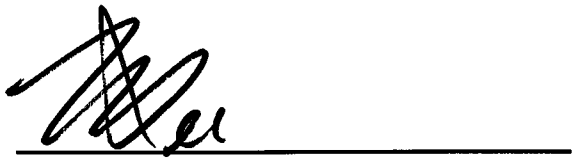
Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for March 2026

13 April 2026

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 by:



Max LEE
Environmental Team Leader (ETL)
West Kowloon Cultural District Authority

Date 13 April 2026

Verified by:

Claudine LEE
Independent Environmental Checker (IEC)
Meinhardt Infrastructure & Environment Ltd

Date 13 April 2026

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

MOTT MACDONALD

Development at West Kowloon Cultural District

Monthly Environmental Monitoring and Audit (EM&A) Report for March 2026

9 April 2026

Contents

Executive summary 1

1 Introduction 3
- 1.1 Background 3
- 1.2 Project Organisation 3
- 1.3 Status of Construction Works in the Reporting Period 4
- 1.4 Summary of EM&A Requirements and Alternative Monitoring Locations 4
  - 1.4.1 EM&A Requirements 4
  - 1.4.2 Alternative Monitoring Locations 5

2 Impact Monitoring Methodology 6
- 2.1 Introduction 6
- 2.2 Air Quality 6
  - 2.2.1 Monitoring Parameters, Frequency and Duration 6
  - 2.2.2 Monitoring Locations 6
  - 2.2.3 Monitoring Equipment 6
  - 2.2.4 Monitoring Methodology 7
- 2.3 Noise 10
  - 2.3.1 Monitoring Parameters, Frequency and Duration 10
  - 2.3.2 Monitoring Location 10
  - 2.3.3 Monitoring Equipment 10
  - 2.3.4 Monitoring Methodology 10
- 2.4 Landscape and Visual 11
  - 2.4.1 Monitoring Program 11

3 Monitoring Results 12
- 3.1 Impact Monitoring 12
- 3.2 Air Quality Monitoring 12
  - 3.2.1 1-hour TSP 12
  - 3.2.2 24-hour TSP 12
- 3.3 Noise Monitoring 13
- 3.4 Landscape and Visual Impact 13

4 Site Environmental Management 14
- 4.1 Site Inspection 14
- 4.2 Advice on the Solid and Liquid Waste Management Status 15
- 4.3 Status of Environmental Licenses and Permits 15
- 4.4 Recommended Mitigation Measures 15

5 Compliance with Environmental Permit 17

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions 18

6.1 Record on Non-compliance of Action and Limit Levels 18
6.2 Record on Environmental Complaints Received 18
6.3 Record on Notifications of Summons and Successful Prosecution 18

7 Future Key Issues 19

7.1 Construction Works for the Coming Month(s) 19
7.2 Key Issues for the Coming Month 19
7.3 Monitoring Schedule for the Coming Month 19

8 Conclusions and Recommendations 20

8.1 Conclusions 20
8.2 Recommendations 20

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

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 March to 31 March 2026.

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 4, 11, 19 and 25 March 2026 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

One 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
  - Modification work for installation of louvers
  - Drip tray installation
  - Temporary ceiling installation
- DCS cofferdam
  - Excavation
  - Backfilling work
  - Construction of manholes and cable draw pits
  - Installation of drainage work and UU services

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 March to 31 March 2026. 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
  - Modification work for installation of louvers
  - Construction of the plant room
  - Pipe works
- DCS cofferdam
  - Excavation
  - Construction of manholes and cable draw pits
  - Cabling works
  - Installation of drainage work
  - Installation of fender

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.: 831657)
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 m^3/min. The range specified in the EM&A Manual was between 0.6-1.7 m^3/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**.

<u>24-hour TSP Monitoring (Portable direct reading dust meter)</u>

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. 00643040)	LARSON DAVIS CAL200 (Serial No. 11334)

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}, L_{10} and L_{90} 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 Station	Monitoring Date	Start Time	1-hour TSP (μg/m3)			Range (μg/m3)	Action Level (μg/m3)	Limit Level (μg/m3)
			1st Result	2nd Result	3rd Result			
AM1	5-Mar-26	8:32	32	35	39	27-39	273.7	500
	11-Mar-26	8:31	29	33	28			
	17-Mar-26	8:37	31	29	27			
	23-Mar-26	8:43	31	29	36			
	27-Mar-26	8:30	29	33	34			
AM2	5-Mar-26	8:47	51	49	45	32-54	274.2	500
	11-Mar-26	8:47	45	39	41			
	17-Mar-26	8:53	50	35	32			
	23-Mar-26	8:59	42	45	50			
	27-Mar-26	8:47	54	49	47			

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/m^3)	Range (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
AM1	5-Mar-26	8:30	15	12-28	143.6	260
	11-Mar-26	8:29	16			
	17-Mar-26	8:35	12			
	23-Mar-26	8:41	16			
	27-Mar-26	8:28	28			
AM2	5-Mar-26	8:45	35	27-36	151.1	260
	11-Mar-26	8:45	34			
	17-Mar-26	8:51	27			
	23-Mar-26	8:57	29			
	27-Mar-26	8:45	36			

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 L_{eq} (dB(A))
5-Mar-26	9:35	10:05	63	75
11-Mar-26	9:33	10:03	64	
17-Mar-26	9:39	10:09	64	
23-Mar-26	9:44	10:14	63	

Remarks:

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

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 4 and 19 March 2026 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**.

4 Site Environmental Management

4.1 Site Inspection

Construction phase weekly site inspections were carried out on 4, 11, 19 and 25 March 2026 at Lyric Theatre Complex (L2 Contract). While the site environmental management committee meeting with IEC, ET, ER and Contractor was held on 19 March 2026. 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)
26/2/2026	Water Quality	Breaker head was observed idle on ground, the contractor was reminded to provide a suitable drip tray for the breaker head, the oil stain should also be cleared and treated as chemical waste.	The contractor has removed the braker head and cleared the stain.	4/3/2026
26/2/2026	Waste Management	The contractor was reminded to ensure proper housekeeping.	The contractor has ensured proper housekeeping.	3/3/2026
4/3/2026	Water Quality	Chemical was observed on ground without drip tray, the contractor was reminded to provide suitable drip tray or remove it if no longer in use.	The contractor has removed the chemical.	11/3/2026
4/3/2026	Water Quality	The contractor should ensure the proper functioning of the wastewater treatment facility.	The contractor has ensured the proper functioning of the wastewater treatment facility.	11/3/2026
4/3/2026	Waste Management	The contractor was reminded to clear the general refuse regularly.	The contractor has ensured regular cleaning of the general refuse.	11/3/2026
19/3/2026	Water Quality	Idle chemicals were observed on ground, the contractor was reminded to provide suitable drip trays.	The contractor has removed the chemicals.	25/3/2026
19/3/2026	Waste Management	General refuse was observed on ground, the contractor was reminded to properly store them and remove them regularly.	The contractor has removed the general refuse.	25/3/2026
25/3/2026	Water Quality	Idle chemical was observed on ground, the contractor was reminded to provide suitable drip tray for it.	Pending	
25/3/2026	Waste Management	The contractor was reminded to ensure proper storage of general refuse and clear them regularly.	Pending	

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, 194.8 tonnes, 0.0 tonne 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 897.1 tonnes of general refuse were disposed of at SENT and WENT landfill. 0.0 tonne of metals, 0.0 tonne 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 on site. 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. / Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN:5213-217-G2347-39	13-Sep-21	-	Valid	
Billing Account Construction Waste Disposal				
7032787	02-Jan-19	-	Account Active	
Construction Noise Permit				
GW-RE0024-26	26-Jan-26	11-Jul-26	Valid	
Wastewater Discharge License				
WT00043449-2023	30-Mar-23	30-Apr-28	Valid	
Notification under Air Pollution Control (Construction Dust) Regulation				
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.

Waste Management

– General refuse should be sorted in enclosed bins or compaction units separated from inert C&D materials.

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 Feb 2026	13 Mar 2026

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

One environmental complaint was received in the reporting month.

On 2 March 2026, the West Kowloon Cultural District Authority (WKCDA) referred a complaint case received via hotline on 1 Mar 2026 regarding noise disturbance from the construction site near Artist Square Bridge from 9 a.m. on 1 March 2026. The complainant, Ms. Ng, reported that the construction site near Artist Square Bridge is causing noise nuisance from 9 a.m. on 1 March 2026. She enquires about the duration of construction work, whether a permit has been obtained from Environmental Protection Department as the construction activity is carrying out on Sunday, and whether it will continue every Sunday. From the information provided by the contractor, a valid CNP was obtained by the contractor and the works undertaken on 1 March 2026 were in compliant with the CNP requirements. Preventive measures are well-deployed and maintained by the Contractor including regular briefings and meetings with subcontractors and frontline workers, and regular inspection was conducted to ensure the proper deployment of noise mitigation measures. Regular noise monitoring together with additional noise monitoring were also conducted once per week, and the results were well below the action/limit levels such that the construction works of Lyric Theatre Complex (L2 Contract) should not be posing significant impacts to the nearby sensitive receivers. As concluded from the above investigation and findings, it could not directly imply the complaint was attributable to Lyric Theatre Complex (L2 Contract).

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
  - Modification work for installation of louvers
  - Drip tray installation
  - Temporary ceiling installation
- DCS cofferdam
  - Excavation
  - Backfilling work
  - Construction of manholes and cable draw pits
  - Installation of drainage work and UU services

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.

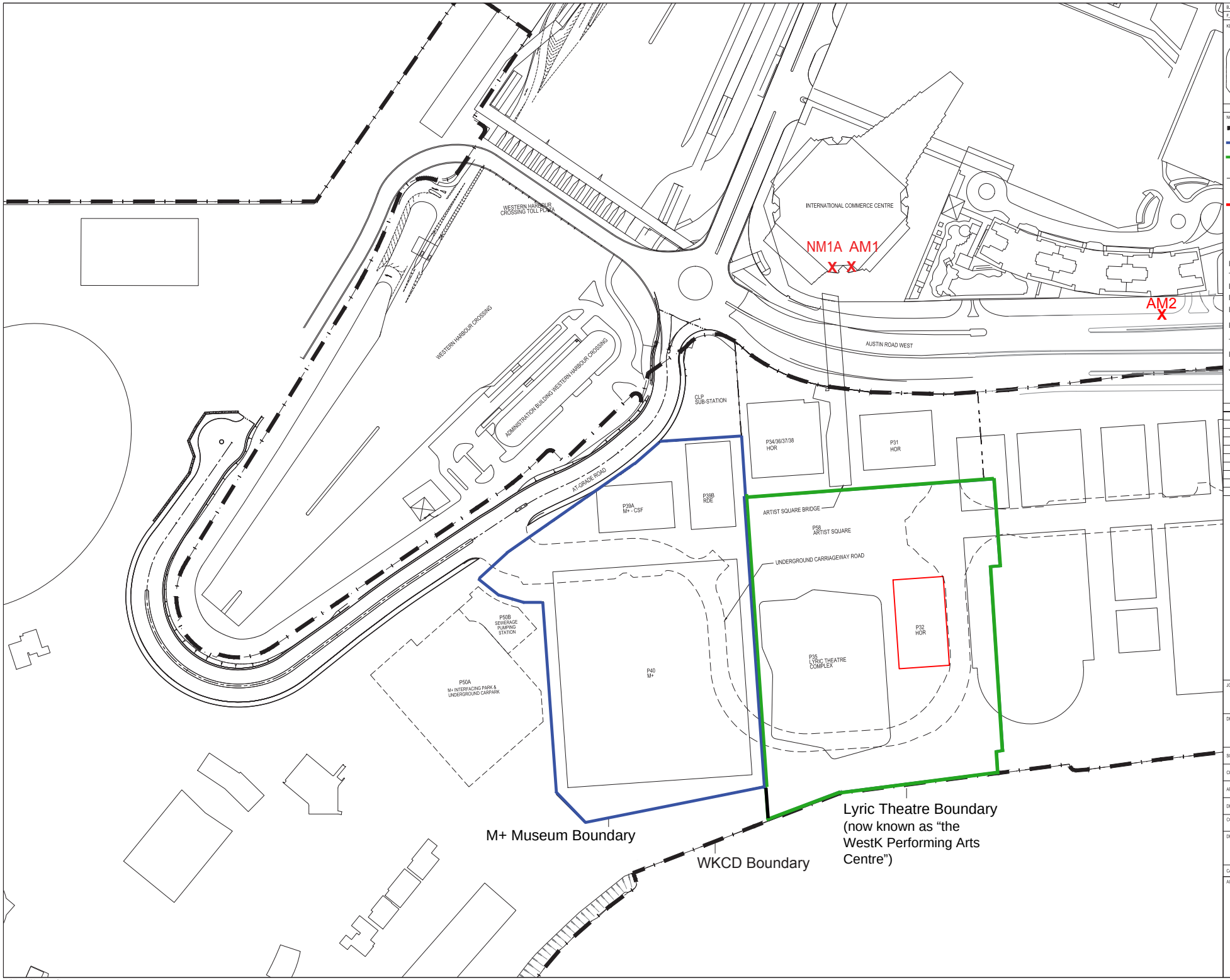
One environmental complaint was recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

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



B.D. REF:

F.S.D. REF:

KEY PLAN

KEY PLAN

NOTES:

WKCD BOUNDARY

M+ MUSEUM BOUNDARY

LYRIC THEATRE BOUNDARY

BOUNDARY OF UNDERPASS ROAD SERVING THE PLANNED WKCD

AREA HANDED OVER TO SUN HUNG KAI PROPERTIES

X CONSTRUCTION AIR/NOISE MONITORING STATIONS

REMARKS 1:

THE AIR MONITORING STATION AM2B HAS BEEN RELOCATED TO THE ALTERNATIVE MONITORING STATION AM2 AT THE G/F OF HARBOURSIDE ON 1 JUNE 2021

REMARKS 2:

THE SITE P32 (DELINEATED IN RED) WAS HANDED OVER TO AST DEVELOPER ON 31 JANUARY 2023.

REV.	DATE	DESCRIPTION	INITIAL

JOB TITLE: **M+ MUSEUM FOR VISUAL CULTURE (MAIN CONTRACT WORKS) & LYRIC THEATRE COMPLEX**

DRAWING TITLE: **PROPOSED LOCATIONS OF CONSTRUCTION AIR/NOISE MONITORING STATIONS**

SCALE	1:100	PRINTED	A1
CHECKED		DATE	
APPROVED		DATE	
DRAWN		DATE	
CONTRACT NO.			

DRAWING NO.: **FIGURE 1** REV.: XA

CAD REF NAME: XXXXX-AUT-PMS-DWG-P00-L00D-0000-XXX.dwg

AUTHORITY

westKowloon 西九文化區

A1 (841mm x 594mm) Sheet Size

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

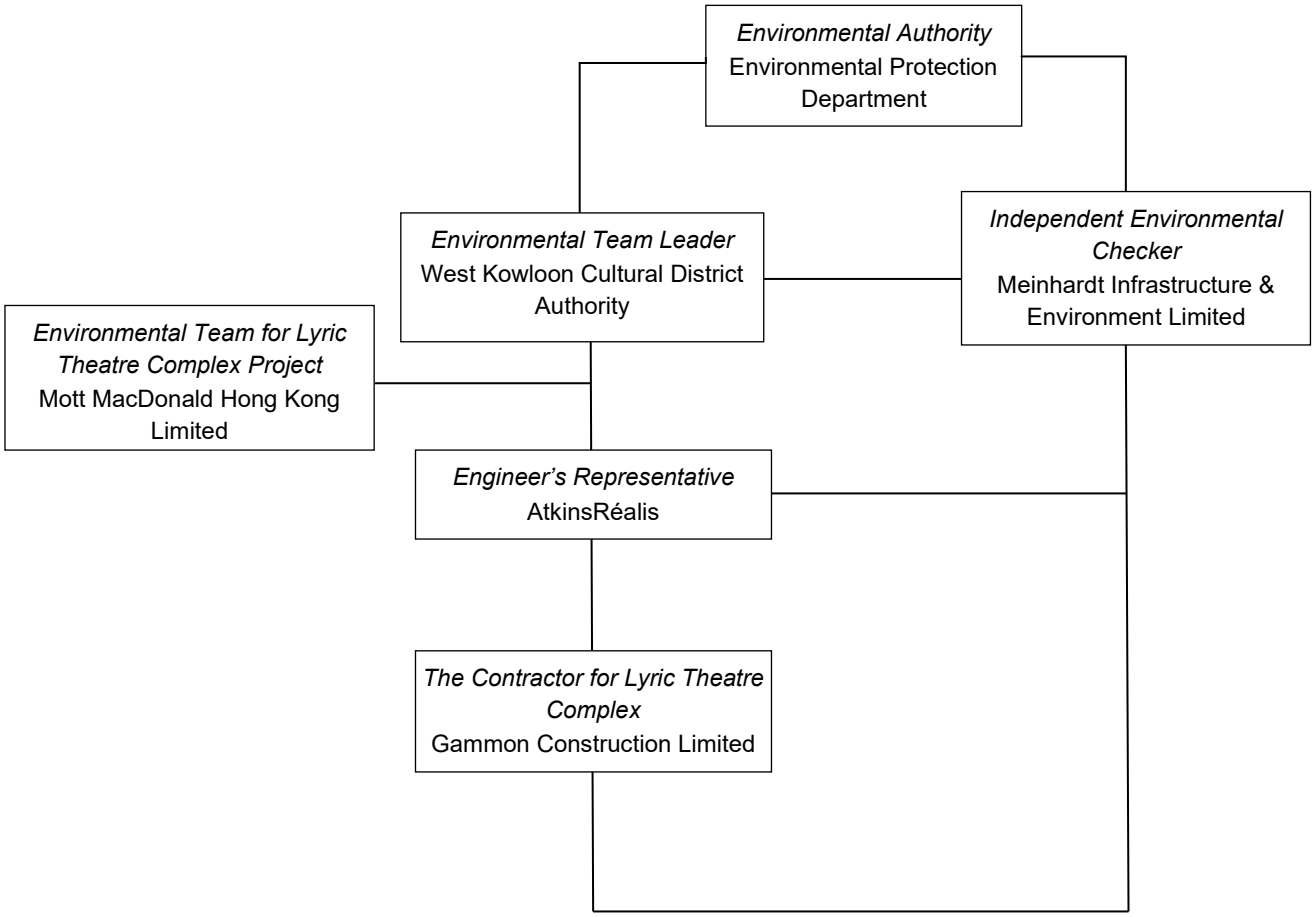


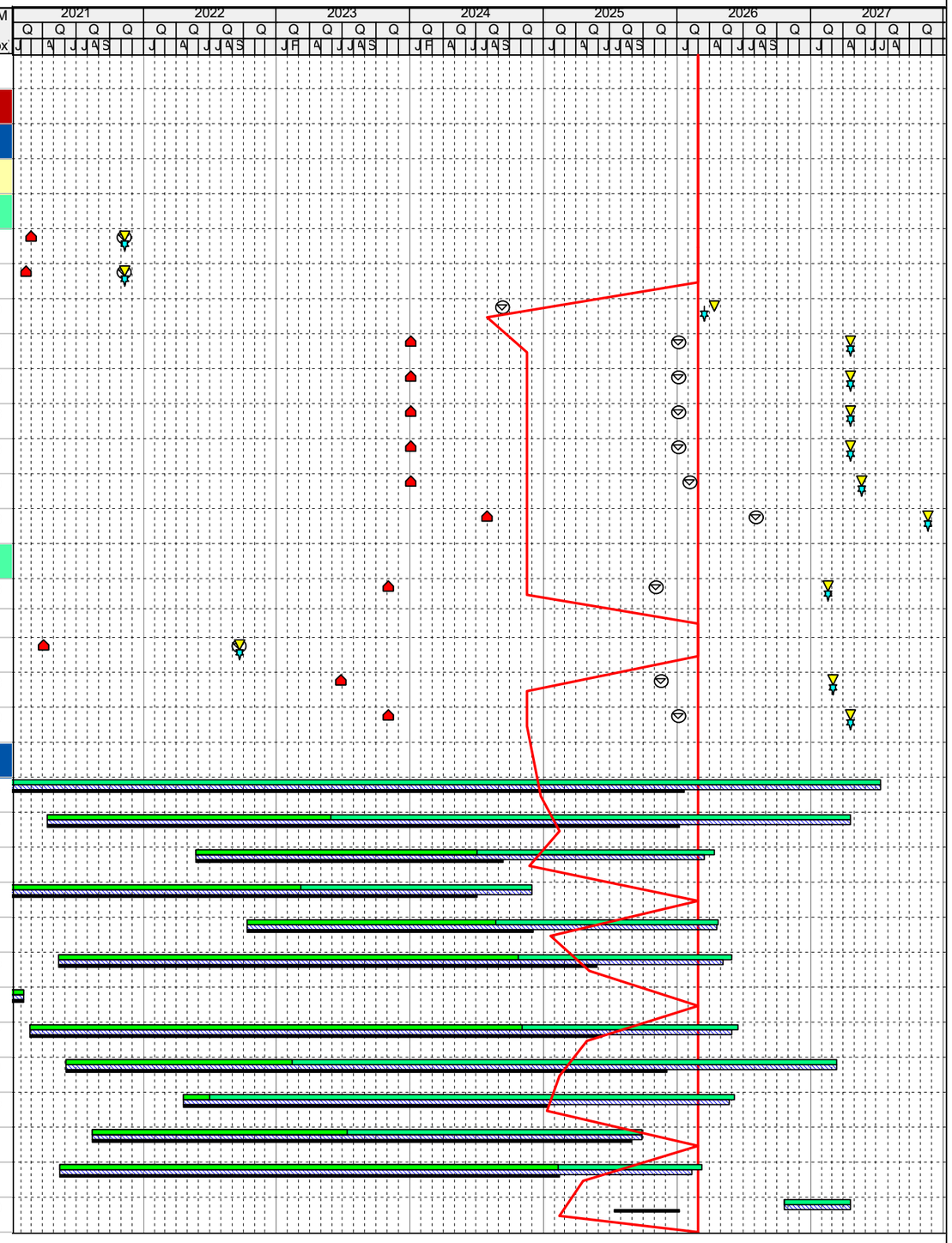
Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
AtkinsRéalis	Senior Technical Director	Mr. Simha LytheRao	2204 8259	Simha.Lytherao@atkinsrealis.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

TASK filter: UPD: Level 1 Summary.

ID	Activity	RD	EOT #2 Finish	Rev_3B START	Rev_3B FINISH	Current START	Current FINISH	EOT#2 VAR	R_3B VAR.	LM VAR	SUMM TF 'approx'
*L2 CMWP_R_3_B - Rev_3B_25 2nd DRAFT [DD=28Feb26] ***L I V E****											
GENERAL & PRELIMINARIES											
Contract Significant Dates											
Commencement & Completion Dates - CMWP_Rev_01											
Section Keydates											
KD05A	Complete Pedestrian Access Corr. & Floor Finishes at AURW	0	28-Feb-21		12-Nov-21		12-Nov-21 A	-256	0	0	
KD05B	Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed]	0	14-Feb-21		12-Nov-21		12-Nov-21 A	-270	0	0	
KD05	PC for HO of the Remaining Works for M+ Promenade South	0	24-Aug-20		11-Sep-24		14-Apr-26*	-2059	-580	-27	-580
KD08	PC for HO Local ICT/Riser/SCR/TBE/MNO Rooms	0	03-Jan-24		07-Jan-26		20-Apr-27*	-1204	-468	0	-468
KD10	PC for HO of ASDA, Lyric Theatre Promenade South to Authority	0	03-Jan-24		07-Jan-26		20-Apr-27*	-1204	-468	0	-468
KD09	PC for HO of RDE areas for Tenancy Fit-out Wrks	0	03-Jan-24		07-Jan-26		20-Apr-27*	-1204	-468	0	-468
KD11	PC for HO of Extended Basement for HO to Authority & HO of CW to Relev. Gov Authority	0	03-Jan-24		07-Jan-26		20-Apr-27*	-1204	-468	0	-468
KD07	PRACTICAL COMPLETION for M+ Day 2 Works to the Authority	0	03-Jan-24		06-Feb-26		21-May-27*	-1235	-469	0	-469
KD13	PRACTICAL COMPLETION for LT, EB & C'Way 3B (Including PPE)	0	31-Jul-24		07-Aug-26		18-Nov-27*	-1205	-468	0	-468
Stage Keydates											
KD03	OBTAIN OP for Lyric Theatre & Extended Basement	0	04-Nov-23		07-Nov-25		18-Feb-27*	-1202	-468	0	-468
KD01	Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks	0	20-Jul-19		20-Jul-19		20-Jul-19 A	0	0	0	
KD06	PC for Fountain Related Plantroom(s) (allow access to Project Contractor)	0	01-Apr-21		22-Sep-22		22-Sep-22 A	-538	0	0	
KD14	Complete all Necessary Works Incl. Integ_T&C along CW Z3a/Z3b for Rel_Authority Pre-Insp.	0	27-Jun-23		22-Nov-25		05-Mar-27*	-1348	-468	0	-468
KD02	Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works	0	04-Nov-23		06-Jan-26		20-Apr-27*	-1263	-469	0	-469
CMWP - Summary Program - RSS											
SUM100	[LoE] CC_B - Lyric Theatre	405		02-May-20	22-Jan-26	02-May-20 A	12-Jul-27		-433	0	108
SUM101	[LoE] CC_C - ASDA and Lyric Theatre Promenade	338		12-Apr-21	07-Jan-26	12-Apr-21 A	20-Apr-27		-379	0	175
SUM102	[LoE] CC_D - Remaining Works for M+ Promenade South	35		26-May-22	11-Sep-24	26-May-22 A	14-Apr-26		-461	-20	-461
SUM103	[LoE] CC_E - DCS Cofferdam	0		07-Aug-20	04-Jul-24	07-Aug-20 A	30-Nov-24 A		-111	0	
SUM104	[LoE] CC_F - Modification to Existing Pump Cell	42		12-Oct-22	04-Dec-24	12-Oct-22 A	22-Apr-26		-404	-1	89
SUM105	[LoE] CC_G - Extended Basement	74		15-May-21	28-May-25	15-May-21 A	30-May-26		-299	-20	-115
SUM106	[LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020	0		14-Apr-20	06-Feb-21	14-Apr-20 A	06-Feb-21 A		0	0	
SUM107	[LoE] CC_I - Underpass and Associated Area	90		24-Feb-21	09-Jun-25	24-Feb-21 A	18-Jun-26		-306	-15	-167
SUM108	[LoE] CC_J - M+ Day 2 Works	312		03-Jun-21	03-Dec-25	03-Jun-21 A	16-Mar-27		-380	0	-354
SUM109	[LoE] CC_K - Water Main at Promenade	81		23-Apr-22	10-Jan-25	23-Apr-22 A	08-Jun-26		-414	-13	-235
SUM110	[LoE] CC_N - Lifts & Escalators	0		16-Aug-21	30-Aug-25	16-Aug-21 A	26-Sep-25 A		-22	0	
SUM111	[LoE] P32 Interim Development	9		17-May-21	14-Feb-25	17-May-21 A	11-Mar-26		-316	-20	96
SUM112	[LoE] Project Wide Stat. Inspections & Approval [LTC&EB FSD & BD Summary LTC/EB_3B & 3A)]	146		14-Jul-25	06-Jan-26	21-Oct-26	20-Apr-27		-380	0	-380



Gammon

Base Line ACT
EOT#2 CD
Base Line MS
Milestone
Current - Other Works
Current - Struct Works
Current - MEP Works

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_25 2nd DRAFT [DD=28Feb26] ***L I V E***

Date	Revision	Checked	Approved
10-Mar-26	CMWP Rev_3_B Feb26 Update	JL	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/m^3)	Limit Level (mg/m^3)
AM1	273.7	500
AM2	274.2	500

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

Monitoring Station	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
AM1	143.6	260
AM2	151.1	260

Noise

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

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; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and 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 monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform 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.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. 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.

Event	Action			
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

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.	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 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.	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

Event	Action			
	ET	IEC	WKCDA	Contractor
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.	1. Check report submitted by ET; 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	-
Non-conformity on one occasion	1. Identify source of non-conformity; 2. Report to IEC and WKCDA; 3. Discuss remedial actions with IEC, WKCDA and Contractor; 4. 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.	1. Notify Contractor; 2. 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.	1. Notify Contractor; 2. 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

March 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4 Lyric Landscape & Visual Inspection	5 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	6	7
8	9	10	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 Lyric Landscape & Visual Inspection	20	21
22	23 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	24	25	26	27 AM1, AM2 - 24hrTSP, 1hr TSP x3	28
29	30	31	Notes AM1 - International Commerce Centre (ICC) AM2 - The Harbourside Tower 1 - Ground Floor NM1A - International Commerce Centre (ICC)			

April 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	3	4
5	6	7	8 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	9	10	11
12	13	14 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	15	16	17	18
19	20 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring	21	22	23	24 AM1, AM2 - 24hrTSP, 1hr TSP x3	25
26	27	28	29	30 AM1, AM2 - 24hrTSP, 1hr TSP x3 NM1A - Noise Impact Monitoring		

Notes

AM1 - International Commerce Centre (ICC)
AM2 - The Harbourside Tower 1 - Ground Floor
NM1A - International Commerce Centre (ICC)

F. Calibration Certifications

High-Volume TSP Sampler
5-Point Calibration Record

Location : AM1(ICC)
Calibrated by : K.T.Ho
Date : 28/02/2026

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

Calibration Orifice and Standard Calibration Relationship
Serial Number : 2454
Next Calibration Due Date : 01 December 2026
Slope(m) : 2.07213
Intercept(b) : -0.03919
Correlation Coefficient(r) : 0.99999

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

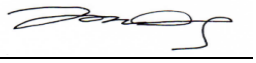
Calibration Condition
Pa (hpa) : 1010.1
Ta(K) : 295.0

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.4	3.389	1.654	60	60.23
2	13 holes	8.4	2.909	1.423	50	50.19
3	10 holes	6.2	2.499	1.225	40	40.15
4	7 holes	4.4	2.106	1.035	34	34.13
5	5 holes	2.6	1.619	0.800	20	20.08

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

Sampler Calibration Relationship

Slope(m):46.048 Intercept(b):-15.570 Correlation Coefficient(r): 0.9966

Checked by: 
Magnum Fan

Date: 02/03/2026

TISCH Environmental

RECALIBRATION DUE DATE:
December 1, 2026

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 1, 2025	**Rootsmeter S/N:** 438320	**Ta:** 294	°K
Operator:	Jim Tisch		**Pa:** 755.4	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	1.4240	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7130	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0032	0.7045	1.4195	0.9958	0.6993	0.8823
0.9989	0.9861	2.0075	0.9915	0.9788	1.2477
0.9969	1.1028	2.2444	0.9895	1.0946	1.3950
0.9957	1.1551	2.3539	0.9884	1.1466	1.4631
0.9904	1.3891	2.8390	0.9831	1.3788	1.7645
QSTD	**m=**	**2.07213**	**QA**	**m=**	**1.29754**
	b=	**-0.03919**		**b=**	**-0.02436**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

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

For subsequent flow rate calculations:

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

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

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

Key

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

RECALIBRATION

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

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

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2517350
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 4-MAY-2025
		DATE OF ISSUE	: 12-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 item(s) tested.
- 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.

