in low-lying catchment areas.	Pumps were properly connected.
		The contractor was reminded that bags of cement shall be properly covered when not in use.	Cement stockpiling was properly covered.
26-Nov-25	Air Quality & Noise Impact	The contractor was reminded that dus suppression measures shall be strengthened at the access road.	t The haul road was maintained 30-Nov-25 in wet condition.
	& Waste Management	The contractor was reminded that PMEs shall be kept covered during operation.	The PME was proper covered.
		The contractor was reminded to have better housekeeping and dispose of refuse frequently at designed areas.	General refuse was removed.

4.2 Advice on the Solid and Liquid Waste Management Status

The Contractors have been registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting will be carried out on site. A sufficient number of receptacles were available for general refuse collection.

4.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

As advised by the Zones 2A, 2B & 2C Contractor, 14558.72 tonne and 0 tonne of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively, while 17.15 tonne of general refuse were disposed of at SENT landfill. 0.0 tonne of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber was collected by recycling contractors in the reporting month. 0.00 tonne of inert C&D material were reused in other projects and 0.0 tonne of inert C&D material was imported for reuse at site in the reporting month. 27.55 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting period.

The cumulative waste generation records for Zones 2A, 2B & 2C are shown in Appendix I.

4.3 Status of Environmental Licenses and Permits

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4.3**.

4.3.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

The environmental permits, licenses, and/or notifications on environmental protection for this Project which were valid during the period are summarised in **Table 4**.

Table 4.3: Status of Environmental Submissions, Licenses and Permits for Zones 2A, 2B & 2C

Permit / License	Valid	Period				
No. / Notification / Reference No.	From	То	Status	Remarks		
Chemical Waste Produ	cer Registration	-	-			
WPN5117-256- V1011-40	11-Jul-24		Valid			
Billing Account Constr	uction Waste Dispos	sal				
7051739	01-Aug-24		Account Active			
Construction Noise Pe	rmit					
GW-RE1203-25	01-Oct-25	31-Mar-26	Valid	-		
PP-RE0019-25	15-Aug-25	31-Dec-25	Valid			
Wastewater Discharge	License					
WT00045374-2024	24-Oct-24	31-Oct-2029	Valid			
Notification under Air Pollution Control (Construction Dust) Regulation						
10006790	11-Jul-24		Notified			

4.4 Recommended Mitigation Measures

The EM&A programme followed the recommended mitigation measures in the EM&A Manual. The EM&A requirements as well as the summary of implementation status of the environmental mitigation measures are provided in **Appendix J**. In particular, the following mitigation measures were brought to attention during the site inspections:

4.4.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Air Quality

- Dust suppression measures shall be strengthened to minimize dust impact.
- NRMM labels shall be provided for all regulated machinery on site, using either a green or yellow coloured label.

Waste Management

 Better housekeeping shall be strengthened to avoid accumulation on site which may lead to hygiene problem.

Water Quality

- The deposited silt and water shall be removed frequently.
- Cement bags (>20 bags) shall be fully covered with tarpaulin when not in use.
- Channel shall be sealed to prevent silt, construction materials or debris from getting into drainage system.
- Pumps shall be provided in low-lying catchment areas.

Noise Impact

- The noise barriers shall be hanged up.
- PMEs shall be kept covered during operation.

Other

Stagnant water shall be cleaned for avoiding mosquito.

5 Compliance with Environmental Permit

The status of the required submission under the EP during the reporting period is summarized in **Table 5.1**.

Table 5.1: Status of Submissions under the Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report for October 2025	14 November 2025

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions

6.1 Record on Non-compliance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

6.2 Record on Environmental Complaints Received

No environmental complaint was received in the reporting month.

The cumulative statistics on complaints were provided in **Appendix K**.

6.3 Record on Notifications of Summons and Successful Prosecution

No notifications of summons or successful prosecutions were received this month. The cumulative statistics on notifications of summons and successful prosecutions were provided in **Appendix K**.

7 Future Key Issues

7.1 Construction Works for the Coming Month(s)

The major site works for Zones 2A, 2B & 2C scheduled to be commissioned in the coming month include:

- · Pipe Pile and King Post Works
- Jet Grouting Works
- Double Deck Hoarding Works
- Temporary Steel Platform
- ELS installation

7.2 Key Issues for the Coming Month

7.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Key issues to be considered in the coming month include:

- Generation of dust from construction works;
- Noise impact from piling works;
- Generation of site surface runoffs and wastewater from activities on-site;
- Management of stockpiles and slopes, particularly on rainy days;
- Sorting, recycling, storage and disposal of general refuse and construction waste; and
- Management of chemicals and avoidance of oil spillage on-site.

7.3 Monitoring Schedule for the Coming Month

The environmental site inspection and environmental monitoring will be continued in the coming month. The tentative monitoring schedule for the coming month is shown in the **Appendix E**.

8 Conclusions and Recommendations

8.1 Conclusions

The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for Zone 2A (Contract No.: GW/2020/05/073) was commenced on 03 October 2020 and handed over on 31 March 2023; while the construction works and EM&A programme for Zone 2B & 2C (Contract No.: CC/2020/2B/088) was commenced on 30 September 2021 and handed over on 05 July 2024. The construction works and EM&A programme for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) was commenced on 05 July 2024.

Monitoring of air quality and noise with respect to the Projects is underway. In particular, the 1-hour TSP, 24-hour TSP, Noise Level (as L_{eq} , 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Construction Noise in this reporting month.

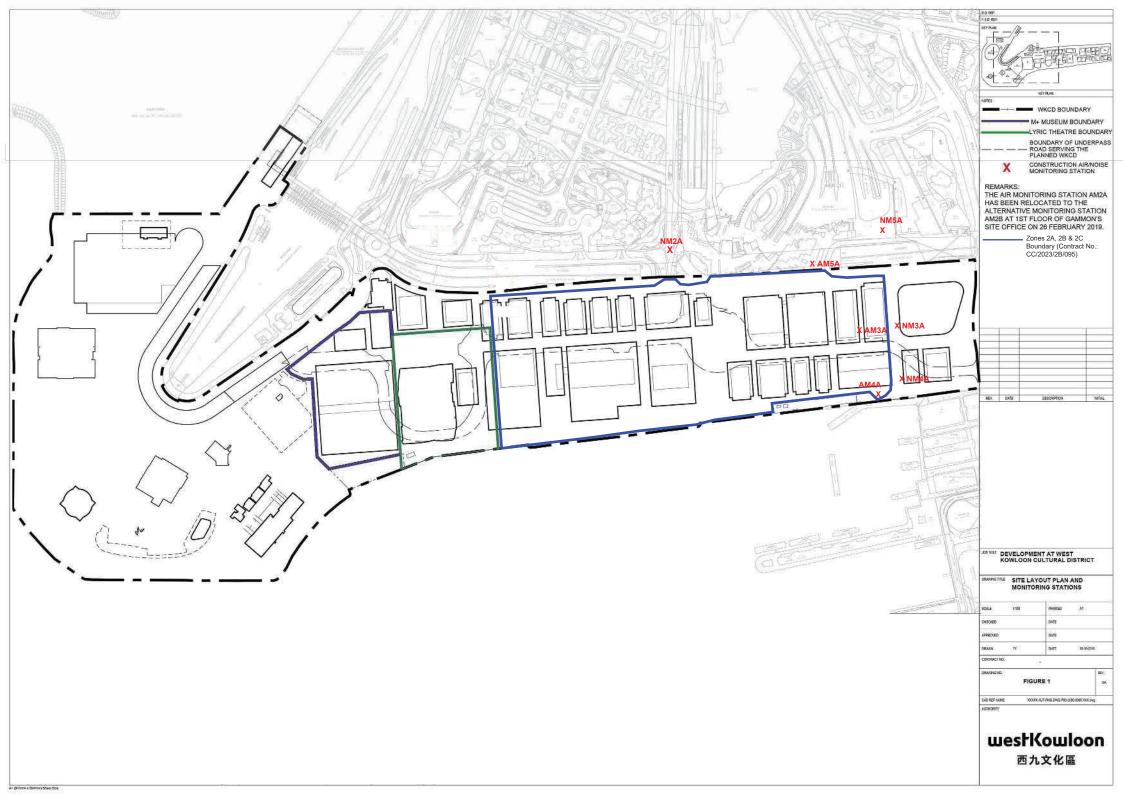
No environmental complaints were recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting month as required. It was observed that the Contractors had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

8.2 Recommendations

Potential environmental impacts due to the construction activities, including air quality, noise, water quality, waste, landscape and visual, will be monitored or reviewed. The recommended environmental mitigation measures shall be implemented on site and regular inspections as required will be carried out to ensure that the environmental conditions are acceptable.

Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Tentative Construction Programme
- C. Action and Limit Levels for Construction Phase
- D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact
- E. Monitoring Schedule
- F. Calibration Certifications
- G. Graphical Plots of the Monitoring Results
- H. Meteorological Data Extracted from Hong Kong Observatory
- I. Waste Flow table
- J. Environmental Mitigation Measures Implementation Status
- K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

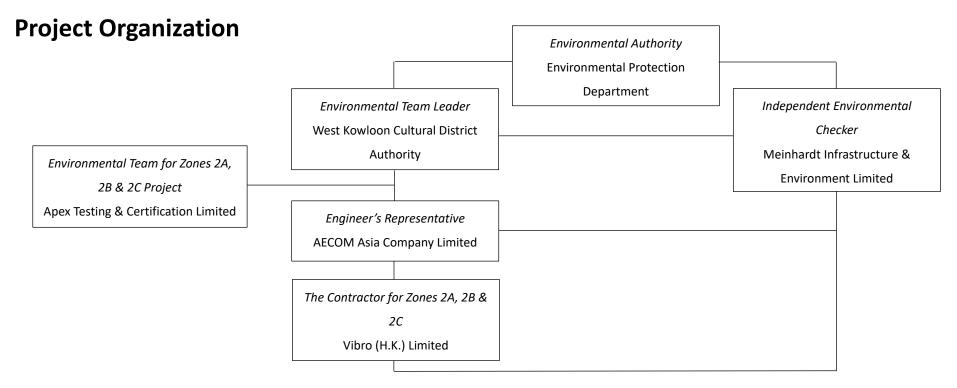


Table A-1: Contract Information

Company Name	Role	Name	Telephone	Email
West Kowloon Cultural District Authority	WKCDA Representative & Project ETL	Mr. Max LEE	2200 0782	max.sl.lee@wkcda.hk
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine LEE	2859 5409	claudinelee@meinhardt.com.hk
Leigh & Orange Ltd.	Senior Inspector of Works	Mr. Dick TAM	9762 6960	dick.tam@leighorange.com
AECOM Asia Company Limited	Resident Engineer (Zone 2 ELS)	Ms. Maggie TSANG	5543 8208	maggie.tsang@aecom.com
Vibro (H.K.) Limited	Environmental Sustainability Manager	Mr. Tony YAM	2137 5586	tony_yam@vibro.com.hk
Apex Testing & Certification Limited	Contractor's Environmental Team	Mr. Calvin LUI	9629 9718	calvinlui@apextestcert.com
	Leader			