ALS Technichem (HK) Pty Ltd
Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER : HK2517350
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2517350-001	Sibata LD-5R (831657)	Equipments	26-Apr-2025	S/N: 831657

-------- 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
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-5R
Serial No.:	831657
Equipment Ref.:	N/A
ALS Job Order:	HK2516538

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	17-Mar-2025

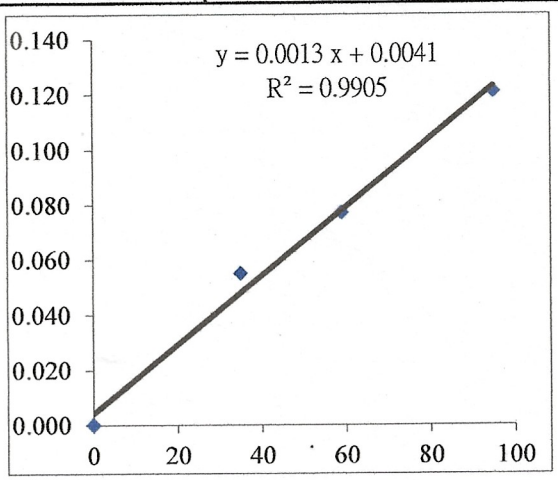
Equipment Verification Results:

Verification Date: 26-Apr-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0845-0945	23.8	1013.2	0.055	35
2hr 00mins	0950-1150	24.9	1013.4	0.077	59
3hr 00mins	1315-1615	28.2	1013.5	0.121	95

Linear Regression of Y or X

Slope (K-factor):	0.0013(mg)/Count
Correlation Coefficient (R):	0.9905
Date of Issue:	3-May-2025



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 0.0013(mg)/Count should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Tai Date: 03 May 2025

QC Reviewer: K.F.Ho Signature at Date: 03 May 2025

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:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H20(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR 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	

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 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)

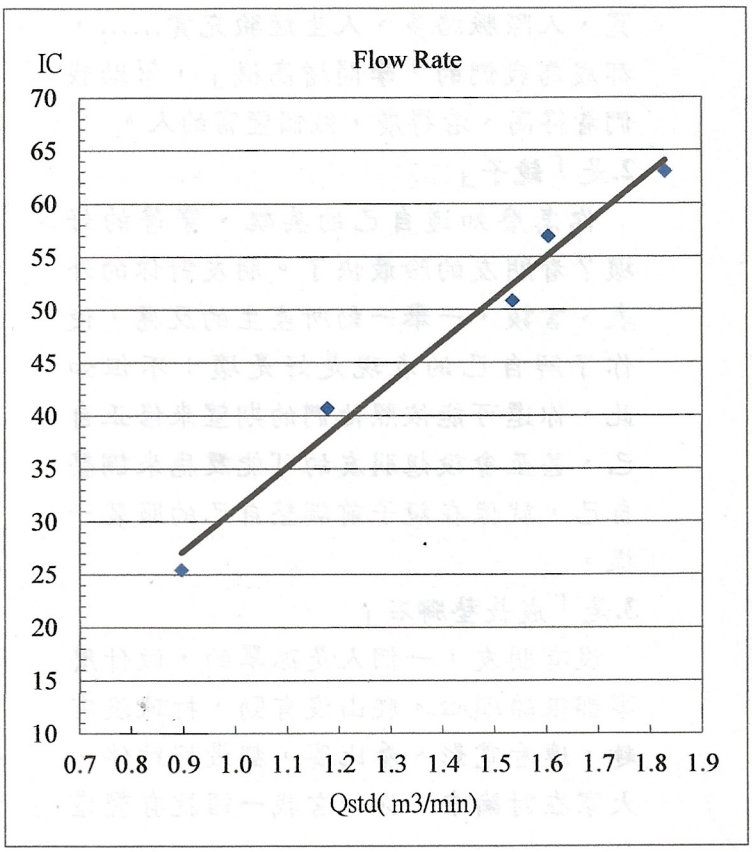
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 2, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 2, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 757.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **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 (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0093	0.7108	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
QSTD	**m=**	**2.08315**	**QA**	**m=**	**1.30443**
	b=	**-0.04938**		**b=**	**-0.03050**
	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 calculations:

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

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

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

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

RECALIBRATION

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

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FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2520194
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 16-MAY-2025
		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 item(s) tested.**
- **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.

ALS Technichem (HK) Pty Ltd
Part of the **ALS Laboratory Group**

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 **www.alsglobal.com**

WORK ORDER : HK2520194
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	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 --------

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

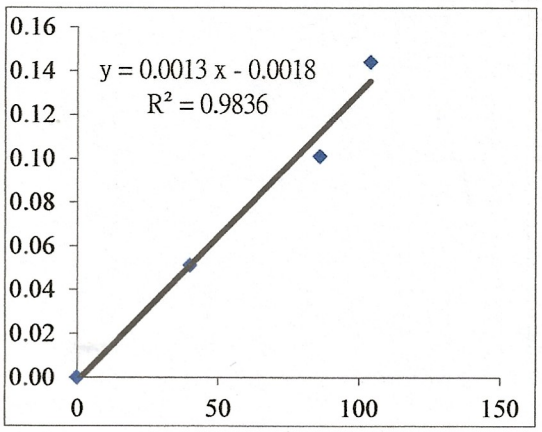
Equipment Verification Results:

Verification Date: 10-May-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (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

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

Operator: P.F.Yeung Signature Date: 15 May 2025

QC Reviewer: K.F.Ho Signature Date: 15 May 2025

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:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H20(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR 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	

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 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)

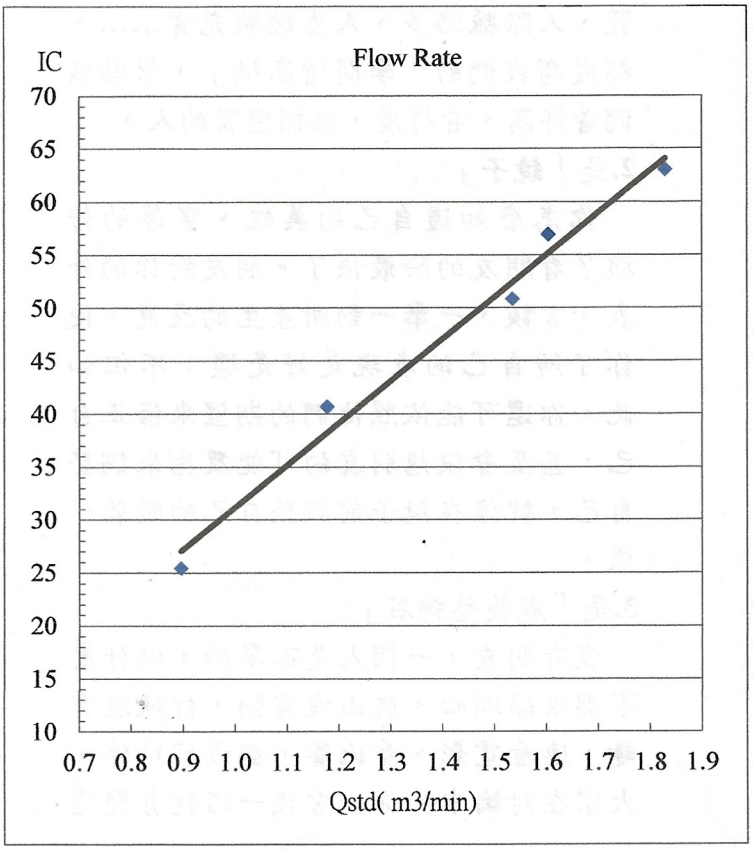
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 2, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 2, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 757.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **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 (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0093	0.7108	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
QSTD	**m=**	**2.08315**	**QA**	**m=**	**1.30443**
	b=	**-0.04938**		**b=**	**-0.03050**
	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 calculations:

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

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

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

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

RECALIBRATION

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FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2520196
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 16-MAY-2025
		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 item(s) tested.
- 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.

ALS Technichem (HK) Pty Ltd
Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER : HK2520196
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	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
E-mail: envirotech@netvigator.com

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

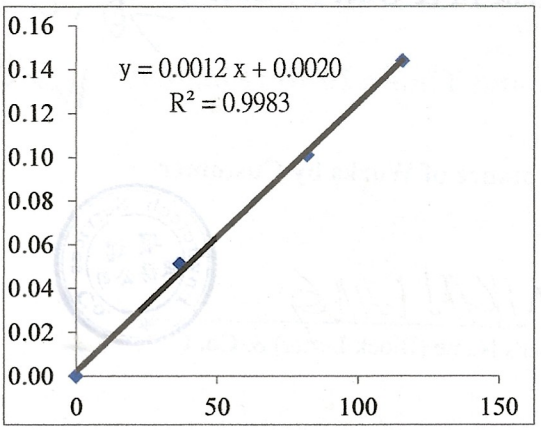
Equipment Verification Results:

Verification Date: 10-May-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (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

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

Operator: P.F.Yeung Signature Faj Date: 15 May 2025

QC Reviewer: K.F.Ho Signature Kat Date: 15 May 2025

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 (^{o}C)	18.0	Temperature (K)	291

CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

CALIBRATION

Plate No.	H2O(L) (in)	H20(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR 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	

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 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)

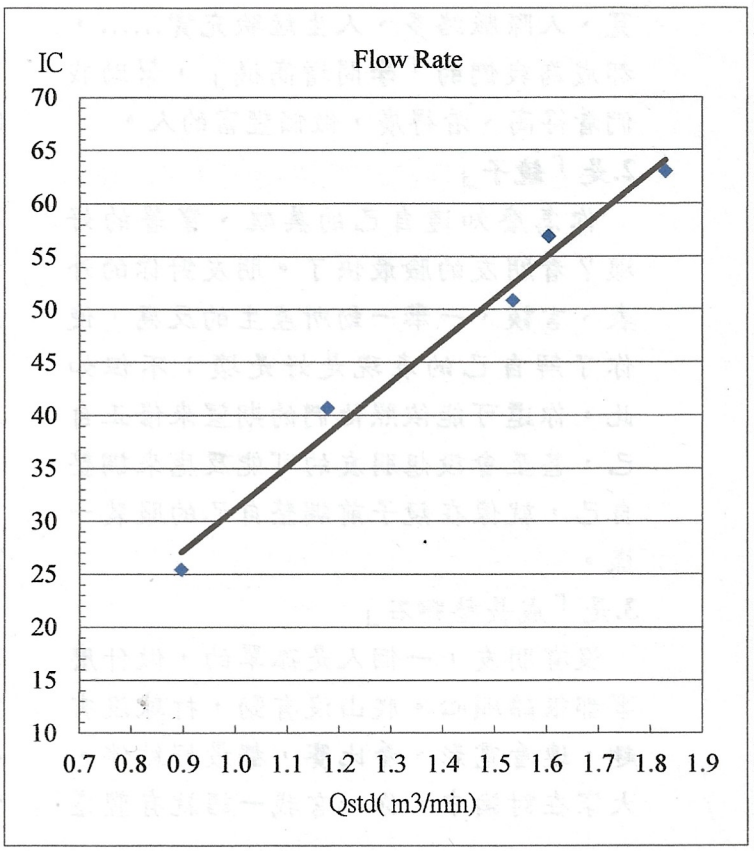
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TISCH Environmental

RECALIBRATION DUE DATE:
December 2, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	December 2, 2024	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 757.4	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **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 (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0093	0.7108	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
QSTD	**m=**	**2.08315**	**QA**	**m=**	**1.30443**
	b=	**-0.04938**		**b=**	**-0.03050**
	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 calculations:

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

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

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

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

RECALIBRATION

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

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

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

聲學測試服務有限公司
Acoustic Testing Services Limited
Unit E, 2/F., Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
Tel: (852) 2690 9126 Fax: (852) 2690 9125 E-mail: info@ATSL.com.hk http://www.ATSL.com.hk

Certificate of Calibration

Certificate No. ATS25-066-CC007

Customer:	**Envirotech Services Company** Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun N.T., Hong Kong
Unit-under-test (UUT):	
Description:	Precision Acoustic Calibrator
Manufacturer:	Larson Davis
Type No.:	CAL 200
Serial No.:	11334
Conditions during calibration:	
Temperature:	26°C
Relative Humidity:	57%
Test Specifications:	Calibration Check
Date of calibration:	20 September 2025
Test Results:	All calibration points are within manufacturer's specification.

Certified by: _____

Mr. Y. T. LEUNG / Technical Manager
MIOA, MHKIOA, MHKIQEP

Issue Date: 20 September 2025

Unit E, 2/F., Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
Tel: (852) 2690 9126 Fax: (852) 2690 9125 E-mail: info@ATSL.com.hk http://www.ATSL.com.hk

1. The instrument under test was allowed to stabilize in the laboratory for over 24 hours.

2. Calibration equipment:

Description:	Sound Analyzer	Reference Microphone
Manufacturer:	Brüel & Kjær	Brüel & Kjær
Type No.:	2270	4189
Serial No.:	3001883	2662797
Last Calibration Date:	11 March 2025	11 March 2025
Certificate No.:	AV250047	AV250047

The calibration equipment used for calibration is traceable to National Standards via Standards and Calibration Laboratory, the Government of the HKSAR.

3. The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted, if any, 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. Acoustic Testing Services Limited shall not be liable for any loss or damage resulting from the use of the equipment.

4. Calibration Results

Nominal value dB	Measured value dB	IEC 60942 Class 1 Tolerance Limits dB	Conclusion	Expanded Measurement Uncertainty of Reference Microphone B&K 4189 at 1000 Hz dB
94.00	94.07	± 0.25	PASS	0.20
114.0	113.76	± 0.25	PASS	0.20

All calibration points are within manufacturer's specification.

聲學測試服務有限公司
Acoustic Testing Services Limited
Unit E, 2/F., Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
Tel: (852) 2690 9126 Fax: (852) 2690 9125 E-mail: info@ATSL.com.hk http://www.ATSL.com.hk

Certificate of Calibration

Certificate No. ATS25-066-CC006

Customer:	**Envirotech Services Company** Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun N.T., Hong Kong

Unit-under-test (UUT):

Description:	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer:	RION	PCB Piezotronics	RION
Type No.:	NL-52	377B02	NH-25
Serial No.:	00643040	172764	21757

Conditions during calibration:

Temperature:	26°C
Relative Humidity:	57%

Test Specifications:	Calibration Check
Date of calibration:	20 September 2025
Test Results:	All calibration points are within manufacturer's specification.

Certified by: _____

Mr. Y. T. LEUNG / Technical Manager
MIOA, MHKIOA, MHKIQEP

Issue Date: 20 September 2025

聲學測試服務有限公司
Acoustic Testing Services Limited
Unit E, 2/F., Century Industrial Centre, 33-35 Au Pui Wan Street, Fo Tan, Shatin, New Territories, Hong Kong
Tel: (852) 2690 9126 Fax: (852) 2690 9125 E-mail: info@ATSL.com.hk http://www.ATSL.com.hk

1. The instrument under test was allowed to stabilize in the laboratory for over 24 hours.

2. Calibration equipment:

Description:	Acoustical Calibrator
Manufacturer & Type:	Brüel & Kjær 4231
Serial No.:	2478237
Last Calibration Date:	18 February 2025
Certificate No.:	AV250027

The calibration equipment used for calibration is traceable to National Standards via Standards and Calibration Laboratory, the Government of the HKSAR.

3. The Sound Analyzer has been calibrated in accordance with the requirements as specified in IEC 61672-1 Class 1, and vendor specific procedures.

4. The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted, if any, 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. Acoustic Testing Services Limited shall not be liable for any loss or damage resulting from the use of the equipment.

5. Calibration Results

Setting of unit-under-test (UUT)				Applied value		UUT Reading, dB	IEC 61672-1 Class 1 Tolerance Limits, dB	Conclusion
Range, dB	Parameter*	Frequency Weighting	Response	Level, dB	Frequency, Hz			
30-130	Overall SPL	A	F	94.00	1000	94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		C	F			94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		L	F			94.0	± 0.7	PASS
			S			94.0	± 0.7	PASS
		A	F	114.00	1000	114.1	± 0.7	PASS
			S			114.1	± 0.7	PASS

* Based on the setting of the UUT, the reading is overall sound pressure level in dB(A), dB(C) & dB.

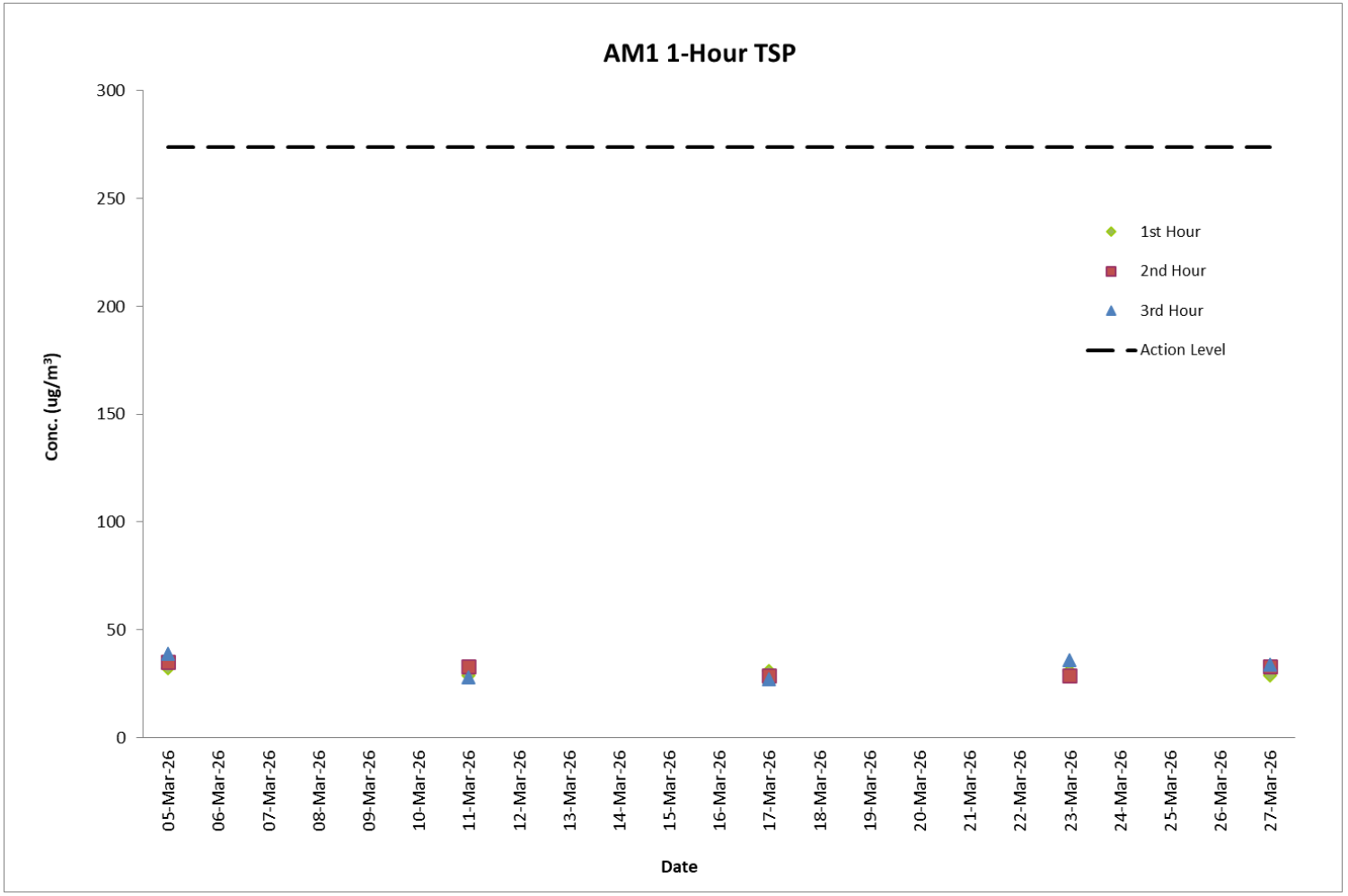
All calibration points are within manufacturer's specification.

G. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time	Conc. (µg/m^3)			Action Level (µg/m^3)	Limit Level (µg/m^3)	Min	Max
			1st Hour	2nd Hour	3rd Hour				
05-Mar-26	Cloudy	8:32 - 11:32	32	35	39	273.7	500	27	39
11-Mar-26	Cloudy	8:31 - 11:31	29	33	28	273.7	500		
17-Mar-26	Cloudy	8:37 - 11:37	31	29	27	273.7	500		
23-Mar-26	Cloudy	8:43 - 11:43	31	29	36	273.7	500		
27-Mar-26	Cloudy	8:30 - 11:30	29	33	34	273.7	500		

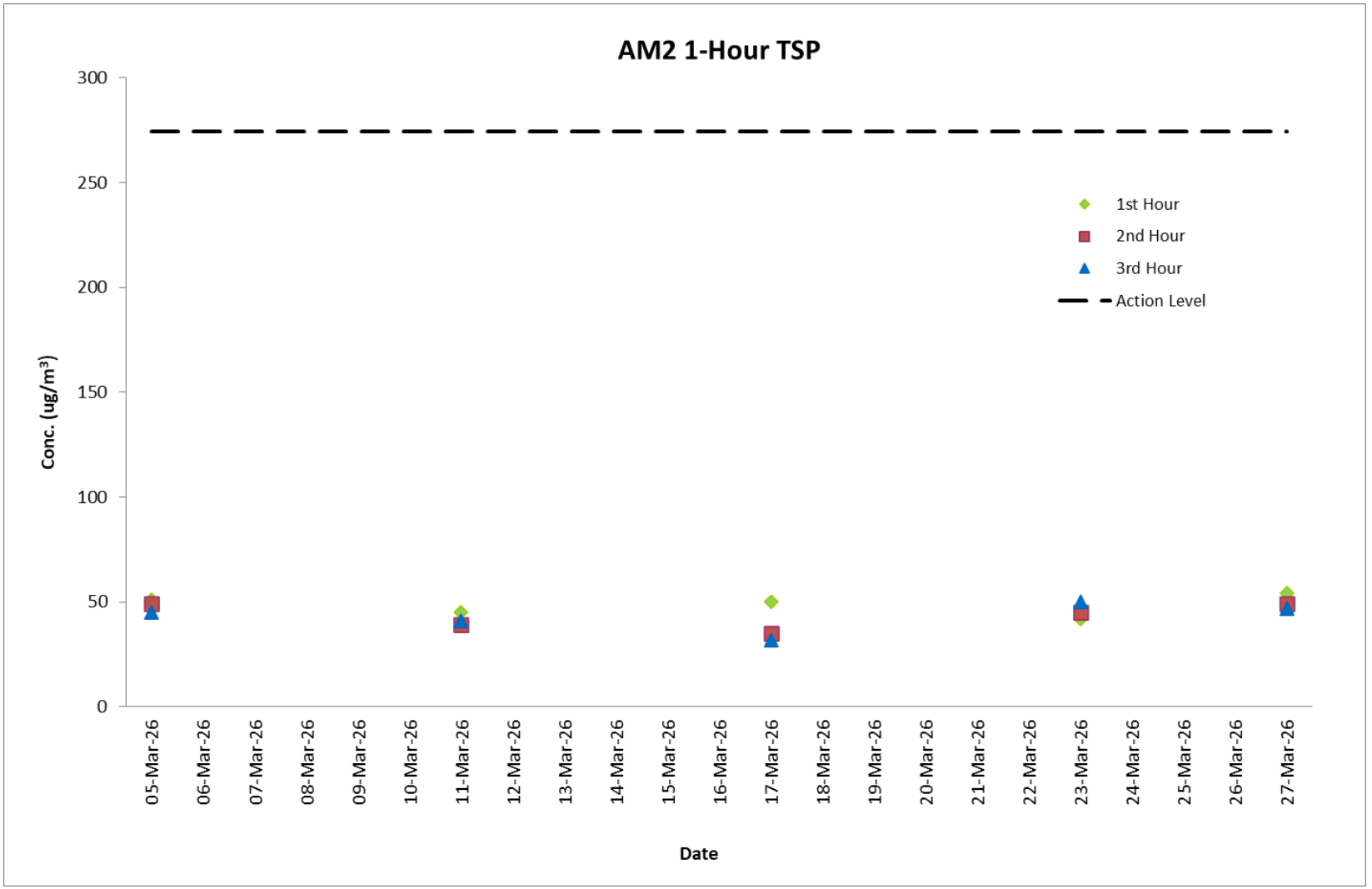
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

Date	Weather Condition	Time	Conc. (μg/m^3)			Action Level (μg/m^3)	Limit Level (μg/m^3)	Min	Max
			1st Hour	2nd Hour	3rd Hour				
05-Mar-26	Cloudy	8:47 - 11:47	51	49	45	274.2	500	32	54
11-Mar-26	Cloudy	8:47 - 11:47	45	39	41	274.2	500		
17-Mar-26	Cloudy	8:53 - 11:53	50	35	32	274.2	500		
23-Mar-26	Cloudy	8:59 - 11:59	42	45	50	274.2	500		
27-Mar-26	Cloudy	8:47 - 11:47	54	49	47	274.2	500		

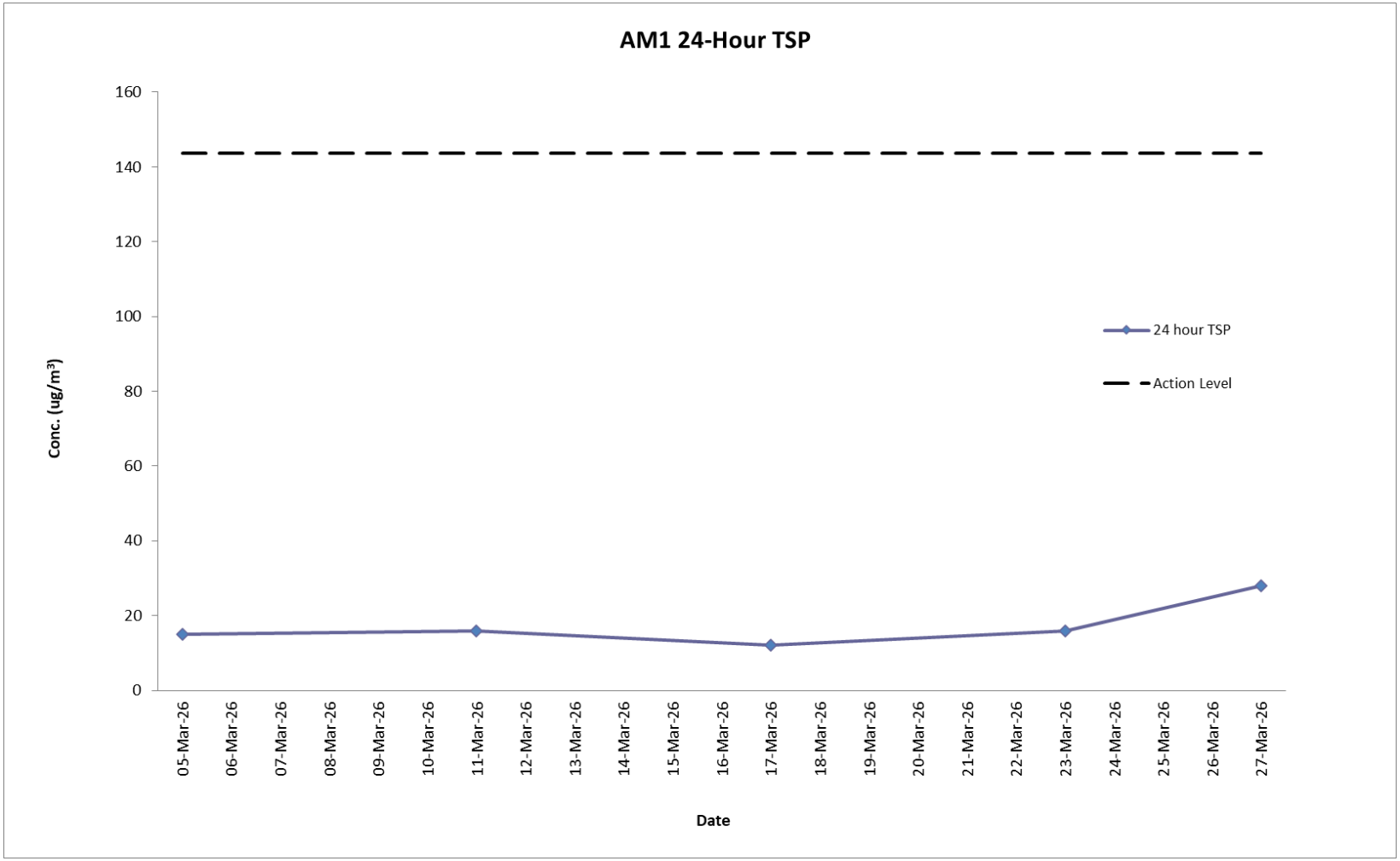
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m^3/min)			Conc. ($\mu g/m^3$)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
05-Mar-26	08:30	06-Mar-26	08:30	2.7650	2.7920	30964.38	30988.38	24	1.26	1.26	1.26	15	Cloudy	143.6	260
11-Mar-26	08:29	12-Mar-26	08:29	2.7610	2.7906	30988.38	31012.38	24	1.26	1.26	1.26	16	Cloudy	143.6	260
17-Mar-26	08:35	18-Mar-26	08:35	2.7665	2.7875	31012.38	31036.38	24	1.26	1.26	1.26	12	Cloudy	143.6	260
23-Mar-26	08:41	24-Mar-26	08:41	2.7762	2.8057	31036.38	31060.38	24	1.26	1.26	1.26	16	Cloudy	143.6	260
27-Mar-26	08:28	28-Mar-26	08:28	2.7708	2.8219	31060.38	31084.38	24	1.26	1.26	1.26	28	Cloudy	143.6	260

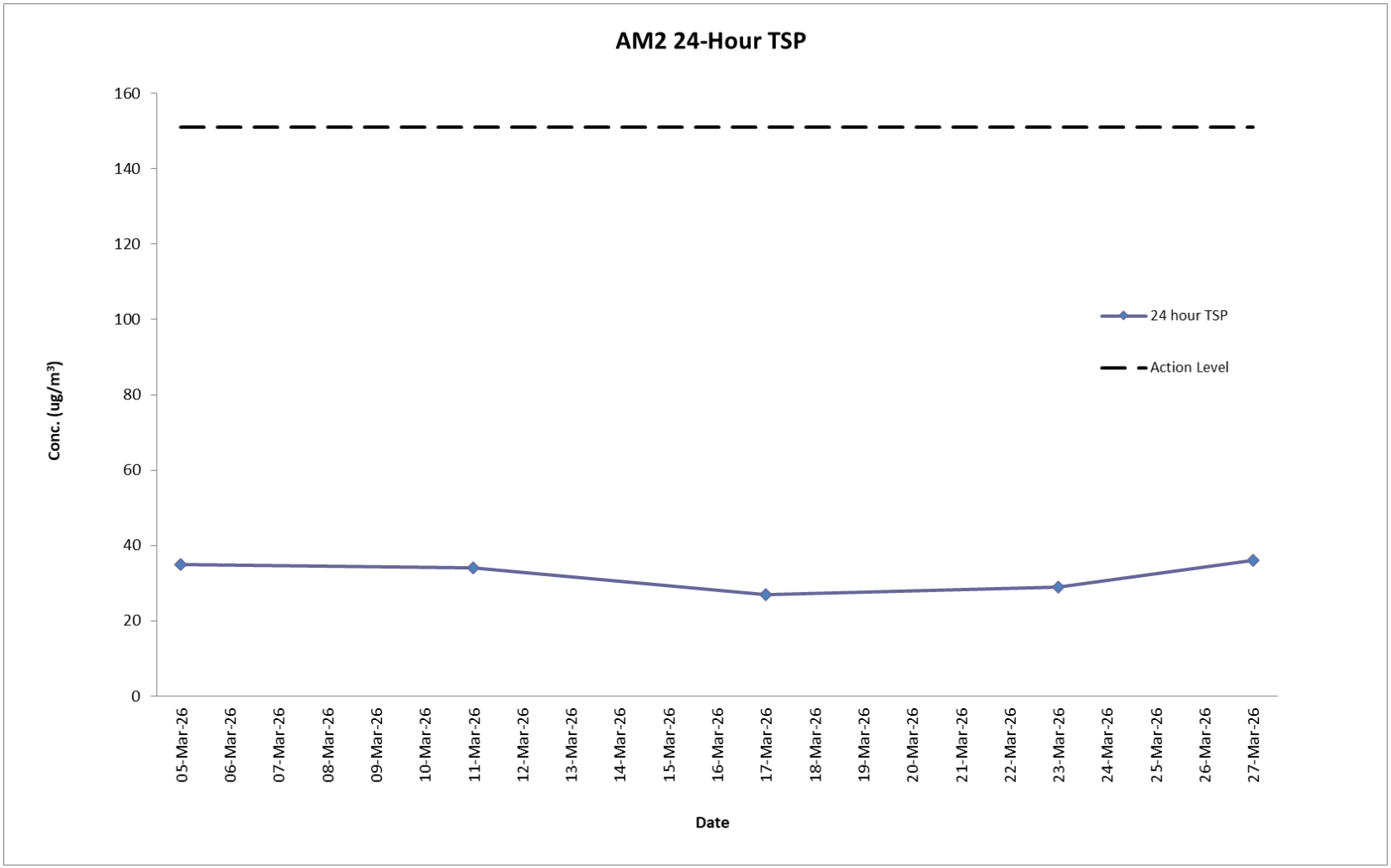
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Start		Finish		Sampling Time (hrs)	Conc. ($\mu g/m^3$)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time					
05-Mar-26	08:45	06-Mar-26	08:45	24	35	Cloudy	151.1	260
11-Mar-26	08:45	12-Mar-26	08:45	24	34	Cloudy	151.1	260
17-Mar-26	08:51	18-Mar-26	08:51	24	27	Cloudy	151.1	260
23-Mar-26	08:57	24-Mar-26	08:57	24	29	Cloudy	151.1	260
27-Mar-26	08:45	28-Mar-26	08:45	24	36	Cloudy	151.1	260