B. Tentative Construction Programme

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Forecast Forecast /Actual Start Float /Actual Finish November December February Finish January 27 | 03 | 10 | 17 | 24 | 01 | 08 | 15 | 22 | 29 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | 23 | 02 | 09 | 16 | 23 | ELS Works (Stages 1 & 2) for IBUR in Zones 2ABC 28 Nov 2025 **Contract Dates CAI Date for Optional Works** Between 5 Jul 2024 and 21 Nov WKCDA-#AD-03030 (Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 29-Nov-25 29-Nov-25* 0% 0 (Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Completion within 870 Days 2C and NSO after Practical Completion within 870 Days WKCDA-#AD-03040 (Opt Works Item No.4) Road reinstatement works at Austin 0% 29-Nov-25 29-Nov-25* 0 (Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days Road West within 870 Days **BD Statutory Submissions Consent BA8 and BA10 Submissions BD Submission and Consent for Excavation and ELS Installation** WKCDA-BD-STA-01220 BA8 for excavation and ELS installation at Zone 2B(Stage 07-Feb-26 07-Feb-26 06-Mar-26 0% -94 28 06-Mar-26 28 2) to 0mPD(Consent 11) **BD Submission and Consent for Excavation and ELS Installation** WKCDA-BD-STA-01200 BA8 for excavation and ELS installation at Zone 27-Dec-25 23-Jan-26 27-Dec-25 23-Jan-26 0% -135 2A-1(Stage 2)(Consent 11) WKCDA-BD-STA-01210 BA10 for excavation and ELS installation at Zone 24-Jan-26 30-Jan-26 24-Jan-26 30-Jan-26 0% -135 2A-1(Stage 2)(Consent 11) **BD Submission and Consent for Excavation and ELS Installation** WKCDA-BD-STA-01180 BA8 for excavation and ELS installation at Zone 04-Jul-25 31-Jul-25 25-Jun-25 A 06-Nov-25 A 2A-2-1(Stage 2)(Consent 10) WKCDA-BD-STA-01190 BA10 for excavation and ELS installation at Zone 24-Oct-25 35 03-Oct-25 A 06-Nov-25 A 18-Oct-25 2A-2-1(Stage 2)(Consent 10) Cost Centre A - Preliminaries, General Requirements **General Submission and Procurement** Submission and Approval **Authority Department Submission** WKCDA-A-SUB-01440 Application to EPD and obtain permit for marine dumping 02-Nov-24 30-Jan-25 438 23-Sep-24 A 04-Dec-25 WKCDA-A-SUB-01480 Review and approve submission of Joint Written Guarantee 20-Jun-25 17-Jul-25 171 17-Jun-25 A 04-Dec-25 -126 for the water-tightness of ELS for Zones 2A-1 and 2A-2-1 Procurement and Delivery of Materials Steel Platform Materia Delivery of Steel Platform material for Zone 2A-2-1 30-Nov-25 WKCDA-A-PRO-2060 30 23-Jun-25 22-Jul-25 179 05-Jun-25 A 80% -139 WKCDA-A-PRO-2140 Delivery of Steel Platform material for Zone 2B & 2A-1 30 30-Dec-25 30 01-Dec-25 30-Dec-25 0% -139 01-Dec-25 Strut and Wailing WKCDA-A-PRO-2300 Delivery of Steel Strut and Wailing for Zone 2A-2-1 80 23-Jun-25 10-Sep-25 183 05-Jun-25 A 04-Dec-25 50% -36 WKCDA-A-PRO-2340 Delivery of Strut and Wailing for Zone 2B & 2A-1 70 01-Dec-25 08-Feb-26 70 01-Dec-25 08-Feb-26 0% -100 Interface Contractors and Other Project Contractors 516 Coordination with Contract no.CC/2017/3A/030 L1 Works of 25-Feb-25 05-Jul-24 A 02-Dec-25 WKCDA-A-CIC-01040 180 30-Aug-24 72% -124 the Lyric Theatre Complex and Extended basement in WKCDA-A-CIC-01060 Coordination with MTRCL, other Project Contractors and 30-Aug-24 25-Jun-25 537 05-Jul-24 A 23-Dec-25 72% -28 Future PIW Works Contractor WKCDA-A-CIC-01050 Coordination with Contract no.CC/2017/3A/031 L2 Contract 30-Aug-24 25-Feb-25 519 05-Jul-24 A 05-Dec-25 72% -100 for Lyric The atre Complex and Extended basement project WKCDA-A-CIC-01070 11-Jul-25 Coordination with Artist Square Tower Contractor 180 06-Jan-26 480 30-Aug-24 A 22-Dec-25 72% -13 WKCDA-A-CIC-01080 Coordination with Topside Developer and Associated 180 11-Jul-25 06-Jan-26 481 30-Aug-24 A 23-Dec-25 72% -14 63 WKCDA-A-CIC-01090 Coordination with Xiqu Centre Operator 180 11-Jul-25 06-Jan-26 481 30-Aug-24 A 23-Dec-25 72% WKCDA-A-CIC-01100 Coordination with Southern Landing Facility Contractor 180 11-Jul-25 474 30-Aug-24 A 16-Dec-25 72% -7 06-Jan-26 Cost Centre B & I - General, Hoarding and Monitoring Works Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 1 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Total Float Forecast Forecast /Actual Start R0 Dur Start /Actual Finish November December February Finish January 24 01 08 15 22 29 05 12 19 26 02 7 03 10 17 09 | 16 | 23 | 02 | 09 | 16 | 23 | **General Submission** Submission and Approva Method statement for Relocation of check water meter cabinet WKCDA-B-SUB-01125 Prepare and submit method statement for Relocation of 18 01-Jan-26 18-Jan-26 01-Jan-26 18-Jan-26 0% -28 Check water meter cabinet Review and Approve method statement for Relocation of WKCDA-B-SUB-01135 19-Jan-26 01-Feb-26 19-Jan-26 01-Feb-26 0% -28 Check water meter cabinet Construction Relocate water check meter cabinet WKCDA-B-MOB-01240 30 02-Feb-26 02-Feb-26 11-Mar-26 0% -24 Relocation of check water meter cabinet at Zone 2A East 11-Mar-26 30 gantry Coordination of External Works and Utilities Services WKCDA-B-MOB-01160 Coordination with highways department(HyD) 08-Nov-24 06-Jan-25 535 05-Jul-24 A 21-Dec-25 82% -18 29-Dec-25 -26 WKCDA-B-MOB-01200 75 Coordination with WSD 06-Dec-24 18-Feb-25 05-Jul-24 A 71% WKCDA-B-MOB-1420 Coordination with MTRC 75 11-Sep-25 411 20-Jan-26 71% 255 29-Jun-25 06-Dec-24 A WKCDA-B-MOB-1440 Coordination with DSD 11-Sep-25 20-Jan-26 255 29-Jun-25 06-Dec-24 A WKCDA-B-MOB-1460 75 -28 Coordination with FSD 29-Jun-25 11-Sep-25 377 20-Dec-24 A 31-Dec-25 71% WKCDA-B-MOB-1480 Coordination with other UU authorities 75 29-Jun-25 11-Sep-25 397 20-Dec-24 A 20-Jan-26 71% 255 WSD Pipe Diversion and Light Post (HyD) near Zone 2A WKCDA-B-MOB-01180 Relocation of existing light post at Zone 2A East gantry 60 30-Dec-25 13-Mar-26 60 30-Dec-25 13-Mar-26 0% 164 WKCDA-B-MOB-01315 Finishing works for covered walkway (including graphic, 11 06-Sep-25 18-Sep-25 81 01-Sep-25 A 06-Dec-25 35% 192 lighting and steel boards) along Austin Road West (80m) WKCDA-B-MOB-01320 Construction of footing for covered walkway along Austin 28-Jan-26 192 42 08-Dec-25 28-Jan-26 42 08-Dec-25 0% Road West (Approx . 200) WKCDA-B-MOB-01340 Erection and installation of steel frame for covered walkway 10-Jan-26 07-Mar-26 46 10-Jan-26 07-Mar-26 0% 192 along Austin Road West (200m) Finishing works for covered walkway (including graphic, WKCDA-B-MOB-01360 28-Mar-26 30-Jan-26 28-Mar-26 0% 192 30-Jan-26 lighting and steel boards) along Austin Road West 200m) Cost Centre C - Excavation and Lateral Support Works for Zone 2B (Stage 1) **Submissions and Approval BD Submission** WKCDA-C-SUB-01440 Submit BA14 and acknowledgment from BD for interlocking 28 04-Feb-26 03-Mar-26 04-Feb-26 03-Mar-26 28 pipe pile wall, grout curtain and king post at Zone 2B Construction Interlocking Pipe Pile Wall Works Interlocking Pipe Pile Wall Works at AURW Row (PP-165 to PP-319) Installation of interlocking pipe pile wall at Zone 2B(PP-300 WKCDA-C-CON-01274 02-Oct-25 11-Oct-25 30-Sep-25 A 04-Dec-25 60% to PP-309)(10nos, 1 no/day/rig, 1rig)(Consent 6a) Installation of interlocking pipe pile wall at Zone 2B(PP-310 -64 WKCDA-C-CON-01276 24-Nov-25 02-Dec-25 11-Nov-25 A 01-Dec-25 90% to PP-319)(10nos, 1 no/day/rig, 1rig)(Consent 6a) Interlocking Pipe Pile Wall Works at Middle Row (PPB-171 to PPB-001) Installation of interlocking pipe pile wall at Zone WKCDA-C-CON-01452 05-Dec-25 06-Dec-25 05-Dec-25 06-Dec-25 0% -69 2B(PPB-01)(1no, 1 no/day/rig, 1rig)(Consent 6a) Post Grout Curtain Works Drilling for post-grout Curtain Works AURW Row (PP-165 to PP-319) WKCDA-C-CON-10500 Drilling for post grout curtain works at Zone 2B(P A296 to 05-Nov-25 17-Nov-25 265 14-Jan-25 A 03-Dec-25 71% -66 -70 WKCDA-C-CON-10260 Drilling for post grout curtain works at Zone 2B(P A310 to 13-Nov-25 21-Nov-25 267 16-Jan-25 A 08-Dec-25 50% P A321)(Consent 6a) 12 WKCDA-C-CON-10480 Drilling for post grout curtain works at Zone 2B(P A284 to 20-Jan-25 A 03-Nov-25 A 100% 25-Oct-25 04-Nov-25 P A295)(Consent 6a) 12 Drilling for post-grout Curtain Works between Zone 3 and Zone 2B WKCDA-C-CON-10800 Drilling for post grout curtain works between Zone 3 and 18-Feb-25 13-Mar-25 243 22-Jan-25 A Zone 2B (G A032 to G A062) 31 Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 2 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Forecast Forecast Float R0 Dur Start /Actual Start Actual Finish November December February Finish January 24 01 08 15 22 29 05 12 19 26 02 7 03 10 17 09 | 16 | 23 | 02 | 09 | 16 | 23 | WKCDA-C-CON-10820 Drilling for post grout curtain works between Zone 3 and 21 21-Jan-25 17-Feb-25 220 25-Feb-25 A 19-Nov-25 A 100% Zone 2B (G_A063 to G_A093) 31 Drilling for post-grout Curtain Works between Zone 3 and Zone 2C Drilling for post grout curtain works between Zone 3 and 25-Jun-25 230 26-Feb-25 A 02-Dec-25 WKCDA-C-CON-10900 25 27-May-25 Zone 2B (G A194 to G A217) 24 Post Grout Curtain Works AURW Row (PP-164 to PP-001) Carry-out Post grout curtain works at Zone 2B(P_A055 to WKCDA-C-CON-01092 14 23-Jun-25 08-Jul-25 208 07-Apr-25 A 15-Dec-25 20% -68 P A036)(Consent 3) 20 Post Grout Curtain Works AURW Row (PP-165 to PP-319) Carry-out Post grout curtain works at Zone 2B(P A270 to WKCDA-C-CON-01265 31-Oct-25 11-Nov-25 44 10-Oct-25 A 01-Dec-25 98% -56 P A283)(Consent 6a) 14 01-Dec-25 86% WKCDA-C-CON-01267 Carry-out Post grout curtain works at Zone 2B(P_A284 to 25-Nov-25 03-Dec-25 28 30-Oct-25 A -56 P_A295)(Consent 6a) 12 WKCDA-C-CON-01275 Carry-out Post grout curtain works at Zone 2B(P_A296 to 28-Nov-25 10-Dec-25 29 06-Nov-25 A 09-Dec-25 21% -71 WKCDA-C-CON-01280 Carry-out Post grout curtain works at Zone 2B(P A310 to 10 18-Dec-25 27-Dec-25 10 18-Dec-25 27-Dec-25 0% -95 P A321)(Consent 6a) 12 Closing Point of IPP at Austin Road West Carry-out Post grout (AD023 AD031) at Zone B (Closing WKCDA-C-CON-01325 25-Oct-25 04-Nov-25 22-Oct-25 A 31-Oct-25 A 100% Point 02 bet. PP-120 & -121) WKCDA-C-CON-01305 Drilling for grouthole (AD011 AD014) at Zone B (Closing -78 29-Nov-25 08-Dec-25 29-Nov-25 08-Dec-25 0% Point 03 bet. Existing IPP & PP-319) WKCDA-C-CON-01335 Carry-out Post grout (AD011 AD014) at Zone B (Closing 09-Dec-25 17-Dec-25 09-Dec-25 17-Dec-25 0% -78 Point 03 bet. Existing IPP & PP-319) Closing Point of IPP at Middle Rov WKCDA-C-CON-01475 Drilling for grouthole (AD015_AD018) at Zone B (Closing 29-Nov-25 03-Dec-25 29-Nov-25 03-Dec-25 0% 266 Point 05 bet. PPB-001 & PPA-395 WKCDA-C-CON-01488 Carry-out Post grout (AD015 AD018) at Zone B (Closing 04-Dec-25 08-Dec-25 04-Dec-25 08-Dec-25 0% 266 Point 05 bet. PPB-001 & PPA-395 Post Grout Curtain Works between Zone 3 and Zone 2B WKCDA-C-CON-01070 Carry-out Post grout curtain works between Zone 3 and 21 12-Mar-25 05-Apr-25 192 16-Apr-25 A 05-Dec-25 78% -60 Zone 2B (G_A063 to G_A093) 31 04-Aug-25 WKCDA-C-CON-01050 Carry-out Post grout curtain works between Zone 3 and 11-Jul-25 12-Jun-25 A 03-Dec-25 87% -58 21 147 Zone 2B (G A032 to G A062) 31 Post Grout Curtain Works between Zone 3 and Zone 2C WKCDA-C-CON-01210 Carry-out Post grout curtain works between Zone 3 and 25 06-Sep-25 06-Oct-25 22-Apr-25 A 03-Dec-25 188 91% -58 Zone 2B (G A194 to G A217) 24 WKCDA-C-CON-01540 Jet grouting (ground treatment) works at Zone 2B (Type 3, 50 11-Jul-25 06-Sep-25 121 10-Jul-25 A 01-Dec-25 75% -95 6.5m width, 4 cluster, 1 rig), 49 Jet grouting (ground treatment) works at Zone 2B (Type 6, 71% -64 WKCDA-C-CON-01525 26 15-Sep-25 16-Oct-25 83 02-Sep-25 A 10-Dec-25 13.3m width, 8 cluster, 1 rig), 52 WKCDA-C-CON-01545 Jet grouting (ground treatment) works at Zone 2B (Type 5, 28-Oct-25 79 08-Dec-25 85% -62 22-Sep-25 04-Sep-25 A 9.9m width, 6 cluster, 1 rig), 60 Jet grouting (ground treatment) works at Zone 2B (Type 1, WKCDA-C-CON-01555 82 12-Dec-25 50% -66 24 06-Oct-25 04-Nov-25 05-Sep-25 A 4.8m width, 3 cluster, 1 rig), 60 WKCDA-C-CON-01530 Jet grouting (ground treatment) works at Zone 2B (Type 2, 50% -70 32 26-Nov-25 05-Jan-26 32 11-Nov-25 A 17-Dec-25 6.5m width, 4 cluster, 1 rig), 61 WKCDA-C-CON-01550 Jet grouting (ground treatment) works at Zone 2B (Type 5, 50% -62 29-Nov-25 18-Dec-25 11-Nov-25 A 08-Dec-25 9.9m width, 6 cluster, 1 rig), 33 WKCDA-C-CON-01560 Jet grouting (ground treatment) works at Zone 2B (Type 4, 29-Dec-25 29 11-Nov-25 A 13-Dec-25 50% -67 26 27-Nov-25 8.2m width, 5 cluster, 1 rig), 52 WKCDA-C-CON-01495 Installation of king post at Zone 2B(36nos, 3days/pile/rig, 22-Aug-25 03-Oct-25 103 21-Aug-25 A 22-Dec-25 20% -43 WKCDA-C-CON-01485 Installation of king post at Zone 2B(38nos, 3days/pile/rig 06-Sep-25 22-Oct-25 01-Sep-25 A 22-Dec-25 10% **-4**3 3rigs) for ELS King Post Works (Driver Grid Line 60 to GL52-1 (K1-K48) Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Ba CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 3 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Forecast Forecast /Actual Start Float R0 Dur Start Actual Finish November December February Finish January 7 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 16 23 02 09 16 23 WKCDA-C-CON-10935 Installation of king post at Zone 2B(9nos, 3days/pile/rig 27 13-Sep-25 16-Oct-25 50 06-Sep-25 A 06-Nov-25 A 100% 1rigs) for ELS Grid Line 46-1 to GL40-1 (K72-K103) WKCDA-C-CON-10950 Installation of king post at Zone 2B(9nos, 3days/pile/rig, 28-Oct-25 22-Sep-25 A 14-Nov-25 A 100% 27-Sep-25 1rigs) for ELS Zone 2B at Austin Road West Installation of pump wells(OW,DW&RW) (15nos, WKCDA-C-CON-01405 03-Sep-25 19-Sep-25 79 27-Aug-25 A 29-Nov-25 66% -88 3days/no/rig, 3rig) at Zone 2B AURW (Inside) Installation of pump wells(OW,DW&RW) (15nos, WKCDA-C-CON-01410 17-Nov-25 03-Dec-25 83 27-Aug-25 A 04-Dec-25 66% 3days/no/rig, 3rig) at Zone 2B AURW (Inside) WKCDA-C-CON-01417 Installation of pump wells(OW,DW&RW) (15nos, 12-Dec-25 15% 15 28-Nov-25 15-Dec-25 50 15-Oct-25 A -105 3days/no/rig, 3rig) at Zone 2B AURW (Outside) WKCDA-C-CON-01415 Installation of pump wells(OW,DW&RW) (15nos, 02-Dec-25 18-Dec-25 15 02-Dec-25 18-Dec-25 0% -95 3days/no/rig, 3rig) at Zone 2B AURW (Outside) WKCDA-C-CON-01425 Installation of pump wells (OW,DW&RW) (14nos, 19-Dec-25 07-Jan-26 14 19-Dec-25 07-Jan-26 0% -95 3days/no/rig, 3rig) at Zone 2B/2C (Inside) Installation of pump wells (OW,DW&RW) (14nos, WKCDA-C-CON-01435 19-Jan-26 0% -117 03-Jan-26 19-Jan-26 17 03-Jan-26 3days/no/rig, 3rig) at Zone 2B/2C (Inside) WKCDA-C-CON-01520 Carry-out pumping test and report submission at Zone 2B 20-Jan-26 03-Feb-26 20-Jan-26 03-Feb-26 0% -118 to FFL (1st Pumping Test) Cost Centre D - Excavation and Lateral Support Works for Zone 2C (Stage 1) Construction Pre-grout curtain works at Zone 2C Pre-grout curtain works at Zone 2C Part 2 WKCDA-D-CON-01067 | Carry-out Pre-grout curtain works at Zone 2C(A A308 to 25-Feb-25 02-Apr-25 219 13-Mar-25 A 04-Dec-25 90% 234 A A350 EVEN)(A B155 to A B179)(Consent 6b) 22,25 Carry-out Pre-grout curtain works at Zone 2C(A A352 to 02-Apr-25 14-May-25 219 13-Mar-25 A 04-Dec-25 90% 251 A A396 EVEN)(A B180 to A B202)(Consent 6b) 23,23 erlocking Pipe Pile Wall Works Interlocking Pipe Pile Wall Works Part 1 WKCDA-D-CON-01120 Installation of interlocking pipe pile wall at Zone 2C(PPA-029 27 11-Oct-25 12-Nov-25 56 06-Oct-25 A 11-Dec-25 61% **-**81 to PPA-003)(27nos, 1 no/day/rig, 1rig)(Consent 6b) Interlocking Pipe Pile Wall Works Part 2 Installation of interlocking pipe pile wall at Zone 2C(PPA-374 23 WKCDA-D-CON-01280 24-Oct-25 20-Nov-25 61 14-Oct-25 A 24-Dec-25 20% 234 to PPA-397)(24nos, 1 no/day/rig, 1rig)(Consent 6b) WKCDA-D-CON-1380 Drilling for post grout curtain works at Zone 2C(A A077 to 06-Sep-25 09-Oct-25 53 28-Aug-25 A 31-Oct-25 A A A038)(Consent 6b) 40 WKCDA-D-CON-1360 Drilling for post grout curtain works at Zone 2C(A A037 to 25 05-Dec-25 06-Jan-26 25 05-Dec-25 06-Jan-26 0% 234 A A001)(Consent 6b) 37 Drilling for post-grout curtain works Part 2 WKCDA-D-CON-1500 Drilling for post grout curtain works at Zone 2C(A A298 to 21-Aug-25 29-Sep-25 31-Jul-25 A 15-Dec-25 90% 242 A A347)(Consent 6b) 50 WKCDA-D-CON-1340 Drilling for post grout curtain works at Zone 2C(A A348 to 34 18-Dec-25 29-Jan-26 18-Dec-25 29-Jan-26 0% 240 A_A397)(Consent 6b) 50 Post Grout Curtain Works Part 1 18-Dec-25 59% WKCDA-D-CON-01292 Carry-out post grout curtain works at Zone 2C(A_A117 to 27-Sep-25 31-Oct-25 83 10-Sep-25 A 220 A A078)(Consent 6b) 40 WKCDA-D-CON-01291 Carry-out post grout curtain works at Zone 2C(A A077 to 0% 220 19-Dec-25 22-Jan-26 27 19-Dec-25 22-Jan-26 A A038)(Consent 6b) 40 WKCDA-D-CON-01290 Carry-out post grout curtain works at Zone 2C(A A037 to 25-Feb-26 0% 220 23-Jan-26 25-Feb-26 26 23-Jan-26 A A001)(Consent 6b) 37 Post Grout Curtain Works Part 2 Carry-out post grout curtain works at Zone 2C(A A248 to 25-Aug-25 03-Oct-25 127 24-Jul-25 A 202 WKCDA-D-CON-01296 Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 4 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Forecast Forecast /Actual Start Float R0 Dur Start Actual Finish December February Finish 24 01 08 15 22 29 05 12 19 26 02 09 16 23 02 09 16 23 03 10 17 WKCDA-D-CON-01297 Carry-out post grout curtain works at Zone 2C(A_A298 to 34 23-Dec-25 03-Feb-26 34 23-Dec-25 03-Feb-26 0% 202 A_A347)(Consent 6b) 50 WKCDA-D-CON-01300 Carry-out post grout curtain works at Zone 2C(A A348 to 04-Feb-26 18-Mar-26 04-Feb-26 18-Mar-26 0% 202 A_A397)(Consent 6b) 50 Closing Point bet, Gammon Existing IPP & PPA-003 WKCDA-D-CON-01307 Drilling for grouthole (AD001 AD006 at Seaside bet. 12-Dec-25 18-Dec-25 12-Dec-25 18-Dec-25 0% -81 6 Gammon existing IPP & PP-004) 6 WKCDA-D-CON-01312 Carry-out Post grout (AD001_AD006 at Seaside bet. 19-Dec-25 30-Dec-25 12 19-Dec-25 30-Dec-25 0% -98 Gammon existing IPP & PP-004) 6 WKCDA-D-CON-01055 Installation of pump wells(OW,DW&RW)(17nos, 10-Feb-26 10-Feb-26 0% 230 20 19-Jan-26 20 19-Jan-26 3days/no/rig, 2rig) at Zone 2C 4 (Outside) WKCDA-D-CON-01075 Installation of pump wells(OW,DW&RW)(17nos, 0% 230 19-Jan-26 10-Feb-26 20 19-Jan-26 10-Feb-26 3days/no/rig, 2rig) at Zone 2C 4 (Outside) WKCDA-D-CON-01320 Installation of pump wells(OW,DW&RW)(14nos, 20-Jan-26 12-Feb-26 21 20-Jan-26 12-Feb-26 0% 157 3days/no/rig, 2rig) at Zone 2C 1 (Inside) Installation of pump wells(OW.DW&RW)(14nos. 157 WKCDA-D-CON-01321 12-Mar-26 13-Feb-26 12-Mar-26 0% 13-Feb-26 21 3days/no/rig, 2rig) at Zone 2C 2 (Inside) Cost Centre E - Excavation and Lateral Support Works for Zone 2B (Stage 2) **Submissions and Approval** Design Submission and Statutory Submission ELS design at zone 2B & zone 2A-1 (stage 2) WKCDA-F-SUB-01265 Review and approve submission of ELS design at zone 2B 04-Oct-25 31-Oct-25 75 19-Sep-25 A 02-Dec-25 90% -14 & zone 2A-1 by BD WKCDA-F-SUB-01275 Prepare and submit of ELS design at zone 2B & zone 2A-1 13 11-Oct-25 25-Oct-25 44 19-Sep-25 A 12-Nov-25 A 100% to AECOM (1st amendment) AECOM review of ELS design at zone 2B & 2A-1 and WKCDA-F-SUB-01285 29-Nov-25 05-Dec-25 29-Nov-25 05-Dec-25 0% -144 submit to BD for approval (1st amendment) WKCDA-F-SUB-01295 Review and approve of ELS design at zone 2B & zone 06-Dec-25 02-Jan-26 28 06-Dec-25 02-Jan-26 0% -144 2A-1 by BD (1st amendment) Method statement for excavation and lateral support installation at Zone 2B (Stage 2) Prepare and submit method statement for excavation and WKCDA-E-SUB-01000 21-Aug-25 25-Jul-25 153 14-Jul-25 A 13-Dec-25 75% -126 lateral support installation at Zone 2B(Stage 2) WKCDA-E-SUB-01020 Review and approve submission of method statement for 14-Dec-25 11-Feb-26 14-Dec-25 11-Feb-26 0% -126 excavation and lateral support installation at Zone 2B(Stage Excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 11) WKCDA-E-SUB-01040 Application and obtain consent(BA8) for excavation and 28 06-Mar-26 28 07-Feb-26 06-Mar-26 0% 07-Feb-26 -94 ELS installation at Zone 2B(Stage 2) to FEL(Consent 11) Construction Excavation, Temporary Shoring and Struts Excavation WKCDA-E-CON-01040 Mobilize excavation and temporary shoring and strut plant 11-Dec-25 18-Dec-25 11-Dec-25 18-Dec-25 0% -110 and equipment at Zone 2B(Stage 2) Excavation to +3.000mPD 1st ELS Layer at Zone 2B WKCDA-E-CON-01060 31-Dec-25 29-Jan-26 25 31-Dec-25 29-Jan-26 0% -118 (39583m3, 1583m3/day) Part 1 Excavation to +3.000mPD 1st ELS Layer at Zone 2B WKCDA-E-CON-01070 03-Mar-26 03-Mar-26 0% -118 30-Jan-26 25 30-Jan-26 (40331m3, 1613m3/day) Part 2 Temporary Shoring WKCDA-E-CON-01021 Installation of king post at Zone 2B(74nos, 3days/pile/rig, 28-Oct-25 29-Aug-25 A 10-Dec-25 95% -110 43 06-Sep-25 6rigs) for Steel Platform Part 2 WKCDA-E-CON-10200 Installation of king post at Zone 2B(62nos, 3days/pile/rig, 75 27-Dec-25 10% -116 31 08-Oct-25 13-Nov-25 26-Sep-25 A 6rigs) for Steel Platform Part 3 WKCDA-E-CON-01080 Construction of temporary steel platform at Zone 2B 31-Dec-25 04-Feb-26 30 31-Dec-25 04-Feb-26 0% -102 WKCDA-E-CON-10220 Construction of temporary steel platform at Zone 2B 30 05-Feb-26 14-Mar-26 30 05-Feb-26 14-Mar-26 0% -102 (1,072T)FLS Installation 3,216 Ton WKCDA-E-CON-01100 ELS installation to +3.000mPD for 1st layer at Zone 2B 81 30-Jan-26 13-May-26 13-May-26 0% -118 81 30-Jan-26 Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 5 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Activity ID Activity Name Total Float Forecast Forecast /Actual Start /Actual Finish December February Finish January 27 | 03 | 10 | 17 | 24 | 01 | 08 | 15 | 22 | 29 | 05 | 12 | 19 | 26 | 02 | 09 | 16 | 23 | 02 | 09 | 16 | 23 | Cost Centre F - Excavation and Lateral Support Works for Zone 2A-1 (Stage 2) **Submissions and Approval** King post at Zone 2A-1 WKCDA-F-SUB-01140 Submit BA14 and acknowledgment from BD for king post at 29-Nov-25 26-Dec-25 29-Nov-25 26-Dec-25 -135 WKCDA-F-SUB-01160 Application and obtain consent(BA8) for excavation and 28 27-Dec-25 23-Jan-26 28 27-Dec-25 23-Jan-26 0% -135 ELS installation at Zone 2A-1 (Stage 2)(Consent 11) Submit BA10 for excavation and ELS installation at Zone WKCDA-F-SUB-01180 -135 30-Jan-26 24-Jan-26 30-Jan-26 0% 24-Jan-26 Steel Platform Design at Zone 2B & Zone 2A-1 Prepare and Submit Steel Platform Design at Zone 2B & 05-May-25 A 20-Nov-25 A WKCDA-F-SUB-1300 27-Jun-25 22-Aug-25 200 Zone 2A-1 (Stage 2, Top Deck) WKCDA-F-SUB-1320 Review and Approve Design Submission of Steel Platform 29 29-Nov-25 27-Dec-25 36 31-Oct-25 A 05-Dec-25 75% -127 Design at Zone 2B & Zone 2A-1 (Stage 2, Top Deck) WKCDA-F-SUB-1360 Review and Approve Submission of Method Statement for 18-Jul-25 15-Aug-25 162 14-Jul-25 A 22-Dec-25 25% Steel Platform at Zone 2B & Zone 2A-1 (Stage 2, Top Deck) Construction WKCDA-F-CON-01030 Installation of king post at Zone 2A-1(17nos, 3days/pile/rig, 26 11-Oct-25 05-Nov-25 34 06-Oct-25 A 08-Nov-25 A 3rig) for Steel Platform WKCDA-F-CON-01080 Mobilize excavation and temporary shoring and strut plant 11-Dec-25 18-Dec-25 11-Dec-25 18-Dec-25 0% and equipment at Zone 2A-1(Stage 2) WKCDA-F-CON-01100 Excavation to +3.0mPD from existing ground level at Zone 09-Feb-26 34 31-Dec-25 09-Feb-26 0% -118 34 31-Dec-25 2A-1 (7245m3, 213m3/day) Excavation to +3.0mPD from existing ground level at Zone WKCDA-F-CON-01110 10-Feb-26 25-Mar-26 0% -118 35 10-Feb-26 25-Mar-26 35 2A-1 (7481m3, 214m3/day) **Temporary Shoring** WKCDA-F-CON-01120 Construction of temporary steel platform at Zone 2A-1 30 31-Dec-25 04-Feb-26 30 31-Dec-25 04-Feb-26 0% -114 WKCDA-F-CON-1380 Construction of temporary steel platform at Zone 2A-1 30 05-Feb-26 14-Mar-26 30 05-Feb-26 14-Mar-26 0% -109 Cost Centre G - Excavation and Lateral Support Works for Zone 2A-2-1 (Stage 2) Construction WKCDA-G-CON-01130 Welding Capping plate and Cofferdam railing Installation 52 15-Aug-25 05-Oct-25 115 24-Jul-25 A 15-Nov-25 A First 1.5m depth Excavation on Zone 2A-2-1 (Remaining 10% WKCDA-G-CON-01095 21 11-Oct-25 05-Nov-25 68 28-Sep-25 A 19-Dec-25 -53 5500m3, Area 2, 300m3/day) Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 0% -66 WKCDA-G-CON-01100 05-Dec-25 07-Jan-26 26 05-Dec-25 07-Jan-26 (8820m3, 338m3/day) Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 WKCDA-G-CON-01110 31 12-Feb-26 31 12-Feb-26 0% -66 08-Jan-26 08-Jan-26 (5420m3, 200m3/day) Excavation to -2.6mPD 2nd ELS Layer at Zone 2A-2-1 WKCDA-G-CON-01160 13-Feb-26 28-Mar-26 35 13-Feb-26 28-Mar-26 0% -66 (11820m3, 338m3/day) Temporary Shoring WKCDA-G-CON-01120 Construction of temporary steel platform at Zone 2A-2-1 30 16-Sep-25 22-Oct-25 100 18-Aug-25 A 15-Dec-25 65% -18 (315T) (Portion 1 near AUR West) WKCDA-G-CON-01380 Construction of temporary steel platform at Zone 2A-2-1 16-Dec-25 22-Jan-26 30 16-Dec-25 22-Jan-26 0% -13 WKCDA-G-CON-01400 Construction of temporary steel platform at Zone 2A-2-1 23-Jan-26 02-Mar-26 30 23-Jan-26 02-Mar-26 0% -5 (314T) ELS Installation (1,392 Ton) WKCDA-G-CON-01122 Install Struts & Wallings to +2.75mPD for 1st layer at Zone 18 29-Nov-25 19-Dec-25 19-Dec-25 0% 18 29-Nov-25 2A-2-1 (Area A,B & C) Date Revision Checked Approved 2ABC.R0.20251128 Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 lрр 02-Dec-25 11:33 Actual Work Complet... Critical MS Three Month Rolling Programme as of 28 Nov 2025 Page 6 of 7 Critical Bar 💠 ♦ R0 MS

ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District Total Float Activity ID Activity Name CMWP R0 Forecast Forecast Start /Actual Start Actual Finish November December February Finish January 03 | 10 | 17 | 24 | 01 | 08 | 15 | 22 | 29 | 05 | 12 | 19 | 26 | 02 09 | 16 | 23 | 02 | 09 | 16 | 23 | WKCDA-G-CON-01124 Pre-loading ELS at 2.75mPD for 1st layer (Area A, B &C) 12 20-Dec-25 06-Jan-26 12 20-Dec-25 06-Jan-26 0% -40 ELS Finished at +2.75mPD for 1st Layer (Area A, B&C) & 0% -50 WKCDA-G-CON-01126 07-Jan-26 13-Jan-26 07-Jan-26 13-Jan-26 ICE Certificate Install Struts & Wallings to +2.75mPD for 1st layer at Zone WKCDA-G-CON-01128 18 13-Feb-26 09-Mar-26 13-Feb-26 09-Mar-26 0% -66 18 2A-2-1 (Area D&E) Cost Centre H - Bored Pile Foundation for Zone 2A-2-2 Construction Full coring (Bored Piles) WKCDA-H-CON-01920 Carry-out Full core drilling works (2nos, 3days/pile/rig, 1rig) 10 09-Sep-25 19-Sep-25 25-Aug-25 A 17-Nov-25 A 100% and report submission to BD Cost Centre J & M - Site Safety and Smart Site Safety System **General Submission** ion and Approval and In WKCDA-JM-SUB-01000 15-Jul-24 A 22-Feb-27 Submit and update Construction Health and Safety Plan 05-Jul-24 04-Jan-27 953 50% -49 914 WKCDA-JM-SUB-01100 Implementation and update of SSSS(including 879 09-Aug-24 04-Jan-27 901 05-Sep-24 A 22-Feb-27 47% **-**49 communication network centralized management CAI No. 005 Carry out 9 mos of the Provisional Quantities 69% **-4**9 WKCDA-JM-SUB-01125 17-May-26 324 05-Apr-25 A 22-Feb-26 275 15-Aug-25 for Site Safety Envi Mngt Compliance Review SSSS Remaining Provisional Quantities for Site Safety Envi Mngt WKCDA-JM-SUB-01130 23-Feb-26 22-Feb-27 23-Feb-26 22-Feb-27 0% **-4**9 Compliance Review SSSS (CC J,K,L &M) Cost Centre K - Environmental Management **General Submission** Submission and Approval and Imp WKCDA-K-SUB-01020 Conduct environmental monitoring & audit and submit 05-Jul-24 04-Jan-27 963 05-Jul-24 A 22-Feb-27 51% **-**49 914 EM&A report to EPD WKCDA-K-SUB-01000 Submit and update Environmental Management Plan 49% **-4**9 05-Jul-24 04-Jan-27 930 07-Aug-24 A 22-Feb-27 WKCDA-K-SUB-01040 Implementation of the EM&A programme 914 05-Jul-24 04-Jan-27 930 07-Aug-24 A 22-Feb-27 49% **-4**9 Cost Centre P, Q, R & S- Optional Works Item No.1 - Maintenance and Demolition of NSO 05-Jul-24 A WKCDA-P-#OW-01000 Take-over and maintenance of NSO 855 01-Aug-24 03-Dec-26 931 21-Jan-27 52% **-4**9 Item No.2 - Adoption of G/F as CA's and RSS's Site Office & Maintenance of 1/F and Demolition of NSO Site Maintenance and Demolition of NSC Take-over adoption of G/F NSO as CA and RSS's site office WKCDA-Q-#OW-01000 855 01-Aug-24 03-Dec-26 931 05-Jul-24 A 21-Jan-27 52% **-4**9 and maintenance of 1/F NSO CAI 008 Carry out 1 yr of the Provisional Quantities for **-4**9 WKCDA-Q-#OW-01050 292 15-Aug-25 03-Jun-26 414 05-Jul-25 A 22-Aug-26 25% Maintenance of 1/F NSO (Cost Centre Q) Item No.4 - Road Reinstatement Works at Austin Road West Prepare and submit TTMS scheme for road reinstatement WKCDA-S-#OW-01000 29-Nov-25 12-Dec-25 14 29-Nov-25 12-Dec-25 0% 180 14 works at Austin Road West WKCDA-S-#OW-01020 Review and approve submission of TTMS scheme for road 13-Dec-25 09-Jan-26 28 13-Dec-25 09-Jan-26 0% 180 reinstatement works at Austin Road West WKCDA-S-#OW-01040 Coordination and approval of TTMS scheme with TMLG 10-Mar-26 10-Mar-26 10-Jan-26 10-Jan-26 0% 180 WKCDA-S-#OW-01040a - 1st Relevant Authority's review 15 10-Jan-26 24-Jan-26 15 10-Jan-26 24-Jan-26 0% WKCDA-S-#OW-01040b -Address comment from Relevant Authority 15 08-Feb-26 15 08-Feb-26 0% 180 25-Jan-26 25-Jan-26 180 WKCDA-S-#OW-01040c - 2nd Relevant Authority's review 09-Feb-26 23-Feb-26 09-Feb-26 23-Feb-26 WKCDA-S-#OW-01040d -Address comment from Relevant Authority's and obtain 15 24-Feb-26 10-Mar-26 15 24-Feb-26 10-Mar-26 0% 180 Date Revision Checked Approved 2ABC.R0.20251128 Milestone Planned Bar CC/2023/2B/095 28-Nov-25 CMWP R0 ÞР 02-Dec-25 11:33 Critical MS Actual Work Complet... Page 7 of 7 Three Month Rolling Programme as of 28 Nov 2025 Critical Bar 💠 ♦ R0 MS

C. Action and Limit Levels for Construction Phase

Air Quality

The Action and Limit Levels for 1-hour and 24-hour TSP for the monitoring stations are presented in following tables:

Table C-1: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (µg/m3)	Limit Level (µg/m3)
AM3A	280.4	500
AM4A	278.5	500
AM5A	275.4	500

Table C-2: Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (µg/m3)	Limit Level (µg/m3)
AM3A	152.4	260
AM4A	152.6	260
AM5A	141.1	260

<u>Noise</u>

The Action and Limit Levels for Noise for the monitoring stations are presented in following table:

Table C-3: Action and Limit Levels for Construction Noise

Time Period & Monitoring Locations	Action Level	Limit Level
NM2A, NM3A, NM4A and NM5A		
0700-1900 hours on normal weekdays	When one valid documented complaint is	75
	received from any one of the sensitive receiver	

Note:

^{*}Reduce to 70dB(A) for school and 65 dB(A) during school examination period.

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact

Air Quality

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-1: Typical Event and Action Plan for Air Quality

Event	Action				
Event	ET	IEC	WKCDA	Contractor	
Action Level					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and WKCDA; 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	1. Identify source; 2. Inform IEC and WKCDA; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and WKCDA; 8. If exceedance stops, cease additional	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	1. Submit proposals for remedial to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.	

Event

	ET	IEC	WKCDA	Contractor
Limit Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform WKCDA, Contractor and 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 WKCDA informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the WKCDA on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify IEC, WKCDA, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and WKCDA to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the WKCDA until the exceedance is abated.

Construction Noise

In case the Action and Limit Levels are not complied during construction stage, the following Event and Action Plan should be followed:

Table D-2: Event and Action Plan for Construction Noise

Front		Actio	on	
Event	ET	IEC	WKCDA	Contractor
Action Level	1. Notify WKCDA, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, WKCDA and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the WKCDA accordingly; 3. Advise the WKCDA on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures.	1. Submit noise mitigation proposals to IEC and WKCDA; 2. Implement noise mitigation proposals.
Limit	1. Inform IEC, WKCDA, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and WKCDA on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and WKCDA informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst WKCDA, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the WKCDA accordingly.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and WKCDA within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the WKCDA until the exceedance is abated.

Landscape and Visual Impact

In case of non-compliance of landscape and visual impacts, procedures in accordance with the Event and Action Plan should be followed:

Table D-3: Event and Action Plan for Landscape and Visual Impact

Franci		Action		
Event	Action	Event	Action	Event
Design Check	1. Design check to make sure the design complies with all the proposed mitigation measures in the EIA report; 2. Prepare and submit report.	Check report submitted by ET; Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	-
Non-conformity on one occasion	 Identify source of non-conformity; Report to IEC and WKCDA; Discuss remedial actions with IEC, WKCDA and Contractor; Monitor remedial actions until rectification has been completed. 	1. Check and verify source of non-conformity; 2. Discuss remedial actions with ET and Contractor; 3. Advise WKCDA on effectiveness of proposed remedial actions; 4. Check implementation of remedial actions.	Notify Contractor; Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.
Repeated non-conformity	1. Identify source of non-conformity; 2. Report to IEC and WKCDA; 3. Increase monitoring frequency; 4. Discuss remedial actions with IEC, WKCDA and Contractor; 5. Monitor remedial actions until rectification has been completed; 6. If non-conformity rectified, reduce monitoring frequency back to normal.	1. Check and verify source of non-conformity; 2. Check Contractor's working method; 3. Discuss remedial actions with ET and Contractor; 4. Advise WKCDA on effectiveness of proposed remedial actions; 5. Supervise implementation of remedial actions.	Notify Contractor; Ensure remedial actions are properly implemented.	1. Amend working method as necessary; 2. Rectify damage and undertake necessary replacement and remedial actions.

E. Monitoring Schedule

Notes:

AM3A - Northeast corner of West Kowloon Station's station box (G/F)

AM4A - Southeast corner of West Kowloon Station's station box (G/F)

AM5A - North of West Kowloon Station's station box (G/F)
NM2A - The Arch - Sun Tower (G/F)

NM4A - Next to Tsim Sha Tsui Fire Station (G/F)

NM5A - Pedestrian road (G/F) outside West Kowloon Station

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	• Chung Yeung Festival	30	31	1
2	3	4	5 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	6	7	8
9	10	11 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	Landscape & Visual inspection Zones 2A, 2B & 2C	13	14	15
16	17 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	18	19	20	21	22 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
23	24	25	26 Landscape & Visual inspection Zones 2A, 2B & 2C	27	28 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	29
30	1	2	3	4	5	6

Notes:

AM3A - Northeast corner of West Kowloon Station's station box (G/F)

AM4A - Southeast corner of West Kowloon Station's station box (G/F)

AM5A - North of West Kowloon Station's station box (G/E) NM2A - The Arch – Sun Tower (G/E) December 2025 (Hong Kong)

NM4A - Next to Tsim Sha Tsui Fire Station (G/F)

NM5A - Pedestrian road (G/F) outside West Kowloon Station

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	5	6
7	8	9	10 Landscape & Visual inspection Zones 2A, 2B & 2C AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	11	12	13
14	15	AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	17	18	19	20
21	22 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	23	24 Landscape & Visual inspection Zones 2A, 2B & 2C	25 • Christmas Day	26 • First Weekday After Christmas Day	27 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
28	29	30	31	New Year's Day	2	3

F. Calibration Certifications

香港新界粉嶺坪黃路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

TEL: 852-3582-9589 FAX: 852-2674-1177 EMAIL: cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-222F

Date of Report : 1-Aug-25 Page Number : 1 of 3

Customer * : Apex Testing & Certification Ltd.

Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK

Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A

Manufacturer : Sibata Scientific Technology Ltd

Model No. : LD-3B Serial No. : 276004 Scale Division : 0.001 mg/m3 Range : 0.001 to 1 mg/m3

Condition of Item : Normal

Date Item Received : 27-Jul-25 Date Calibrated : 27-Jul-25

Calibration Location : AQuality Calibration Lab.

Date of Next Calibration : 26-Jul-26 Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m3)	Average IUC Reading (mg/m³)	Correction (mg/m³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.117	0.007	6.0%	2.0
0.394	0.371	0.023	5.9%	2.0
0.884	0.834	0.050	5.7%	2.0

Remarks

- 1. * Denotes information supplied by customer.
- 3. The results relate only to the items calibrated.
- 3. The results apply to the items as received.
- 4. Correction = Average of (Ref reading IUC reading)
- 5. The technical requirement of laser dust meter. +/- 30% error for the particles concentration.

Approved by:

LEE Mei Yee, Julia Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

香港新界粉嶺坪崙路啟芳園11A&11B號

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

TEL: 852-3582-9589 FAX: 852-2674-1177 EMAIL: cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-222F

Date of Report : 1-Aug-25 Page Number : 3 of 3

Customer * : Apex Testing & Certification Ltd.

Customers Ref. * : A005

Details of Calibration

- 1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
- 3. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.35 hour before commencement of calibration.
- 3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
- 4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
- 5. The identification, calibration certificate numbers for the reference equipment used were as follows:

Equipment Number	Certificate Number	Description
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輋路啟芳園11A&11B號

TEL: 852-3582-9589 FAX: 852-2674-1177 FMAIL: cal anti@gma

EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, N.T., HONG KONG

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd.	Test Report No.	250727MCA-222F
Illnit D6A 10/F TML Tower 3 Hoi Shing	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description : Laser Dust Monitor

Manufacturer : Sibata Scientific Technology Ltd

Model No. : <u>LD-3B</u> Serial No. : <u>276004</u>

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. $\overline{3476/4088}$

Last Calibration : 17-AUG-24 / 7-NOV-23

Date	Time	Mean Temp	Mean Pressure	Concentration Standard Equipment	Concentration Calibrated Equipment
		(°C)	(hPa)	(mg/m3)	(mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0626
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0573
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0594

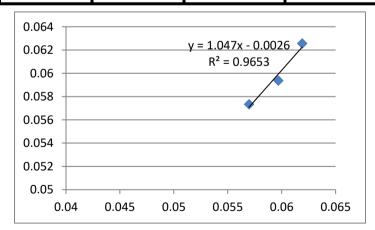
By Linear Regression of Y or X

Slope : 1.0470

Correlation Coefficient: 0.9653

K-Factor : 0.9961

Validity of Calibration : 26-Jul-26



Recorded by : <u>Jessica Liu</u> Signature: <u>Date: 27-Jul-25</u>

Checked by : S Tang Signature: Date: 27-Jul-25

香港新界粉嶺坪黃路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-221F

Date of Report : 1-Aug-25 Page Number : 1 of 2

Customer * : Apex Testing & Certification Ltd.

Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK

Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A

Manufacturer : Sibata Scientific Technology Ltd

Model No. : LD-3B Serial No. : 476672 Scale Division : 0.001 mg/m3

Range : 0.001 to 1 mg/m3

Condition of Item : Normal

Date Item Received : 27-Jul-25 Date Calibrated : 27-Jul-25

Calibration Location : AQuality Calibration Lab.

Date of Next Calibration : 26-Jul-26 Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m3)	Average IUC Reading (mg/m³)	Correction (mg/m ³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.130	0.006	4.6%	2.0
0.394	0.423	0.028	7.2%	2.0
0.884	0.933	0.049	5.5%	2.0

Remarks

- 1. * Denotes information supplied by customer.
- 2. The results relate only to the items calibrated.
- 3. The results apply to the items as received.
- 4. Correction = Average of (Ref reading IUC reading)
- 5. The technical requirement of laser dust meter. +/- 20% error for the particles concentration.