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



Noise Monitoring Result at Station NM1A

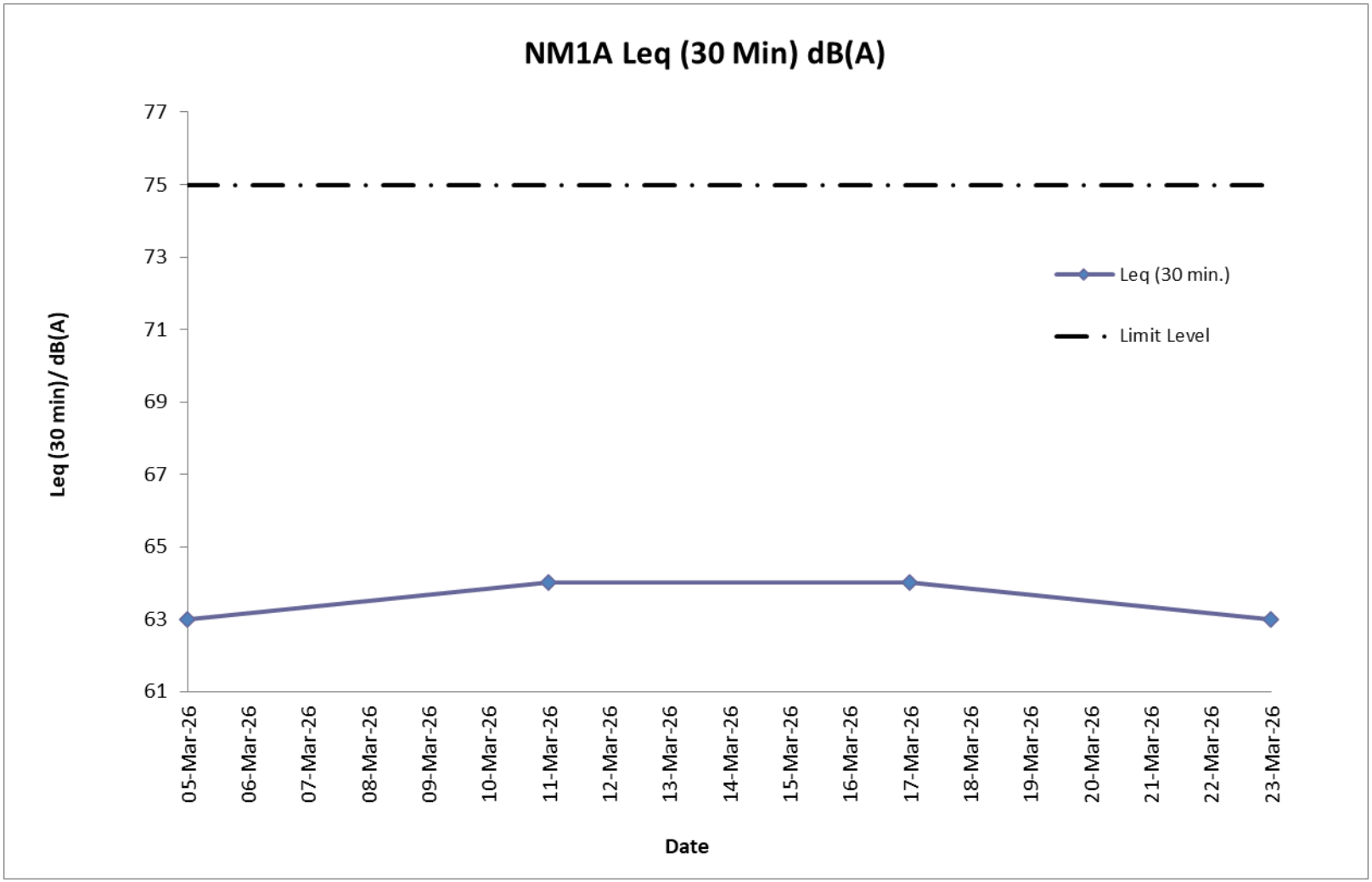
Date	Time	Measured L_{10}, dB(A)	Measured L_{90}, dB(A)	L_{eq} (30 min.)*, dB(A)
05-Mar-26	09:35	61.8	57.0	63
05-Mar-26	09:40	62.9	58.6	
05-Mar-26	09:45	62.2	58.9	
05-Mar-26	09:50	61.5	57.7	
05-Mar-26	09:55	63.0	59.6	
05-Mar-26	10:00	62.7	58.3	
11-Mar-26	09:33	62.7	58.6	64
11-Mar-26	09:38	63.8	59.0	
11-Mar-26	09:43	63.2	59.7	
11-Mar-26	09:48	61.5	57.3	
11-Mar-26	09:53	61.0	57.8	
11-Mar-26	09:58	62.9	58.9	
17-Mar-26	09:39	62.7	58.1	64
17-Mar-26	09:44	63.5	59.0	
17-Mar-26	09:49	61.9	57.9	
17-Mar-26	09:54	63.0	59.4	
17-Mar-26	09:59	62.8	58.8	
17-Mar-26	10:04	63.2	59.7	
23-Mar-26	09:44	61.8	57.0	63
23-Mar-26	09:49	62.2	58.6	
23-Mar-26	09:54	62.9	58.3	
23-Mar-26	09:59	61.0	57.9	
23-Mar-26	10:04	62.5	58.7	
23-Mar-26	10:09	63.7	59.6	

Remarks:

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

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

Graphical Presentation Noise Monitoring Result at Station NM1A

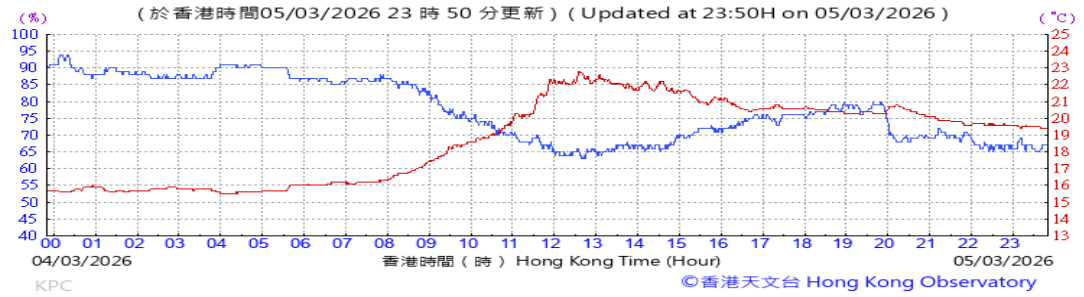


H. Meteorological Data Extracted from Hong Kong Observatory

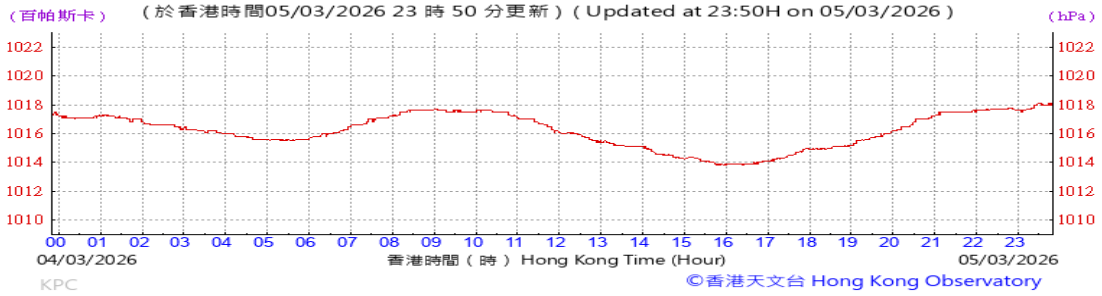
Extract of Meteorological Observations for King's Park Automatic Weather Station

March 2026

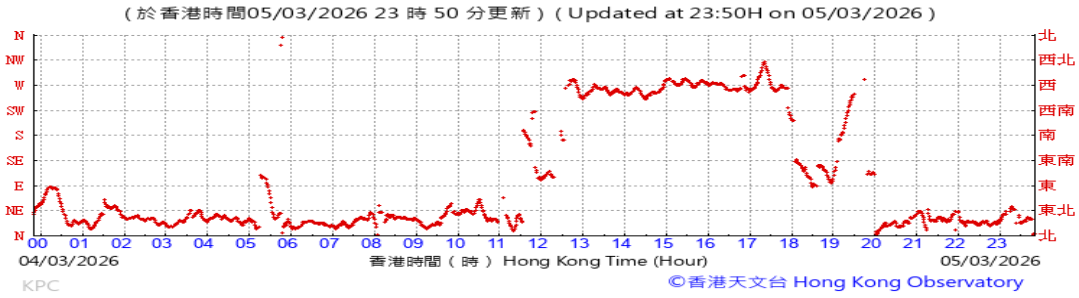
Temperature/Humidity:



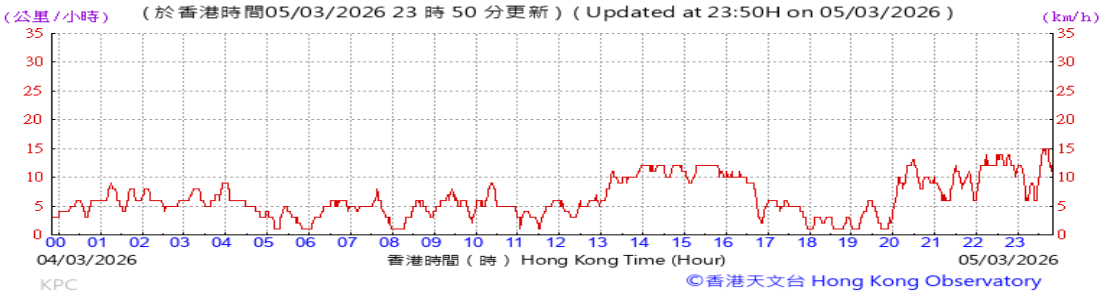
Pressure:



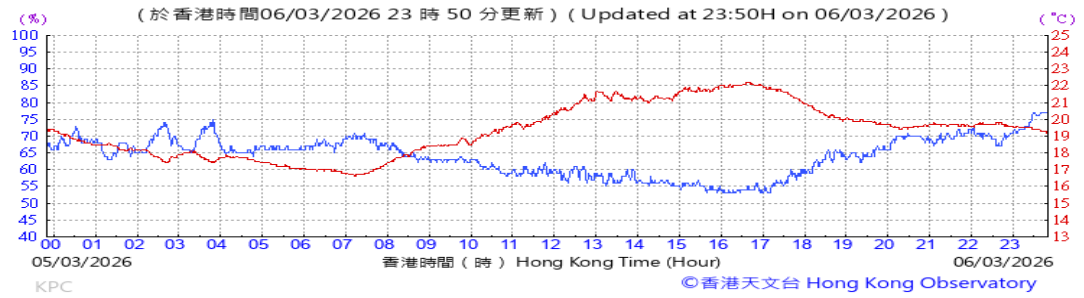
Wind Direction:



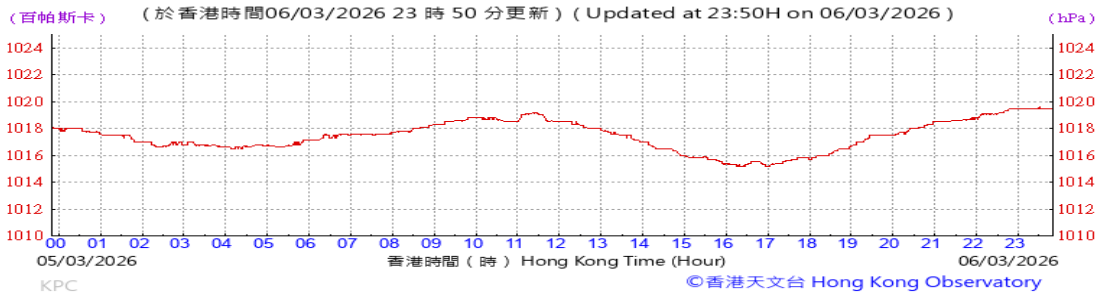
Wind Speed:



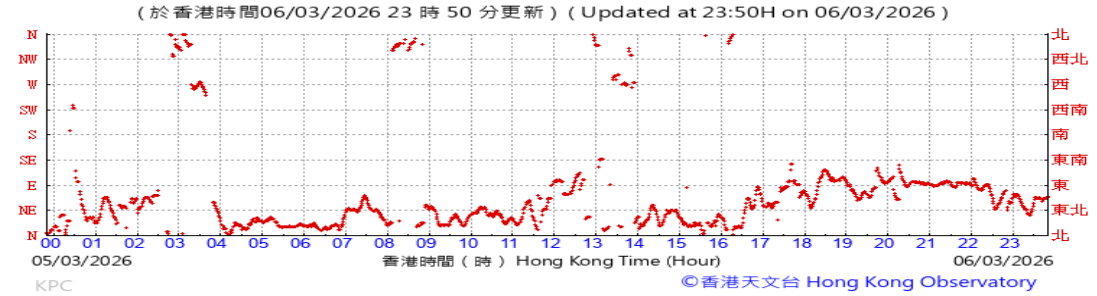
Temperature/Humidity:



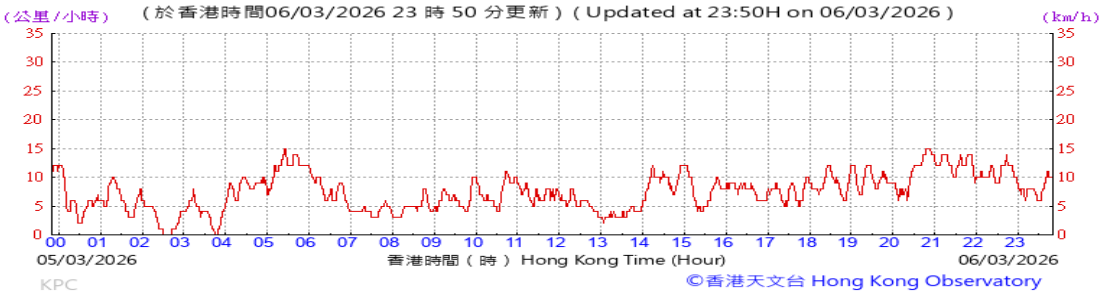
Pressure:



Wind Direction:

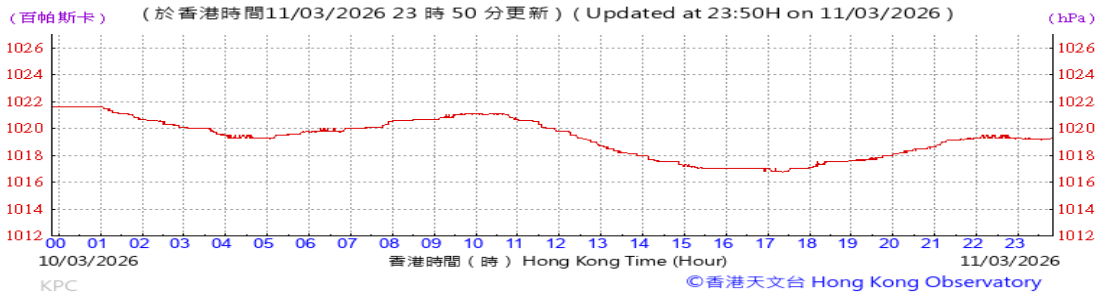


Wind Speed:

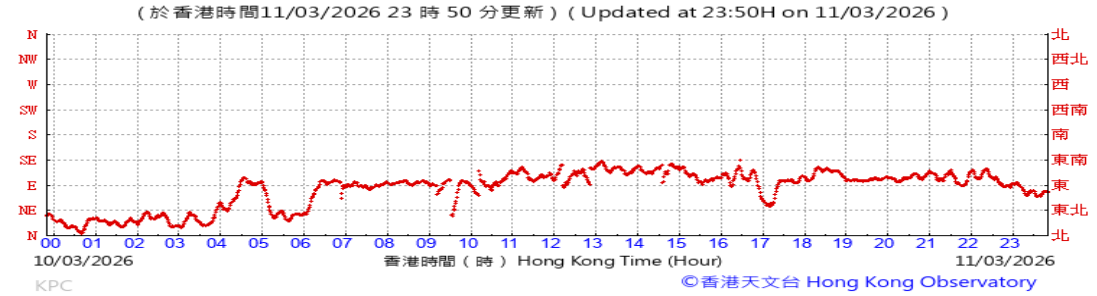


Temperature/Humidity:

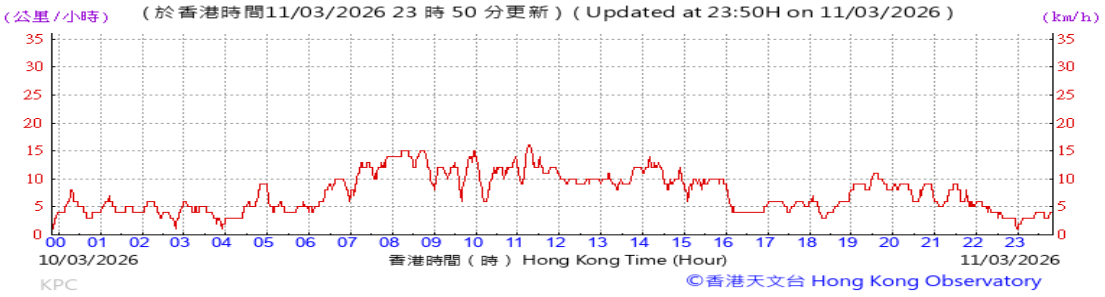
Pressure:



Wind Direction:



Wind Speed:



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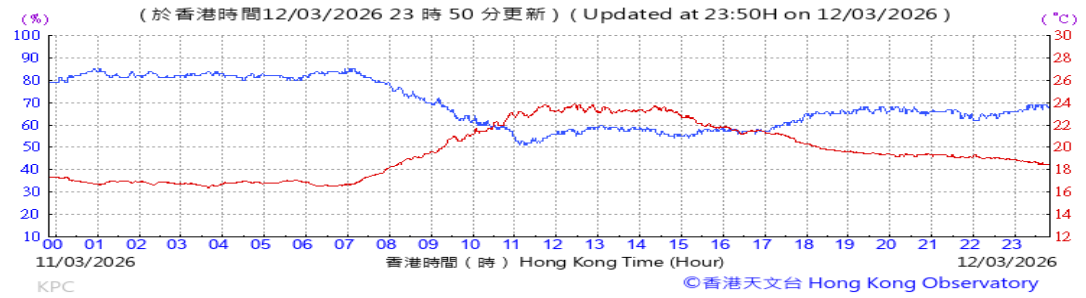

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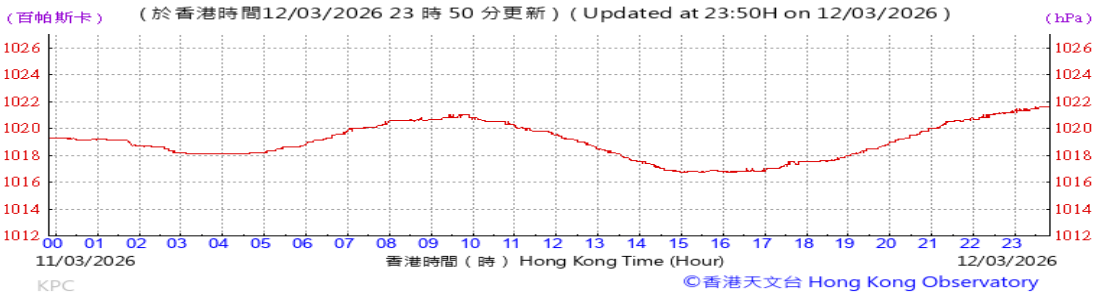

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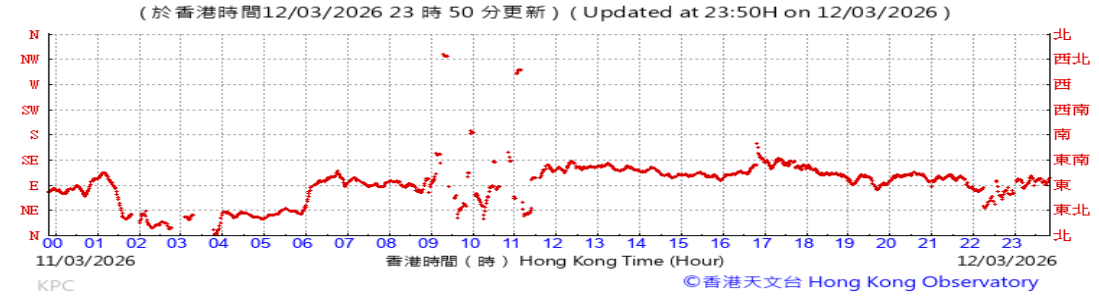

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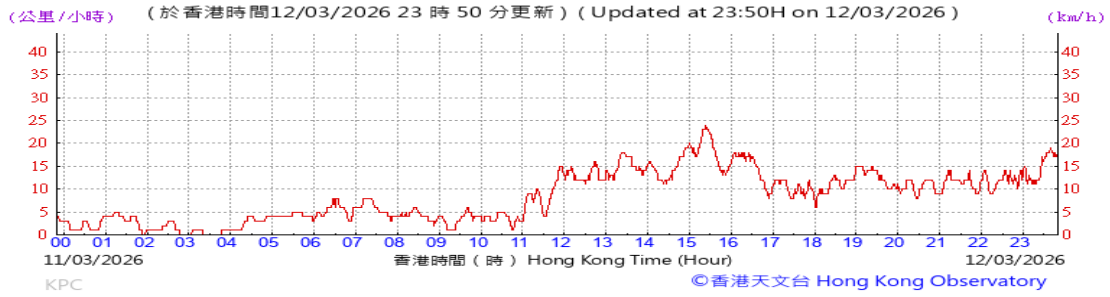

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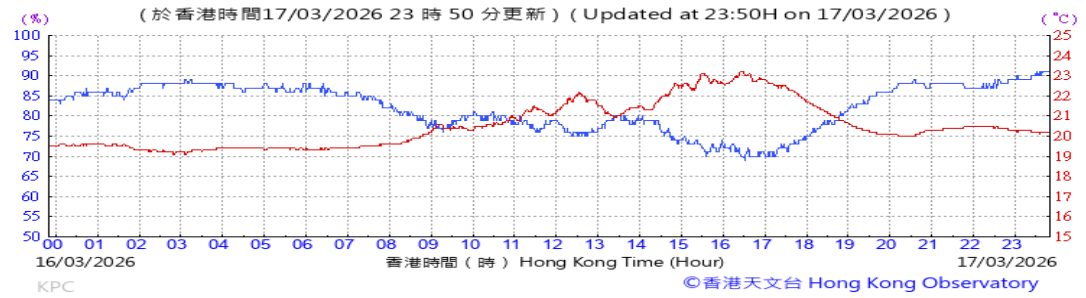

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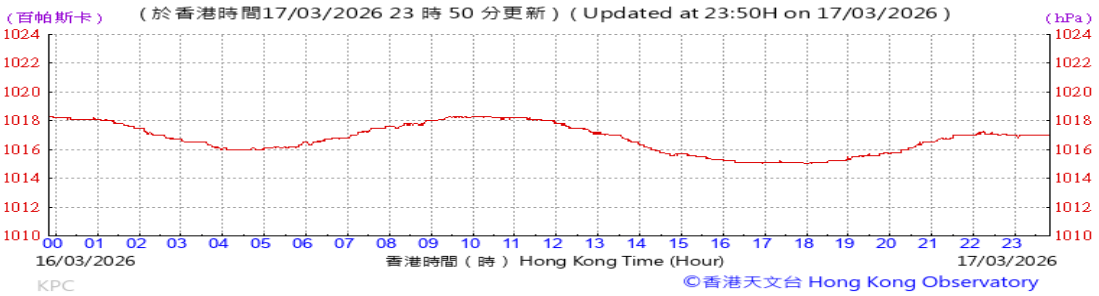

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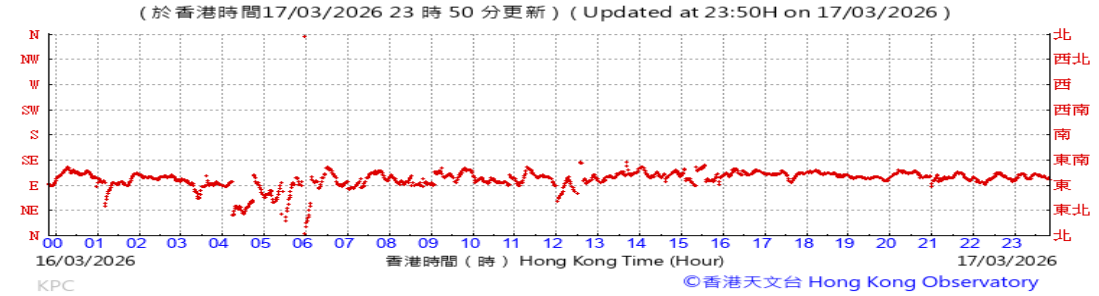

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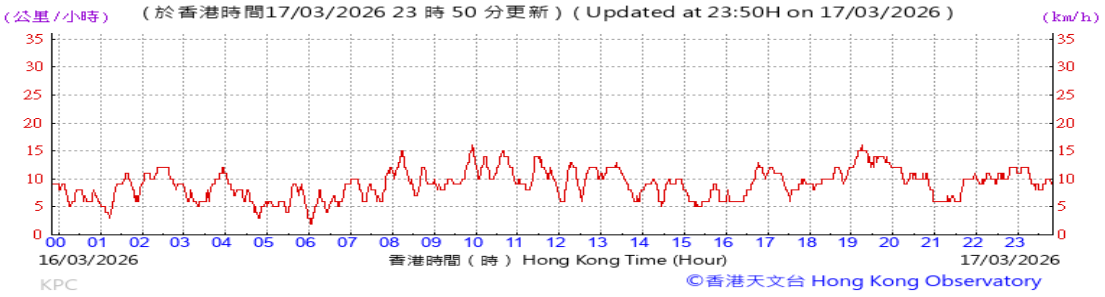

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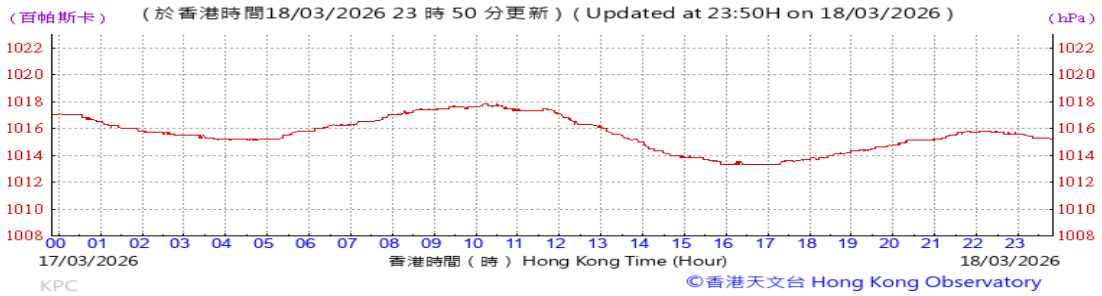

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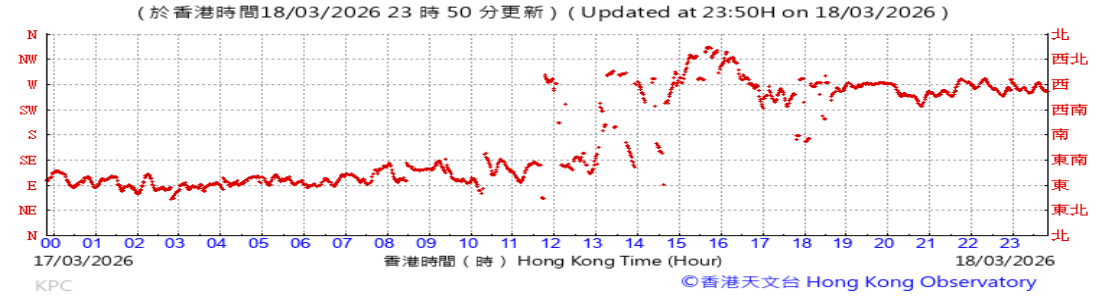

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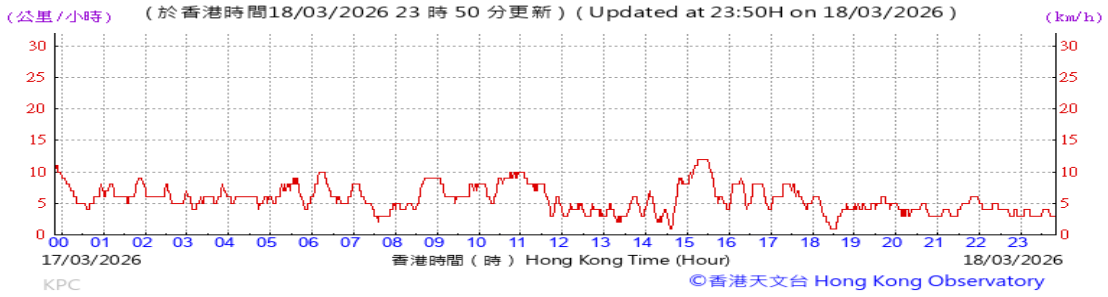

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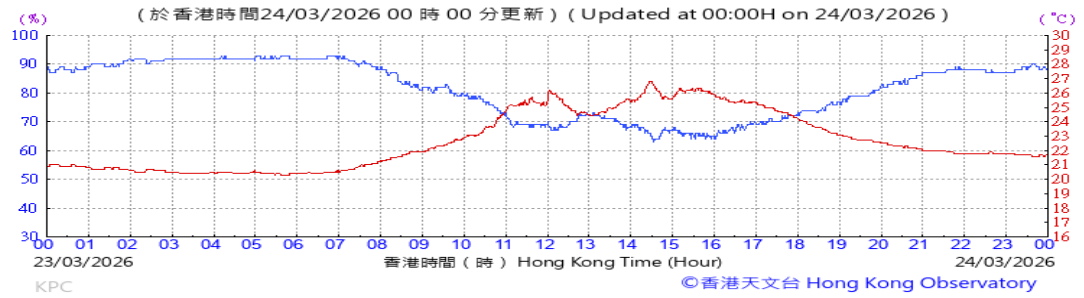

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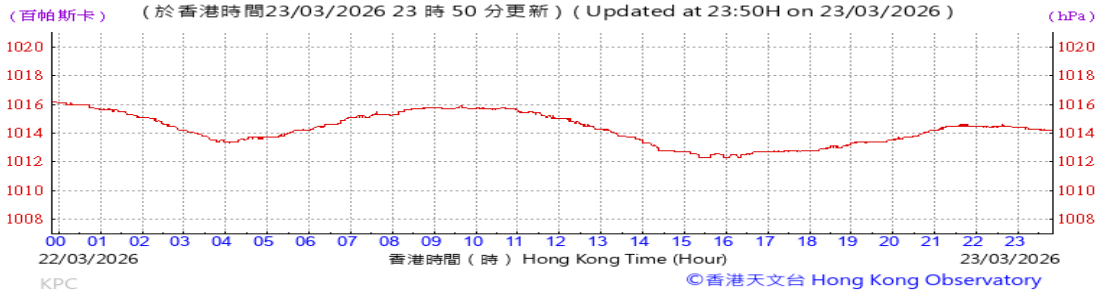

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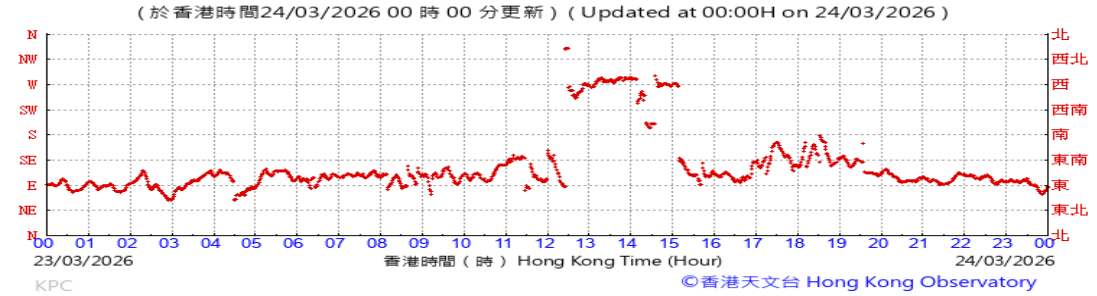

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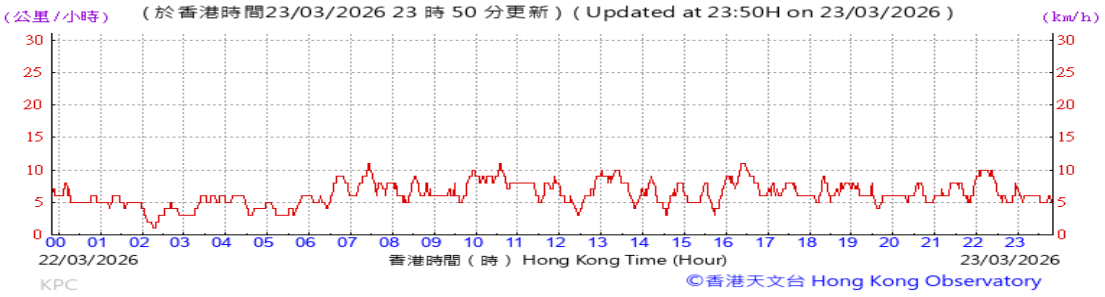

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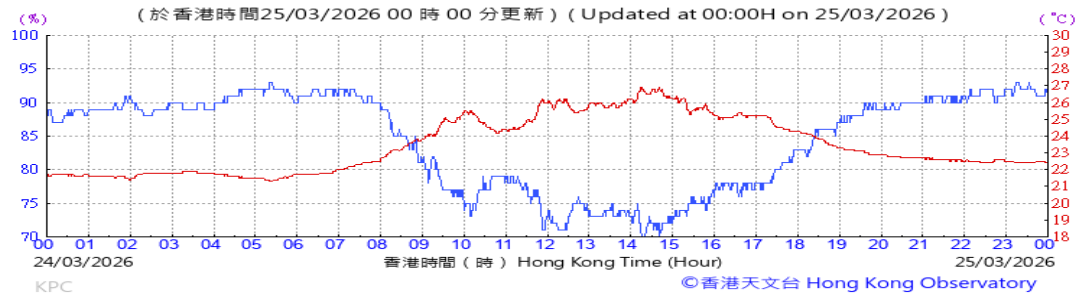

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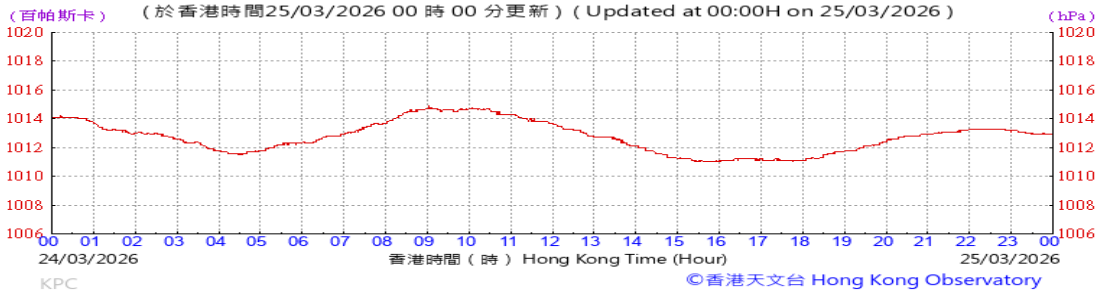

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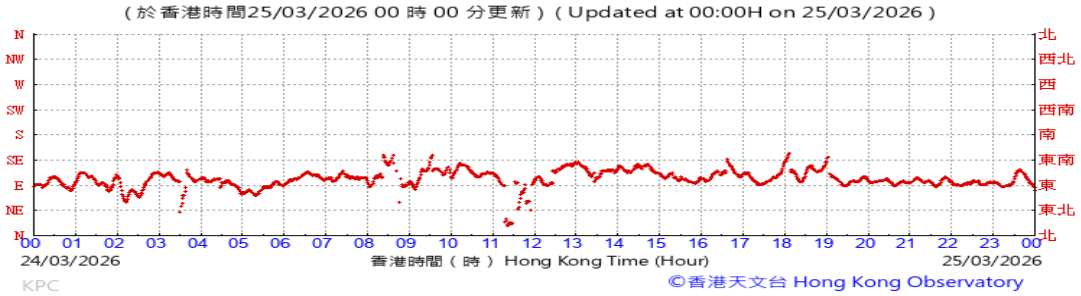

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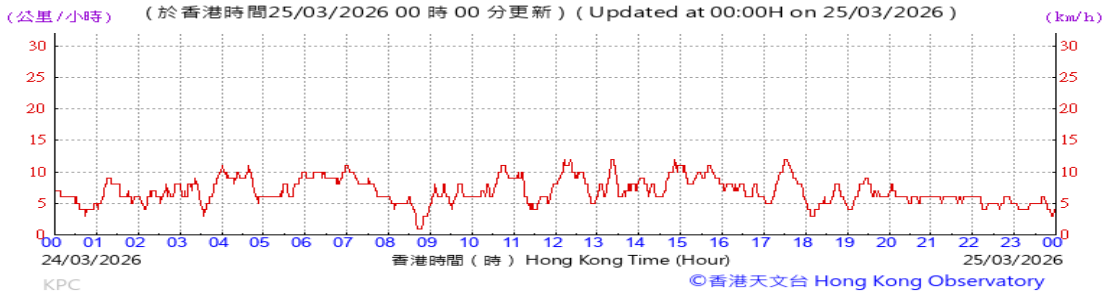

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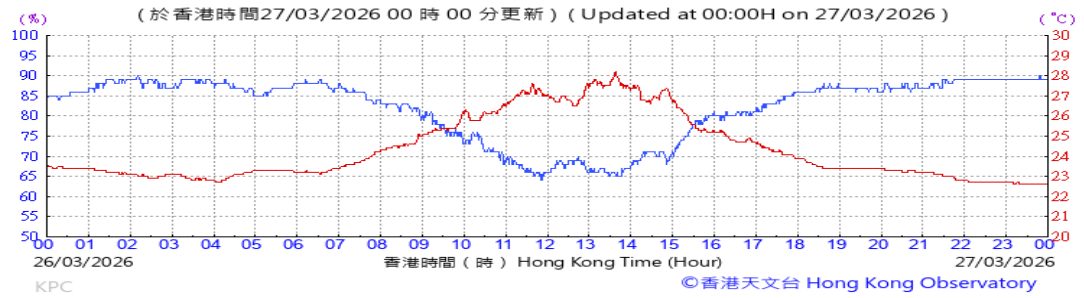

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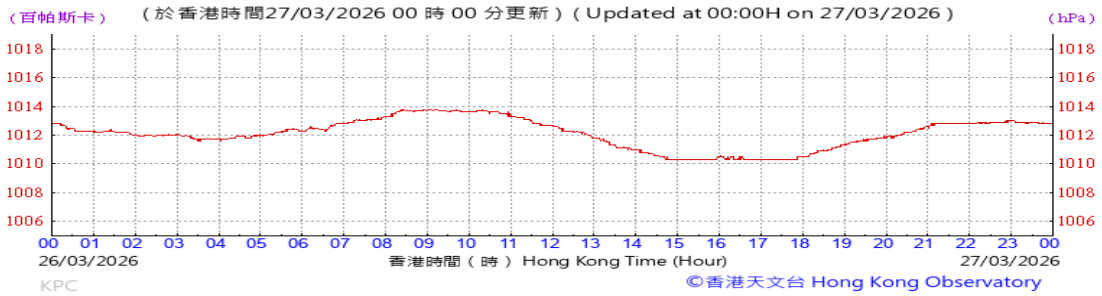

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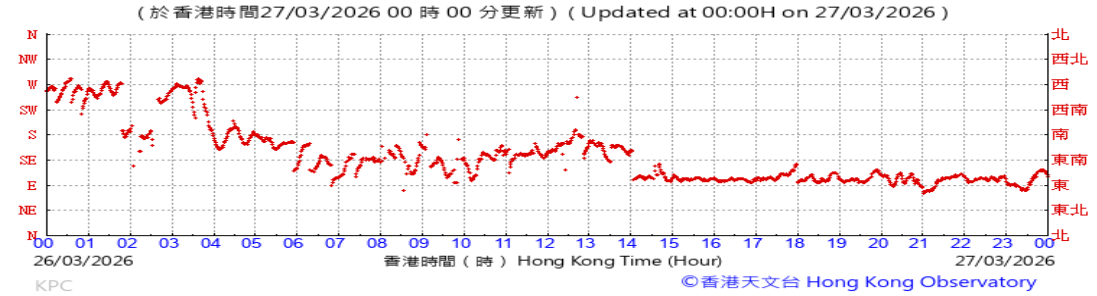

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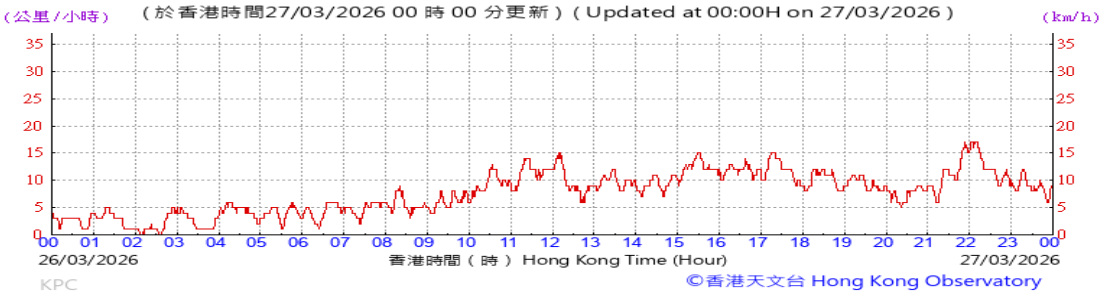

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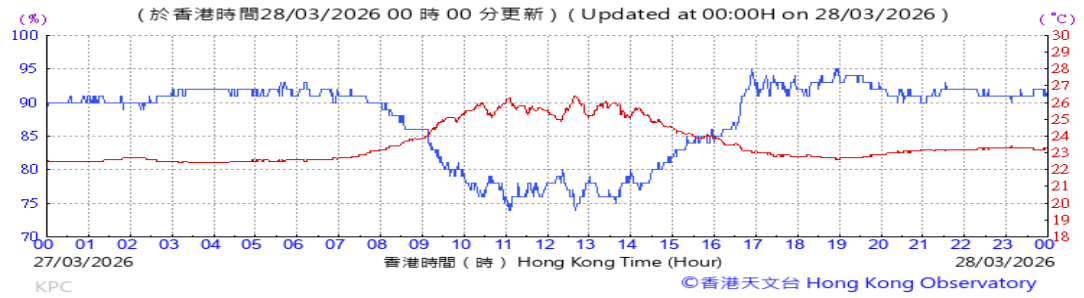

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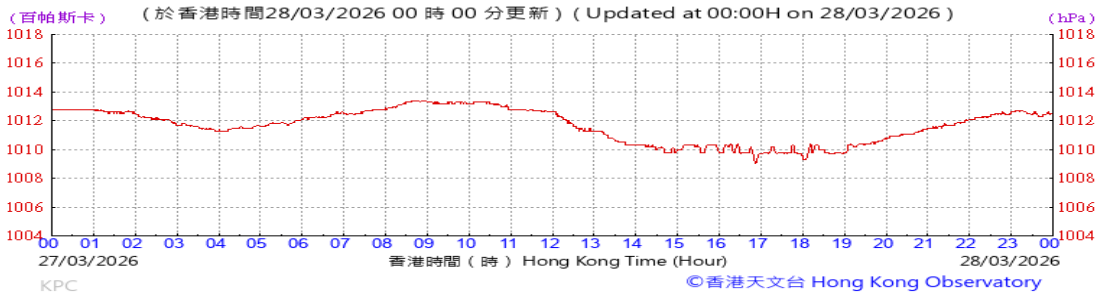
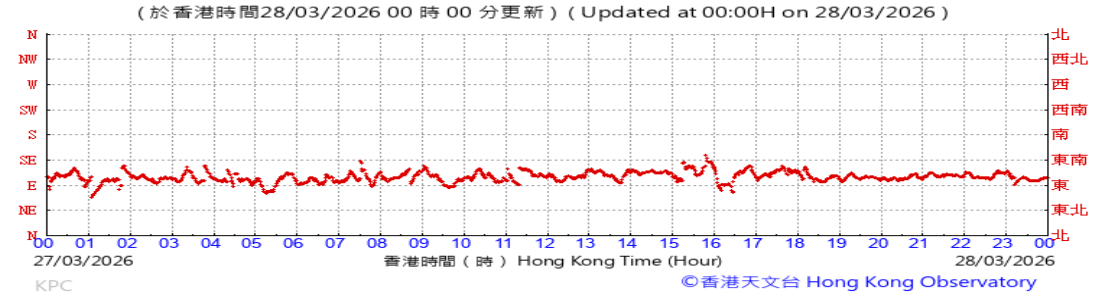


Wind Direction:



Wind Speed:

I. Waste Flow Table

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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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	312.8	0.0	0.0	0.0	307.1	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
Dec	357.1	0.0	0.0	0.0	357.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	628.1
Sub-total (2025)	5934.3	0.0	0.0	0.0	5928.5	5.8	0.0	0.0	2.1	0.0	0.0	0.0	7864.1

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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	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)
2026													
Jan	750.2	0.0	0.0	0.0	750.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	669.2
Feb	188.6	0.0	0.0	0.0	188.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	523.9
Mar	194.8	0.0	0.0	0.0	194.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	897.1
Sub-total (2026)	1133.6	0.0	0.0	0.0	1133.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	2090.1
Total	**1022373.3**	**0.0**	**0.0**	**543635.2**	**477732.4**	**1005.7**	**2301.1**	**13716.7**	**19.5**	**10.8**	**0.0**	**14.9**	**35925.6**

Note:

- 194.80 tonnes, 0.0 tonne 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 (March 2026)

EM&A Ref.	Recommendation Measures	Implementation Stage L2
Air Quality Impact (Construction)		
2.1 & 10.3.1	**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)	✓
2.1 & 10.3.1	**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 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.	✓

EM&A Ref.	Recommendation Measures	Implementation Stage 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 & 10.3.1	**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	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	Implementation Stage 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 Impact (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; • 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 & 10.4.1	**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 & 10.4.1	**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 plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓
3.1 & 10.4.1	**Use of Noise Enclosure/ Acoustic Shed** 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 & 10.4.1	**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.	✓

EM&A Ref.	Recommendation Measures	Implementation Stage L2
3.1 & 10.4.1	**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.	N/A No educational institutions nearby the site.
Water Quality 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.	Obs
	• 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	Implementation Stage 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 & 10.5.1	**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 & 10.5.1	**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 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	Implementation Stage L2
Waste Management Implications (Construction)		
6.1 & 10.7.1	**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	Obs, Rem
	• 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 & 10.7.1	**Waste Reduction Measures**	
	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 & 10.7.1	**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 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.	✓

EM&A Ref.	Recommendation Measures	Implementation Stage 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 & 10.7.1	**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, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended.	✓
6.1 & 10.7.1	**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 & 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	Implementation Stage L2
	• 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;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Stockpiling of contaminated excavated materials on site should be avoided as far as possible;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Truck bodies and tailgates should be sealed to stop any discharge;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• 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;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Speed control for trucks carrying contaminated materials should be exercised;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• 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	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.

EM&A Ref.	Recommendation Measures	Implementation Stage 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	Implementation Stage 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	1	0	0
From 1 March 2016 to end of the reporting month (March 2026)	65	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

APEX TESTING & CERTIFICATION LIMITED
Unit D6A, 10/F, TML Plaza, 3 Hoi Shing Road, Tsuen Wan, N.T.
Hong Kong
Tel: (852) 39733585 Fax: (852) 30079385
Email: info@apextestcert.com

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

Contents

Executive summary 1

1 Introduction 2
- 1.1 Background 2
- 1.2 Project Organisation 2
- 1.3 Construction Works Status in the Reporting Period 2
- 1.4 Summary of EM&A Requirements and Alternative Monitoring Locations 3
  - 1.4.1 EM&A Requirements 3
  - 1.4.2 Alternative Monitoring Locations 3

2 Impact Monitoring Methodology 6
- 2.1 Introduction 6
- 2.2 Air Quality 6
  - 2.2.1 Monitoring Parameters, Frequency and Duration 6
  - 2.2.2 Monitoring Locations 6
  - 2.2.3 Monitoring Equipment 6
  - 2.2.4 Monitoring Methodology 7
- 2.3 Noise 9
  - 2.3.1 Monitoring Parameters, Frequency and Duration 9
  - 2.3.2 Monitoring Location 9
  - 2.3.3 Monitoring Equipment 9
  - 2.3.4 Monitoring Methodology 10
- 2.4 Landscape and Visual 10
  - 2.4.1 Monitoring Program 10

3 Monitoring Results 11
- 3.1 Impact Monitoring 11
- 3.2 Air Quality Monitoring 11
  - 3.2.1 1-hour TSP 11
  - 3.2.2 24-hour TSP 11
- 3.3 Noise Monitoring 12
- 3.4 Landscape and Visual Impact 13

4 Site Environmental Management 14
- 4.1 Site Inspection 14
  - 4.1.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) 14
- 4.2 Advice on the Solid and Liquid Waste Management Status 15
  - 4.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) 16
- 4.3 Status of Environmental Licenses and Permits 16
  - 4.3.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) 16

4.4 Recommended Mitigation Measures 16
4.4.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) 17

5 Compliance with Environmental Permit 18

6 Report in Non-compliance, Complaints, Notification of Summons and Successful Prosecutions 19
6.1 Record on Non-compliance of Action and Limit Levels 19
6.2 Record on Environmental Complaints Received 19
6.3 Record on Notifications of Summons and Successful Prosecution 20

7 Future Key Issues 21
7.1 Construction Works for the Coming Month(s) 21
7.2 Key Issues for the Coming Month 21
7.2.1 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) 21
7.3 Monitoring Schedule for the Coming Month 21

8 Conclusions and Recommendations 22
8.1 Conclusions 22
8.2 Recommendations 22

Figure 1 Site Layout Plan and Monitoring Stations 23

Appendices 24

A. Project Organisation 25

B. Tentative Construction Programme 26

C. Action and Limit Levels for Construction Phase 27

D. Event and Action Plan for Air Quality, Noise, Landscape and Visual Impact 28

E. Monitoring Schedule 29

F. Calibration Certifications 30

G. Graphical Plots of the Monitoring Results 31

H. Meteorological Data Extracted from Hong Kong Observatory 32

I. Waste Flow table 33

J. Environmental Mitigation Measures – Implementation Status 34

K. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions 35

Executive summary

This Monthly EM&A Report presents the monitoring works at Zones 2A, 2B & 2C from 01 to 31 March 2026.

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 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. No adverse comment on landscape and visual aspects was made during these inspections.

Record of Complaints

One 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 Zones 2A, 2B & 2C scheduled to be commissioned in the coming month include:

- Jet Grouting Works
- Temporary Steel Platform
- ELS Work
- Operation of barging point
- Hoarding Work

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 31 March 2026. 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:

- Jet Grouting Works
- Temporary Steel Platform

- ELS Work
- Operation of barging point

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
Air Quality	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
	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
Noise	Leq, 30 minutes	NM2-The Arch, Sun Tower	Weekly
	Leq, 30 minutes	NM3-The Victoria Towers Tower 1	Weekly
	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.

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 m^3/min. The range specified in the EM&A Manual was between 0.6-1.7 m^3/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 (0700-1900 hours)	L_{eq}(30 min), L_{90}(30 min) & L_{10}(30 min)	Once every week

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

Equipment Model	
Integrating Sound Level Meter	**Calibrator**
AWA5661 (Serial No.: 301135)	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: 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}, L_{10} and L_{90} 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 Station	Monitoring Date	Start Time	1-hour TSP (μg/m3)			Range (μg/m3)	Action Level (μg/m3)	Limit Level (μg/m3)
			1st Result	2nd Result	3rd Result			
AM3A	02-Mar-26	7:00	37	39	35	31-54	280.4	500
	07-Mar-26	13:04	36	36	44			
	13-Mar-26	7:02	49	43	46			
	19-Mar-26	13:05	45	40	47			
	25-Mar-26	7:01	54	47	54			
	31-Mar-26	13:03	36	35	31			
AM4A	02-Mar-26	7:08	35	34	37	32-53	278.5	500
	07-Mar-26	13:12	44	41	44			
	13-Mar-26	7:10	47	50	42			
	19-Mar-26	13:13	40	43	41			
	25-Mar-26	7:09	49	52	53			
	31-Mar-26	13:11	33	38	32			
AM5A	02-Mar-26	7:23	40	35	40	31-54	275.4	500
	07-Mar-26	13:29	43	41	35			
	13-Mar-26	7:25	51	51	49			
	19-Mar-26	13:30	40	43	43			
	25-Mar-26	7:24	48	54	52			
	31-Mar-26	13:28	37	31	38			

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/m^3)	Range (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
AM3A	02-Mar-26	10:00	33	31-50	152.4	260
	07-Mar-26	10:00	35			
	13-Mar-26	10:00	44			
	19-Mar-26	10:00	40			
	25-Mar-26	10:00	50			
	31-Mar-26	10:00	31			
AM4A	02-Mar-26	10:00	31	31-49	152.6	260
	07-Mar-26	10:00	37			
	13-Mar-26	10:00	44			
	19-Mar-26	10:00	40			
	25-Mar-26	10:00	49			
	31-Mar-26	10:00	31			
AM5A	02-Mar-26	10:00	34	33-48	141.1	260
	07-Mar-26	10:00	36			
	13-Mar-26	10:00	45			
	19-Mar-26	10:00	39			
	25-Mar-26	10:00	48			
	31-Mar-26	10:00	33			

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

Monitoring Stations	Monitoring Date	Start Time	End Time	L_{eq} (30 mins) dB(A)	Limit Level for L_{eq} (dB(A))
NM2A	02-Mar-26	07:00	07:30	62.8	75
	07-Mar-26	13:04	13:34	62.9	
	13-Mar-26	07:02	07:32	62.8	
	19-Mar-26	13:05	13:35	62.6	
	25-Mar-26	07:01	07:31	62.5	
	31-Mar-26	14:02	14:32	62.9	
NM3A	02-Mar-26	08:30	09:00	61.2	75
	07-Mar-26	14:25	14:55	60.6	
	13-Mar-26	08:32	09:02	60.6	
	19-Mar-26	14:21	14:51	61.2	
	25-Mar-26	08:31	09:01	60.6	

	31-Mar-26	15:18	15:48	60.4	
NM4A	02-Mar-26	10:35	11:05	58.1	70/65^#
	07-Mar-26	15:00	15:30	58.4	
	13-Mar-26	10:37	11:07	58.4	
	19-Mar-26	14:56	15:26	58.3	
	25-Mar-26	10:36	11:06	58.4	
	31-Mar-26	15:53	16:23	58.2	
NM5A*	02-Mar-26	07:50	08:20	63.7	75
	07-Mar-26	13:44	14:14	63.4	
	13-Mar-26	07:52	08:22	63.6	
	19-Mar-26	13:43	14:13	63.6	
	25-Mar-26	07:51	08:21	63.5	
	31-Mar-26	14:40	15:10	63.7	

Remarks:
* +3dB (A) correction was applied to free-field measurement.
^ 70 dB(A) for schools and 65 dB(A) during school examination periods.
# School examination was conducted on 19, 20, 23 and 24 March 2026 during reporting period.

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 4, 18 and 31 March 2026 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**.

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 04, 11, 18, 25 and 31 March 2026 at Zones 2A, 2B & 2C. The joint site inspection with IEC, ET, ER and Contractor for Zones 2A, 2B & 2C was held on 11 March 2026. 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)
04-Mar-26	Noise Impact & Water Quality & Waste Management	The contractor was reminded that noise barriers shall be hanged up properly.	Noise barrier was hanged up.	09-Mar-26
		The contractor was reminded to clean up the deposited silt and water to avoid any potential leakage overflow.	Deposited silt and water was removed and pumps were deployed.	
		The contractor was reminded that waste shall be frequently dispose to appropriate facility and to avoid accumulation on site which may lead to hygiene problems.	General refuse was disposed regularly.	
11-Mar-26	Air Quality & Other	The contractor was reminded that dusty materials on site shall be entirely covered by impervious sheeting.	Dusty material was covered.	16-Mar-26
		The contractor was reminded to seal the holes of water-filled barriers, cover or invert containers prone to water accumulation to avoid mosquito.	Holes were sealed.	

Inspection Date	Parameter	Observation / Recommendation	Contactor's Responses / Action(s) Undertaken	Close-out (Date)
18-Mar-26	Air Quality & Waste Management & Other	The contractor was reminded that dust suppression measures shall be strengthen at the access road and construction area to minimize dust impact.	The access road was maintained in wet condition.	20-Mar-26
		The contractor was reminded to have better housekeeping and dispose of refuse frequently at designed areas.	General refuse was collected and disposed.	
		The contractor was reminded that drainage holes in the H-beam should be cleared to prevent water stagnant.	Drainage hole was cleaned and water was drained.	
25-Mar-26	Air Quality & Other	The contractor was reminded that an appropriate amount of water should be sprayed in areas prone to dust generation prior to transporting dusty waste.	Water spaying was conducted dusty work.	30-Mar-26
		The contractor was reminded that stagnant water in material storage area should be cleaned regularly.	Stagnant water accumulated inside the material is removed.	
31-Mar-26	Waste Management & Water Quality	The contractor was reminded that waste shall be frequently dispose to appropriate facility and to avoid accumulation on site which may lead to hygiene problems.	General refuse was disposed.	02-Apr-26
		The contractor was reminded to have better housekeeping and dispose of refuse frequently at designed areas.	General refuse was disposed.	
		The contractor was reminded that proper notification should be displayed to ensure only proper discharge is allowed.	Notice was displayed.	

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, 26000.83 tonne and 0.0 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 69.95 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 on site. 13298.43 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. 142.38 tonne of inert C&D material was disposed to sorting facility and 0.00 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 No./ Notification / Reference No.	Valid Period		Status	Remarks
	From	To		
Chemical Waste Producer Registration				
WPN5117-256-V1011-40	11-Jul-24	--	Valid	--
Marine Dumping Permit				
EP/MD/26-007	19-Jan-26	18-Jul-26	Valid	--
EP/MD/26-008	19-Jan-26	18-Apr-26	Valid	--
Billing Account Construction Waste Disposal				
7051739	01-Aug-24	--	Account Active	--
Construction Noise Permit				
GW-RE1203-25	01-Oct-25	31-Mar-26	Valid	--
GW-RE0222-26	16-Mar-26	15-Sep-26	Valid	--
GW-RE0284-26	16-Mar-26	15-Sep-26	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 dispose of refuse frequently at designed areas to avoid accumulation on site which may lead to hygiene problem.

Water Quality

- Chemical drum shall only be stored in designated areas which have pollution prevention facilities or drip trays with adequate capacity.
- Open stockpiles of construction materials or construction waste on-site shall be covered with tarpaulin or removed.

Noise Impact

- The noise barriers shall be hanged up.
- Noise insulating fabric shall be adopted for certain PME.

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 February 2026	13 March 2026

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

One environmental complaint was received in the reporting month.

On 2 March 2026, the WKCDA referred a complaint case received via hotline on 1 Mar 2026 regarding noise disturbance caused by ongoing construction work near Artist Square Bridge from 9 a.m. on 1 March 2026. The Complaint enquired about the duration of construction work, whether a permit has been obtained from Environmental Protection Department as the construction activity is carrying out on Sunday, whether it will continue every Sunday, and the contact point of the construction site.

Further to the complaint email received on 02 March 2026, investigation was carried out at WKCD Zone 2A, 2B & 2C site. According to the message from the complaint, noise nuisance from construction site near Artist Square Bridge was observed starting from 9am on 01 March 2026. During the inspection after received the enquiry, it was found that cleansing work at grouting station in Zone 2C near Zone 3 conducted on 1 Mar 2026. After reviewing the concerned site activities, the cleansing works was originally meant to be conducted with water jet and brushes only, however, the workers found certain valve or joint stuck and they tried to overcome, and so caused the noise nuisance.

To minimize the environmental impacts to the surrounding, number of mitigation measures were implemented. After notification of the complaint, immediate actions have been taken on site to improve the noise control and mitigation measures. In addition, as preventive measure, machinery shall be rinsed immediately after use to avoid the components got stuck, and the noisy cleansing work at grout station is now prohibited to be conducted in restricted hours. Noise monitoring at NM2A (The Arch - Sun Tower, G/F), NM3A (Xiqu Centre, G/F), AM4A (Next to Tsim Sha Tsui Fire Station, G/F), and NM5A (Pedestrian road outside West Kowloon Station, G/F) monitoring stations had been conducted under the EM&A requirement. According to the noise monitoring results on 1 March 2026, the measured noise levels (dB(A)) were below the limit level of 70dB(A).

It was concluded that the concerned environmental impact might be due to the site works, especially the cleansing at grout station in the site. And under current site planning procedures, the works beyond normal working hours were planned to be conducted occasionally throughout the project under effective construction noise permit (CNP). However, as to minimize the impact to the surrounding, the noisy cleansing work at grout station would be prohibited in restricted hours. A direct contact to our site agent, Mr. Gary Wong, is welcome to any further queries. On-site mitigation measures have already been implemented and maintained on site and prompt actions have been taken. The contractor will keep maintain good practice on site, and strengthen the implementation of mitigation measures to reduce impacts to the nearby neighbors.

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:

- Jet Grouting Works
- Temporary Steel Platform
- ELS Work
- Operation of barging point
- Hoarding Work

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 construction 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.

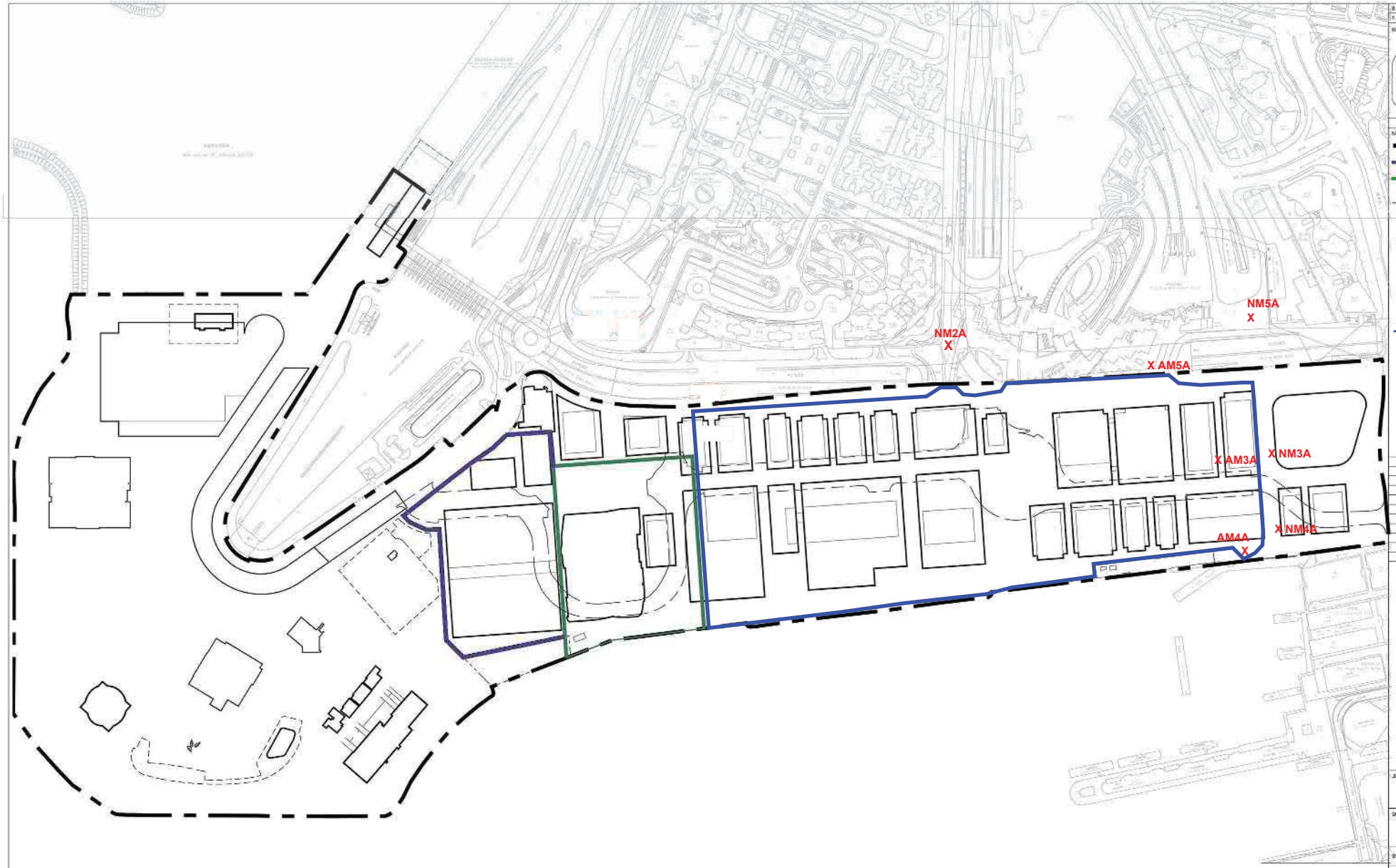
One environmental complaints were recorded in the reporting month. No notifications of summons or successful prosecutions were received during the reporting month.