Approved by:

LEE Mei Yee, Julia Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

香港新界粉嶺坪崙路啟芳園11A&11B號

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-221F

Date of Report : 1-Aug-25 Page Number : 2 of 2

Customer * : Apex Testing & Certification Ltd.

Customers Ref. * : A005

Details of Calibration

- 1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
- 2. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.25 hour before commencement of calibration.
- 3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
- 4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
- 5. The identification, calibration certificate numbers for the reference equipment used were as follows:

Equipment Number	Certificate Number	Description
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輋路啟芳園11A&11B號

FAX : 852-2674-1177 EMAIL : cal.aqtl@gm

EMAIL : cal.aqtl@gmail.com WEBSITE: www.aqtlgroup.com

TEL: 852-3582-9589

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, N.T., HONG KONG

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd.	Test Report No.	250727MCA-221F
Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description : Laser Dust Monitor

Manufacturer : Sibata Scientific Technology Ltd

Model No. : <u>LD-3B</u> Serial No. : <u>476672</u>

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. 3476 / 4088

Last Calibration : 17-AUG-24 / 7-NOV-23

			Maan	Concentration	Concentration
Date	Time Mean Temp Mean Pressure	Standard	Calibrated		
Date	Time	Pressu	Pressure	Equipment	Equipment
		(°C)	(hPa)	(mg/m3)	(mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0622
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0564
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0588

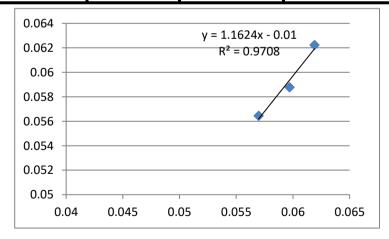
By Linear Regression of Y or X

Slope : 1.1624

Correlation Coefficient: 0.9708

K-Factor : 1.0066

Validity of Calibration: 26-Jul-26



Recorded by : Jessica Liu Signature: Date: 27-Jul-25

Checked by : S Tang Signature: Date: 27-Jul-25

香港新界粉嶺坪黃路啟芳園11A&11B號

No. 11A&B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F

Date of Report : 1-Aug-25 Page Number : 1 of 2

Customer * : Apex Testing & Certification Ltd.

Customer Address* : Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK

Customers Ref. * : A005

Item Under Calibration (IUC)*

Equipment No. : N/A

Manufacturer : Sibata Scientific Technology Ltd

Model No. : LD-3B Serial No. : 336338 Scale Division : 0.001 mg/m3

Range : 0.001 to 1 mg/m3

Condition of Item : Normal

Date Item Received : 27-Jul-25 Date Calibrated : 27-Jul-25

Calibration Location : AQuality Calibration Lab.

Date of Next Calibration : 26-Jul-26 Calibrated By : Jessica Liu

Test Environment

Ambient Temperature : 28.2 °C to 30.4 °C Relative Humidity : 76 % to 80 %

Calibration Results

Reference True Reading (mg/m3)	Average IUC Reading (mg/m³)	Correction (mg/m³)	Error of IUC Reading (%)	Coverage Factor K
0.125	0.132	0.007	5.6%	2.0
0.394	0.418	0.024	6.1%	2.0
0.884	0.950	0.066	7.5%	2.0

Remarks

- 1. * Denotes information supplied by customer.
- 2. The results relate only to the items calibrated.
- 3. The results apply to the items as received.
- 4. Correction = Average of (Ref reading IUC reading)
- 5. The technical requirement of laser dust meter. +/- 20% error for the particles concentration.

Approved by:

LEE Mei Yee, Julia Managing Director

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.

香港新界粉嶺坪崙路啟芳園11A&11B號

No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, NEW TERRITORIES, HONG KONG

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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F

Date of Report : 1-Aug-25 Page Number : 2 of 2

Customer * : Apex Testing & Certification Ltd.

Customers Ref. * : A005

Details of Calibration

- 1. The calibration was performed in accordance with AQuality Testconsult Procedure Number ENV-L-003 (in-house method), by comparison with the laboratory's reference equipment which have traceable international standards of measurement.
- 2. The item under calibration (IUC) was allowed to stabilize in the laboratory for 0.25 hour before commencement of calibration.
- 3. A set of readings were made at each calibration concentration. The values quoted in the results are the average of each set of readings.
- 4. The values given in this calibration certificate only relate to the values measured at the time of calibration. Any uncertainties quoted do not include allowance for the capability of any other laboratory to repeat the measurement. The uncertainty quoted relate only to item at time of calibration. AQuality Testconsult Limited is not liable for any loss or damage resulting from the use of this equipment.
- 5. The identification, calibration certificate numbers for the reference equipment used were as follows:

Equipment Number	Certificate Number	Description
CH-LDM-1	CC1592412	粉尘测试仪

6. Copies of the Calibration certificates of the reference equipment used in this calibration may be obtained from AQuality Testconsult Limited, if necessary.

- End of Report -



東恒測試顧問有限公司

AQUALITY TESTCONSULT LIMITED

香港新界粉嶺坪輋路啟芳園11A&11B號

TEL: 852-3582-9589 FAX: 852-2674-1177

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No. 11A&11B, KAI FONG GARDEN, PING CHE ROAD, FANLING, N.T., HONG KONG

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd.	Test Report No.	250727MCA-223F
Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Date of Issue	1-Aug-25
	Date of Testing	27-Jul-25
	Page	1 of 1

Item for Calibration

Description : Laser Dust Monitor

Manufacturer : Sibata Scientific Technology Ltd

Model No. : <u>LD-3B</u> Serial No. : <u>336338</u>

Standard Equipment

Description : High Volume Sampler / Calibration Orifice

Manufacturer : Tisch Environmental, Inc.

Model No. : TE-5170 / TE-5025A

Serial No. 3476 / 4088

Last Calibration : 17-AUG-24 / 7-NOV-23

Date	Time	Mean Temp	Mean Pressure	Concentration Standard Equipment	Concentration Calibrated Equipment
		(°C)	(hPa)	(mg/m3)	(mg/m3)
27-Jul-25	19:00	29.3	1000.1	0.0619	0.0617
27-Jul-25	20:05	29.3	1000.1	0.0570	0.0558
27-Jul-25	21:10	29.3	1000.1	0.0597	0.0601

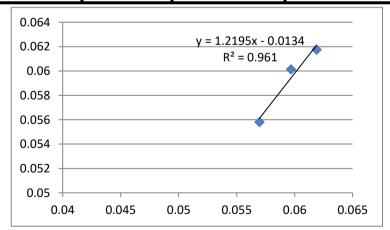
By Linear Regression of Y or X

Slope : 1.2195

Correlation Coefficient: 0.9610

K-Factor : 1.0054

Validity of Calibration : 26-Jul-26



Recorded by : Jessica Liu Signature: Date: 27-Jul-25

Checked by : S Tang Signature: Date: 27-Jul-25

FAQ / Information

Mutual Recognition Arrangements (MRA) / Multilateral Recognition Arrangements (MLA)

Mutual Recognition Arrangement (MRA) Partners for HOKLAS ^

Every effort is made to promote acceptance of test data from accredited laboratories, both internationally and locally. HKAS has concluded mutual recognition arrangements with accreditation bodies listed below by being one of the signatories of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA) for testing, calibration, medical testing, Proficiency Testing Providers (PTP) and Reference Material Producers (RMP). Click here to view the up-to-date signatories of ILAC and here to access the up-to-date signatories of APAC.

Visitors checking the names, logos and accreditation symbols shown on an endorsed certificate or report should note that some of our MRA partners may have their names, logos or accreditation symbols changed recently and test reports or certificates endorsed by displaying their old accreditation symbols may still be valid during the change-over period. For details, please visit their websites or contact them directly.

» Mutual Recognition Arrangement (MRA) Partners for HOKLAS

HKAS MRA partners will recognise HOKLAS endorsed test certificates as having the same technical validity as certificates endorsed by their respective schemes.

Mutual Recognition Arrangement (MRA) Partners for HKIAS >



Hong Kong Laboratory Accreditation Scheme (HOKLAS) - Mutual Recognition Arrangement (MRA) Partners

Economy	Logo	Name of Partner	URL	Test Area
United Kingdom of Great Britain and Northern Ireland	UKAS United Enginer Acreed distant Acreed	United Kingdom Accreditation Service (UKAS)	http://www.ukas.com	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer
United States of America		AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC)	http://www.aihaaccreditedla bs.org/	Non-medical Testing
United States of America		American Association for Laboratory Accreditation (A2LA)	http://www.a2la.org	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer
United States of America		ANSI National Accreditation Board (ANAB)	http://www.anab.org/	Calibration, Medical Testing, Non-medical Testing, Proficiency Testing Provider, Reference Material Producer
United States of America	IAS INTERNATIONAL ACCREDITATION SERVICE	International Accreditation Service Inc. (IAS)	http://www.iasonline.org/	Calibration, Medical Testing, Non-medical Testing
United States of America		National Accreditation Center LLC (NAC)		Calibration, Non-medical Testing
United States of America	MATO	National Voluntary Laboratory Accreditation Program (NVLAP)	http://www.nist.gov/nvlap	Calibration, Non-medical Testing

14 April 2025 17 / 18



CERTIFICATE OF ACCREDITATION

This is to attest that

AQUALITY TESTCONSULT LIMITED

11A&B, KAI FONG GARDEN, PING CHE ROAD FANLING, HONG KONG

Calibration Laboratory CL-207

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 19, 2024



President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
			dimensional requirements as specified in BS 1881- Part 105: 1984)
Test Sieve ³	4 mm to 50 mm	50 μm	Reference Caliper by direct measurement as per BS 410 : 1986
Elongation Gauge ³	Gap between Pins of Gauge 10 mm to 100 mm	0.29 mm	Reference Caliper by direct measurement (Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975; BS 812- Part 105.2: 1990)
Flakiness Gauge ³	Length of Slot of Gauge 4.9 mm to 33.9 mm	0.06 mm	Reference Caliper by direct measurement ((Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975; BS 812- Part105.1:1985; BS 812- Part105.1:1989)
Riffle Box ³	Width 6 mm to 100 mm	0.06 mm	Reference Caliper by direct measurement (Verification in accordance with in-house method for the dimensional requirements as specified in BS 812- Part 1:1975)
	Mechani	cal	
Force Measuring Machine ³ (Compression Mode)	1 kN to 3000 kN	0.4 %	Reference Load cell by direct measurement (Based on BS 1610: Part 1:1985; BS 1610: Part 1:1992; BS EN ISO 12390- 4:2000 Annex B; BS EN 12390-4: 2019; BS EN ISO 7500-1:2004, BS EN ISO 7500-1: 2015, BS EN ISO 7500-1: 2018)
Laser Dust Meter ³)	Dust particles 0.1 mg/m³ to 3 mg/m³ 3 mg/m³ to 8 mg/m³	0.006 mg/m ³ 0.39 mg/m ³	By comparison method by using reference laser dust meter (Based on ISO 12103-1:2016)
Rebound Hammer ³	80 unit (hardness)	1.6 rebound count	Reference Rebound count by comparison method (Based on BS1881: Part 202:1986; BS EN 12504-2:2001; BS EN







Site Information

Zones 2A at West
Location: AM3A Site ID: Kowloon Cultural Date: 31-Oct-25
Sampler: TE-5170 Serial No: 4340 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg):	29.99	Corrected Pressure (mm Hg):	762
Temperature (deg F):	80	Temperature (deg K):	300
Average Press. (in Hg):	29.99	Corrected Average (mm Hg):	762
Average Temp. (deg F):	80	Average Temp. (deg K):	300

Calibration Orifice

Make: Tisch	Qstd Slope: 2.11142
Model: TE-5025A	Qstd Intercept: -0.03845
Serial#: 4088	Date Certified: 9-Sep-25

Calibration Information

Plate or	H2O	Qstd	I	IC	
Test #	(in)	(m3/min)	(chart)	(corrected)	Linear Regression
1	12.70	1.703	53.0	52.92	Slope: 32.1388
2	10.60	1.558	48.0	47.93	Intercept: -1.7385
3	7.60	1.322	41.0	40.94	Corr. Coeff: 0.9980
4	4.70	1.043	33.0	32.95	
5	2.70	0.795	23.0	22.96	# of Observations: 5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.284365835

Average Flow Calculation in CFM

45.35095762

Sample Time (Hrs): 1.0

Total Flow in m3/min

77.06195007

Total Flow in CFM

2721.057457

NOTE: Ensure calibration orifice has been certified within 12 months of use



Site Information

Zones 2A at West

Location: AM5A
Site ID: Kowloon Cultural
Date: 31-Oct-25

Sampler: TE-5170
Serial No: 4344
Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.99	Corrected Pressure (mm Hg): 762
Temperature (deg F): 80	Temperature (deg K): 300
Average Press. (in Hg): 29.99	Corrected Average (mm Hg): 762
Average Temp. (deg F): 80	Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch	Qstd Slope: 2.11142
Model: TE-5025A	Qstd Intercept: -0.03845
Serial#: 4088	Date Certified: 9-Sep-25

Calibration Information

Plate or	H2O	Qstd	I	IC	
Test #	(in)	(m3/min)	(chart)	(corrected)	Linear Regression
1	12.70	1.703	53.0	52.92	Slope: 31.5458
2	10.50	1.551	48.0	47.93	Intercept: -0.5913
3	7.40	1.305	41.0	40.94	Corr. Coeff: 0.9971
4	4.50	1.021	33.0	32.95	
5	2.60	0.781	23.0	22.96	# of Observations: 5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.272141272

Average Flow Calculation in CFM

44.91930832

Sample Time (Hrs): 1.0

Total Flow in m3/min

76.32847632

Total Flow in CFM 2695.158499

NOTE: Ensure calibration orifice has been certified within 12 months of use

Tisch Environmental 145 South Miami Ave, Cleves OH 45002 \bullet 877.263.7610 \bullet sales@tisch-env.com \bullet www.tisch-env.com



Site Information

Zones 2A at West

Location: AM4A Site ID: Kowloon Cultural Date: 31-Oct-25

Sampler: TE-5170 Serial No: 3998 Tech: CS Tang

Site Conditions

Barometric Pressure (in Hg): 29.99	Corrected Pressure (mm Hg): 762
Temperature (deg F): 80	Temperature (deg K): 300
Average Press. (in Hg): 29.99	Corrected Average (mm Hg): 762
Average Temp. (deg F): 80	Average Temp. (deg K): 300

Calibration Orifice

Make: Tisch	Qstd Slope: 2.11142
Model: TE-5025A	Qstd Intercept: -0.03845
Serial#: 4088	Date Certified: 9-Sep-25

Calibration Information

Plate or	H2O	Qstd	I	IC	
Test #	(in)	(m3/min)	(chart)	(corrected)	Linear Regression
1	12.60	1.697	53.0	52.92	Slope: 31.7578
2	10.40	1.543	48.0	47.93	Intercept: -0.9363
3	7.70	1.330	41.0	40.94	Corr. Coeff: 0.9973
4	4.50	1.021	33.0	32.95	
5	2.60	0.781	23.0	22.96	# of Observations: 5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

Average I (chart): 40

Average Flow Calculation m3/min

1.274512154

Average Flow Calculation in CFM

45.00302417

Sample Time (Hrs): 1.0

Total Flow in m3/min

76.47072927

Total Flow in CFM 2700.18145

NOTE: Ensure calibration orifice has been certified within 12 months of use

Tisch Environmental 145 South Miami Ave, Cleves OH 45002 \bullet 877.263.7610 \bullet sales@tisch-env.com \bullet www.tisch-env.com





RECALIBRATION DUE DATE:

September 9, 2026

Certificate of Calibration

Calibration Certification Information

Cal. Date: September 9, 2025

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 754.9

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 4088

	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ
Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)
1	1	2	1	1.4460	3.2	2.00
2	3	4	1	1.0320	6.4	4.00
3	5	6	1	0.9210	8.0	5.00
4	7	8	1	0.8840	8.8	5.50
5	9	10	1	0.7240	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)			
1.0025	0.6933	1.4190	0.9958	0.6886	0.8826			
0.9983	0.9673	2.0068	0.9915	0.9608	1.2481			
0.9961	1.0816	2.2436	0.9894	1.0743	1.3955			
0.9951	1.1256	2.3532	0.9883	1.1180	1.4636			
0.9897	1.3670	2.8380	0.9830	1.3578	1.7651			
	m=	2.11142		m=	1.32213			
QSTD	b=	-0.03845	QA	b=	-0.02391			
	r=	0.99983		r=	0.99983			

	Calculatio	ns	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/∆Time	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	No.			
Pstd:	760 mm Hg				
	Key				
ΔH: calibrate	or manometer reading (in H2O)				
ΔP: rootsmeter manometer reading (mm Hg)					
Ta: actual absolute temperature (°K)					
Pa: actual barometric pressure (mm Hg)					
b: intercept					
m: slope					

RECALIBRATION

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

Fisch Environmental, Inc.

L45 South Miami Avenue

/illage of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009





华南国家计量测试中心广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY



校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No.

SXE202510293

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Page of

声校准器 计量器具名称 Description AWA6221A 型号/规格 Model/Type HANGZHOU AIHUA INSTRUMENTS CO., LTD. 制造厂 Manufacturer 出厂编号 AWA6221A0439E 设备管理编号 FYH-QM4-NG-119 Serial No. Equipment No. 接收日期 2025 06 月 06 日 Receipt on

结论 Conclusion 符合JJG 176-2022 (1级) 技术要求

sion Comply with the requirements for JJG 176-2022(for Class 1)

 校准日期
 2025 年 06 月 11 日

 Calibration on
 Y M D

 发布日期
 2025 年 06 月 12 日

 Issue on
 Y M D

批准 Authorized by 核验 Reviewed by 校准 エミン





扫一扫查真伪

本中心地址。中国广州市广园中路松柏东街30号

Calibrated by

邮政编码: 510405

电话: (8620)86594172 传真: (8620)86590743 投诉电话: (8620)36611242 E-mail: scm@scm.com.cn

何卓斌

Add: No.30, Songbai East Street, Guangyuan Middle Road, Guangzhou, Guangdong, China

Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)36611242

证书真伪查询: www.scm.com.cn; cert.scm.com.cn Certificate AuthenticityIdentify: www.scm.com.cn; cert.scm.com.on

计量标准考核证书号: [1992]国量标粤证字第085号

Certificate No. for Examination of measurement standard



华南国家计量测试中心广东省计量科学研究院





校准结果 RESULTS OF CALIBRATION

证书编号 SXE202510293 Certificate No. 原始记录号 SXE202510293 Record No.

第 3 页, 共 4 页 Page of

1 外观: 符合要求

Apparent inspection: Pass

2 声压级: 见表1

Sound Pressure Level: Shown in table 1

表1 Table 1

标称频率/Hz	规定声压级/dB	测得的声压级/dB	测得的声压级与 规定声压级之差	接受限/dB	结论
Nominal Frequency	Specified sound	Measured sound pressure level	的绝对值/dB Absolute value of Error	Acceptance limit	Conclusion
1000	94	93.96	0.04	0.25	符合要求(Pass)
1000	114	114.01	0.01	0.25	符合要求(Pass)

专用1

3 频率: 见表2

Frequency: Shown in table 2

表2 Toble 2

规定频率/Hz	标称声压级/dB	测得的频率/Hz	测得的频率与规 定频率相对误差	接受限/%	结论
Specified	Nominal sound	Measured	的绝对值/% Absolute value of	Acceptance limit	Conclusion
frequency 1000	pressure level 94	frequency 998.95	Error 0.1051	0.7	符合要求(Pass)
1000	114	998.99	0.1014	0.7	符合要求(Pass)

4 总失真+噪声: 见表3

Total distortion + noise: Shown in table 3

表3 Table 3

规定频率/Hz	标称声压级/dB	总失真+噪声/%	接受限/%	结论
Specified frequency	Nominal sound pressure level	Total Distortion+ noise	Acceptance limit	Conclusion
1000	94	0.1/	2.5	符合要求(Pass)
1000	114	0.3	2.5	符合要求(Pass)



华南国家计量测试中心广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY



说明

证书编号

SXE202510293

Certificate No.

DIRECTIONS

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Page o

1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构,本中心的质量管理体系符合180/1E0 17025:2017标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Location and environmental conditions of the calibration:

地点 声学/振动实验室 Acoustics/Vibration

温度

(25±1) ℃ 相对湿度

(40~50) %

Location Lab.