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



B.D. REF:

H.S.D. REF:

KEY PLAN

KEY PLAN

NOTES:

WKCD BOUNDARY

M+ MUSEUM BOUNDARY

LYRIC THEATRE BOUNDARY

BOUNDARY OF UNDERPASS ROAD SERVING THE PLANNED WKCD

X CONSTRUCTION AIR/NOISE MONITORING STATION

REMARKS:
THE AIR MONITORING STATION AM2A HAS BEEN RELOCATED TO THE ALTERNATIVE MONITORING STATION AM2B AT 1ST FLOOR OF GAMMON'S SITE OFFICE ON 26 FEBRUARY 2019.

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

REV.	DATE	DESCRIPTION	INITIAL

JOB TITLE: **DEVELOPMENT AT WEST KOWLOON CULTURAL DISTRICT**

DRAWING TITLE: **SITE LAYOUT PLAN AND MONITORING STATIONS**

SCALE:	1:100	PRINTED:	A1
CHECKED:		DATE:	
APPROVED:		DATE:	
DRAWN:	TY	DATE:	16-05-2025

CONTRACT NO.: -

DRAWING NO.: **FIGURE 1**

REV.: XX

CAD REF NAME: XXXXX-AUT-PNS DWG P60-L080-0080-XXX.dwg

AUTHORITY:

westKowloon
西九文化區

A1 (841mm x 594mm) Sheet Size

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

Project Organization

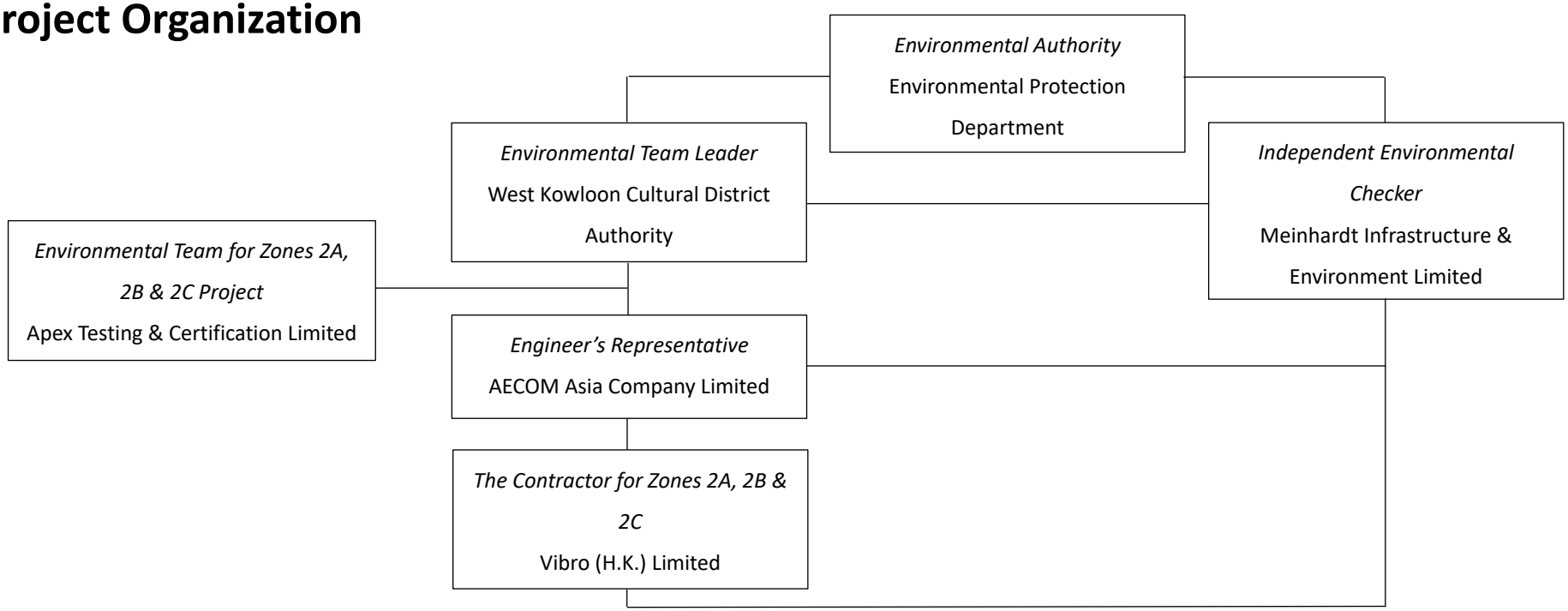


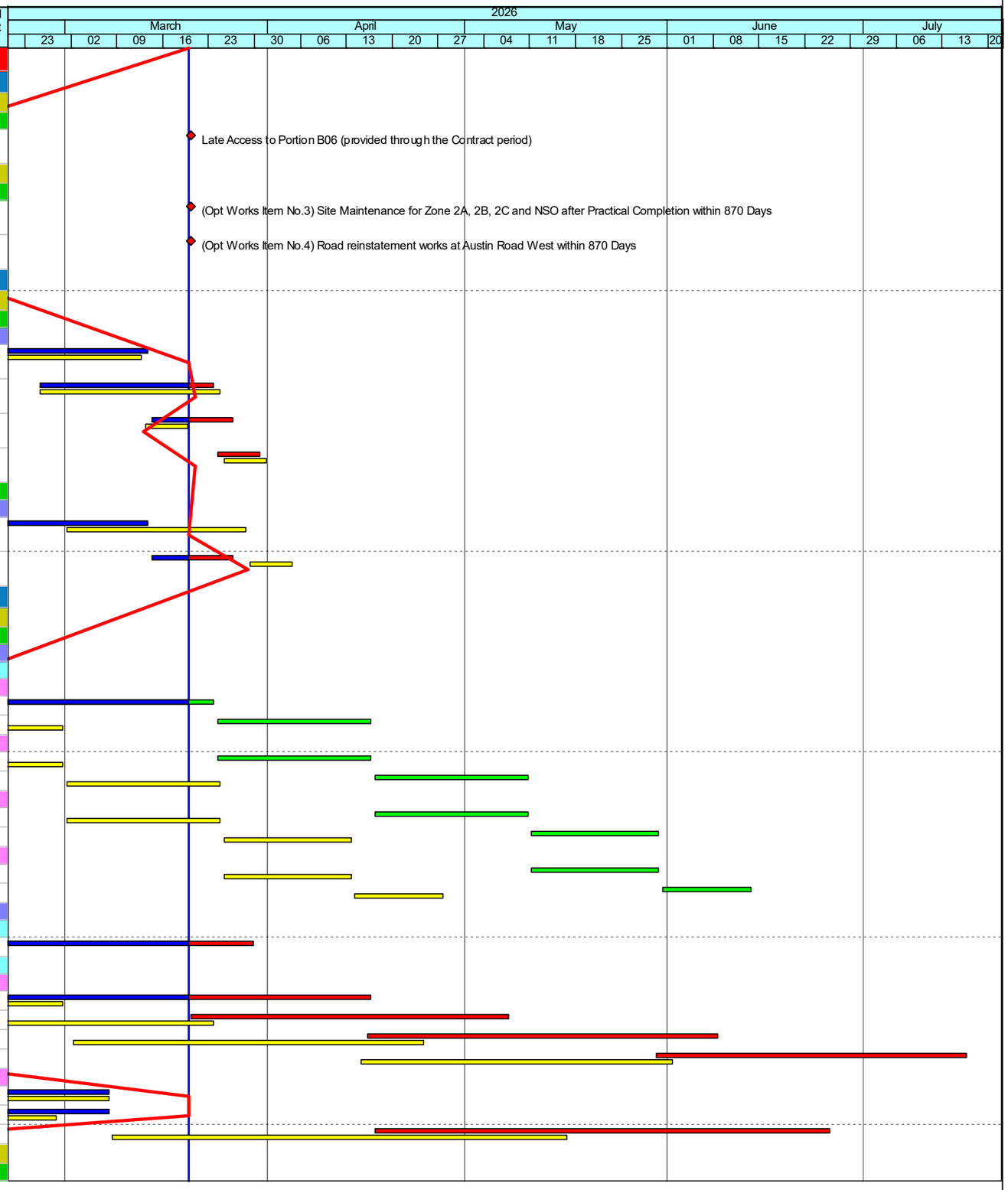
Table A-1: Contract Information

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 Leader	Mr. Calvin LUI	9629 9718	calvinlui@apextestcert.com

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	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float
ELS Works (Stages1&2) for IBUR in Zones 2A,2B&2C of WKCD Revised CMWP R0 - 1st Draft_20260320									
Contract Dates									
Access Dates									
Late Access Date									
WKCDA-#AD-02020	Late Access to Portion B06 (provided through the Contract period)	0	01-Feb-26		0	20-Mar-26*		0%	0
CAI Date for Optional Works									
Between 5 Jul 2024 and 21 Nov 2026, Within 870 Days									
WKCDA-#AD-03030	(Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Completion within 870 Days	0	01-Feb-26		0	20-Mar-26*		0%	0
WKCDA-#AD-03040	(Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days	0	01-Feb-26		0	20-Mar-26*		0%	0
BD Statutory Submissions									
Consent BA8 and BA10 Submissions									
Zone 2B									
BD Submission and Consent for Excavation and ELS Installation									
WKCDA-BD-STA-01220	BA8 for excavation and ELS installation at Zone 2B (Stage 2) to 0mPD(Consent 11)	28	13-Feb-26	12-Mar-26	29	13-Feb-26 A	13-Mar-26 A	100%	
WKCDA-BD-STA-01240	BA8 for excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 12)	28	25-Feb-26	24-Mar-26	27	25-Feb-26 A	23-Mar-26	0%	-112
WKCDA-BD-STA-01230	BA10 for excavation and ELS installation at Zone 2B (Stage 2) to 0mPD(Consent 11)	7	13-Mar-26	19-Mar-26	13	14-Mar-26 A	26-Mar-26	0%	-29
WKCDA-BD-STA-01250	BA10 for excavation and ELS installation at Zone 2B (Stage 2) to FEL(Consent 12)	7	25-Mar-26	31-Mar-26	7	24-Mar-26	30-Mar-26	0%	-112
Zone 2A-1									
BD Submission and Consent for Excavation and ELS Installation									
WKCDA-BD-STA-01200	BA8 for excavation and ELS installation at Zone 2A-1 [Stage 2] (Consent 11)	28	01-Mar-26	28-Mar-26	29	13-Feb-26 A	13-Mar-26 A	100%	
WKCDA-BD-STA-01210	BA10 for excavation and ELS installation at Zone 2A-1 [Stage 2] (Consent 11)	7	29-Mar-26	04-Apr-26	13	14-Mar-26 A	26-Mar-26	0%	-83
Cost Centre A - Preliminaries, General Requirements									
General Submission and Procurement									
Procurement and Delivery of Materials									
Steel Platform Material									
Zone 2A-1 & 2B									
Phase 2 Delivery									
WKCDA-A-PRO-2120	Procurement of Steel Platform material for Zone 2B & 2A-	12	24-Jan-26	04-Feb-26	59	24-Jan-26 A	23-Mar-26	0%	177
WKCDA-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	24	05-Feb-26	28-Feb-26	24	24-Mar-26	16-Apr-26	0%	224
Phase 3 Delivery									
WKCDA-A-PRO-2120	Procurement of Steel Platform material for Zone 2B & 2A-	24	05-Feb-26	28-Feb-26	24	24-Mar-26	16-Apr-26	0%	177
WKCDA-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	24	01-Mar-26	24-Mar-26	24	17-Apr-26	10-May-26	0%	203
Phase 4 Delivery									
WKCDA-A-PRO-2120	Procurement of Steel Platform material for Zone 2B & 2A-	24	01-Mar-26	24-Mar-26	24	17-Apr-26	10-May-26	0%	177
WKCDA-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	20	25-Mar-26	13-Apr-26	20	11-May-26	30-May-26	0%	193
Phase 5 Delivery									
WKCDA-A-PRO-2120	Procurement of Steel Platform material for Zone 2B & 2A-	20	25-Mar-26	13-Apr-26	20	11-May-26	30-May-26	0%	177
WKCDA-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	14	14-Apr-26	27-Apr-26	14	31-May-26	13-Jun-26	0%	177
Strut and Wailing									
Zone 2B & 2A-1									
WKCDA-A-PRO-2340	Delivery of Strut and Wailing for Zone 2B & 2A-1	100	03-Nov-25	10-Feb-26	147	03-Nov-25 A	29-Mar-26	10%	-87
Zone 2A-2-1									
Fabrication (by batch)									
WKCDA-A-PRO-2400	ELS Fabrication (layer 2 - 1st log)	82	09-Dec-25	28-Feb-26	129	09-Dec-25 A	16-Apr-26	40%	-97
WKCDA-A-PRO-2420	ELS Fabrication (layer 2 - 2nd log)	49	03-Feb-26	23-Mar-26	49	20-Mar-26	07-May-26	0%	-97
WKCDA-A-PRO-2440	ELS Fabrication (layer 3 - 1st log)	54	02-Mar-26	24-Apr-26	54	16-Apr-26	08-Jun-26	0%	-97
WKCDA-A-PRO-2460	ELS Fabrication (layer 3 - 2nd log)	48	15-Apr-26	01-Jun-26	48	30-May-26	16-Jul-26	0%	-86
Delivery (by batch)									
WKCDA-A-PRO-2550	ELS Material Delivery (layer 1)	129	30-Oct-25	07-Mar-26	129	30-Oct-25 A	07-Mar-26 A	100%	
WKCDA-A-PRO-2560	ELS Material Delivery (layer 1A)	32	27-Jan-26	27-Feb-26	40	27-Jan-26 A	07-Mar-26 A	100%	
WKCDA-A-PRO-2570	ELS Material Delivery (layer 2)	70	08-Mar-26	16-May-26	70	17-Apr-26	25-Jun-26	0%	-79
Coordination									
Interface Contractors and Other Project Contractors									



Milestone | Planned Bar
Critical MS | Actual Work Complet...
Critical Bar | R0 MS

CC/2023/2B/095

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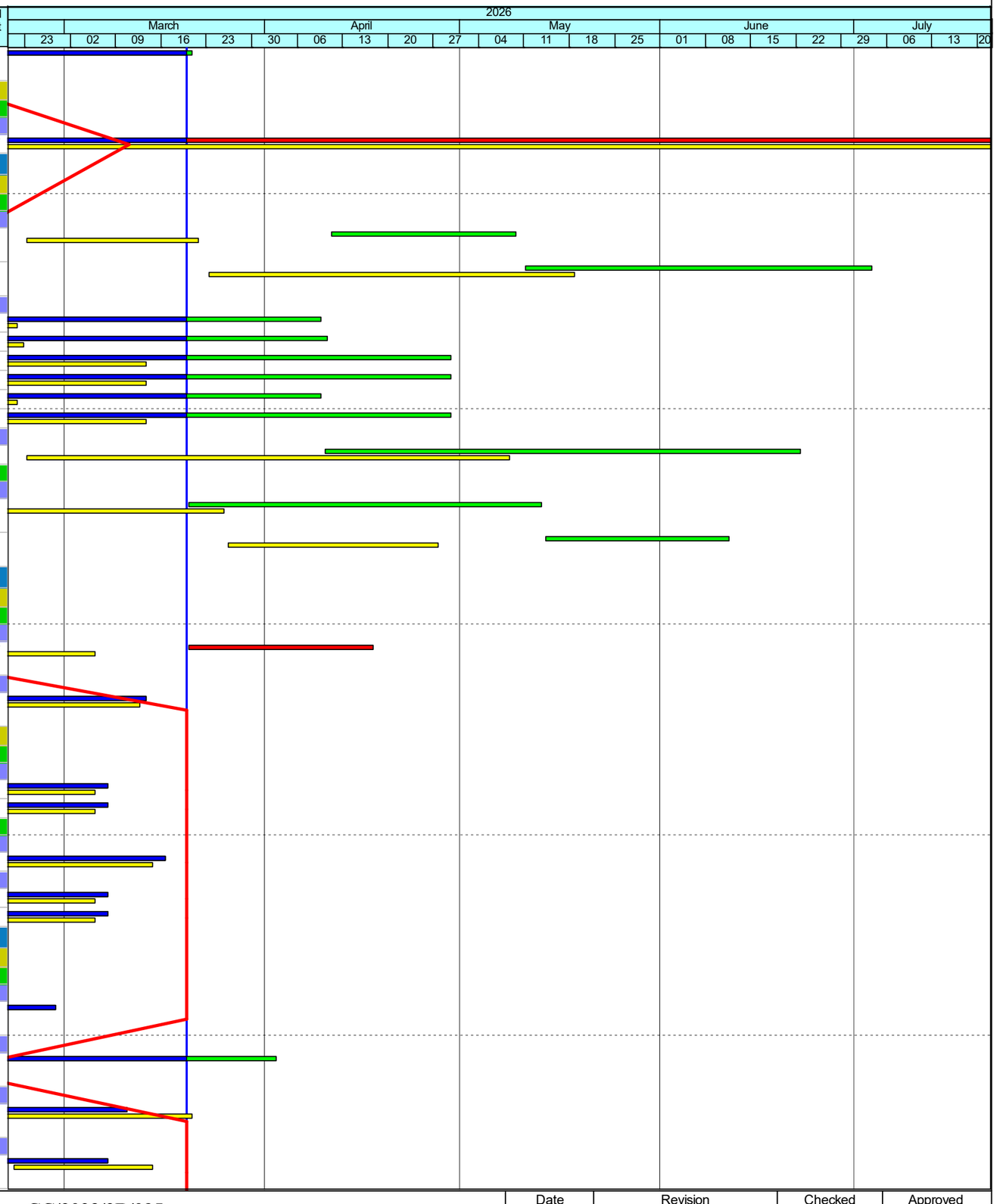
ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float
WKCDA-A-CIC-01050	Coordination with Contract no.CC/2017/3A/031 L2 Contract for Lyric Theatre Complex and Extended basement project	578	05-Jul-24	02-Feb-26	624	05-Jul-24 A	20-Mar-26	80%	283
Construction									
Barging Point Facilities									
Coordination with Disposal Site									
WKCDA-A-MOB-01520	Coordination with Macao Project for disposal;	400	25-Dec-25	07-May-27	409	25-Dec-25 A	19-May-27	0%	-107
Cost Centre B & I - General, Hoarding and Monitoring Works									
Construction									
General and Monitoring Works									
Relocate Water Check Meter Cabinet									
WKCDA-B-MOB-01240	Relocation of check water meter cabinet at Zone 2A East gantry	24	23-Feb-26	21-Mar-26	24	11-Apr-26	09-May-26	0%	101
WKCDA-B-MOB-01100	Site clearance, break up and removal of existing road pavement and light posts, signages	44	23-Mar-26	18-May-26	44	11-May-26	03-Jul-26	0%	101
Coordination of External Works and Utilities Services									
WKCDA-B-MOB-01160	Coordination with highways department(HyD)	597	05-Jul-24	21-Feb-26	644	05-Jul-24 A	09-Apr-26	90%	104
WKCDA-B-MOB-01200	Coordination with WSD	598	05-Jul-24	22-Feb-26	645	05-Jul-24 A	10-Apr-26	82%	123
WKCDA-B-MOB-1420	Coordination with MTRC	463	06-Dec-24	13-Mar-26	510	06-Dec-24 A	29-Apr-26	82%	156
WKCDA-B-MOB-1440	Coordination with DSD	463	06-Dec-24	13-Mar-26	510	06-Dec-24 A	29-Apr-26	82%	156
WKCDA-B-MOB-1460	Coordination with FSD	429	20-Dec-24	21-Feb-26	476	20-Dec-24 A	09-Apr-26	82%	176
WKCDA-B-MOB-1480	Coordination with other UU authorities	449	20-Dec-24	13-Mar-26	496	20-Dec-24 A	29-Apr-26	82%	156
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	23-Feb-26	08-May-26	60	10-Apr-26	22-Jun-26	0%	85
Hoarding and Gantry									
Under Variation Order									
WKCDA-B-MOB-01340a	Erection and installation of steel frame for covered walkway along Austin Road West (VO)	42	02-Feb-26	25-Mar-26	42	20-Mar-26	13-May-26	0%	169
WKCDA-B-MOB-01360a	Finishing works for covered walkway (including graphic, lighting and steel boards) along Austin Road West (VO)	24	26-Mar-26	27-Apr-26	24	14-May-26	11-Jun-26	0%	169
Cost Centre C - Excavation and Lateral Support Works for Zone 2B (Stage 1)									
Submissions and Approval									
Design Submission and Statutory Submission									
ELS Design at Zone 2B (Stage 1)									
WKCDA-C-SUB-1550	Zone 2B & 2C ELS Stage 1 (IPP, Jet Grouting, King Posts & Grout Curtain) - 7th Amendment Submission	29	05-Feb-26	05-Mar-26	29	20-Mar-26*	17-Apr-26	0%	-137
BD Submission									
WKCDA-C-SUB-01440	Submit BA14 and acknowledgment from BD for interlocking pipe pile wall, grout curtain and king post at Zone 2B	28	13-Feb-26	12-Mar-26	29	13-Feb-26 A	13-Mar-26 A	100%	
Construction									
Post Grout Curtain Works									
Jet Grouting Works at Middle Row									
WKCDA-C-CON-11270	Carry-out Post jet grout Middle Row at Zone 2B, 44	87	18-Nov-25	05-Mar-26	89	18-Nov-25 A	07-Mar-26 A	100%	
WKCDA-C-CON-11290	Carry-out Post jet grout Middle Row at Zone 2B, 70	87	18-Nov-25	05-Mar-26	89	18-Nov-25 A	07-Mar-26 A	100%	
Jet Grout at Zone 2B (AURW & Middle Row)									
AUWR									
WKCDA-C-CON-01924a	Jet Grout (Type 4 - 8.25m width, 5 cluster) 61 nos.	26	10-Feb-26	14-Mar-26	27	10-Feb-26 A	16-Mar-26 A	100%	
Middle Row									
WKCDA-C-CON-01906	Jet Grout (Type 8 - 6.50m width, 4 cluster) 44 nos.	87	18-Nov-25	05-Mar-26	89	18-Nov-25 A	07-Mar-26 A	100%	
WKCDA-C-CON-11300	Jet Grout (Type 7 - 6.50m width, 4 cluster) 70 nos.	87	18-Nov-25	05-Mar-26	89	18-Nov-25 A	07-Mar-26 A	100%	
Cost Centre D - Excavation and Lateral Support Works for Zone 2C (Stage 1)									
Construction									
Post Grout Curtain Works									
Drilling for Post-grout Curtain Works Part 1									
WKCDA-D-CON-1360	Drilling for post grout curtain works at Zone 2C(A_A037 to A_A001)(Consent 6b) 37	166	30-Jul-25	14-Feb-26	174	30-Jul-25 A	27-Feb-26 A	100%	
Drilling for Post-grout Curtain Works Part 2									
WKCDA-D-CON-1340	Drilling for post grout curtain works at Zone 2C(A_A348 to A_A397)(Consent 6b) 50	93	25-Oct-25	14-Feb-26	130	25-Oct-25 A	02-Apr-26	40%	151
Post Grout Curtain Works Part 2									
WKCDA-D-CON-01300	Carry-out post grout curtain works at Zone 2C(A_A348 to A_A397)(Consent 6b) 50	119	25-Oct-25	20-Mar-26	110	25-Oct-25 A	10-Mar-26 A	100%	
Closing Point 07 (bet. Gammon Existing IPP & PPA-004)									
WKCDA-C-CON-11220	Carry-out post grout works (AD_001_AD_006) at Seaside Row	19	21-Feb-26	14-Mar-26	29	30-Jan-26 A	07-Mar-26 A	100%	



Milestone | Planned Bar
Critical MS | Actual Work Complet...
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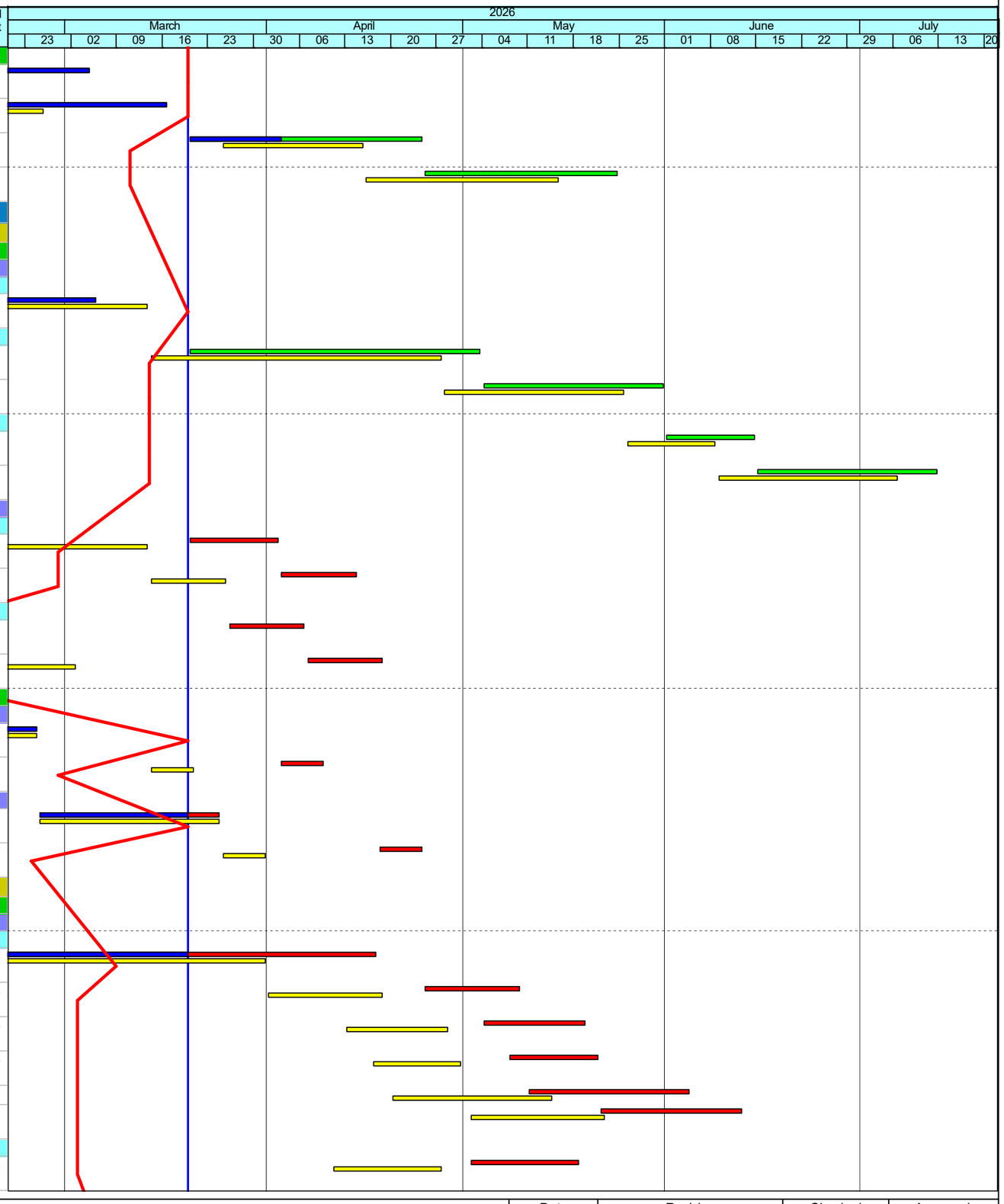
Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float
Pumping Test									
WKCDA-D-CON-01030	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 2rig) at Zone 2C 3 (inside)	36	20-Dec-25	03-Feb-26	58	20-Dec-25 A	04-Mar-26 A	100%	
WKCDA-D-CON-01050	Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 2rig) at Zone 2C 4 (inside)	16	04-Feb-26	25-Feb-26	66	23-Dec-25 A	16-Mar-26 A	100%	
WKCDA-D-CON-01340	Carry-out pumping test and report submission at Zone 2C to FEL (Phase 2)	22	25-Mar-26	15-Apr-26	36	20-Mar-26 A	24-Apr-26	2%	188
WKCDA-D-SUB-01320	Submit BA14 and acknowledgment from BD for interlocking pipe pile wall, grout curtain at Zone 2C	30	16-Apr-26	15-May-26	30	25-Apr-26	24-May-26	0%	225
Cost Centre E - Excavation and Lateral Support Works for Zone 2B (Stage 2)									
Submissions and Approval									
Design Submission									
ELS Design at Zone 2B & Zone 2A-1 (Stage 2)									
1st Amendment & Approval									
WKCDA-C-SUB-01315	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 1 & 2) by BD - 1st amendment	61	12-Jan-26	13-Mar-26	53	12-Jan-26 A	05-Mar-26 A	100%	
2nd Amendment & Approval									
WKCDA-C-SUB-1560	Prepare and submit ELS design at zone 2B & zone 2A-1 (Layer 3 & 4) by BD - 2nd amendment	45	14-Mar-26	27-Apr-26	45	20-Mar-26	03-May-26	0%	46
WKCDA-C-SUB-1570	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 1 & 2) by BD - 2nd amendment	28	28-Apr-26	25-May-26	28	04-May-26	31-May-26	0%	46
3rd Amendment & Approval									
WKCDA-C-SUB-1580	Prepare and submit ELS design at zone 2B & zone 2A-1 (Layer 5 & 6) by BD - 3rd amendment	14	26-May-26	08-Jun-26	14	01-Jun-26	14-Jun-26	0%	46
WKCDA-C-SUB-1590	Review and approve submitted ELS design at zone 2B & zone 2A-1 (Layer 5 & 6) by BD - 3rd amendment	28	09-Jun-26	06-Jul-26	28	15-Jun-26	12-Jul-26	0%	46
Method Statement for Excavation and Lateral Support Installation at Zone 2B (Stage 2)									
ELS Works									
WKCDA-E-SUB-01000	Prepare and submit method statement for excavation and lateral support installation at Zone 2B(Stage 2)	41	01-Feb-26	13-Mar-26	14	20-Mar-26	02-Apr-26	0%	-113
WKCDA-E-SUB-01020	Review and approve submission of method statement for excavation and lateral support installation at Zone 2B(Stage 2)	12	14-Mar-26	25-Mar-26	12	03-Apr-26	14-Apr-26	0%	-113
Demolition of Existing Pipepile Partition Wall between Zone 2B & 2A-1									
WKCDA-E-SUB-1200	Prepare and submit method statement for demolition of pipepile partition wall between Zone 2B & 2A-1	12	07-Feb-26	18-Feb-26	12	26-Mar-26	06-Apr-26	0%	-92
WKCDA-E-SUB-1210	Review and approve submitted MS for demolition of existing pipepile partition wall between Zone 2B & 2A-1	12	19-Feb-26	02-Mar-26	12	07-Apr-26	18-Apr-26	0%	-92
Statutory Submission									
Excavation and ELS Installation at Zone 2B (Stage 2) from EGL to 0.00mPD (Consent 11)									
WKCDA-E-SUB-01040	Application and obtain consent (BA8) for excavation and ELS installation at Zone 2B (Stage 2) to 0.00mPD (Consent 11)	12	13-Feb-26	24-Feb-26	12	13-Feb-26 A	24-Feb-26 A	100%	
WKCDA-E-SUB-01060	Submit BA10 for excavation and ELS installation at Zone 2B (Stage 2)	7	14-Mar-26	20-Mar-26	7	03-Apr-26	09-Apr-26	0%	-43
Excavation and ELS Installation at Zone 2B (Stage 2) from 0.00mPD to FEL (Consent 12)									
WKCDA-E-SUB-01080	Application and obtain consent (BA8) for excavation and ELS installation at Zone 2B (Stage 2) to FEL (Consent 12)	28	25-Feb-26	24-Mar-26	28	25-Feb-26 A	24-Mar-26	0%	-113
WKCDA-E-SUB-01200	Submit BA10 for excavation and ELS installation at Zone 2B (Stage 2)	7	25-Mar-26	31-Mar-26	7	18-Apr-26	24-Apr-26	0%	-137
Construction									
Excavation, Temporary Shoring and Struts									
Excavation - Zone 2B									
EGL to 1st Layer									
WKCDA-E-CON-01045	Excavation from EGL +6.00mPD (approx.) to +4.50mPD w/ welding of lagging plate at Zone 2B (48,241m3; 650m3/d)	77	25-Dec-25	31-Mar-26	88	25-Dec-25 A	17-Apr-26	91%	-107
WKCDA-E-CON-01060c	Excavation from +4.50mPD to +2.80mPD 1st layer at Zone 2B; portion C (19,649m3; 1,650m3/day)	12	01-Apr-26	18-Apr-26	12	25-Apr-26	09-May-26	0%	-108
WKCDA-E-CON-01060b	Excavation from +4.50mPD to +2.80mPD 1st layer at Zone 2B; portion B (13,106m3; 950m3/day)	14	13-Apr-26	28-Apr-26	14	04-May-26	19-May-26	0%	-105
WKCDA-E-CON-01060d	Excavation from +4.50mPD to +2.80mPD 1st layer at Zone 2B; portion D (11,256m3; 950m3/day)	12	17-Apr-26	30-Apr-26	12	08-May-26	21-May-26	0%	-105
WKCDA-F-CON-01550	Welding lagging plate along IPP wall to excavation level	21	20-Apr-26	14-May-26	21	11-May-26	04-Jun-26	0%	-92
WKCDA-E-CON-01070	Excavation from +4.50mPD to +2.80mPD 1st layer at Zone 2B; portion A (10,663m3; 600m3/day)	18	02-May-26	22-May-26	18	22-May-26	12-Jun-26	0%	-99
1st Layer to 2nd Layer									
WKCDA-E-CON-01062	Carry-out pumping test and report submission at Zone 2B [0.00mPD to FEL] (Phase 3)	14	11-Apr-26	27-Apr-26	14	02-May-26	18-May-26	0%	-108