Temperature

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJG 176-2022 声校准器检定规程 V.R. of Sou

V.R. of Sound Calibrators

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

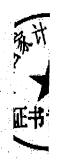
设备名称/型号规格/测量范围	编号	证书号/有效期/溯源单位	计量特性
Name of Equipment	Serial No.	Certificate No./Due Date	Metrological
/Model/Type/Range		/Traceability to	Characteristic
动态信号分析仪	2392397	SXE202500778	电压:以=0.2%,频
Dynamical Signal Analyzer		/2026-04-16	率: 4=0.002%(k=2)
/3560C(3110模块)/0.1		/本中心	Voltage: Ue=0.2%, Frequence
Hz~200 kHz			$U_{el}=0.002\%(k=2)$
工作标准传声器	2383233	SXE202500423	20 Hz~4 kHz, U=0. 20dB
Working standard microphone		/2026-03-03	5 kHz \sim 20 kHz, U =0.50dB
/4190/20 Hz~20 kHz		/本中心	(k =2)
声校准器	2730392	SXE202500307	1.0
Sound Level Calibrator		/2026-02-09	Class 1
/4231/94 dB, 114 dB		/本中心	



Note 2. 未经本机构书面批准,不得部分复制此证书。 This certificate shall not be reproduced except in full, without the written approval of our laboratory.

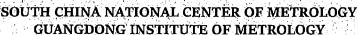
3. "客户名称"、"联络信息"由委托方提供、"制造厂"、"型号规格"、"出厂编号"以及"设备编号"为仪器上标注、委托方对上面内容如有异议、须在收到证书后二十个工作日内提出。

The information Name of the Customer and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.





华南国家计量测试中心广东省计量科学研究院







校准结果 RESULTS OF CALIBRATION

证书编号 SXE202510293 Certificate No. 原始记录号 SXE202510293 Record No.

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说明:

Note:

1 测量结果扩展不确定度;

Expanded uncertainty of measurement results:

声压级: U=0.15 dB, 频率: $U_{rel}=0.1\%$, 总失真+噪声: U=0.4%, 包含因子: k=2

Sound Pressure Level, Frequency, Total distortion + noise, Coverage factor

2 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定,由合成标准不确定 度乘以包含概率约为95%时对应的包含因子k得到。

The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

- 3 校准结果符合性判定依据JJF 1094-2002《测量仪器特性评定》之5.3.1和JJG 176-2022《声校准器检定规程》 Decision rules of conformity are JJF 1094-2002 Evaluation of the Characteristics of Measuring Instruments (5.3.1) and JJG 176-2022 V.R. of Sound Calibrators.
- 4 结论:被校准仪器校准结果符合 JJG 176-2022 (1级)全部后续项目技术要求。

 Conclusion:The data of instrument calibrated comply with the technical characteristics of all subsequent items in

 JJG 176-2022 (for Class 1).
- 5 该仪器的溯源日期为本证书的"校准日期",由于复校时间间隔的长短是由仪器的使用情况、使用者、 仪器本身质量等诸因素所决定的。因此,送校单位可根据实际使用情况自主决定复校时间间隔。 更换重要部件、维修或对仪器性能有怀疑时,应及时校准。

The traceability date of this instrument is the "Calibration Date" on this certificate, Since the calibration interval is determined by the use of the instrument, operation of the user, the quality of the instrument itself and other factors, the re-calibration date can be decided by the user according to the actual situation. In case of replacement of important parts, maintenance or doubt on the performance of the instrument; it shall be calibrated in time.

6 校准活动中对测量结果有影响的条件:

Conditions under which the calibrations were made that have an influence on the measurement results

温度 (Temperature): (25±1) ℃

湿度(Humidity): (40~50) %RH

静压 (Static pressure): (100.0~101.0) kPa

が中心









华测计量检测有限公

MEASUREMENT

准

Calibration Certificate

证书编号 Certificate No.

C2501141610001

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委托单位

上峰检测认证有限公司

Customer

委托单位地址

香港荃湾海盛路3号TML广场10楼D6A室

Address

器具名称

Name of instrument

声级计

型号规格

Model

AWA5661

制 浩 商

Manufacturer

杭州爱华仪器有限公司

出厂编号

Serial No.

341483

管 理 编 号

Management No.

接收日期

2025/01/15

校准日期

2025/01/20

Received date

Calibration date

2026/01/19

发布日期

Issue date

2025/01/20

建议下次校准日期

Next calibration date





批 准

Approved by

审

Inspected by

校 准

Calibrated by

刘然

张栩

总部地址:广东省深圳市宝安区西乡街道铁岗社区桃花源科技创新园B、C栋

Headquarter address: Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China 实验室地址:广东省深圳市宝安区西乡街道铁岗社区桃花源科技创新园B、C栋

Laboratory address: Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China 邮编 Post code: 518101 电话 Tel.: 86-755-33682045 电子邮箱 E-mail: calibration@cti-cert.com



说明

Directions

证书编号 Certificate No. C2501141610001

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1. 本证书校准结果均可溯源至国际单位制(SI)单位。

The results are traceable to International System of Units(SI).

证书未盖本公司证书/报告章及骑缝章无效。未经本公司书面批准,不得部分复制此证书。

Any certificate is deemed to be invalid without both the certificate/report seal and its across-page seal. This certificate shall not be copied partly without the written approval.

本证书校准结果只与受校准仪器有关。如证书中的英文内容与中文内容有差异,以中文为准。

The results relate only to the items calibrated. In case of any discrepancy between the English version and Chinese version of the certificate(if generated), the Chinese version shall prevail.

本次校准的技术依据:

Reference documents for the calibration JJG 188-2017 声级计检定规程

5. 校准地点、环境条件:

Place and environment condition during calibration

地点: 本实验室力学室(6)

Place

温度: 21.2℃

Temperature

相对湿度: 41%

R.H.



本次校准所使用的主要计量标准器具:

Main mearsurement sta	ndards used in	the calibration			
名称/型号规格	编号	测量范围	准确度等级/最大允许误差/不 确定度	证书号/溯源机构	有效期
Name/Model	Serial No.	Measurement range	Accuracy class/Maximum permissible error/Uncertainty	Certificate No./Traceability to	Due date
消声箱 AWA188	080312	10Hz~20kHz (20~130) dB	U=0.8dB,k=2	JL2411712691 深圳市计量质量检测研究 院	2025/09/09
测试声源(扬声 器) AWA5511A	090677	20Hz~20kHz	最大声压级: U =0.6dB, k =2 声源稳定性: U =0.6dB, k =2 总失真: U _{rel} =2.7%, k =2 频率响应: U =0.6dB, k =2	SXE202401131 广东省计量科学研究院	2025/07/16
信号发生器 AWA1650	089943	0.5Hz~20kHz	电压: $U_{\rm rel}$ =0.2%, k =2 频率: $U_{\rm rel}$ =0.1%, k =2	SXE202401156 广东省计量科学研究院	2025/07/18
测量放大器 AWA5810D	089909	4Hz~20kHz	灵敏度: <i>U</i> =0.04dB, <i>k</i> =2 频率计权: <i>U</i> =0.2dB, <i>k</i> =2 线性计权: 4Hz~10Hz: <i>U</i> =0.11dB, <i>k</i> =2 10Hz~20kHz: <i>U</i> =0.04dB, <i>k</i> =2	SXE202483068 广东省计量科学研究院	2025/07/22
声校准器 4231	3014336	94dB~114dB	1级	SXE202411381 广东省计量科学研究院	2025/07/16



说明

Directions

证书编号 Certificate No.

C2501141610001

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名称/型号规格	编号	测量范围	准确度等级/最大允许误差/不 确定度	证书号/溯源机构	有效期
Name/Model	Serial No.	Measurement range	Accuracy class/Maximum permissible error/Uncertainty	Certificate No./Traceability to	Due date
有源耦合腔 AWA6153S+	2006409	10Hz~400kHz	声压级:U=0.2dB,k=2 失真度:U=0.2%,k=2	SXE202483069 广东省计量科学研究院	2026/07/22
声频功率放大器 AWA5871	080649	/	<i>U</i> =0.03dB, <i>k</i> =2	SXE202401155 广东省计量科学研究院	2025/07/18
实验室标准传声 器 4180	3055317	10Hz~25000Hz	U=(0.05~0.12)dB,k=2	LSsx2024-05614 中国计量科学研究院	2025/05/15



校准结果

Results of calibration

证书编号 Certificate No.

8000

C2501141610001

第4页共7页

Page of

 外观及工作正常性检查 Appearance and function check 正常 Normal

2. 指示声级调整	(1000HZ)						
声级计频率计 权	声校准器频 率	声校准器标准值	调校前声级计	示值 调校后声	级计示值	接受限	结论
	(Hz)	(dB)	(dB)	(d)	В)	(dB)	Pass/Fail
Α	1000	94	93.9	į	′	$93.7 \sim 94.3$	Pass
3. 频率计权的声信		(频率: 1000Hz/A频					
声压级标准	值	声压级指示值		接受限			结论
(dB)		(dB)		(dB)			Pass/Fail
44		44.5		43.2 ~ 44	.8		Pass
54		53.9		53.2 ~ 54	.8		Pass
64		63.8		63.2 ~ 64	.8		Pass
74		73.8		$73.2 \sim 74$.8		Pass
84		83.8		83.2 ~ 84	.8		Pass
94		93.7		93.2 ~ 94	.8		Pass
104		103.8		103.2 ~ 10	4.8		Pass
114		114.2		113.2 ~ 11	4.8		Pass
4. 本机自生噪音							
测试类型	!		频率计权			3	实测值(dB)
声信号			A				34.8
			A				34.2
电信号			С				40.2
			Z				42.5
5. 级线性 (1dB~	10dB内变化):	起始点指示声	级	90 dB			
频率		测量项目		实测值	接受	限	结论
(Hz)				(dB)	(dE	3)	Pass/Fail
	起始点以上	上每间隔10dB最大偏	差	+0.1	± ().3	Pass
	500 men 600 men	每间隔10dB最大偏		+0.2	± ().3	Pass
1000		B内每隔1dB最大偏差		0.0	± ().3	Pass
		B内每隔1dB最大偏差		+0.2	± ().3	Pass
	72 1 1200			2.700			_

+0.1

+0.3

0.0

+0.2

 ± 0.3

 ± 0.3

± 0.3

 ± 0.3

Pass Pass

Pass

Pass

起始点以上每间隔10dB最大偏差

起始点以下每间隔10dB最大偏差

距上限5dB内每隔1dB最大偏差

距下限5dB内每隔1dB最大偏差



20000

-11.2

校准结果

Results of calibration

证书编号 Certificate No.	C2501141610001			 页共7页 Page of
6. 频率计权				
b. 频率月仅 频率	A计权标准值	声压级指示值	接受限	结论
奶 菜 (Hz)	(dB)	(dB)	(dB)	Pass/Fail
20	-50.5	-50.6	-48.5 ~ -52.5	Pass
31.5	-39.4	-39.8	-37.9 ~ -40.9	Pass
63	-39.4 -26.2	-39.8 -26.5	-37.3 ~ -40.3 -25.2 ~ -27.2	Pass
125	-26.2 -16.1	-26.5 -16.6	$-25.2 \approx -27.2$ $-15.1 \approx -17.1$	Pass
250	-16.1 -8.6	-8.8	$-7.6 \sim -9.6$	Pass
500	-3.2	-3.6	$-2.2 \sim -4.2$	Pass
1000	0.0	0.0	+0.7 ~ -0.7	Pass
2000	+1.2	+1.2	+2.2 ~ +0.2	Pass
4000	+1.0	+1.1	+2.0 ~ 0.0	Pass
8000	-1.1	-1.2	+0.4 ~ -3.6	Pass
16000	-1.1 -6.6	-6.9	-4.1 ~ -22.6	Pass
20000	-9.3	-0.9 -10.9	$-6.3 \sim -\infty$	Pass
20000	-3.5	-10.5	0.5	1 dos
频率	C计权标准值	声压级指示值	接受限	结论
(Hz)	(dB)	(dB)	(dB)	Pass/Fail
20	-6.2	-6.0	-4.2 ~ -8.2	Pass
31.5	-3.0	-3.2	$-1.5 \sim -4.5$	Pass
63	-0.8	-0.9	+0.2 ~ -1.8	Pass
125	-0.2	-0.2	+0.8 ~ -1.2	Pass
250	0.0	0.0	+1.0 ~ -1.0	Pass
500	0.0	0.0	+1.0 ~ -1.0	Pass
1000	0.0	0.0	+0.7 ~ -0.7	Pass
2000	-0.2	-0.1	+0.8 ~ -1.2	Pass
4000	-0.8	-0.9	+0.2 ~ -1.8	Pass
8000	-3.0	-3.2	-1.5 ~ -4.5	Pass
16000	-8.5	-9,2	-6.0 ~ -24.5	Pass

-11.6

-8.2 ~ - ∞

Pass



校准结果

Results of calibration

证书编号 Certificate No.	C250114161000	1				页共7页 Page of
频率	Z计权标准值	声压级指示值	i	接受限		结论
(Hz)	(dB)	(dB)		(dB)		Pass/Fail
20	0.0	-0.1		+2.0 ~ -2.0		Pass
31.5	0.0	0.0		+1.5 ~ -1.5		Pass
63	0.0	0.0		+1.5 ~ -1.5		Pass
125	0.0	0.0		+1.0 ~ -1.0		Pass
250	0.0	0.0		+1.0 ~ -1.0		Pass
500	0.0	0.0		+1.0 ~ -1.0		Pass
1000	0.0	0.0		+0.7 ~ -0.7		Pass
2000	0.0	0.0		+1.0 ~ -1.0		Pass
4000	0.0	0.0		+1.0 ~ -1.0		Pass
8000	0.0	-0.2		+1.5 ~ -2.5		Pass
16000	0.0	-0.3		+2.5 ~ -16.0		Pass
20000	0.0	-0.2		+3.0 ~ − ∞		Pass
7. 1kHz处的频率i A计权参考声 (dB)	⁵ 级 C频率计权相对	A频率计权的偏差 Z dB)	(dB)	率计权的偏差	结论 Pass/Fail	接受限 (dB)
94	-	0.1	0.0		Pass	± 0.2
8. F和S时间计权						
衰减	速率	实测值		接受限		结论
(dB	/s)	(dB/s)		(dB/s)		Pass/Fail
快(F)	计权	32.2		31.0 ~ 38.5		Pass
慢(S)	计权	4.9		3.6 ~ 5.1		Pass
9. 猝发音响应(A	计权)					
猝发音持续时	时间 (LAFmax-LA)标准值 (LAFr	nax-LA)指示值	接受		结论
(ms)	(dB)		(dB)	(dB		Pass/Fail
200	-1.0		-1.0	-0.5 ~		Pass
2	-18.0		-18.2	−17.0 ~		Pass
0.25	-27.0		-27.1	-26.0 ~		Pass
猝发音持续时		标准值 (LSFn	nax-LA)指示值	接受限		结论
(ms)	(dB)		(dB)	(dB		Pass/Fail
200	-7.4		-7.5	-6.9 ~		Pass
2	-27.0		-27.0	− 26.0 ~	-30.0	Pass



校准结果

Results of calibration



证书编号 Certificate No. C2501141610001

注: 仪器配传声器型号: AWA14425 , 传声器编号:

H-41633

本次校准结果的扩展不确定度为:

Expanded uncertainty of measurement:

声信号: 20Hz~200Hz, U= 0.5 dB, k=2; 250Hz~400Hz, U= 0.4 dB, k=2; 500Hz~1250Hz, U= 0.4 dB, k=2; 500Hz~1250Hz, U= 0.4 dB, k=2; 12.5kHz~20kHz, U= 1.0 dB; 正弦电信号: (0~140) dB, (20~20000) Hz, U= 0.3 dB, k=2; Φ 500Hz~1250Hz, Φ 70Hz, Φ 8000) Hz, Φ 9000 Hz, Φ 900 Hz, Φ 9000 Hz, Φ 900 Hz, Φ 9000 Hz, Φ 900 Hz, Φ 900 Hz, Φ 9000 Hz, Φ 900 Hz, Φ

时间计权 F 和 S: F: $(25 \sim 40)$ dB/s, U = 3.2 dB/s, k = 2; S: $(1 \sim 10)$ dB/s, U = 0.3 dB/s, k = 2。

备注:

Notes

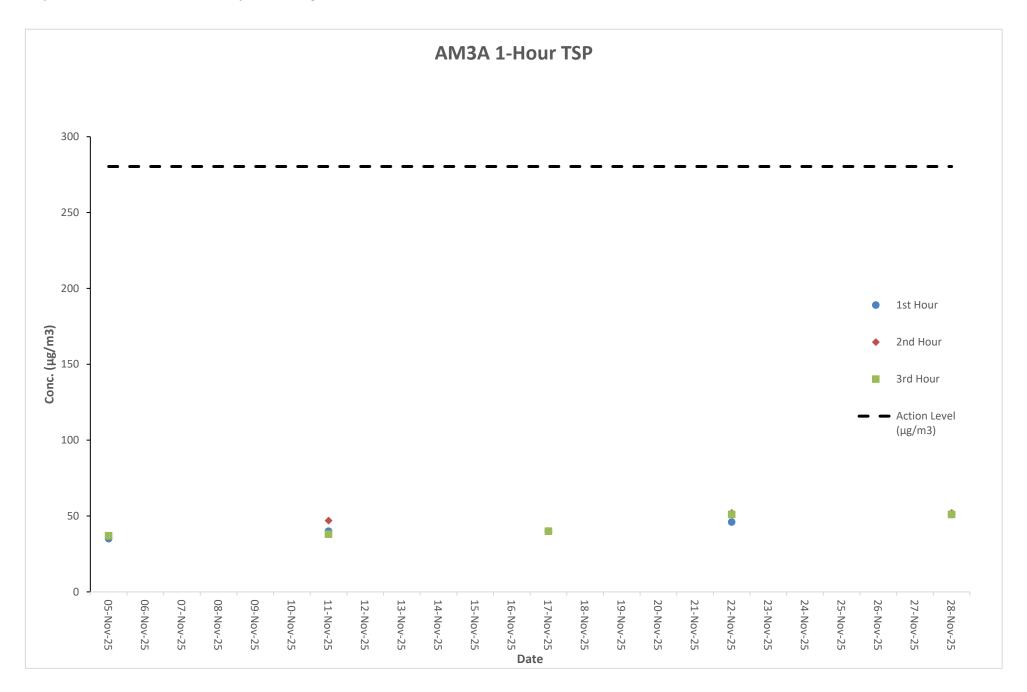
- 1. 依据JJF1059.1-2012测量不确定度评定与表示。 According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement.
- 2. 校准项目符合1级技术要求。
 The calibrated measurand are accord with class 1 technical specifications.

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G. Graphical Plots of the Monitoring Results

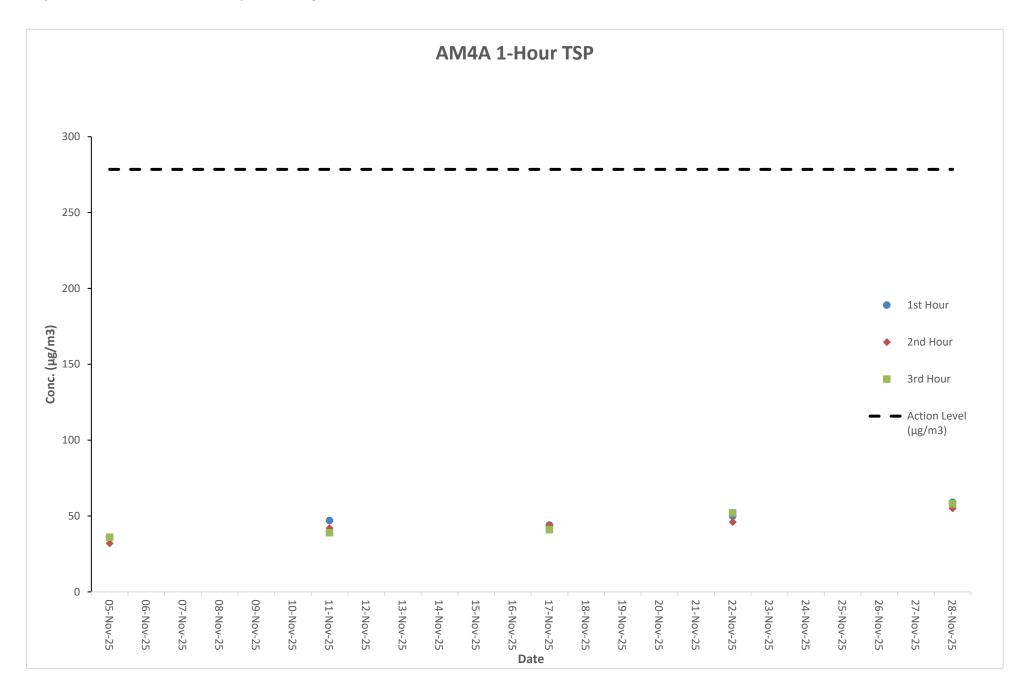
Air Quality Monitoring Result at Station AM3A (1-hour TSP)

Date	Weather	Tir	ne	C	conc. (µg/m3	3)	Action	Limit
Date	Condition	Start	Finish	1st Hour	2nd Hour	3rd Hour	Level	Level
05-Nov-25	Fine	13:05	16:05	35	37	37	280.4	500
11-Nov-25	Cloudy	7:00	10:00	40	47	38	280.4	500
17-Nov-25	Fine	13:04	16:04	40	40	40	280.4	500
22-Nov-25	Fine	7:09	10:09	46	52	51	280.4	500
28-Nov-25	Fine	13:05	16:05	51	52	51	280.4	500



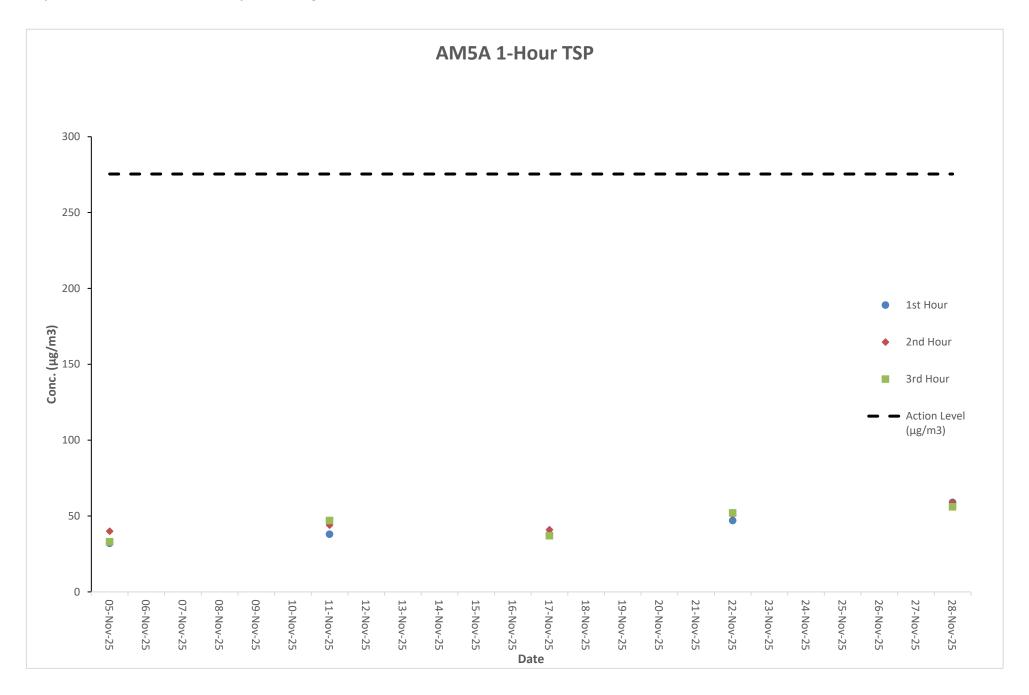
Air Quality Monitoring Result at Station AM4A (1-hour TSP)

Date	Weather	Tir	ne	C	conc. (µg/m3	3)	Action	Limit
Date	Condition	Start	Finish	1st Hour	2nd Hour	3rd Hour	Level	Level
05-Nov-25	Fine	13:13	16:13	36	32	36	278.5	500
11-Nov-25	Cloudy	7:08	10:08	47	42	39	278.5	500
17-Nov-25	Fine	13:12	16:12	44	44	41	278.5	500
22-Nov-25	Fine	7:17	10:17	50	46	52	278.5	500
28-Nov-25	Fine	13:13	16:13	59	55	58	278.5	500



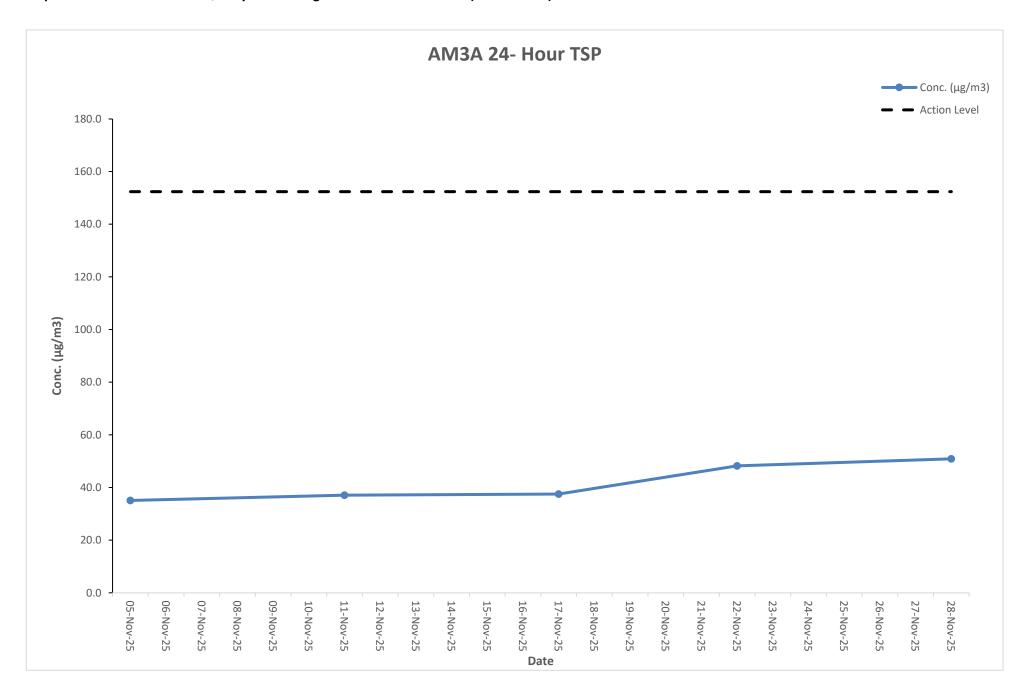
Air Quality Monitoring Result at Station AM5A (1-hour TSP)

Date	Weather	Tir	ne	C	conc. (µg/m3	3)	Action	Limit
Date	Condition	Start	Finish	1st Hour	2nd Hour	3rd Hour	Level	Level
05-Nov-25	Fine	13:28	16:28	32	40	33	275.4	500
11-Nov-25	Cloudy	7:25	10:25	38	44	47	275.4	500
17-Nov-25	Fine	13:27	16:27	38	41	37	275.4	500
22-Nov-25	Fine	7:34	10:34	47	51	52	275.4	500
28-Nov-25	Fine	13:28	16:28	59	59	56	275.4	500



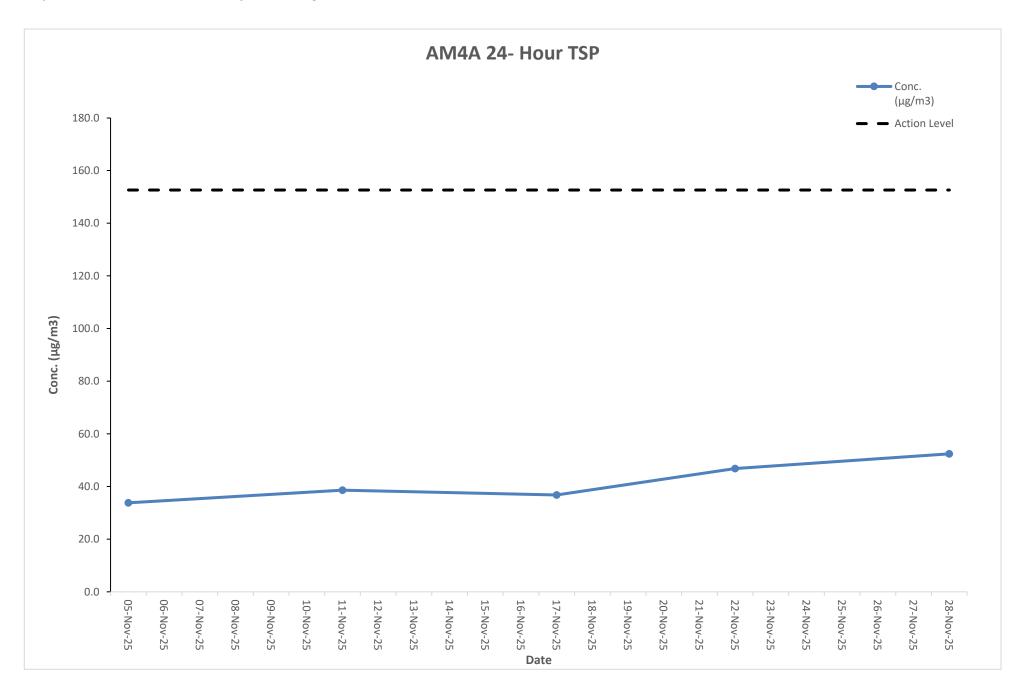
Air Quality Monitoring Result at Station AM3A (24-hour TSP)

Star	rt	Finis	sh	Filter W	eight (g)		d Time ding	Sampling	Flov	v Rate (n	n ³ /min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m3)	Condition	Level	Level
5-11-2025	10:00AM	6-11-2025	10:00AM	2.8047	2.8612	9142.8	9166.8	24	1.12	1.12	1.12	35.1	Sunny	152.4	260
11-11-2025	10:00AM	12-11-2025	10:00AM	2.8069	2.8667	9166.8	9190.8	24	1.12	1.12	1.12	37.1	Sunny	152.4	260
17-11-2025	10:00AM	18-11-2025	10:00AM	2.8077	2.8681	9190.8	9214.8	24	1.12	1.12	1.12	37.5	Sunny	152.4	260
22-11-2025	10:00AM	23-11-2025	10:00AM	2.8052	2.8829	9214.8	9238.8	24	1.12	1.12	1.12	48.2	Sunny	152.4	260
28-11-2025	10:00AM	29-11-2025	10:00AM	2.8090	2.8909	9238.8	9262.8	24	1.12	1.12	1.12	50.9	Sunny	152.4	260



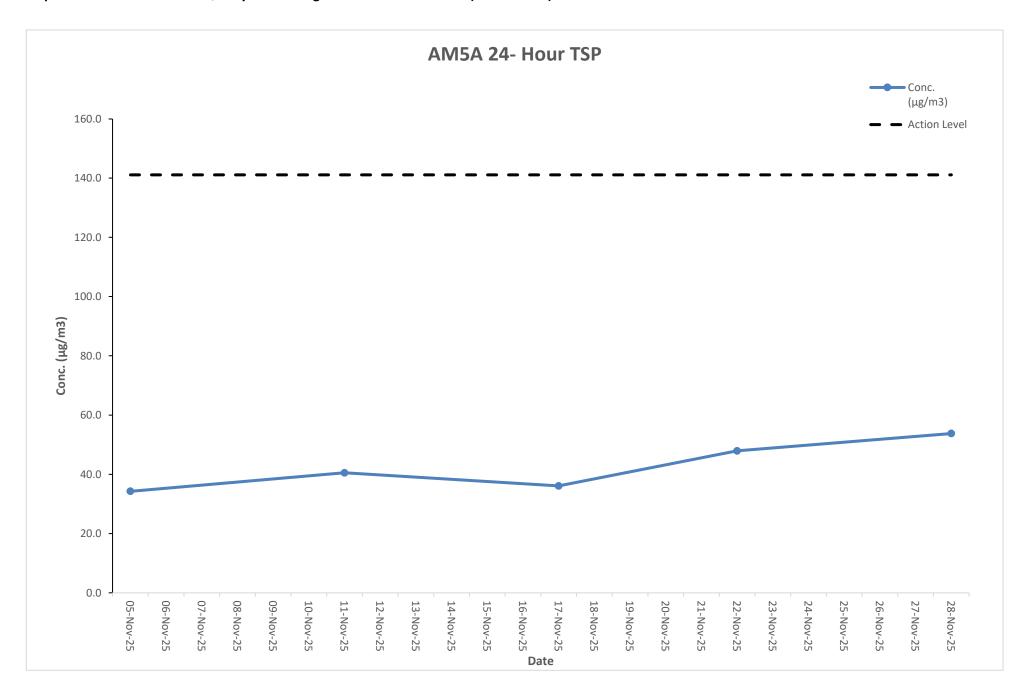
Air Quality Monitoring Result at Station AM4A (24-hour TSP)

						•	d Time								
Star	rt	Finis	h	Filter W	eight (g)	Rea	ding	Sampling	Flov	v Rate (n	า ³ /min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m3)	Condition	Level	Level
5-11-2025	10:00AM	6-11-2025	10:00AM	2.8085	2.8629	9562.4	9586.4	24	1.12	1.12	1.12	33.8	Sunny	152.6	260
11-11-2025	10:00AM	12-11-2025	10:00AM	2.8035	2.8656	9586.4	9610.4	24	1.12	1.12	1.12	38.6	Sunny	152.6	260
17-11-2025	10:00AM	18-11-2025	10:00AM	2.8037	2.8630	9610.4	9634.4	24	1.12	1.12	1.12	36.8	Sunny	152.6	260
22-11-2025	10:00AM	23-11-2025	10:00AM	2.8053	2.8807	9634.4	9658.4	24	1.12	1.12	1.12	46.8	Sunny	152.6	260
28-11-2025	10:00AM	29-11-2025	10:00AM	2.8019	2.8862	9658.4	9682.4	24	1.12	1.12	1.12	52.4	Sunny	152.6	260



Air Quality Monitoring Result at Station AM5A (24-hour TSP)

Star	rt	Finis	sh	Filter W	eight (g)	Elapsed Time Reading Sampling		pling Flow Rate (m³/min)		Conc.	Weather	Action	Limit		
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m3)	Condition	Level	Level
5-11-2025	10:00AM	6-11-2025	10:00AM	2.8055	2.8607	9700.6	9724.6	24	1.12	1.12	1.12	34.3	Sunny	141.1	260
11-11-2025	10:00AM	12-11-2025	10:00AM	2.8052	2.8704	9724.6	9748.6	24	1.12	1.12	1.12	40.5	Sunny	141.1	260
17-11-2025	10:00AM	18-11-2025	10:00AM	2.8014	2.8596	9748.6	9772.6	24	1.12	1.12	1.12	36.1	Sunny	141.1	260
22-11-2025	10:00AM	23-11-2025	10:00AM	2.8037	2.8808	9772.6	9796.6	24	1.12	1.12	1.12	47.9	Sunny	141.1	260
28-11-2025	10:00AM	29-11-2025	10:00AM	2.8031	2.8896	9796.6	9820.6	24	1.12	1.12	1.12	53.8	Sunny	141.1	260

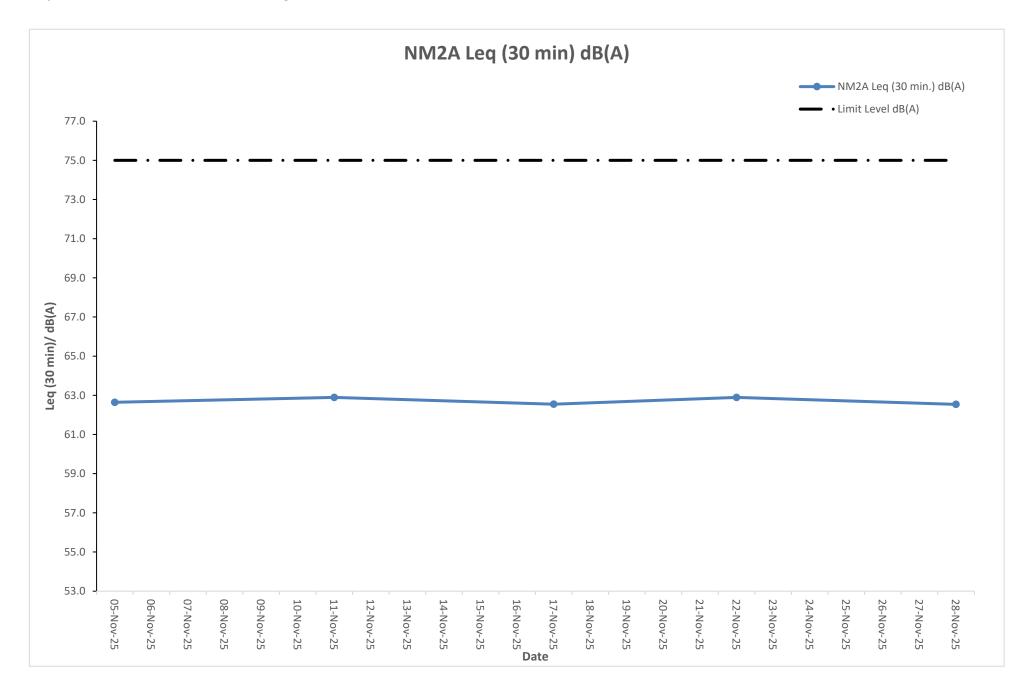


Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
05-Nov-25	13:05	64.0	60.3	
05-Nov-25	13:10	63.7	60.9	
05-Nov-25	13:15	64.9	60.7	62.6
05-Nov-25	13:20	64.2	60.8	02.0
05-Nov-25	13:25	63.9	61.0	
05-Nov-25	13:30	63.7	60.2	
11-Nov-25	8:00	64.6	61.2	
11-Nov-25	8:05	64.3	60.9	
11-Nov-25	8:10	64.9	61.5	62.9
11-Nov-25	8:15	64.4	60.5	02.9
11-Nov-25	8:20	64.9	60.7	
11-Nov-25	8:25	63.9	61.4	
17-Nov-25	13:04	63.7	60.7	
17-Nov-25	13:09	64.1	61.3	
17-Nov-25	13:14	64.3	61.5	62.5
17-Nov-25	13:19	63.9	60.8	02.5
17-Nov-25	13:24	64.9	60.5	
17-Nov-25	13:29	63.8	61.2	
22-Nov-25	8:07	63.9	60.6	
22-Nov-25	8:12	64.3	60.9	
22-Nov-25	8:17	63.6	60.9	62.9
22-Nov-25	8:22	64.5	61.5	02.9
22-Nov-25	8:27	64.5	60.6	
22-Nov-25	8:32	64.3	60.5	
28-Nov-25	13:05	64.7	61.5	
28-Nov-25	13:10	64.2	61.6	
28-Nov-25	13:15	64.2	60.3	62.5
28-Nov-25	13:20	64.5	61.3	02.0
28-Nov-25	13:25	64.2	61.0	
28-Nov-25	13:30	64.3	60.8	



The station set-up of a façade measurement at station NM2A.