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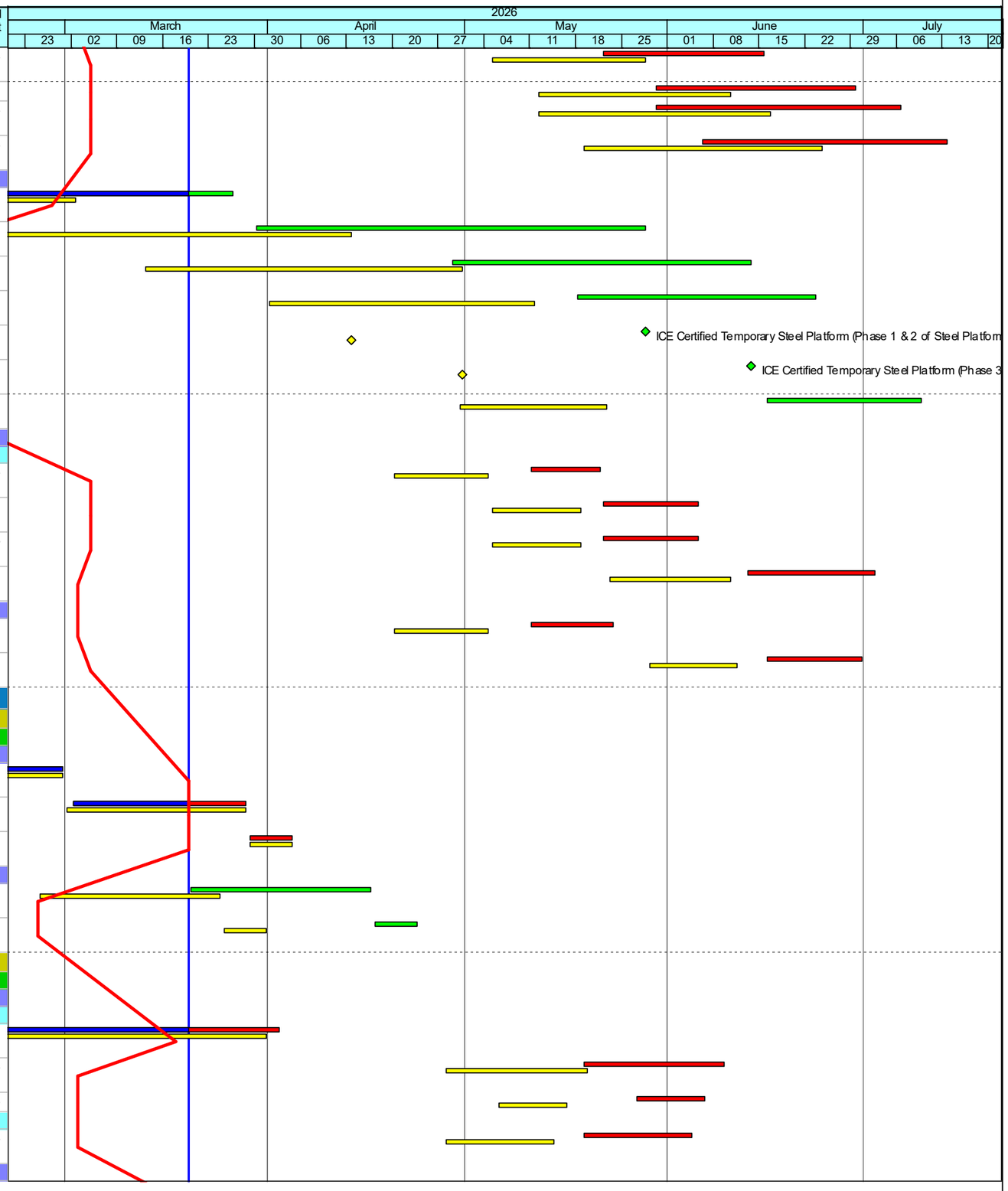
WKCDA-E-CON-01120c	Excavation from +2.80mPD to +1.05/0.00mPD 2nd layer at Zone 2B; portion C (20,227m3; 1,050m3/day)	20	05-May-26	28-May-26	20	22-May-26	15-Jun-26	0%	-108
WKCDA-F-CON-01560	Welding lagging plate along IPP wall to excavation level	25	12-May-26	10-Jun-26	25	30-May-26	29-Jun-26	0%	-84
WKCDA-E-CON-01120b	Excavation from +2.80mPD to +1.05/0.00mPD 2nd layer at Zone 2B; portion B (13,491m3; 450m3/day)	30	12-May-26	16-Jun-26	30	30-May-26	06-Jul-26	0%	-108
WKCDA-E-CON-01120d	Excavation from +2.80mPD to +1.05/0.00mPD 2nd layer at Zone 2B; portion D (11,587m3; 400m3/day)	30	19-May-26	24-Jun-26	30	06-Jun-26	13-Jul-26	0%	-108
Temporary Steel Platform - Zone 2B									
WKCDA-E-CON-01080	Construction of temporary steel platform at Zone 2B - Phase 1 (353T)	28	25-Jan-26	02-Mar-26	49	25-Jan-26 A	26-Mar-26	50%	229
WKCDA-E-CON-01085	Construction of temporary steel platform at Zone 2B - Phase 2 (353T)	46	11-Feb-26	13-Apr-26	46	30-Mar-26	28-May-26	0%	181
WKCDA-E-CON-01090	Construction of temporary steel platform at Zone 2B - Phase 3 (353T)	38	13-Mar-26	30-Apr-26	38	29-Apr-26	13-Jun-26	0%	167
WKCDA-E-CON-01095	Construction of temporary steel platform at Zone 2B - Phase 4 (353T)	30	01-Apr-26	11-May-26	30	18-May-26	23-Jun-26	0%	160
WKCDA-E-CON-10500	ICE Certified Temporary Steel Platform (Phase 1 & 2 of Steel Platform)	0		13-Apr-26	0		28-May-26	0%	181
WKCDA-E-CON-10501	ICE Certified Temporary Steel Platform (Phase 3 of Steel Platform)	0		30-Apr-26	0		13-Jun-26	0%	167
WKCDA-E-CON-01098	Construction of temporary steel platform at Zone 2B - Phase 5 (352T)	19	30-Apr-26	22-May-26	19	16-Jun-26	09-Jul-26	0%	147
Lateral Support Installation - Zone 2B									
LS Layer 1									
WKCDA-E-CON-01100	LS installation - Layer 1 (+3.50mPD) Porttion C at Zone 2B, 6 sets (883 Tons)	12	20-Apr-26	04-May-26	10	11-May-26	21-May-26	0%	-108
WKCDA-E-CON-01100a	LS installation - Layer 1 (+3.50mPD) Porttion B at Zone 2B, 4 sets (589 Tons)	12	05-May-26	18-May-26	12	22-May-26	05-Jun-26	0%	-93
WKCDA-E-CON-01100b	LS installation - Layer 1 (+3.50mPD) Porttion D at Zone 2B, 4 sets (589 Tons)	12	05-May-26	18-May-26	12	22-May-26	05-Jun-26	0%	-105
WKCDA-E-CON-01100c	LS installation - Layer 1 (+3.50mPD) Porttion A at Zone 2B, corner strut (196 Tons)	15	23-May-26	10-Jun-26	15	13-Jun-26	02-Jul-26	0%	-99
Demolition of Existing IPP Wall bet. Zone 2A-1 and Zone B									
WKCDA-E-CON-10260	Demolition of existing IPP wall bet. Zone 2B and Zone 2A-1 +4.50mPD to +2.80mPD	12	20-Apr-26	04-May-26	12	11-May-26	23-May-26	0%	-89
WKCDA-E-CON-10280	Demolition of existing IPP wall bet. Zone 2B and Zone 2A-1 +2.80mPD to +1.05mPD	12	29-May-26	11-Jun-26	12	16-Jun-26	30-Jun-26	0%	-93
Cost Centre F - Excavation and Lateral Support Works for Zone 2A-1 (Stage 2)									
Submissions and Approval									
Design Submission and Statutory Submission									
King Post at Zone 2A-1									
WKCDA-F-SUB-01140	Submit BA14 and acknowledgment from BD for king post at Zone 2A-1	28	01-Feb-26	28-Feb-26	28	01-Feb-26 A	28-Feb-26 A	100%	
WKCDA-F-SUB-01160	Application and obtain consent(BA8) for excavation and ELS installation at Zone 2A-1 (Stage 2)(Consent 11)	28	01-Mar-26	28-Mar-26	27	02-Mar-26 A	28-Mar-26	0%	-92
WKCDA-F-SUB-01180	Submit BA10 for excavation and ELS installation at Zone 2A-1	7	29-Mar-26	04-Apr-26	7	29-Mar-26	04-Apr-26	0%	-92
Excavation and ELS installation at Zone 2A-1 (Stage 2) to FEL (Consent 12)									
WKCDA-F-SUB-01200	Application and obtain consent(BA8) for excavation and ELS installation at Zone 2A-1(Stage 2) to FEL(Consent 12)	28	25-Feb-26	24-Mar-26	28	20-Mar-26	16-Apr-26	0%	55
WKCDA-F-SUB-01220	Submit BA10 for excavation and ELS installation at Zone 2A-1(Stage 2)	7	25-Mar-26	31-Mar-26	7	17-Apr-26	23-Apr-26	0%	55
Construction									
Excavation, Temporary Shoring and Struts									
Excavation - Zone 2A-1									
EGL to 1st Layer									
WKCDA-F-CON-01100	Excavation from (EGL) +6.00mPD (approx.) to +4.50mPD w/ welding of lagging plate at Zone 2A-1 (9,381m3; 300m3/day)	77	25-Dec-25	31-Mar-26	79	25-Dec-25 A	02-Apr-26	50%	-77
WKCDA-F-CON-01160	Excavation from +4.50mPD to +2.80mPD 1st layer at Zone 2A-1; portion E (10,631m3; 600m3/day)	18	28-Apr-26	19-May-26	18	19-May-26	09-Jun-26	0%	-108
WKCDA-F-CON-01490	Welding lagging plate along IPP wall to excavation level	10	06-May-26	16-May-26	10	27-May-26	06-Jun-26	0%	-106
1st Layer to 2nd Layer									
WKCDA-F-CON-01110	Carry-out pumping test and report submission at Zone 2A-1 [0.00mPD to FEL] (Phase 3)	14	28-Apr-26	14-May-26	14	19-May-26	04-Jun-26	0%	-108
Temporary Steel Platform - Zone 2A-1									



Milestone · Critical MS · Critical Bar · Planned Bar · Actual Work Complet... · R0 MS

CC/2023/2B/095

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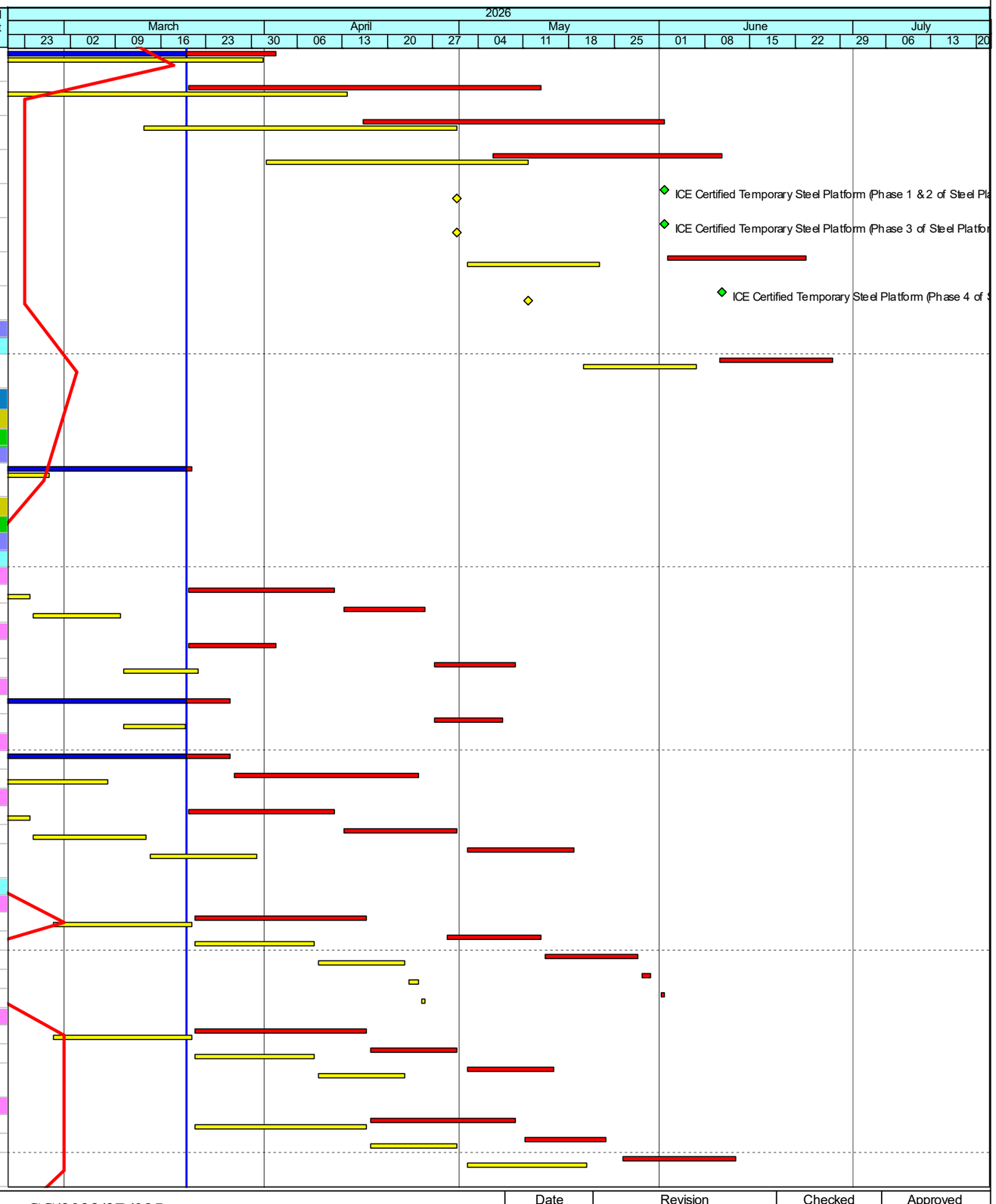
ELS Works (Stages 1 & 2) for Integrated Basement and Underground Road in Zones 2A, 2B and 2C of West Kowloon Cultural District

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float
WKCDA-F-CON-01120	Construction of temporary steel platform at Zone 2A-1 (67T) Phase 1	109	18-Nov-25	31-Mar-26	111	18-Nov-25 A	02-Apr-26	0%	-77
WKCDA-F-CON-1380	Construction of temporary steel platform at Zone 2A-1 (67T) Phase 2	42	16-Feb-26	13-Apr-26	42	20-Mar-26	13-May-26	0%	-77
WKCDA-F-CON-1400	Construction of temporary steel platform at Zone 2A-1 (67T) Phase 3	38	13-Mar-26	30-Apr-26	38	16-Apr-26	01-Jun-26	0%	-77
WKCDA-F-CON-1420	Construction of temporary steel platform at Zone 2A-1 (67T) Phase 4	30	01-Apr-26	11-May-26	30	06-May-26	10-Jun-26	0%	-51
WKCDA-F-CON-1450	ICE Certified Temporary Steel Platform (Phase 1 & 2 of Steel Platform)	0		30-Apr-26	0		01-Jun-26	0%	178
WKCDA-F-CON-1460	ICE Certified Temporary Steel Platform (Phase 3 of Steel Platform)	0		30-Apr-26	0		01-Jun-26	0%	178
WKCDA-F-CON-1440	Construction of temporary steel platform at Zone 2A-1 (68T) Phase 5	18	02-May-26	22-May-26	18	02-Jun-26	23-Jun-26	0%	-51
WKCDA-F-CON-1470	ICE Certified Temporary Steel Platform (Phase 4 of Steel Platform)	0		11-May-26	0		10-Jun-26	0%	170
LS Installation - Zone 2A-1									
LS Layer 1									
WKCDA-F-CON-01140	LS installation - Layer 1 (+3.50mPD) Porttion E at Zone 2A-1, corner strut + 1 set of strut (397 Tons)	15	20-May-26	06-Jun-26	15	10-Jun-26	27-Jun-26	0%	-108
Cost Centre G - Excavation and Lateral Support Works for Zone 2A-2-1 (Stage 2)									
Submissions and Approval									
Design Submission and Statutory Submission									
ELS Design at Zone 2A-2-1 (Stage 2)									
WKCDA-G-SUB-2470	Review and approve submitted ELS design at Zone 2A-2-1 (Stage 2) by BD - 10th Amendment	29	29-Jan-26	26-Feb-26	51	29-Jan-26 A	20-Mar-26	0%	-94
Construction									
Excavation, Temporary Shoring and Struts									
Excavation & Lateral Support - Zone 2A-2-1									
1st Layer / 1A Layer									
1st Layer - 1B									
WKCDA-G-CON-104(	1B - Bracket Installation	16	02-Feb-26	23-Feb-26	16	20-Mar-26	11-Apr-26	0%	-49
WKCDA-G-CON-105(	1B - Lateral Shoring/Support Installation, 3 sets	12	24-Feb-26	09-Mar-26	12	13-Apr-26	25-Apr-26	0%	-40
1st Layer - 1C									
WKCDA-G-CON-107(	1C - Bracket Installation	12	02-Feb-26	14-Feb-26	12	20-Mar-26	02-Apr-26	0%	-24
WKCDA-G-CON-108(	1C - Lateral Shoring/Support Installation, 3 sets	11	10-Mar-26	21-Mar-26	11	27-Apr-26	09-May-26	0%	-40
1st Layer - 1D									
WKCDA-G-CON-1100	1D - Bracket Installation	12	26-Jan-26	07-Feb-26	49	26-Jan-26 A	26-Mar-26	0%	-30
WKCDA-G-CON-1110	1D - Lateral Shoring/Support Installation, 4 sets	9	10-Mar-26	19-Mar-26	9	27-Apr-26	07-May-26	0%	-40
1st Layer - 1E									
WKCDA-G-CON-1130	1E - Bracket Installation	12	26-Jan-26	07-Feb-26	49	26-Jan-26 A	26-Mar-26	0%	-30
WKCDA-G-CON-1140	1E - Lateral Shoring/Support Installation, 4 sets	21	09-Feb-26	07-Mar-26	21	27-Mar-26	24-Apr-26	0%	-30
1st Layer - 1AA1									
WKCDA-G-CON-1150	1AA1 - Excavation (3,500m3; 300m3/day)	16	02-Feb-26	23-Feb-26	16	20-Mar-26	11-Apr-26	0%	-49
WKCDA-G-CON-1160	1AA1 - Bracket Installation	16	24-Feb-26	13-Mar-26	16	13-Apr-26	30-Apr-26	0%	-49
WKCDA-G-CON-1170	1AA1 - Lateral Shoring/Support Installation (diagonal), 9 sets	14	14-Mar-26	30-Mar-26	14	02-May-26	18-May-26	0%	-49
2nd Layer									
2nd Layer - 2A1									
WKCDA-G-CON-200(	2A1 - Excavation (5,000m3; 300m3/day)	19	27-Feb-26	20-Mar-26	19	21-Mar-26	16-Apr-26	0%	-75
WKCDA-G-CON-201(	2A1 - Bracket Installation	12	21-Mar-26	08-Apr-26	12	29-Apr-26	13-May-26	0%	-61
WKCDA-G-CON-202(	2A1 - Lateral Shoring/Support Installation, 3 sets	12	09-Apr-26	22-Apr-26	12	14-May-26	28-May-26	0%	-61
WKCDA-G-CON-2025	2A1 - Preloading (Sm2, Sn2, Sp2, Sq2, Sr2 & Ss2 only)	2	23-Apr-26	24-Apr-26	2	29-May-26	30-May-26	0%	-61
WKCDA-G-CON-203(	2A1 - TW4 form acknoledgement	1	25-Apr-26	25-Apr-26	1	01-Jun-26	01-Jun-26	0%	-61
2nd Layer - 2B1									
WKCDA-G-CON-204(	2B1 - Excavation (5,000m3; 300m3/day)	19	27-Feb-26	20-Mar-26	19	21-Mar-26	16-Apr-26	0%	-75
WKCDA-G-CON-205(	2B1 - Bracket Installation	12	21-Mar-26	08-Apr-26	12	17-Apr-26	30-Apr-26	0%	-36
WKCDA-G-CON-2060	2B1 - Lateral Shoring/Support Installation (including diagonal), 3 sets	12	09-Apr-26	22-Apr-26	12	02-May-26	15-May-26	0%	-36
2nd Layer - 2C1									
WKCDA-G-CON-207(	2C1 - Excavation (5,000m3; 300m3/day)	19	21-Mar-26	16-Apr-26	19	17-Apr-26	09-May-26	0%	-75
WKCDA-G-CON-208(	2C1 - Bracket Installation	12	17-Apr-26	30-Apr-26	12	11-May-26	23-May-26	0%	-35
WKCDA-G-CON-2090	2C1 - Lateral Shoring/Support Installation (including diagonal), 7 sets	16	02-May-26	20-May-26	16	26-May-26	12-Jun-26	0%	-35



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◆ Critical MS — Actual Work Complet...
Critical Bar ◇ R0 MS

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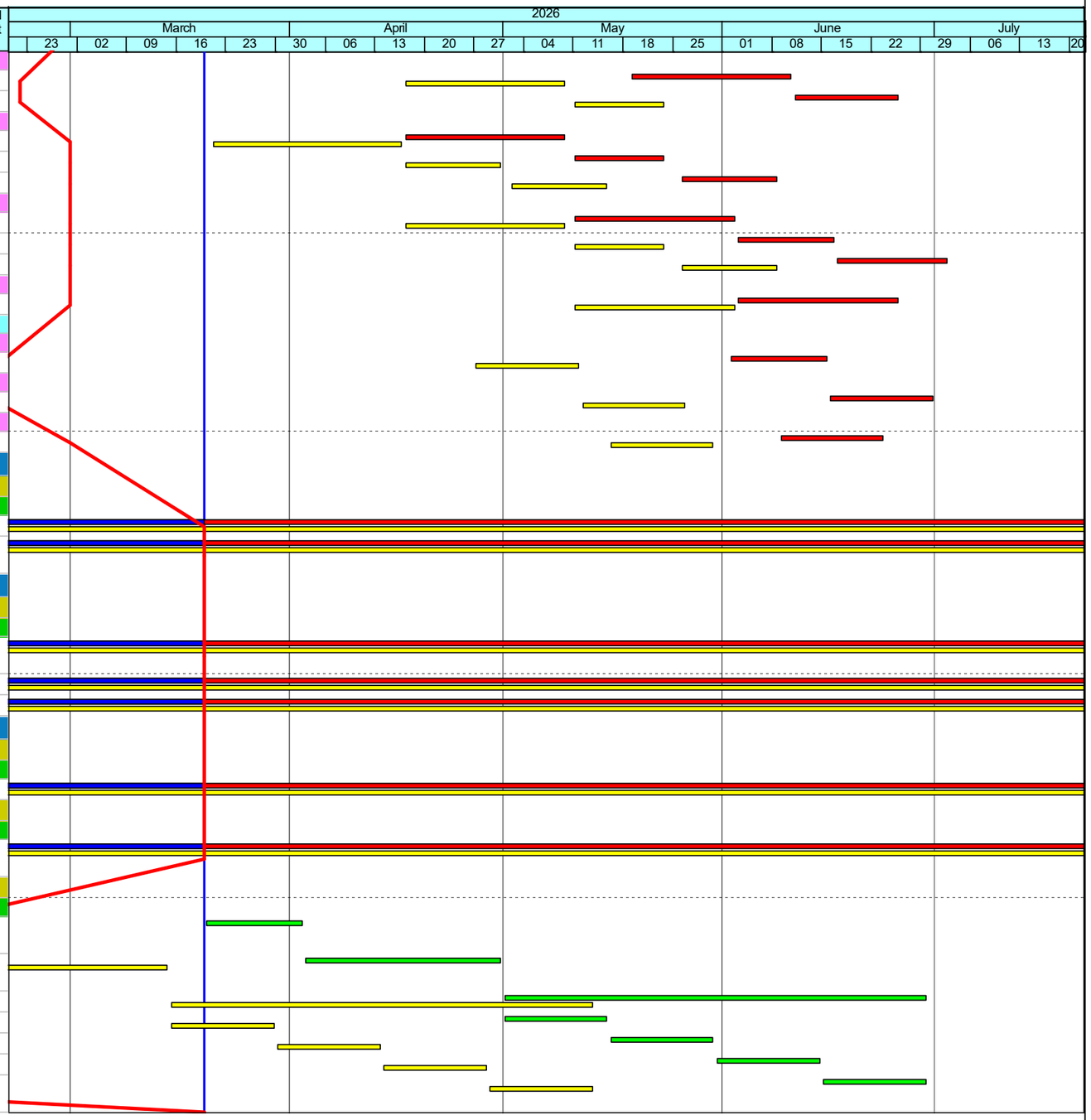
Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float
2nd Layer - 2D1									
WKCDA-G-CON-2100	2D1 - Excavation (5,000m3; 300m3/day)	19	17-Apr-26	09-May-26	19	19-May-26	10-Jun-26	0%	-49
WKCDA-G-CON-2110	2D1 - Bracket Installation	12	11-May-26	23-May-26	12	11-Jun-26	25-Jun-26	0%	-49
2nd Layer - 2A2									
WKCDA-G-CON-2130	2A2 - Excavation (5,000m3; 300m3/day)	19	21-Mar-26	16-Apr-26	19	17-Apr-26	09-May-26	0%	-75
WKCDA-G-CON-2140	2A2 - Bracket Installation	12	17-Apr-26	30-Apr-26	12	11-May-26	23-May-26	0%	-62
WKCDA-G-CON-2150	2A2 - Lateral Shoring/Support Installation, 3 sets	12	02-May-26	15-May-26	12	26-May-26	08-Jun-26	0%	-62
2nd Layer - 2B2									
WKCDA-G-CON-2160	2B2 - Excavation (5,000m3; 300m3/day)	19	17-Apr-26	09-May-26	19	11-May-26	02-Jun-26	0%	-75
WKCDA-G-CON-2170	2B2 - Bracket Installation	12	11-May-26	23-May-26	12	03-Jun-26	16-Jun-26	0%	-69
WKCDA-G-CON-2180	2B2 - Lateral Shoring/Support Installation, 3 sets	12	26-May-26	08-Jun-26	12	17-Jun-26	02-Jul-26	0%	-69
2nd Layer - 2C2									
WKCDA-G-CON-2190	2C2 - Excavation (5,000m3; 300m3/day)	19	11-May-26	02-Jun-26	19	03-Jun-26	25-Jun-26	0%	-75
3rd Layer									
3rd Layer - 3A1									
WKCDA-G-CON-3000	3A1 - Excavation (2,500m3; 250m3/day)	12	27-Apr-26	11-May-26	12	02-Jun-26	15-Jun-26	0%	-61
3rd Layer - 3B1									
WKCDA-G-CON-3040	3B1 - Excavation (2,500m3; 250m3/day)	12	12-May-26	26-May-26	12	16-Jun-26	30-Jun-26	0%	-61
3rd Layer - 3A2									
WKCDA-G-CON-2440	3A2 - Excavation (2,500m3; 250m3/day)	12	16-May-26	30-May-26	12	09-Jun-26	23-Jun-26	0%	-62
Cost Centre J & M - Site Safety and Smart Site Safety System									
General Submission									
Submission and Approval and Implementation									
WKCDA-JM-SUB-01000	Submit and update Construction Health and Safety Plan	908	15-Jul-24	08-Jan-27	908	15-Jul-24 A	08-Jan-27	77%	-4
WKCDA-JM-SUB-01100	Implementation and update of SSSS(including communication network,centralized management platform etc.)	856	05-Sep-24	08-Jan-27	856	05-Sep-24 A	08-Jan-27	77%	-4
Cost Centre K - Environmental Management									
General Submission									
Submission and Approval and Implementation									
WKCDA-K-SUB-01020	Conduct environmental monitoring & audit and submit EM&A report to EPD	918	05-Jul-24	08-Jan-27	918	05-Jul-24 A	08-Jan-27	77%	-4
WKCDA-K-SUB-01040	Implementation of the EM&A programme	885	07-Aug-24	08-Jan-27	885	07-Aug-24 A	08-Jan-27	77%	-4
WKCDA-K-SUB-01000	Submit and update Environmental Management Plan	885	07-Aug-24	08-Jan-27	885	07-Aug-24 A	08-Jan-27	77%	-4
Cost Centre P, Q, R & S- Optional Works									
Item No.1 - Maintenance and Demolition of NSO									
Site Maintenance and Demolition of NSO									
WKCDA-P-#OW-01000	Take-over and maintenance of NSO	887	05-Jul-24	08-Dec-26	887	05-Jul-24 A	08-Dec-26	77%	-5
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 NSO									
WKCDA-Q-#OW-01000	Take-over adoption of G/F NSO as CA and RSS's site office and maintenance of 1/F NSO	887	05-Jul-24	08-Dec-26	887	05-Jul-24 A	08-Dec-26	75%	-5
Item No.4 - Road Reinstatement Works at Austin Road West									
Road Reinstatement Works									
WKCDA-S-#OW-01000	Prepare and submit TTMS scheme for road reinstatement works at Austin Road West	14	01-Feb-26	14-Feb-26	14	20-Mar-26	02-Apr-26	0%	69
WKCDA-S-#OW-01020	Review and approve submission of TTMS scheme for road reinstatement works at Austin Road West	28	15-Feb-26	14-Mar-26	28	03-Apr-26	30-Apr-26	0%	69
WKCDA-S-#OW-01040	Coordination and approval of TTMS scheme with TMLG	60	15-Mar-26	13-May-26	60	01-May-26	29-Jun-26	0%	69
WKCDA-S-#OW-01040a	- 1st Relevant Authority's review	15	15-Mar-26	29-Mar-26	15	01-May-26	15-May-26	0%	69
WKCDA-S-#OW-01040b	- Address comment from Relevant Authority	15	30-Mar-26	13-Apr-26	15	16-May-26	30-May-26	0%	69
WKCDA-S-#OW-01040c	- 2nd Relevant Authority's review	15	14-Apr-26	28-Apr-26	15	31-May-26	14-Jun-26	0%	69
WKCDA-S-#OW-01040d	- Address comment from Relevant Authority's and obtain approval	15	29-Apr-26	13-May-26	15	15-Jun-26	29-Jun-26	0%	69



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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

Noise

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 received from any one of the sensitive receiver	75

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			
	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; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and 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 monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Monitor the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to WKCDA within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

Event	Action			
	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.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. 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

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.	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 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.	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

Event	Action			
	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.	1. Check report submitted by ET; 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	-
Non-conformity on one occasion	1. Identify source of non-conformity; 2. Report to IEC and WKCDA; 3. Discuss remedial actions with IEC, WKCDA and Contractor; 4. 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.	1. Notify Contractor; 2. 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.	1. Notify Contractor; 2. 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

March 2026 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	3	4 Landscape & Visual inspection Zones 2A, 2B & 2C	5	6	7 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
8	9	10	11	12	13 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	14
15	16	17	18 Landscape & Visual inspection Zones 2A, 2B & 2C	19 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	20	21
22	23	24	25 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	26	27	28
29	30	31 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	1	2	3 Good Friday	4 Holy Saturday

April 2026 (Hong Kong)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	3 • Good Friday	4 • Holy Saturday
5 Tomb Sweeping Day	6 • 'Tomb Sweeping Day' day off Easter Monday	7 • 'Easter Monday' day off	8 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	9	10	11 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring
12	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 Landscape & Visual inspection Zones 2A, 2B & 2C	23 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	24	25
26	27	28	29 AM3A,AM4A,AM5A - 24-hr TSP, 1-hr TSP X 3 NM2A,NM3A,NM4A,NM5A - Noise Impact Monitoring	30	1 • Labour Day	2

F. Calibration Certifications

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.

Multilateral Recognition Arrangements (MLA) for HKCAS

Mutual Recognition Arrangement (MRA) Partners for HKIAS

back

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		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.aihaaccreditedlabs.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		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		National Voluntary Laboratory Accreditation Program (NVLAP)	http://www.nist.gov/nvlap	Calibration, Non-medical Testing

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

Visit www.iasonline.org for current accreditation information.

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)
Mechanical			
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/m^3 to 3 mg/m^3 3 mg/m^3 to 8 mg/m^3	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

AQuality 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
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/m^3)	Correction (mg/m^3)	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.
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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-222F
Date of Report : 1-Aug-25

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 capabiliy 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 -

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.
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EMAIL : cal.aqtl@gmail.com
WEBSITE: www.aqtlgroup.com

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	250727MCA-222F
	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. : LD-3B
Serial No. : 276004

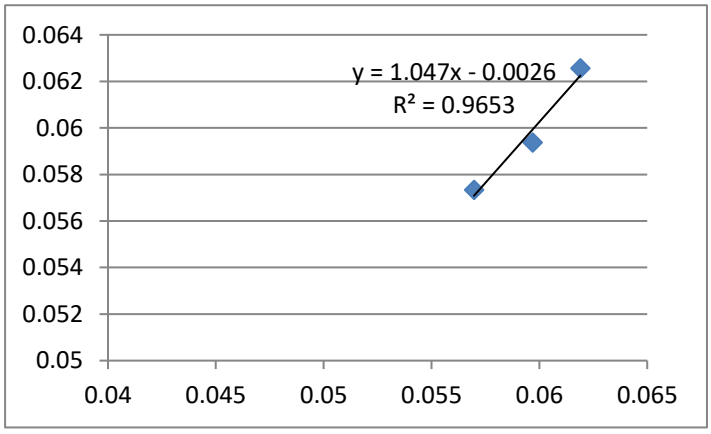
Standard Equipment

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 (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (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 : Jessica Liu Signature: Jessica Date: 27-Jul-25

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

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香港新界粉嶺坪輋路啟芳園11A&11B號
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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/m^3)	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.
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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-221F
Date of Report : 1-Aug-25

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 capabiliy 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 -

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CERTIFICATE OF CALIBRATION

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

Item for Calibration

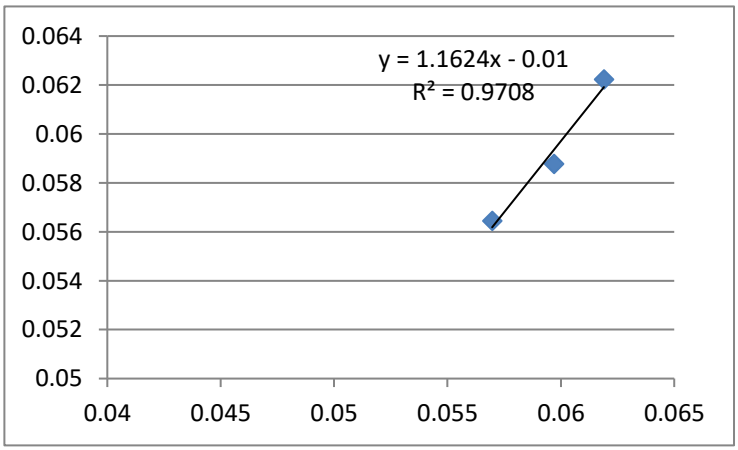
Description : Laser Dust Monitor
Manufacturer : Sibata Scientific Technology Ltd
Model No. : LD-3B
Serial No. : 476672

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 (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (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: Jessica Date: 27-Jul-25

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

AQuality 東恒測試顧問有限公司
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CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F
Date of Report : 1-Aug-25

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/m^3)	Correction (mg/m^3)	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

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

CERTIFICATE OF CALIBRATION

Report Number : 250727MCA-223F
Date of Report : 1-Aug-25

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 capabiliy 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 -

The results shown in this certificate are metrologically traceable to the International System of Units (SI) or recognised measurement standards.
The certificate shall not be reproduced except in full without approval of the laboratory.

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

CERTIFICATE OF CALIBRATION

Apex Testing & Certification Ltd. Unit D6A, 10/F, TML Tower, 3 Hoi Shing Road, Tsuen Wan, N.T., HK	Test Report No.	250727MCA-223F
	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. : LD-3B
Serial No. : 336338

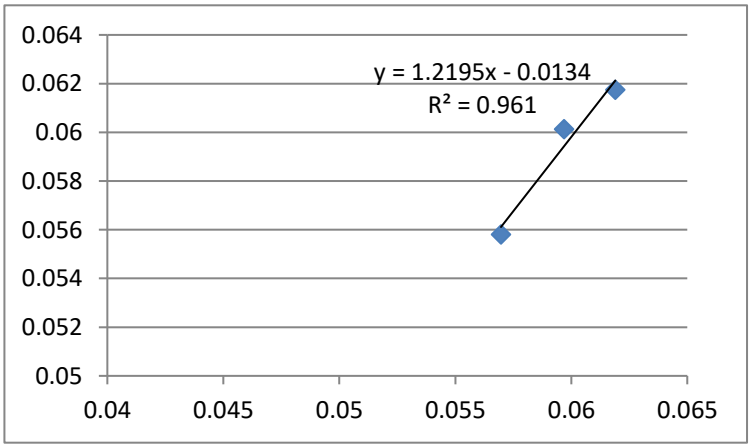
Standard Equipment

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 (°C)	Mean Pressure (hPa)	Concentration Standard Equipment (mg/m3)	Concentration Calibrated Equipment (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: Jessica Date: 27-Jul-25

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

TE-5170 Calibration Worksheet

Site Information

Location:	AM3A	Site ID:	Zones 2A at West Kowloon Cultural	Date:	20-Feb-26
Sampler:	TE-5170	Serial No:	4340	Tech:	CS Tang

Site Conditions

Barometric Pressure (in Hg):	30.08	Corrected Pressure (mm Hg):	764
Temperature (deg F):	66	Temperature (deg K):	292
Average Press. (in Hg):	30.08	Corrected Average (mm Hg):	764
Average Temp. (deg F):	66	Average Temp. (deg K):	292

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 Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)
1	12.80	1.735	53.0	53.68
2	10.50	1.573	48.0	48.62
3	7.40	1.323	41.0	41.53
4	4.60	1.047	33.0	33.43
5	2.70	0.806	23.0	23.30

Linear Regression

Slope: 31.9331

Intercept: -1.3001

Corr. Coeff: 0.9969

# 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

1.296798712

Average Flow Calculation in CFM

45.78996252

Sample Time (Hrs): 1.0

Total Flow in m3/min

77.80792272

Total Flow in CFM

2747.397751

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

TE-5170 Calibration Worksheet

Site Information

Location:	AM5A	Site ID:	Zones 2A at West Kowloon Cultural	Date:	20-Feb-26
Sampler:	TE-5170	Serial No:	4344	Tech:	CS Tang

Site Conditions

Barometric Pressure (in Hg):	30.08	Corrected Pressure (mm Hg):	764
Temperature (deg F):	66	Temperature (deg K):	292
Average Press. (in Hg):	30.08	Corrected Average (mm Hg):	764
Average Temp. (deg F):	66	Average Temp. (deg K):	292

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 Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)
1	12.80	1.735	53.0	53.68
2	10.60	1.580	48.0	48.62
3	7.20	1.305	41.0	41.53
4	4.70	1.058	33.0	33.43
5	2.70	0.806	23.0	23.30

Linear Regression

Slope: 31.9766

Intercept: -1.3613

Corr. Coeff: 0.9966

# 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

1.296949203

Average Flow Calculation in CFM

45.79527637

Sample Time (Hrs): 1.0

Total Flow in m3/min

77.8169522

Total Flow in CFM

2747.716582

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

TE-5170 Calibration Worksheet

Site Information

Location:	AM4A	Site ID:	Zones 2A at West Kowloon Cultural	Date:	20-Feb-26
Sampler:	TE-5170	Serial No:	3998	Tech:	CS Tang

Site Conditions

Barometric Pressure (in Hg):	30.08	Corrected Pressure (mm Hg):	764
Temperature (deg F):	66	Temperature (deg K):	292
Average Press. (in Hg):	30.08	Corrected Average (mm Hg):	764
Average Temp. (deg F):	66	Average Temp. (deg K):	292

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 Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)
1	12.60	1.721	53.0	53.68
2	10.60	1.580	48.0	48.62
3	7.50	1.332	41.0	41.53
4	4.40	1.024	33.0	33.43
5	2.50	0.777	23.0	23.30

Linear Regression

Slope:	31.0153
Intercept:	0.1982
Corr. Coeff:	0.9971
# 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
1.286866454
Average Flow Calculation in CFM
45.43925448
Sample Time (Hrs): 1.0
Total Flow in m3/min
77.21198721
Total Flow in CFM
2726.355269

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

TISCH Environmental

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**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (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 (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0025	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
QSTD	**m=**	**2.11142**	**QA**	**m=**	**1.32213**
	b=	**-0.03845**		**b=**	**-0.02391**
	r=	**0.99983**		**r=**	**0.99983**

Calculations

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

For subsequent flow rate calculations:

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

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

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

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

RECALIBRATION

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

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

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

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

中国认可
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校准
CALIBRATION
CNAS L0730

校准证书

CALIBRATION CERTIFICATE

证书编号 SXE202510293 第 1 页，共 4 页
Certificate No. Page of

计量器具名称 声校准器
Description

型号/规格 AWA6221A
Model/Type

制造厂 HANGZHOU AIHUA INSTRUMENTS CO., LTD.
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 年 06 月 06 日
Receipt on Y M D

结论 符合JJG 176-2022（1级）技术要求
Conclusion 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 李敏毅
Authorized by

核 验 李广智
Reviewed by

校 准 何卓斌
Calibrated by

证书专用章

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 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
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.cn
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

校 准 结 果
RESULTS OF CALIBRATION

证书编号 SXE202510293 原始记录号 SXE202510293 第 3 页,共 4 页
Certificate No. Record No. 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 Nominal Frequency	规定声压级/dB Specified sound pressure level	测得的声压级/dB Measured sound pressure level	测得的声压级与规定声压级之差的绝对值/dB Absolute value of Error	接受限/dB Acceptance limit	结论 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)

3 频率：见表2

Frequency: Shown in table 2

表2 Table 2

规定频率/Hz Specified frequency	标称声压级/dB Nominal sound pressure level	测得的频率/Hz Measured frequency	测得的频率与规定频率相对误差的绝对值/% Absolute value of Error	接受限/% Acceptance limit	结论 Conclusion
1000	94	998.95	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 Specified frequency	标称声压级/dB Nominal sound pressure level	总失真+噪声/% Total Distortion+ noise	接受限/% Acceptance limit	结论 Conclusion
1000	94	0.1	2.5	符合要求(Pass)
1000	114	0.3	2.5	符合要求(Pass)

说　明

证书编号 SXE202510293　　第 2 页，共 4 页
Certificate No.　　**DIRECTIONS**　　Page of

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ISO/IEC 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 Location　声学/振动实验室 Acoustics/Vibration Lab.　温度 Temperature　(25±1) ℃　相对湿度 R.H.　(40～50) %

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 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 Name of Equipment /Model/Type/Range	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
动态信号分析仪 Dynamical Signal Analyzer /3560C (3110模块) /0.1 Hz～200 kHz	2392397	SXE202500778 /2026-04-16 /本中心	电压:U_{rel}=0.2%,频率:U_{rel}=0.002%(k=2) Voltage:U_{rel}=0.2%, Frequency:U_{rel}=0.002%(k=2)
工作标准传声器 Working standard microphone /4190/20 Hz～20 kHz	2383233	SXE202500423 /2026-03-03 /本中心	20 Hz～4 kHz, U=0.20dB 5 kHz～20 kHz, U=0.50dB (k=2)
声校准器 Sound Level Calibrator /4231/94 dB, 114 dB	2730392	SXE202500307 /2026-02-09 /本中心	1 级 Class 1

注：1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

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.

校 准 结 果
RESULTS OF CALIBRATION

证书编号 SXE202510293 原始记录号 SXE202510293 第 4 页,共 4 页
Certificate No. Record No. Page of

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

CTI

中国认可
国际互认
校准
CALIBRATION
CNAS L5102

华测计量检测有限公司

CTI MEASUREMENT AND TESTING CO., LTD.

校准证书

Calibration Certificate

证书编号 Certificate No.	C2509253990002	第1页共7页 Page of	
委托单位 Customer	上峰检测认证有限公司		
委托单位地址 Address	香港荃湾海盛路3号TML广场10楼D6A室		
器具名称 Name of instrument	声级计		
型号规格 Model	AWA5661		
制造商 Manufacturer	杭州爱华仪器有限公司		
出厂编号 Serial No.	301135	管理编号 Management No.	--------
接收日期 Received date	2025/09/26	校准日期 Calibration date	2025/09/27
发布日期 Issue date	2025/09/28	建议下次校准日期 Next calibration date	2026/09/26

证书/报告章
Stamp

校准专用章
Calibration Seal

批准 Approved by	曾财萍 曾财萍
审核 Inspected by	刘然 刘然
校准 Calibrated by	李少雄 李少雄

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

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).

2. **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.

3. **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.

4. **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：22.3℃
Temperature
相对湿度：52%
R.H.

计量溯源性声明

6. **本次校准所使用的主要计量标准器具：**
Main mearsurement standards used in the calibration

名称/型号规格 Name/Model	编号 Serial No.	测量范围 Measurement range	准确度等级/最大允许误差/不确定度 Accuracy class/Maximum permissible error/Uncertainty	证书号/溯源机构 Certificate No./Traceability to	有效期 Due date
声校准器 4231	3014336	94dB~114dB	1级	SXE202510332 广东省计量科学研究院	2026/07/07
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	2029/09/09
声频功率放大器 AWA5871	080649	/	U=0.03dB,k=2	SXE202501365 广东省计量科学研究院	2026/07/08
有源耦合腔 AWA6153S+	2006409	10Hz~400Hz	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
传声器 4192	2996596	1Hz~20000Hz	20Hz ~ 4kHz:U=0.20dB,k=2; 5kHz ~ 20kHz:U=0.50dB,k=2	SXE202501375 广东省计量科学研究院	2026/07/14
信号发生器 AWA1650	089943	0.5Hz~20kHz	电压：U_{rel}=0.2%,k=2 频率：U_{rel}=0.1%,k=2	SXE202501364 广东省计量科学研究院	2026/07/08

说 明

Directions

证书编号 C2509253990002
Certificate No.

名称/型号规格 Name/Model	编号 Serial No.	测量范围 Measurement range	准确度等级/最大允许误差/不确定度 Accuracy class/Maximum permissible error/Uncertainty	证书号/溯源机构 Certificate No./Traceability to	有效期 Due date
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	SXE202501372 广东省计量科学研究院	2026/07/14
测量放大器 AWA5810D	089909	4Hz~20kHz	灵敏度：U=0.04dB,k=2 频率计权：U=0.2dB,k=2 线性计权： 4Hz ~ 10Hz:U=0.11dB,k=2 10Hz ~ 20kHz:U=0.04dB,k=2	SXE202583084 广东省计量科学研究院	2026/07/10
信号发生器(猝发音发生器) AWA1650	089943	10Hz~20kHz	时间：(0.1~10) ms:U_{rel}=0.36%,k=2 (> 10~200) ms:U_{rel}=0.28%,k=2 (> 0.2~10) s:U_{rel}=0.24%,k=2 频率:U_{rel}=0.01%,k=2 电压:U_{rel}=0.1%,k=2	SXE202583085 广东省计量科学研究院	2026/07/14

校准结果

Results of calibration

证书编号 C2509253990002
Certificate No.

1. 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 (Hz)	声校准器标准值 (dB)	调校前声级计示值 (dB)	调校后声级计示值 (dB)	接受限 (dB)	结论 Pass/Fail
A	1000	94	93.5	94.0	93.7 ~ 94.3	Pass

3. 频率计权的声信号实验 （频率：1000Hz/A频率计权）

声压级标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
44	44.2	43.2 ~ 44.8	Pass
54	54.1	53.2 ~ 54.8	Pass
64	64.0	63.2 ~ 64.8	Pass
74	74.0	73.2 ~ 74.8	Pass
84	84.0	83.2 ~ 84.8	Pass
94	94.0	93.2 ~ 94.8	Pass
104	104.0	103.2 ~ 104.8	Pass
114	114.1	113.2 ~ 114.8	Pass

4. 本机自生噪音

测试类型	频率计权	实测值（dB）
声信号	A	41.2
电信号	A	41.5
	C	46.3
	Z	48.6

5. 级线性（1dB ~ 10dB内变化）： 起始点指示声级 90 dB

频率 (Hz)	测量项目 ----	实测值 (dB)	接受限 (dB)	结论 Pass/Fail
1000	起始点以上每间隔10dB最大偏差	+0.1	± 0.3	Pass
	起始点以下每间隔10dB最大偏差	0.0	± 0.3	Pass
	距上限5dB内每隔1dB最大偏差	0.0	± 0.3	Pass
	距下限5dB内每隔1dB最大偏差	-0.1	± 0.3	Pass
8000	起始点以上每间隔10dB最大偏差	0.0	± 0.3	Pass
	起始点以下每间隔10dB最大偏差	0.0	± 0.3	Pass
	距上限5dB内每隔1dB最大偏差	-0.1	± 0.3	Pass
	距下限5dB内每隔1dB最大偏差	0.0	± 0.3	Pass

校准结果

Results of calibration

证书编号 C2509253990002
Certificate No.

6. 频率计权

频率 (Hz)	A计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	-50.5	-50.6	-48.5 ~ -52.5	Pass
31.5	-39.4	-39.5	-37.9 ~ -40.9	Pass
63	-26.2	-26.2	-25.2 ~ -27.2	Pass
125	-16.1	-16.2	-15.1 ~ -17.1	Pass
250	-8.6	-8.6	-7.6 ~ -9.6	Pass
500	-3.2	-3.2	-2.2 ~ -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	+1.0	+2.0 ~ 0.0	Pass
8000	-1.1	-1.3	+0.4 ~ -3.6	Pass
16000	-6.6	-9.6	-4.1 ~ -22.6	Pass
20000	-9.3	-22.5	-6.3 ~ -∞	Pass

频率 (Hz)	C计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	-6.2	-6.2	-4.2 ~ -8.2	Pass
31.5	-3.0	-3.0	-1.5 ~ -4.5	Pass
63	-0.8	-0.8	+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	-0.2	+0.8 ~ -1.2	Pass
4000	-0.8	-0.8	+0.2 ~ -1.8	Pass
8000	-3.0	-3.0	-1.5 ~ -4.5	Pass
16000	-8.5	-11.5	-6.0 ~ -24.5	Pass
20000	-11.2	-24.3	-8.2 ~ -∞	Pass

校准结果

Results of calibration

证书编号 C2509253990002
Certificate No.

频率 (Hz)	Z计权标准值 (dB)	声压级指示值 (dB)	接受限 (dB)	结论 Pass/Fail
20	0.0	−0.1	+2.0 ~ −2.0	Pass
31.5	0.0	−0.1	+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	0.0	+1.5 ~ −2.5	Pass
16000	0.0	−0.1	+2.5 ~ −16.0	Pass
20000	0.0	−0.3	+3.0 ~ −∞	Pass

7. 1kHz处的频率计权

A计权参考声级 (dB)	C频率计权相对A频率计权的偏差 (dB)	Z频率计权相对A频率计权的偏差 (dB)	结论 Pass/Fail	接受限 (dB)
94	0.0	−0.1	Pass	± 0.2

8. F和S时间计权

衰减速率 (dB/s)	实测值 (dB/s)	接受限 (dB/s)	结论 Pass/Fail
快（F）计权	34.6	31.0 ~ 38.5	Pass
慢（S）计权	4.4	3.6 ~ 5.1	Pass

9. 猝发音响应（A计权）

猝发音持续时间 (ms)	(LAFmax−LA)标准值 (dB)	(LAFmax−LA)指示值 (dB)	接受限 (dB)	结论 Pass/Fail
200	−1.0	−1.0	−0.5 ~ −1.5	Pass
2	−18.0	−18.0	−17.0 ~ −18.5	Pass
0.25	−27.0	−27.1	−26.0 ~ −30.0	Pass
猝发音持续时间 (ms)	(LASmax−LA)标准值 (dB)	(LSFmax−LA)指示值 (dB)	接受限(dB) (dB)	结论 Pass/Fail
200	−7.4	−7.4	−6.9 ~ −7.9	Pass
2	−27.0	−27.2	−26.0 ~ −30.0	Pass

校准结果

Results of calibration

证书编号 C2509253990002
Certificate No.

注：仪器配传声器型号： AWA14425 ，传声器编号： 61356
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； 1600Hz～10000Hz， U= 0.6 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；
猝发音电信号：（0～140）dB， （1000～8000）Hz，(0.25～1000)ms U= 0.3 dB，k=2；
时间计权 F 和 S： F:(25～40)dB/s，U= 3.2 dB/s，k=2； S:(1～10)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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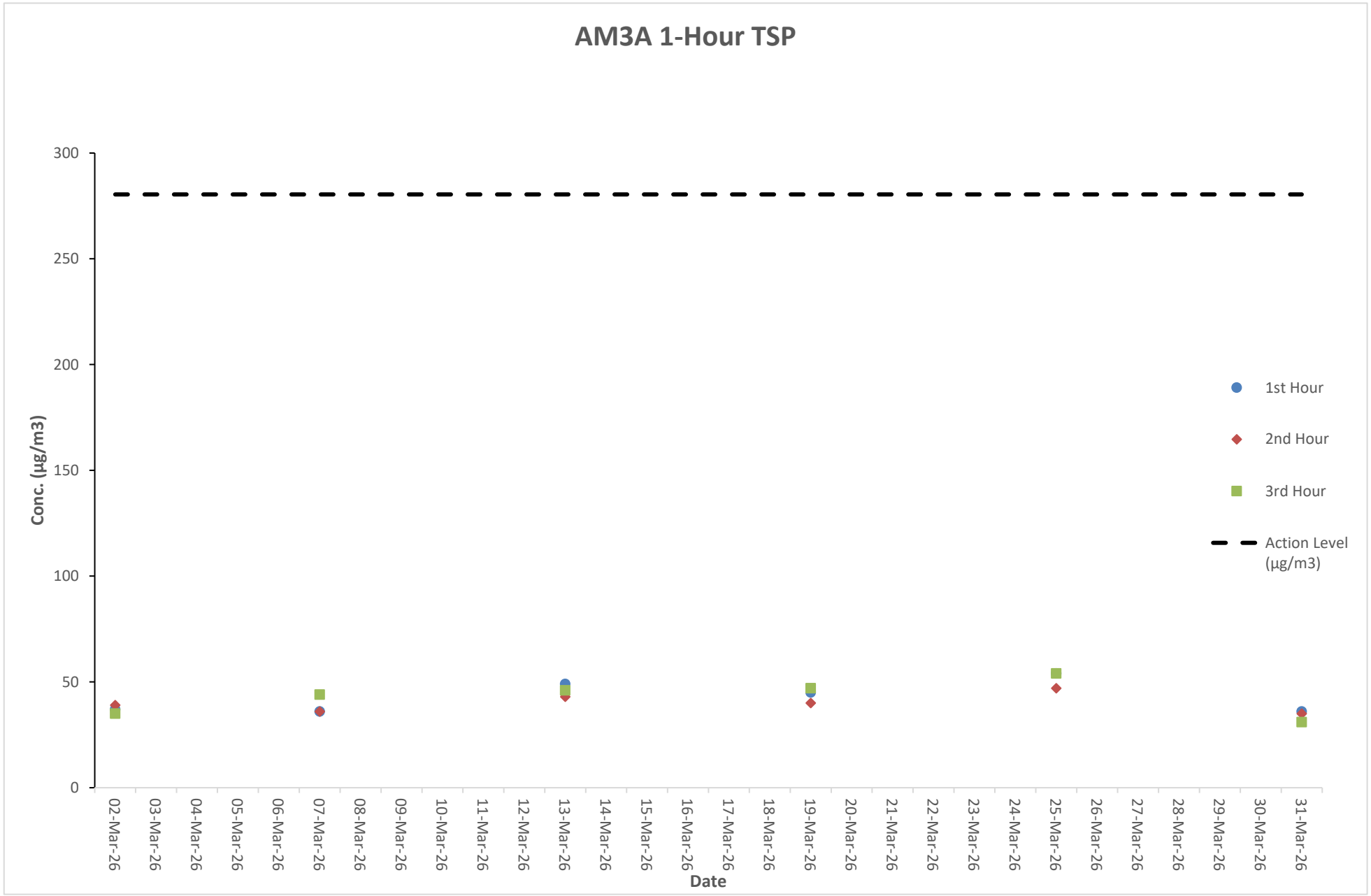
G. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time		Conc. (μg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Mar-26	Cloudy	7:00	10:00	37	39	35	280.4	500
07-Mar-26	Fine	13:04	16:04	36	36	44	280.4	500
13-Mar-26	Fine	7:02	10:02	49	43	46	280.4	500
19-Mar-26	Fine	13:05	16:05	45	40	47	280.4	500
25-Mar-26	Fine	7:01	10:01	54	47	54	280.4	500
31-Mar-26	Cloudy	13:03	16:03	36	35	31	280.4	500

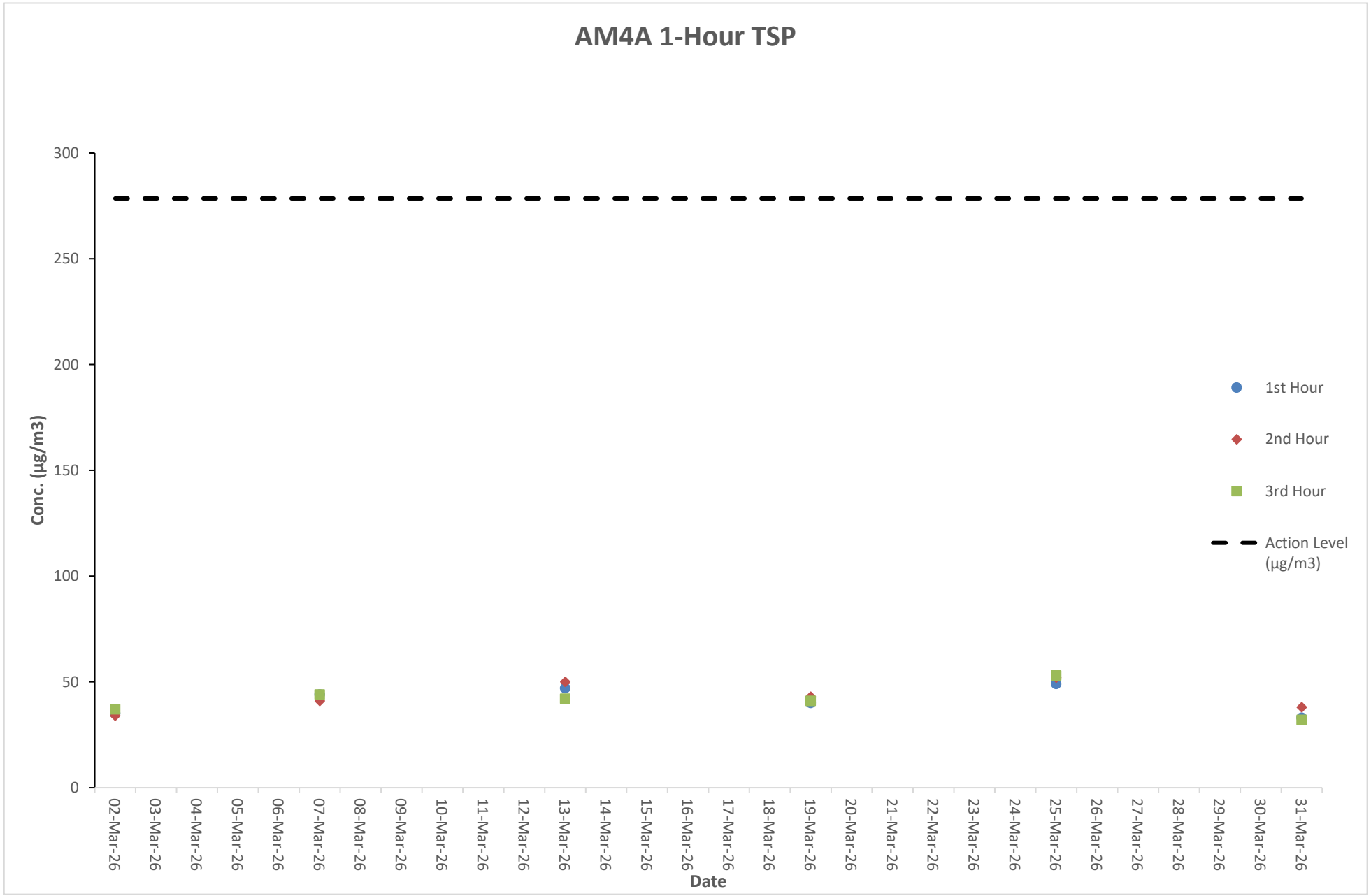
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



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

Date	Weather Condition	Time		Conc. (μg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Mar-26	Cloudy	7:08	10:08	35	34	37	278.5	500
07-Mar-26	Fine	13:12	16:12	44	41	44	278.5	500
13-Mar-26	Fine	7:10	10:10	47	50	42	278.5	500
19-Mar-26	Fine	13:13	16:13	40	43	41	278.5	500
25-Mar-26	Fine	7:09	10:09	49	52	53	278.5	500
31-Mar-26	Cloudy	13:11	16:11	33	38	32	278.5	500

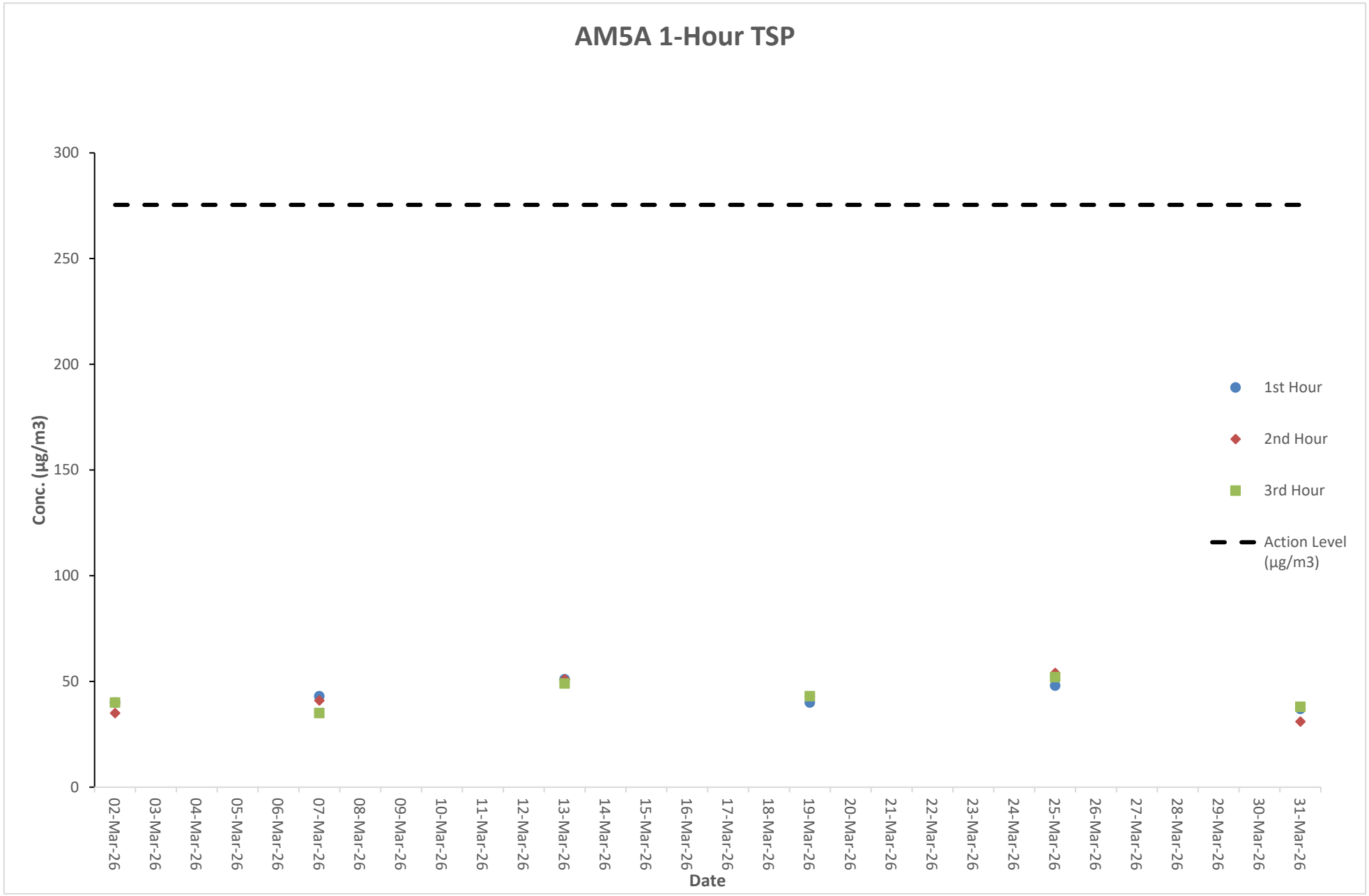
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (1-hour TSP)