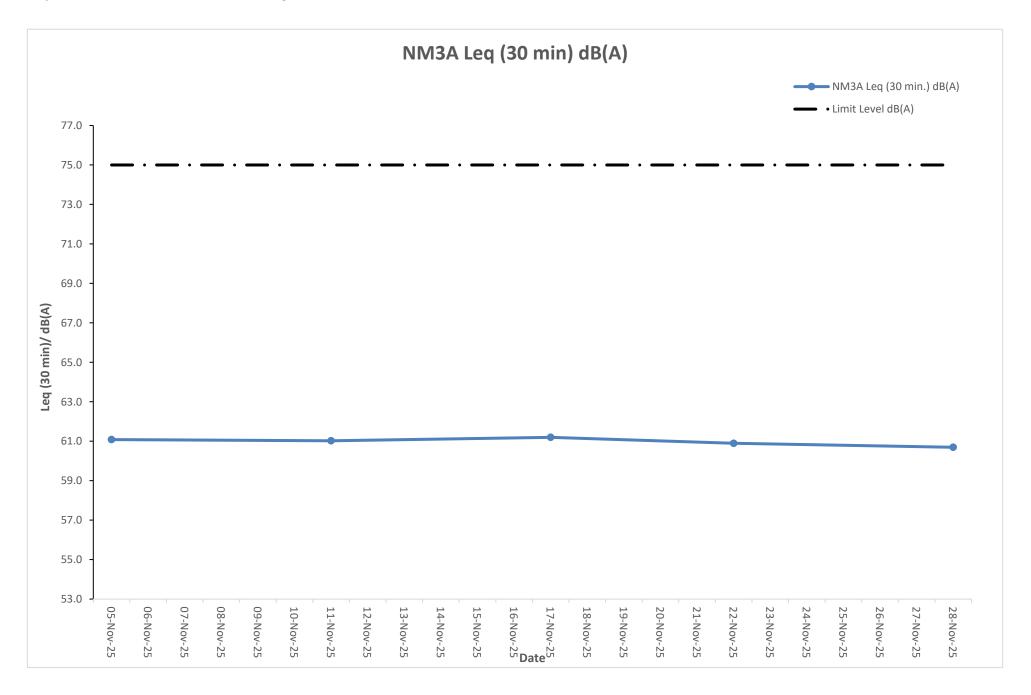


Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
05-Nov-25	14:35	63.6	56.7	
05-Nov-25	14:40	62.8	56.3	
05-Nov-25	14:45	63.1	57.7	61.1
05-Nov-25	14:50	63.2	56.3	01.1
05-Nov-25	14:55	62.1	56.6	
05-Nov-25	15:00	62.6	55.9	
11-Nov-25	9:21	62.4	56.9	
11-Nov-25	9:26	62.1	57.8	61.0
11-Nov-25	9:31	63.2	56.9	
11-Nov-25	9:36	62.1	57.7	
11-Nov-25	9:41	63.7	56.8	
11-Nov-25	9:46	62.8	56.7	
17-Nov-25	14:34	63.3	56.1	
17-Nov-25	14:39	62.4	57.6	61.2
17-Nov-25	14:44	62.3	57.7	
17-Nov-25	14:49	62.0	56.8	
17-Nov-25	14:54	63.5	56.8	
17-Nov-25	14:59	63.3	56.9	
22-Nov-25	9:32	62.2	57.7	
22-Nov-25	9:37	62.8	56.5	
22-Nov-25	9:42	62.6	57.2	60.0
22-Nov-25	9:47	62.7	57.6	60.9
22-Nov-25	9:52	62.0	55.9	
22-Nov-25	9:57	61.9	57.3	
28-Nov-25	14:44	62.3	57.1	
28-Nov-25	14:49	62.9	56.8	
28-Nov-25	14:54	63.2	56.9	60.7
28-Nov-25	14:59	63.0	56.0	00.7
28-Nov-25	15:04	63.7	55.9	
28-Nov-25	15:09	62.1	55.9	



The station set-up of a façade measurement at station NM3A.

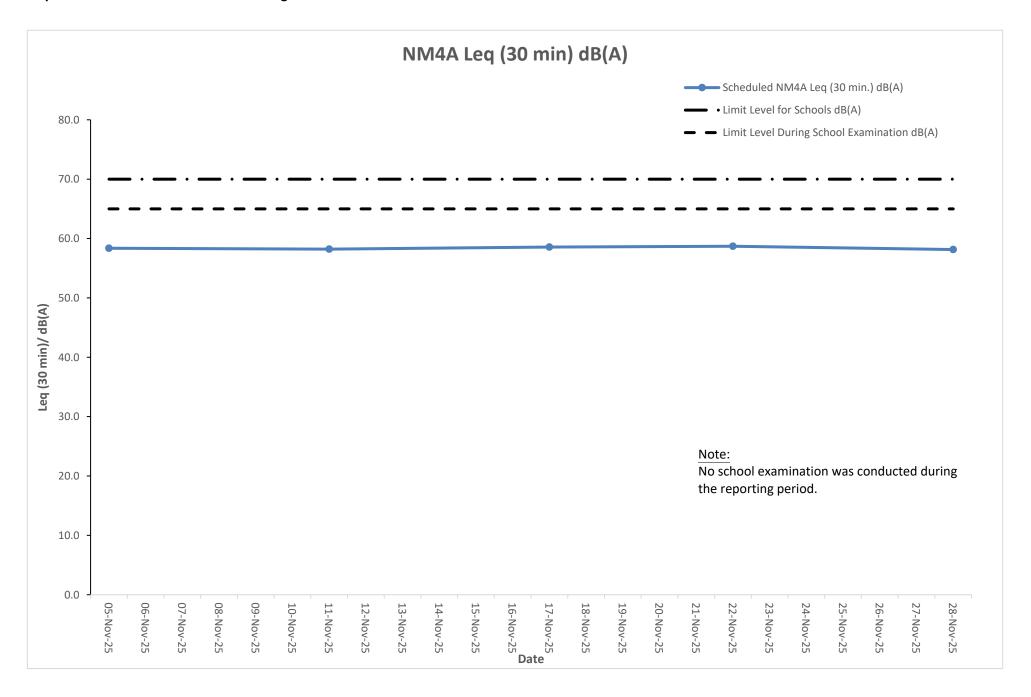


Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	
05-Nov-25	16:40	60.6	56.6	• • • • • • • • • • • • • • • • • • • •	
05-Nov-25	16:45	59.5	56.8		
05-Nov-25	16:50	59.7	56.2	58.4	
05-Nov-25	16:55	60.2	56.4	36.4	
05-Nov-25	17:00	59.2	56.1		
05-Nov-25	17:05	60.0	57.0		
11-Nov-25	9:56	59.8	57.1		
11-Nov-25	10:01	59.2	55.9	50.0	
11-Nov-25	10:06	60.0	56.9		
11-Nov-25	10:11	59.9	56.4	58.2	
11-Nov-25	10:16	59.8	56.8		
11-Nov-25	10:21	60.2	55.9		
17-Nov-25	16:39	59.6	56.8	58.6	
17-Nov-25	16:44	60.4	57.0		
17-Nov-25	16:49	60.4	55.8		
17-Nov-25	16:54	59.6	56.7		
17-Nov-25	16:59	59.2	55.8		
17-Nov-25	17:04	59.9	57.1		
22-Nov-25	10:07	59.3	56.2		
22-Nov-25	10:12	59.9	56.7	58.7	
22-Nov-25	10:17	59.9	56.0		
22-Nov-25	10:22	59.5	56.5		
22-Nov-25	10:27	60.4	56.7		
22-Nov-25	10:32	60.1	56.1		
28-Nov-25	16:49	60.4	56.0		
28-Nov-25	16:54	60.6	56.6		
28-Nov-25	16:59	59.2	56.0	E0 1	
28-Nov-25	17:04	59.2	56.4	58.1	
28-Nov-25	17:09	60.2	57.1		
28-Nov-25	17:14	60.0	55.9		



The station set-up of a façade measurement at station NM4A.



Noise Monitoring Result at Station NM5A

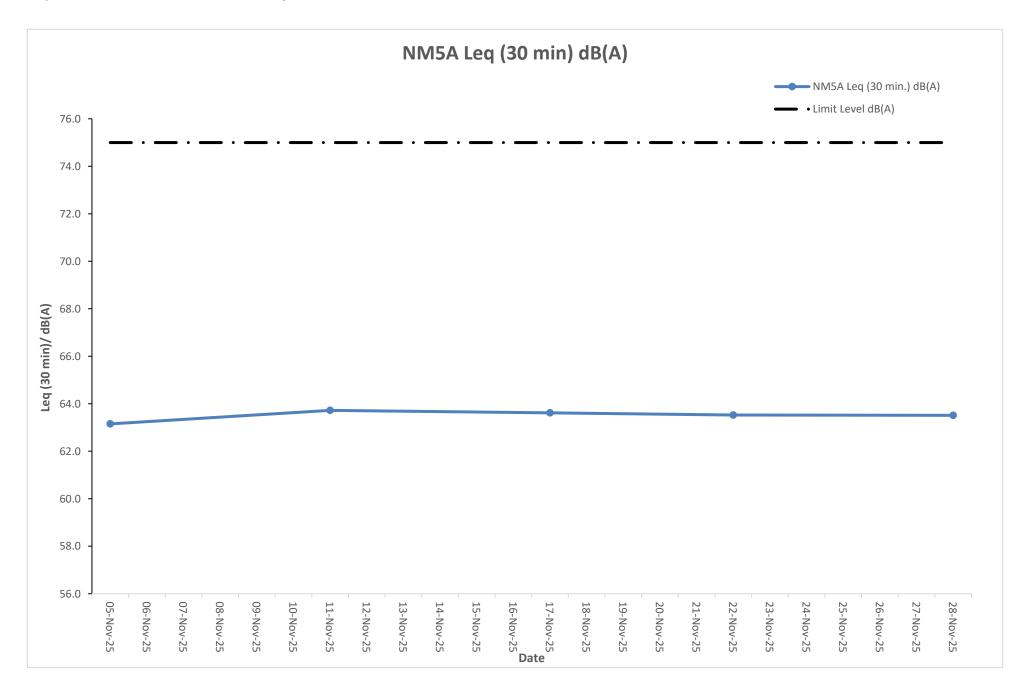
Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	Leq (30 min.) +3 dB(A)
05-Nov-25	13:55	62.2	58.4	60.2	63.2
05-Nov-25	14:00	62.3	58.8		
05-Nov-25	14:05	62.8	57.7		
05-Nov-25	14:10	62.1	58.7		
05-Nov-25	14:15	62.5	57.5		
05-Nov-25	14:20	61.4	57.6		
11-Nov-25	8:40	62.6	58.2		
11-Nov-25	8:45	62.1	58.9		63.7
11-Nov-25	8:50	61.6	59.3	60.7	
11-Nov-25	8:55	61.9	57.8		
11-Nov-25	9:00	61.5	57.4		
11-Nov-25	9:05	61.7	58.5		
17-Nov-25	13:54	62.3	58.1	60.6	63.6
17-Nov-25	13:59	62.3	57.5		
17-Nov-25	14:04	62.4	57.4		
17-Nov-25	14:09	61.4	58.9		
17-Nov-25	14:14	62.6	58.7		
17-Nov-25	14:19	61.9	59.3		
22-Nov-25	8:45	61.5	58.3		63.5
22-Nov-25	8:59	61.7	58.5		
22-Nov-25	9:04	62.5	58.7	60.5	
22-Nov-25	9:09	62.8	57.4		
22-Nov-25	9:14	61.9	58.2		
22-Nov-25	9:19	61.6	58.6		
28-Nov-25	13:55	62.2	58.0		
28-Nov-25	14:09	62.4	58.3	60.5	63.5
28-Nov-25	14:14	62.7	58.6		
28-Nov-25	14:19	61.9	58.6		
28-Nov-25	14:24	61.7	58.8		
28-Nov-25	14:29	62.2	57.5		

Remarks:

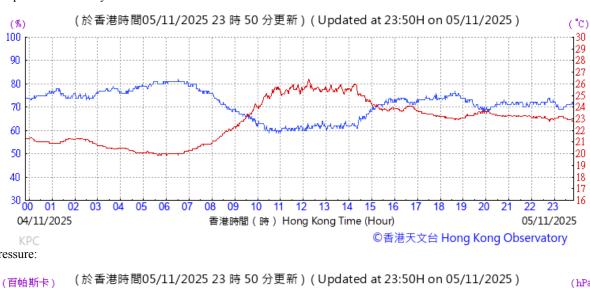
+3dB(A) correction was applied to free-field measurement.



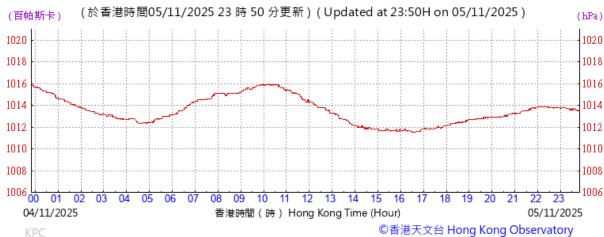
The station set-up of a free-field measurement at station NM5A.



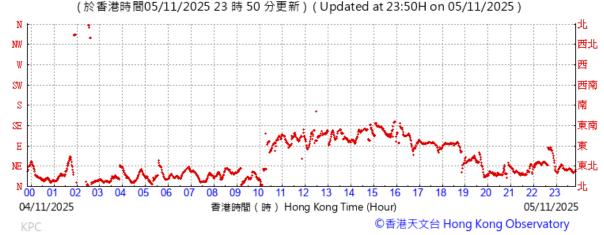
H. Meteorological Data Extracted from Hong Kong Observatory



Pressure:



Wind Direction:



Wind Speed:

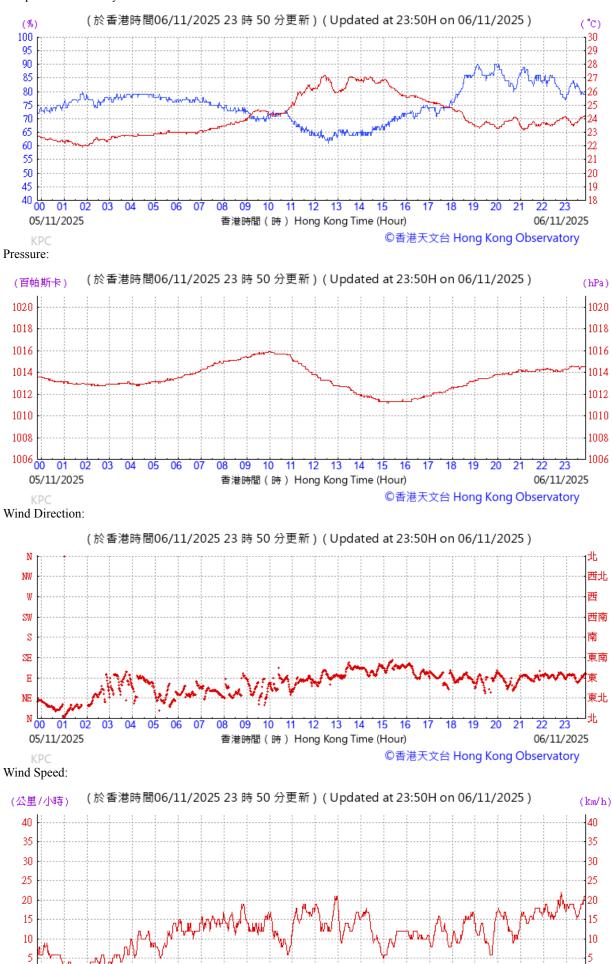


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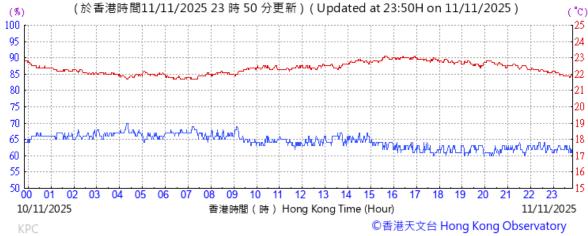


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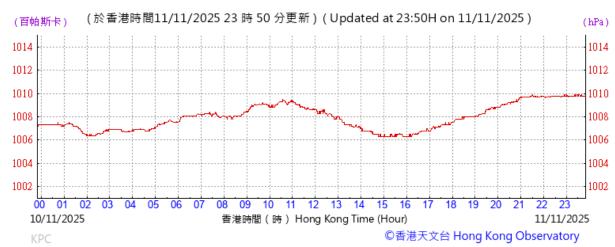
香港時間 (時) Hong Kong Time (Hour)

06/11/2025

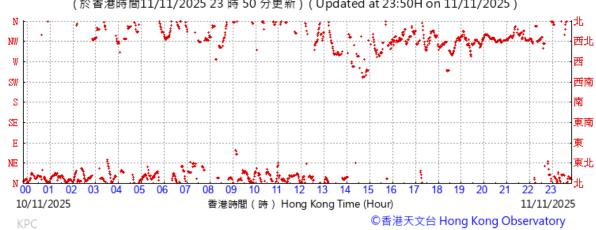
10 11 12 13 14 15 16



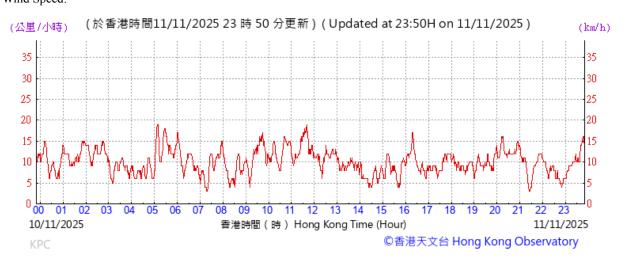
Pressure:



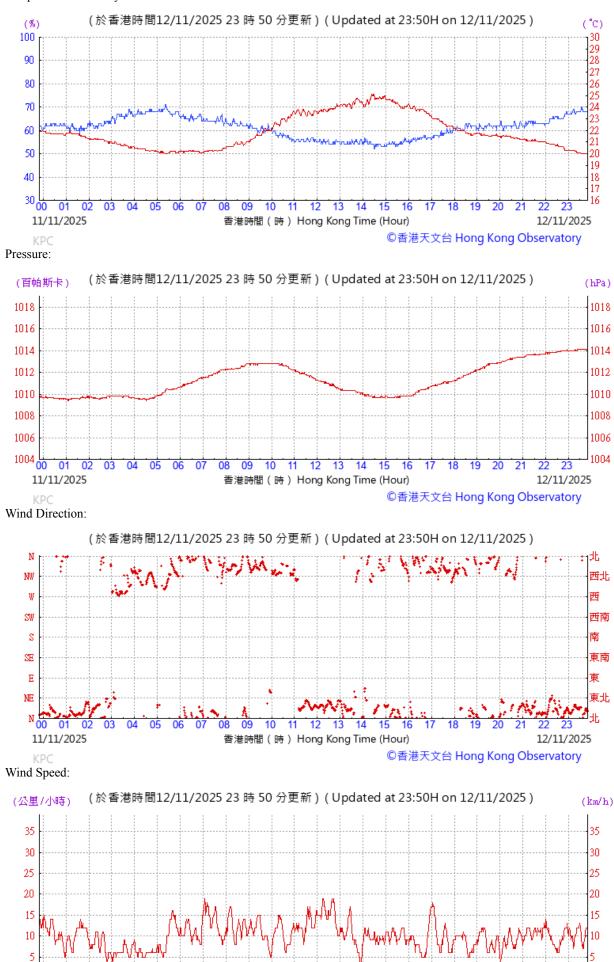
Wind Direction:



Wind Speed:



11/11/2025

香港時間 (時) Hong Kong Time (Hour) ©香港天文台 Hong Kong Observatory KPC

12/11/2025



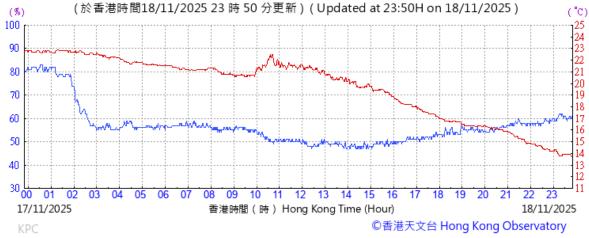
(百帕斯卡) (hPa) 16/11/2025 香港時間 (時) Hong Kong Time (Hour) 17/11/2025 ©香港天文台 Hong Kong Observatory

Wind Direction:

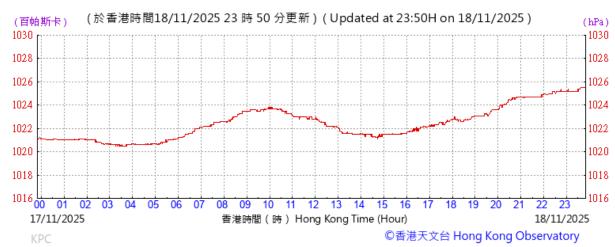


Wind Speed:





Pressure:

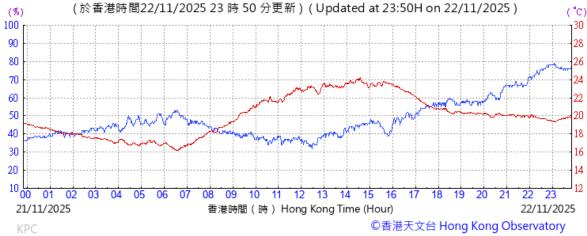


Wind Direction:

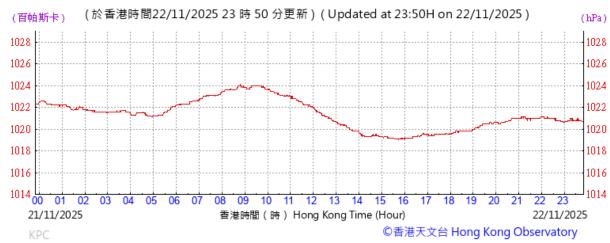


Wind Speed:





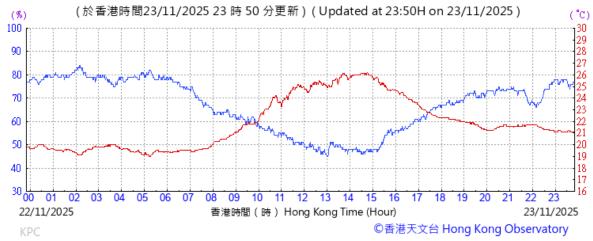
Pressure:



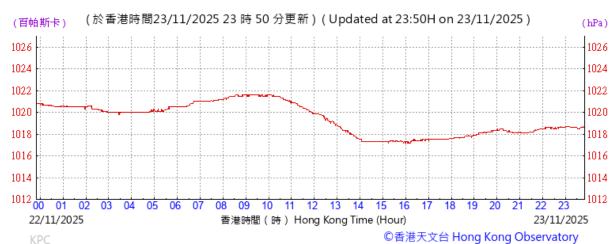
Wind Direction:



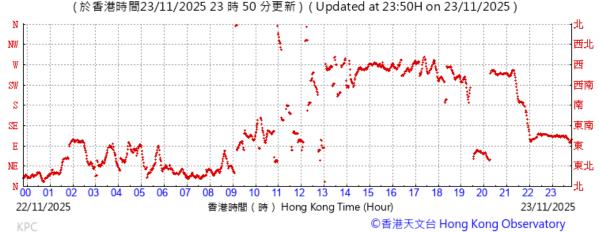




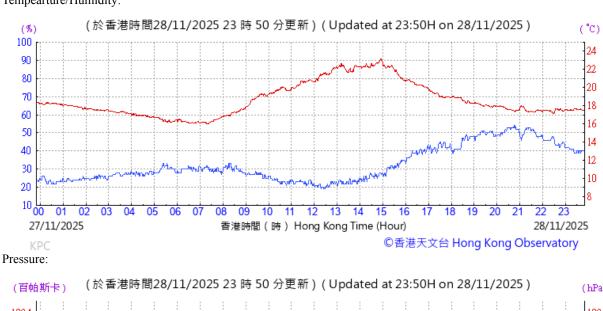
Pressure:

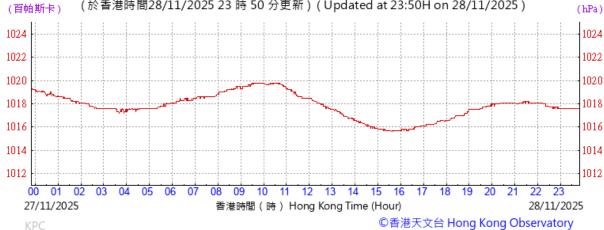


Wind Direction:





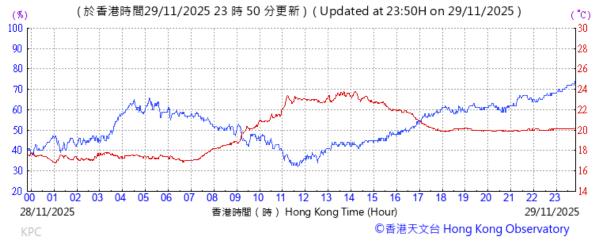




Wind Direction:







Pressure:



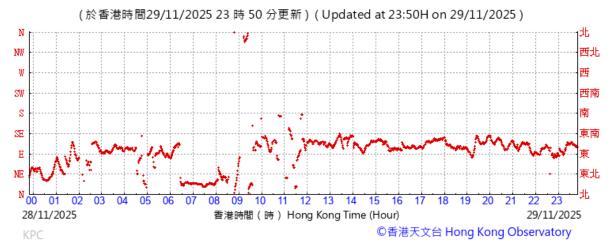
香港時間 (時) Hong Kong Time (Hour)

29/11/2025

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Wind Direction:

28/11/2025





I. Waste Flow table

Table I-1: Monthly Waste Flow Table for Zones 2A, 2B & 2C

				rt C&D Mate	rials Generat	ed Monthly		А	ctual Quantit	ies of C&D M	of C&D Materials Generated Monthly		
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2024	•	•	•	•	•	•		•	•	•	•	•	•
Jul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep	131.67	0.00	0.00	0.00	131.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.24
Oct	241.28	0.00	0.00	0.00	231.10	10.18	0.00	0.00	0.00	0.00	0.00	0.00	3.95
Nov	5383.52	0.00	0.00	4340.40	1043.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.23
Dec	5757.15	0.00	0.00	3082.05	2675.10	0.00	0.00	151.49	0.00	0.00	0.00	0.80	38.92
Sub-total (2024)	11513.62	0.00	0.00	7422.45	4080.99	10.18	0.00	151.49	0.00	0.00	0.00	0.80	214.34
2025													
Jan	4500.55	0.00	0.00	2090.69	2391.44	18.42	0.00	147.67	0.00	0.00	0.00	0.00	29.39
Feb	2785.60	0.00	0.00	0.00	2785.60	0.00	0.00	91.33	0.00	0.00	0.00	0.00	21.33
Mar	3263.24	0.00	0.00	0.00	3263.24	0.00	0.00	4.70	0.00	0.00	0.00	0.00	20.17
Apr	3696.49	0.00	0.00	0.00	3689.80	6.69	0.00	8.86	0.00	0.00	0.00	0.40	71.98
May	5148.11	0.00	0.00	155.70	4992.41	0.00	0.00	6.09	0.00	0.00	0.00	0.00	37.06
Jun	9607.19	0.00	0.00	2846.65	6760.54	0.00	0.00	3.87	0.00	0.00	0.00	0.00	28.58
Jul	13836.49	0.00	0.00	3799.18	10037.31	0.00	0.00	4.19	0.00	0.00	0.00	0.00	84.85
Aug	16769.40	0.00	0.00	1935.66	14833.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.59
Sep	16533.90	0.00	0.00	4231.18	12302.72	0.00	0.00	46.33	0.00	0.00	0.00	0.00	70.92
Oct	25307.39	0.00	0.00	12377.85	12929.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.72
Nov	26767.61	0.00	0.00	12181.34	14558.72	27.55	0.00	0.00	0.00	0.00	0.00	0.00	17.15
Dec													
Sub-total (2025)	128215.97	0.00	0.00	39618.25	88545.06	52.66	0.00	313.04	0.00	0.00	0.00	0.40	461.74
Total	139729.59	0.00	0.00	47040.70	92626.05	62.84	0.00	464.53	0.00	0.00	0.00	1.20	676.08

Note:

- 14558.72 tonnes and 0.00 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 Public Fill respectively.
- 13 cargos among 29 Jul 25 and 02 Aug 25 are recorded by the weight measurement device on dump truck due to malfunction of TKO137's weightbridge.
- Part of the record for inert C&D materials reused in other project in Nov 25 is missing. Relevant record would be supplemented in next reporting period.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (November 2025)

Implementation Stage

EM&A Ref.	Recommendation Measures	Zone 2A, 2B & 2C			
Air Quality Impact (Construction)					
2.1	General Dust Control Measures Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	Obs			
2.1	 Best Practice for Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include: Good Site Management Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent 	✓			
	fugitive dust emission before cleaning. Disturbed Parts of the RoadsF Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or	✓			
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	Obs			
	 Exposed Earth Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction 	✓			

Zone 2A, 2B & 2C

EM&A Ref. Recommendation Measures	Zone 2A, 2B & 2C
activity on the site or part of the site where the exposed earth lies.	
Loading, Unloading or Transfer of Dusty Materials	✓
 All dusty materials should be sprayed with water immediately prior to any loading or 	
transfer operation so as to keep the dusty material wet.	
Debris Handling	✓
 Any debris should be covered entirely by impervious sheeting or stored in a debris 	
collection area sheltered on the top and the three sides.	
 Before debris is dumped into a chute, water should be sprayed so that it remains wet 	N/A
when it is dumped.	No debris chute on-site
Transport of Dusty Materials	✓
 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or 	
similar material. The cover should extend over the edges of the sides and tailboards.	
Wheel washing	✓
 Vehicle wheel washing facilities should be provided at each construction site exit. 	
Immediately before leaving the construction site, every vehicle should be washed to	
remove any dusty materials from its body and wheels.	
Use of vehicles	✓
 The speed of the trucks within the site should be controlled to about 10km/hour in order 	
to reduce adverse dust impacts and secure the safe movement around the site.	
 Immediately before leaving the construction site, every vehicle should be washed to 	✓
remove any dusty materials from its body and wheels.	
 Where a vehicle leaving the construction site is carrying a load of dusty materials, the load 	✓
should be covered entirely by clean impervious sheeting to ensure that the dusty	
materials do not leak from the vehicle.	
Site hoarding	✓
 Where a site boundary adjoins a road, street, service lane or other area accessible to the 	
public, hoarding of not less than 2.4m high from ground level should be provided along	
the entire length of that portion of the site boundary except for a site entrance or exit.	

EM&A Ref. Recommendation Measures

2.1 Best Practicable Means for Cement Works (Concrete Batching Plant)

The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:

Exhaust from Dust Arrestment Plant

 Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection

Emission Limits

 All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke

Engineering Design/Technical Requirements

• As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions

Non-Road Mobile Machinery (NRMM):

All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.

Noise Impact (Construction)

N/A

No concrete batching plant in in this project.

N/A

No concrete batching plant in in this project.

N/A

No concrete batching plant in this project.

Obs

EM&A Ref.	Recommendation Measures	Zone 2A, 2B & 2C
3.1	Good Site Practice	
	Good site practice and noise management can significantly reduce the impact of construction	
	site activities on nearby NSRs. The following package of measures should be followed during	
	each phase of construction:	
	only well-maintained plant to be operated on-site and plant should be serviced regularly	✓
	during the construction works;	
	• machines and plant that may be in intermittent use to be shut down between work	✓
	periods or should be throttled down to a minimum	
	• plant known to emit noise strongly in one direction, should, where possible, be orientated	✓
	to direct noise away from the NSRs;	
	mobile plant should be sited as far away from NSRs as possible; and	✓
	• material stockpiles and other structures to be effectively utilised, where practicable, to	Obs
	screen noise from on-site construction activities.	
3.1	Adoption of Quieter PME	✓
	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME	
	Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26	
	in the EIA report. It should be noted that the silenced PME selected for assessment can be found	
	in Hong Kong.	
3.1	Use of Movable Noise Barriers	✓
	Movable noise barriers can be very effective in screening noise from particular items of plant	
	when constructing the Project. Noise barriers located along the active works area close to the	

noise generating component of a PME could produce at least 10 dB(A) screening for stationary

EM&A Ref.	Recommendation Measures	Zone 2A, 2B & 2C
	plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the	
	NSRs is blocked.	
3.1	Use of Noise Enclosure/ Acoustic Shed	Obs
	The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor	
	and concrete pump. With the adoption of the noise enclosure, the PME could be completely	
	screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note	
	No. 9/2010.	
3.1	Use of Noise Insulating Fabric	✓
	Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc).	
	The fabric should be lapped such that there are no openings or gaps on the joints. According to	
	the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise	
	reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	
3.1	Scheduling of Construction Works outside School Examination Periods	✓
	During construction phase, the contractor should liaise with the educational institutions	
	(including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy	
	construction activities during school examination periods.	
Water Qualit	y Impact (Construction)	
4.1	Construction site runoff and drainage	
	The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in	
	order to minimise surface runoff and the chance of erosion. The following measures are	

recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water

quality impacts:

- 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, earth bunds or sand bag barriers
 should be provided on site to direct storm water to silt removal facilities. The design of
 the temporary on-site drainage system should be undertaken by the WKCDA's Contractor
 prior to the commencement of construction;
- Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction.
- 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 during rainstorms. Deposited silt and grit should be regularly removed, at the
 onset of and after each rainstorm to ensure that these facilities are functioning properly
 at all times.
- Measures should be taken to minimize the ingress of site drainage into excavations. If
 excavation of trenches in wet periods is necessary, they should be dug and backfilled in
 short sections wherever practicable. Water pumped out from foundation excavations
 should be discharged into storm drains via silt removal facilities.
- All vehicles and plant should be cleaned before leaving a construction site to ensure no

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earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly 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.

- Open stockpiles of construction materials or construction wastes onsite 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 (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers.
- Precautions should be taken at any time of the year when rainstorms are likely. Actions should 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 Note 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.
- Bentonite slurries used in piling or slurry walling should be reconditioned and reused
 wherever practicable. Temporary enclosed storage locations should be provided on-site
 for any unused bentonite that needs to be transported away after all the related
 construction activities are completed. The requirements in ProPECC Note PN 1/94 should
 be adhered to in the handling and disposal of bentonite slurries.

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N/A

No bentonite slurries are used in this project.

EM&A Ref. Recommendation Measures

4.1 Barging facilities and activities

Recommendations for good site practices during operation of the proposed barging point include:

- All vessels should be sized so that adequate clearance is maintained between vessels and
 the seabed in all tide conditions, to ensure that undue turbidity is not generated by
 turbulence from vessel movement or propeller wash;
- Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;
- All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and
- Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.

4.1 Sewage effluent from construction workforce

Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.

4.1 General construction activities

 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain.
 Stockpiles of cement and other construction materials should be kept covered when not N/A

No barging facilities in this project at this stage.

N/A

No barging facilities in this project at this stage.

N/A

No barging facilities in this project at this stage.

N/A

No barging facilities in this project at this stage.

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Obs

Obs

being used.

 Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.

Waste Management Implications (Construction)

6.1 **Good Site Practices**

Recommendations for good site practices during the construction activities include:

- Nomination of an approved person, such as a site manager, to be responsible for good site
 practices, arrangements for collection and effective disposal to an appropriate facility, of
 all wastes generated at the site
- Training of site personnel in proper waste management and chemical handling procedures
- Provision of sufficient waste disposal points and regular collection of waste
- Appropriate measures to minimise windblown litter and dust/odour during transportation
 of waste by either covering trucks or by transporting wastes in enclosed containers
- Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads
- Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated

6.1 Waste Reduction Measures

Recommendations to achieve waste reduction include:

		Implementation Stage
EM&A Ref.	Recommendation Measures	Zone 2A, 2B & 2C
	Sort inert C&D material to recover any recyclable portions such as metals	✓
	• Segregation and storage of different types of waste in different containers or skips to	✓
	enhance reuse or recycling of materials and their proper disposal	
	• Encourage collection of recyclable waste such as waste paper and aluminium cans by	✓
	providing separate labelled bins to enable such waste to be segregated from other general	
	refuse generated by the work force	
	Proper site practices to minimise the potential for damage or contamination of inert C&D	✓
	materials	
	Plan the use of construction materials carefully to minimise amount of waste generated	✓
	and avoid unnecessary generation of wastes	
6.1	Inert and Non-inert C&D Materials	
	In order to minimise impacts resulting from collection and transportation of inert C&D material	
	for off-site disposal, the excavated materials should be reused on-site as fill material as far as	
	practicable. In addition, inert C&D material generated from excavation works could be reused	
	as fill materials in local projects that require public fill for reclamation.	
	• The surplus inert C&D material will be disposed of at the Government's PFRFs for	✓
	beneficial use by other projects in Hong Kong.	
	• Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal	✓
	of the inert C&D materials at PFRF is underway. No construction work is allowed to	
	proceed until all issues on management of inert C&D materials have been resolved and all	
	relevant arrangements have been endorsed by the relevant authorities including PFC and	
	EPD.	
	The C&D materials generated from general site clearance should be sorted on site to	✓

Zone 2A, 2B & 2C

segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.

• In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.

6.1 Chemical Waste

- If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.
- Potential environmental impacts arising from the handling activities (including storage,

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collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.

6.1 **General Refuse**

General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.

Land Contamination (Construction)

- 7.1 The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material:
 - To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;
 - Contact with contaminated materials can be minimised by wearing appropriate clothing
 and personal protective equipment such as gloves and masks (especially when interacting
 directly with contaminated material), provision of washing facilities and prohibition of

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

Zone 2A, 2B & 2C

smoking and eating on site;

- Stockpiling of contaminated excavated materials on site should be avoided as far as possible;
- The use of contaminated soil for landscaping purpose should be avoided unless pretreatment was carried out;
- Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;
- Truck bodies and tailgates should be sealed to stop any discharge;
- Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;
- Speed control for trucks carrying contaminated materials should be exercised;
- Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and
- Maintain records of waste generation and disposal quantities and disposal arrangements.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

TST Fire Station is out of this project boundary, no mitigation measure is required.

N/A

Zone 2A, 2B & 2C

		TST Fire Station is out of this project boundary, no mitigation
		measure is required.
Ecological Ir	mpact (Construction)	
	No mitigation measure is required.	
Landscape a	and Visual Impact (Construction)	
Table 9.1	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable	✓
(CM1)	due to construction impacts, trees will be transplanted or felled with reference to the stated	
	criteria in the Tree Removal Applications to be submitted to relevant government departments	
	for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	
Table 9.1	Compensatory tree planting shall be incorporated to the proposed project and maximize the	N/A
(CM2)	new tree, shrubs and other vegetation planting to compensate tree felled and vegetation	Compensatory tree planting is being reviewed.
	removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1	
	in terms of quality and quantity within the site.	
Table 9.1	Buffer trees for screening purposes to soften the hard architectural and engineering structures	N/A
(CM3)	and facilities.	Roof garden is designed to be built, but it has not been completed
		yet.
Table 9.1	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping	N/A
(CM4)	plants, etc, to maximize the green coverage and soften the hard architectural and engineering	Climbing or weeping plants are designed to be planted, but
	structures and facilities.	proposal is being reviewed for the planting location.
Table 9.1	Roof greening by means of intensive and extensive green roof to maximize the green coverage	N/A
(CM5)	and improve aesthetic appeal and visual quality of the building/structure.	Roof garden is designed to be built, but it has not been completed
		yet.

Implementation Stage

EM&A Ref. Recommendation Measures Zone 2A, 2B & 2C

Table 9.1	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A
(CM6)		Greening along the seafront is proposed, and under review.
Table 9.1	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape	N/A
(CM7)	quality.	Gardens are designed to be built, and under review.
Table 9.1	Landscape design shall be incorporated to architectural and engineering structures in order to	✓
(CM8)	provide aesthetically pleasing designs.	
Table 9.1	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to	N/A
(CM9)	minimize the affected extent to the waterbody	No marine facilities for this project.
Table 9.2	Use of decorative screen hoarding/boards	✓
(MCP1)		
Table 9.2	Early introduction of landscape treatments	N/A
(MCP2)		No landscape treatments during this stage.
Table 9.2	Adoption of light colour for the temporary ventilation shafts for the basement during the	N/A
(MCP3)	transition period.	No ventilation shafts for this project.
Table 9.2	Control of night time lighting	✓
(MCP4)		
Table 9.2	Use of greenery such as grass cover for the temporary open areas will help achieve the visual	N/A
(MCP5)	balance and soften the hard edges of the structures.	No temporary open areas for this project.

N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 05 July 2024 for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)) to the end of the reporting month and are summarised in the Table K-1 below respectively.

Table K-1: Statistics for complaints, notifications of summons and successful prosecutions for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)

Reporting Period Cumulative Statistics

	Complaints	Notifications of summons	Successful prosecutions	
This reporting month	0	0	0	
(November 2025)	0	U	U	
From 05 July 2024 to end of	4	0	0	
the reporting month	4	U	U	