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

Date	Weather Condition	Time		Conc. (μg/m3)			Action Level	Limit Level
		Start	Finish	1st Hour	2nd Hour	3rd Hour		
02-Mar-26	Cloudy	7:23	10:23	40	35	40	275.4	500
07-Mar-26	Fine	13:29	16:29	43	41	35	275.4	500
13-Mar-26	Fine	7:25	10:25	51	51	49	275.4	500
19-Mar-26	Fine	13:30	16:30	40	43	43	275.4	500
25-Mar-26	Fine	7:24	10:24	48	54	52	275.4	500
31-Mar-26	Cloudy	13:28	16:28	37	31	38	275.4	500

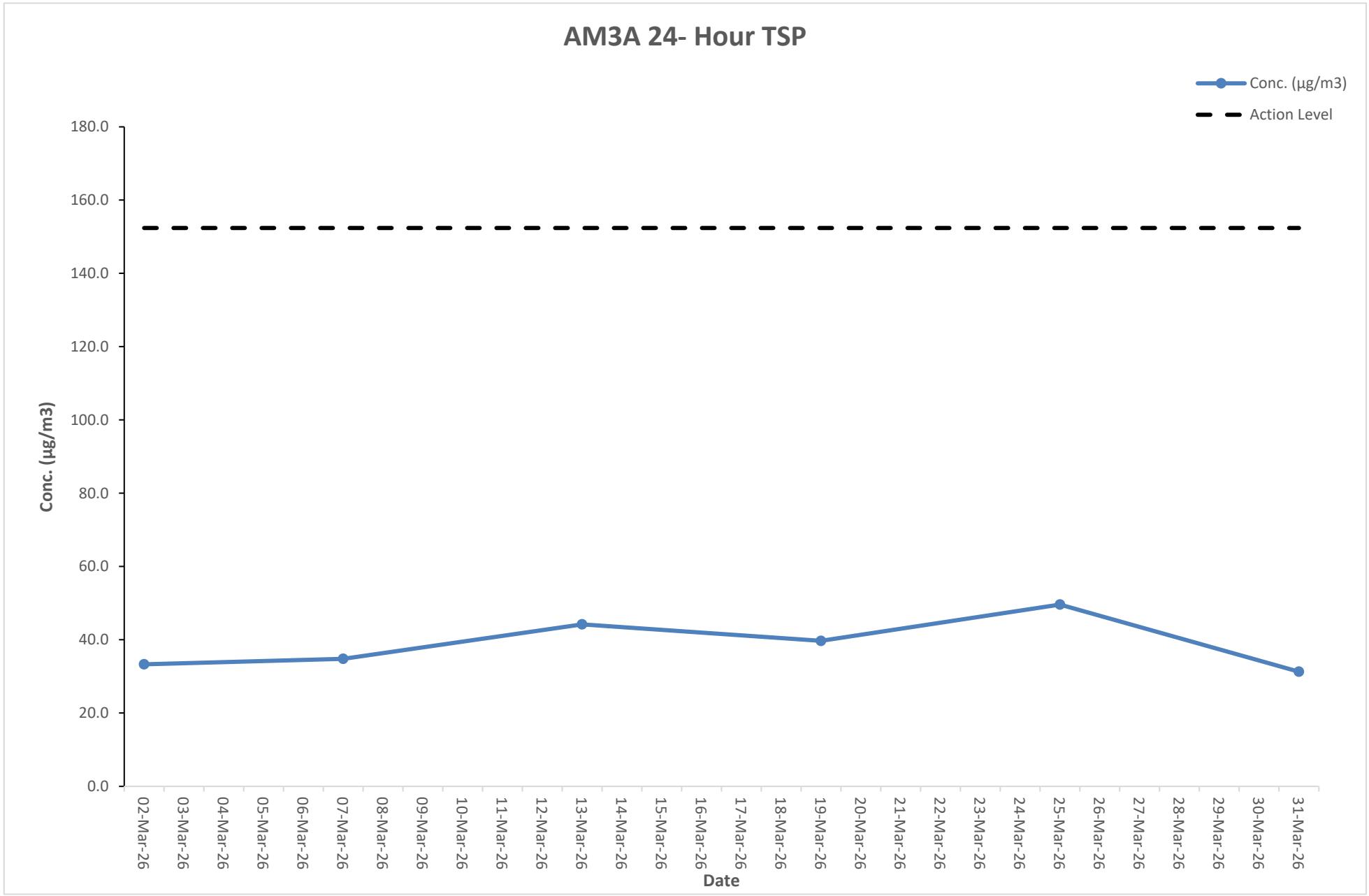
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m^3/min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Mar-26	10:00AM	03-Mar-26	10:00AM	2.8058	2.8593	9647.8	9671.8	24	1.12	1.12	1.12	33.3	Rainy	152.4	260
07-Mar-26	10:00AM	08-Mar-26	10:00AM	2.8066	2.8627	9671.8	9695.8	24	1.12	1.12	1.12	34.8	Sunny	152.4	260
13-Mar-26	10:00AM	14-Mar-26	10:00AM	2.8058	2.8769	9695.8	9719.8	24	1.12	1.12	1.12	44.2	Sunny	152.4	260
19-Mar-26	10:00AM	20-Mar-26	10:00AM	2.8075	2.8714	9719.8	9743.8	24	1.12	1.12	1.12	39.7	Sunny	152.4	260
25-Mar-26	10:00AM	26-Mar-26	10:00AM	2.8035	2.8833	9743.8	9767.8	24	1.12	1.12	1.12	49.6	Sunny	152.4	260
31-Mar-26	10:00AM	01-Apr-26	10:00AM	2.8052	2.8555	9767.8	9791.8	24	1.12	1.12	1.12	31.3	Cloudy	152.4	260

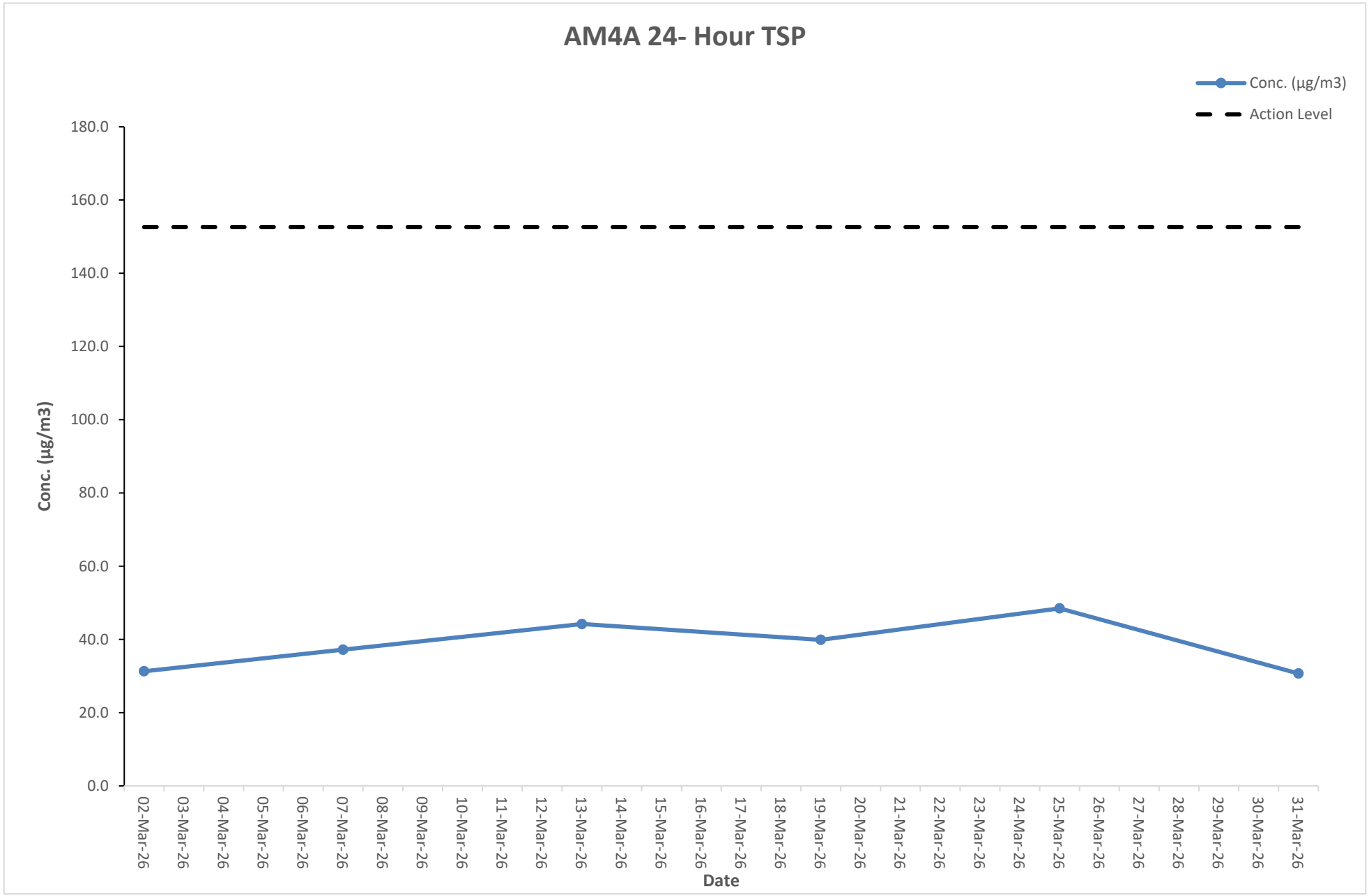
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m^3/min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Mar-26	10:00AM	03-Mar-26	10:00AM	2.8038	2.8541	10067.4	10091.4	24	1.12	1.12	1.12	31.3	Rainy	152.6	260
07-Mar-26	10:00AM	08-Mar-26	10:00AM	2.8050	2.8649	10091.4	10115.4	24	1.12	1.12	1.12	37.2	Sunny	152.6	260
13-Mar-26	10:00AM	14-Mar-26	10:00AM	2.8042	2.8753	10115.4	10139.4	24	1.12	1.12	1.12	44.2	Sunny	152.6	260
19-Mar-26	10:00AM	20-Mar-26	10:00AM	2.8053	2.8695	10139.4	10163.4	24	1.12	1.12	1.12	39.9	Sunny	152.6	260
25-Mar-26	10:00AM	26-Mar-26	10:00AM	2.8043	2.8823	10163.4	10187.4	24	1.12	1.12	1.12	48.5	Sunny	152.6	260
31-Mar-26	10:00AM	01-Apr-26	10:00AM	2.8089	2.8584	10187.4	10211.4	24	1.12	1.12	1.12	30.7	Cloudy	152.6	260

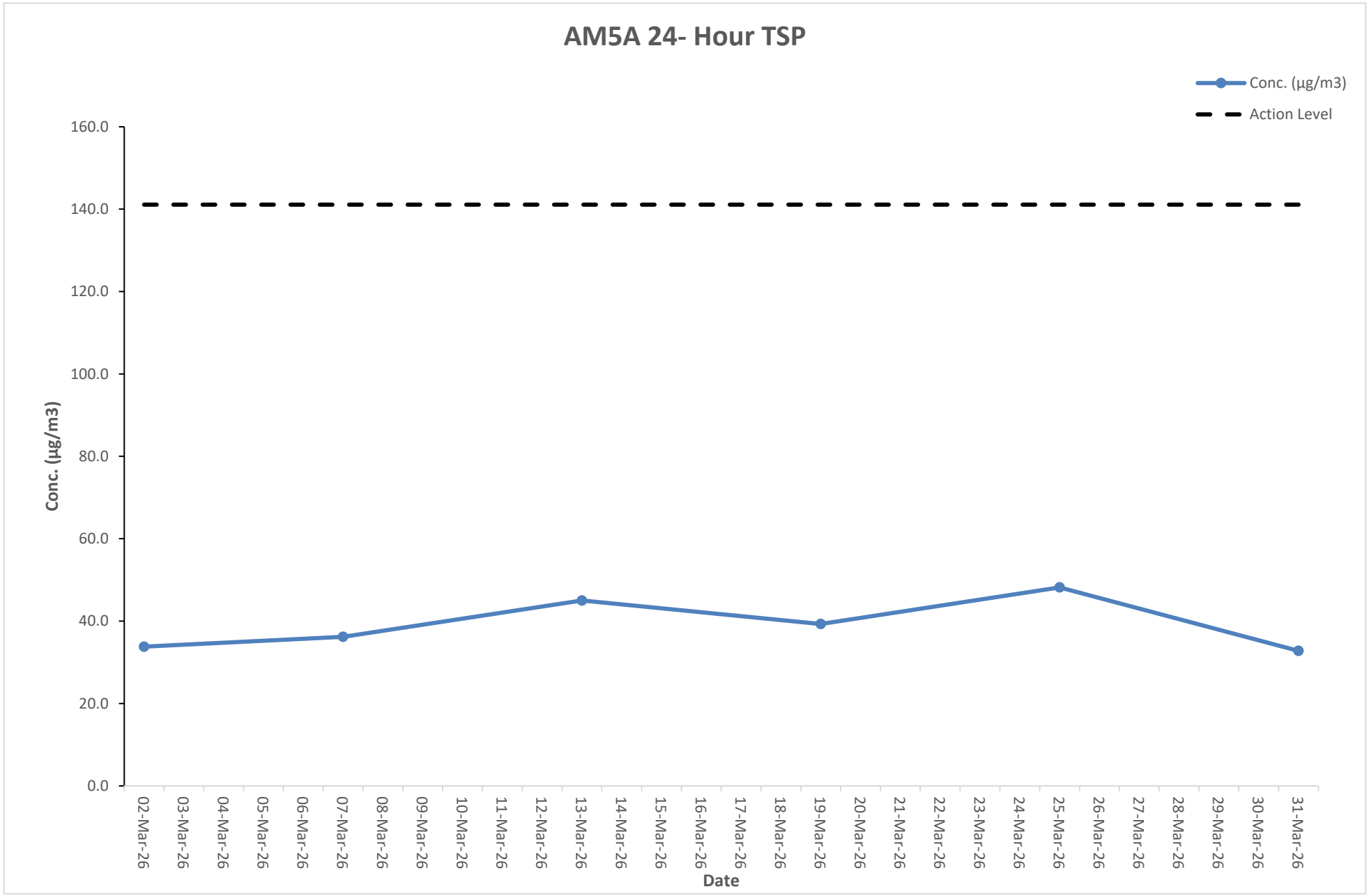
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m^3/min)			Conc. (µg/m3)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Mar-26	10:00AM	03-Mar-26	10:00AM	2.8034	2.8577	10205.6	10229.6	24	1.12	1.12	1.12	33.8	Rainy	141.1	260
07-Mar-26	10:00AM	08-Mar-26	10:00AM	2.8073	2.8655	10229.6	10253.6	24	1.12	1.12	1.12	36.2	Sunny	141.1	260
13-Mar-26	10:00AM	14-Mar-26	10:00AM	2.8059	2.8784	10253.6	10277.6	24	1.12	1.12	1.12	45.0	Sunny	141.1	260
19-Mar-26	10:00AM	20-Mar-26	10:00AM	2.8073	2.8706	10277.6	10301.6	24	1.12	1.12	1.12	39.3	Sunny	141.1	260
25-Mar-26	10:00AM	26-Mar-26	10:00AM	2.8087	2.8863	10301.6	10325.6	24	1.12	1.12	1.12	48.2	Sunny	141.1	260
31-Mar-26	10:00AM	01-Apr-26	10:00AM	2.8081	2.8608	10325.6	10349.6	24	1.12	1.12	1.12	32.8	Cloudy	141.1	260

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

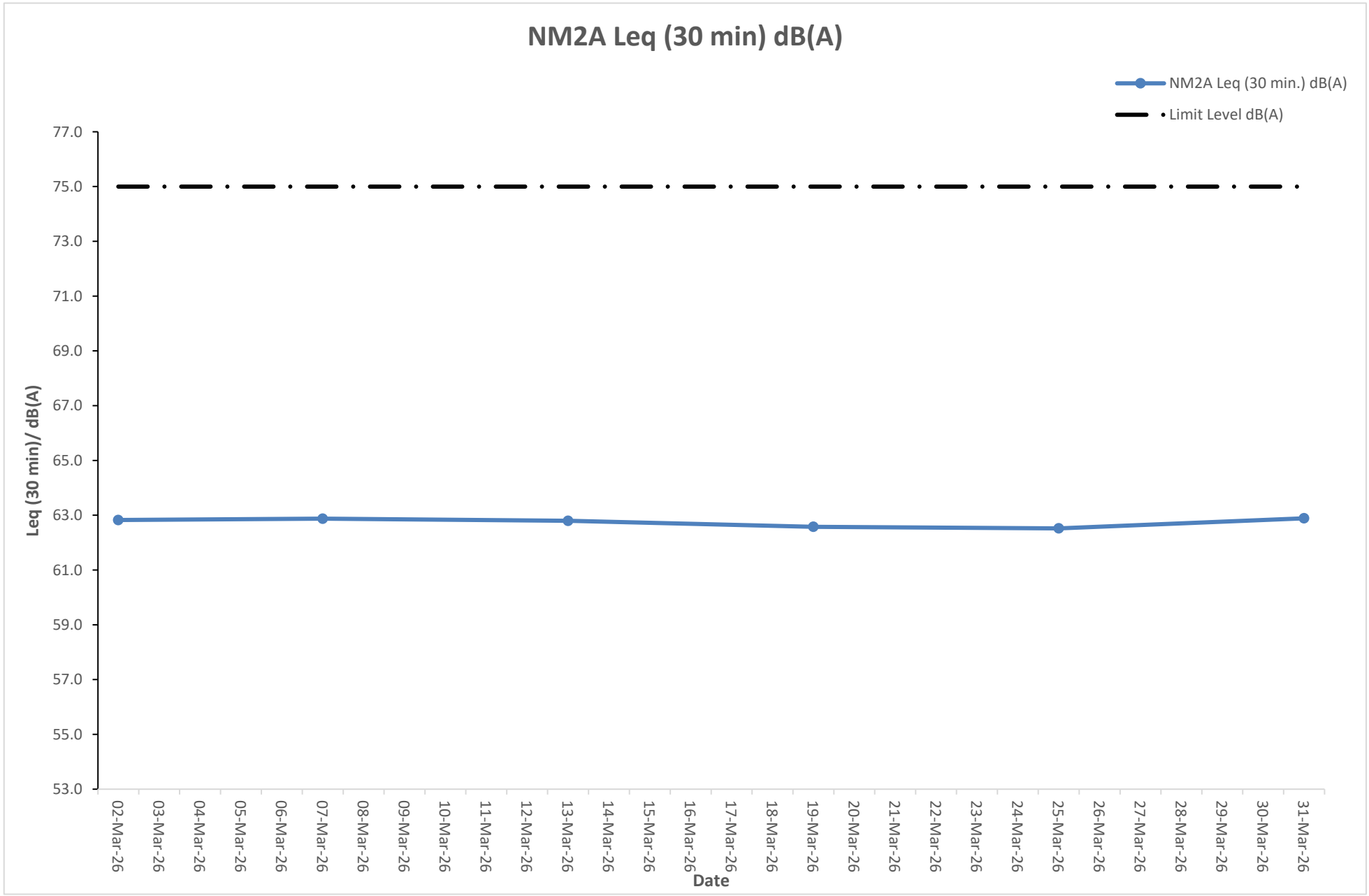


Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Mar-26	7:00	64.7	61.5	62.8
02-Mar-26	7:05	64.8	60.4	
02-Mar-26	7:10	64.5	61.1	
02-Mar-26	7:15	64.9	61.6	
02-Mar-26	7:20	64.4	60.4	
02-Mar-26	7:25	63.6	61.5	
07-Mar-26	13:04	64.1	61.4	62.9
07-Mar-26	13:09	64.8	60.8	
07-Mar-26	13:14	63.9	61.5	
07-Mar-26	13:19	64.5	61.4	
07-Mar-26	13:24	63.8	61.1	
07-Mar-26	13:29	64.5	61.6	
13-Mar-26	7:02	64.1	60.8	62.8
13-Mar-26	7:07	63.6	61.5	
13-Mar-26	7:12	65.0	61.2	
13-Mar-26	7:17	64.9	61.4	
13-Mar-26	7:22	63.7	61.5	
13-Mar-26	7:27	64.9	60.3	
19-Mar-26	13:05	65.0	60.3	62.6
19-Mar-26	13:10	64.6	60.8	
19-Mar-26	13:15	65.0	61.6	
19-Mar-26	13:20	64.3	60.8	
19-Mar-26	13:25	63.8	60.8	
19-Mar-26	13:30	64.3	60.2	
25-Mar-26	7:01	64.4	60.7	62.5
25-Mar-26	7:06	64.9	61.5	
25-Mar-26	7:11	64.4	60.8	
25-Mar-26	7:16	64.6	60.5	
25-Mar-26	7:21	64.1	60.7	
25-Mar-26	7:26	64.1	60.6	
31-Mar-26	14:02	63.6	60.9	62.9
31-Mar-26	14:07	65.0	60.3	
31-Mar-26	14:12	63.7	60.7	
31-Mar-26	14:17	63.6	61.3	
31-Mar-26	14:22	64.5	61.6	
31-Mar-26	14:27	64.8	61.3	

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

Graphical Presentation of Noise Monitoring Result at Station NM2A

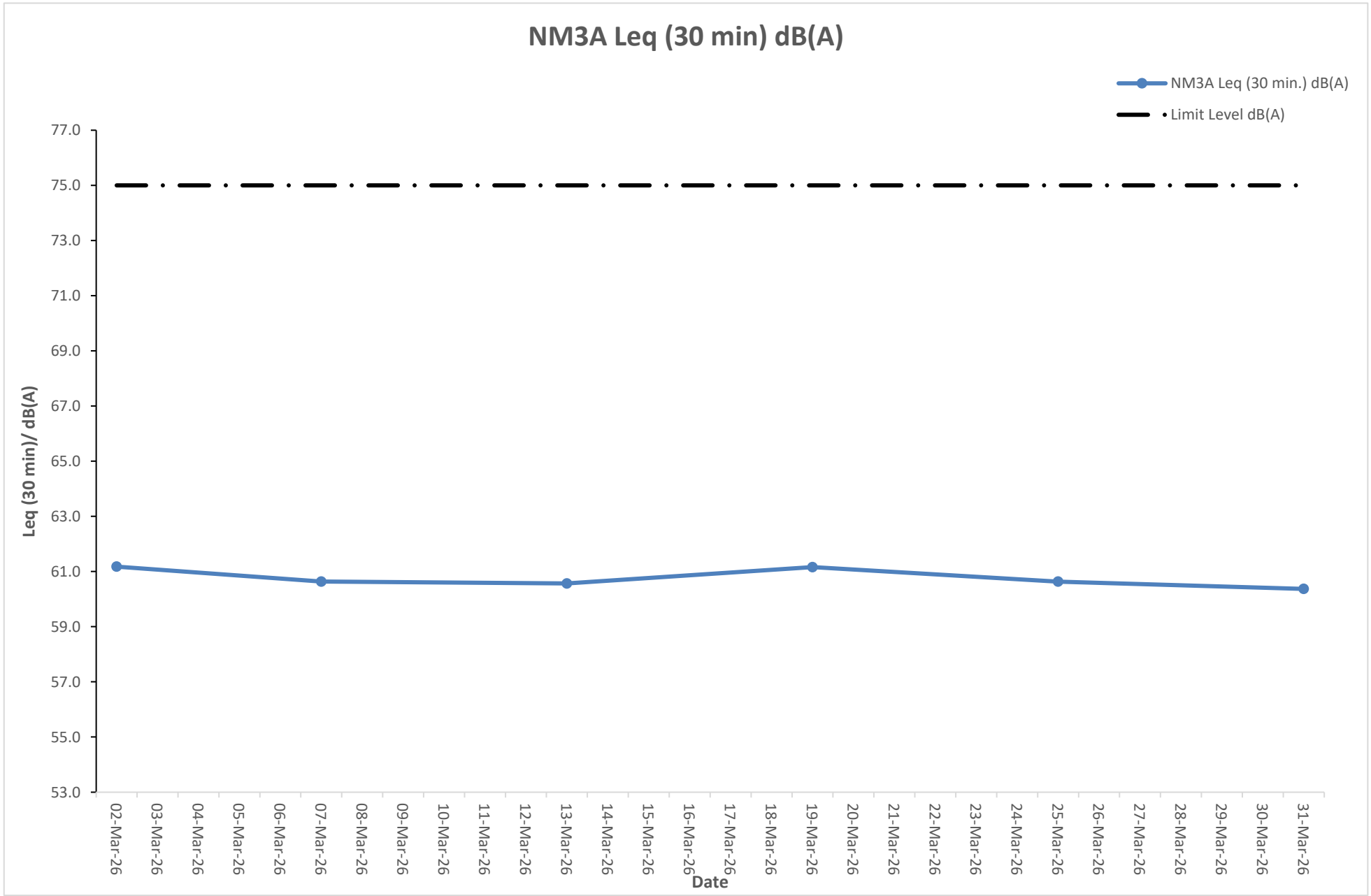


Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Mar-26	8:30	63.2	55.9	61.2
02-Mar-26	8:35	62.0	57.7	
02-Mar-26	8:40	62.9	56.8	
02-Mar-26	8:45	62.0	56.7	
02-Mar-26	8:50	62.1	57.5	
02-Mar-26	8:55	63.1	57.1	
07-Mar-26	14:25	62.3	56.1	60.6
07-Mar-26	14:30	62.0	56.9	
07-Mar-26	14:35	63.8	56.7	
07-Mar-26	14:40	62.0	57.8	
07-Mar-26	14:45	63.6	56.2	
07-Mar-26	14:50	63.4	56.1	
13-Mar-26	8:32	63.6	56.7	60.6
13-Mar-26	8:37	63.0	55.9	
13-Mar-26	8:42	63.7	55.9	
13-Mar-26	8:47	63.0	56.6	
13-Mar-26	8:52	62.1	57.1	
13-Mar-26	8:57	63.0	57.1	
19-Mar-26	14:21	63.5	55.9	61.2
19-Mar-26	14:26	63.0	56.1	
19-Mar-26	14:31	62.2	56.6	
19-Mar-26	14:36	62.8	56.7	
19-Mar-26	14:41	63.4	56.4	
19-Mar-26	14:46	63.2	56.6	
25-Mar-26	8:31	62.8	57.0	60.6
25-Mar-26	8:36	62.9	56.0	
25-Mar-26	8:41	63.7	56.3	
25-Mar-26	8:46	63.3	57.5	
25-Mar-26	8:51	62.2	57.1	
25-Mar-26	8:56	63.6	56.4	
31-Mar-26	15:18	63.2	56.5	60.4
31-Mar-26	15:23	62.7	56.8	
31-Mar-26	15:28	61.9	57.6	
31-Mar-26	15:33	62.3	57.3	
31-Mar-26	15:38	62.0	57.4	
31-Mar-26	15:43	62.6	56.0	

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

Graphical Presentation of Noise Monitoring Result at Station NM3A

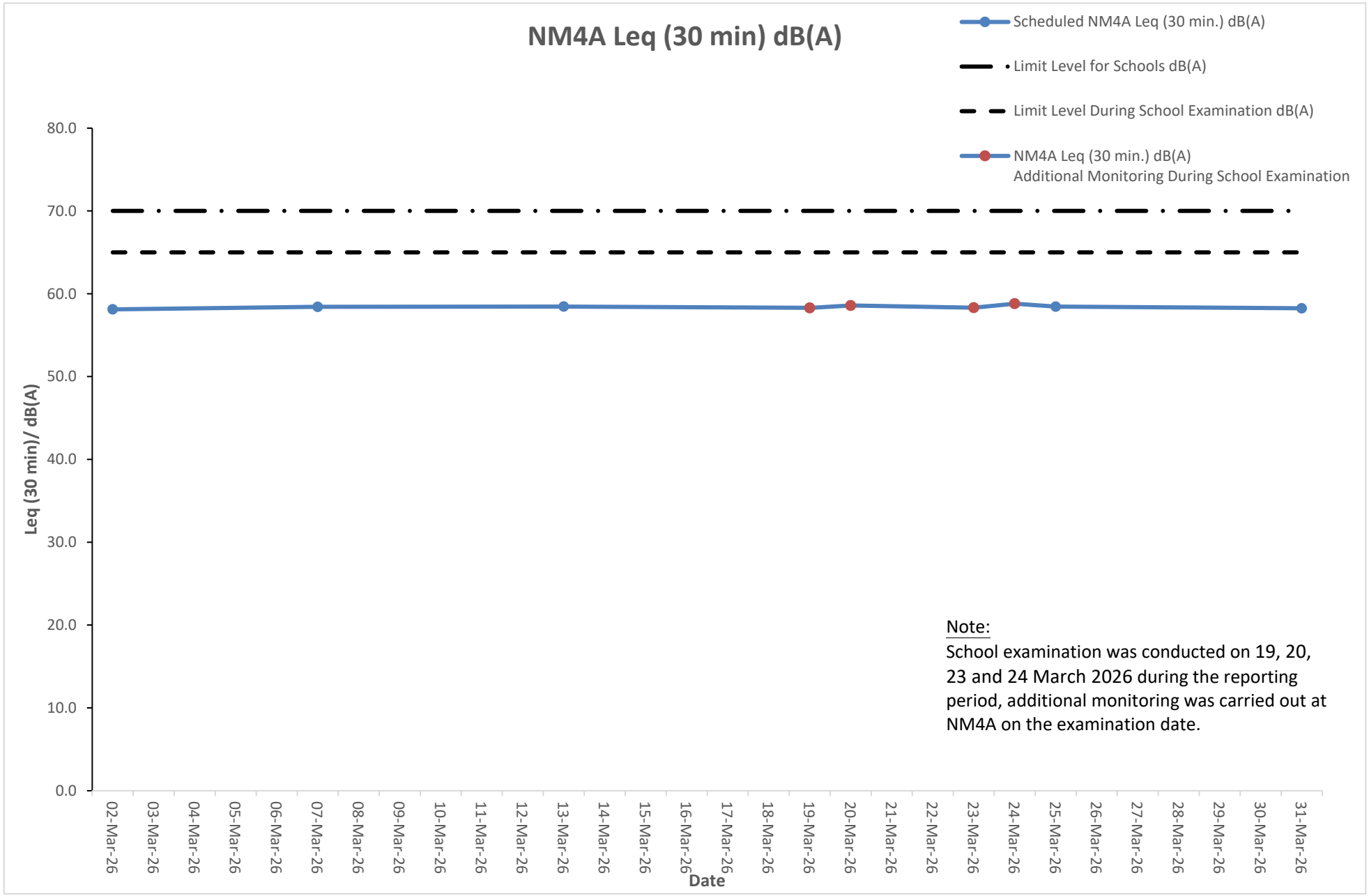


Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Mar-26	10:35	60.2	56.6	58.1
02-Mar-26	10:40	60.5	57.0	
02-Mar-26	10:45	59.5	56.8	
02-Mar-26	10:50	60.6	56.4	
02-Mar-26	10:55	59.4	56.0	
02-Mar-26	11:00	60.4	57.1	
07-Mar-26	15:00	60.0	56.5	58.4
07-Mar-26	15:05	59.7	56.7	
07-Mar-26	15:10	59.7	55.7	
07-Mar-26	15:15	59.8	57.1	
07-Mar-26	15:20	59.7	57.0	
07-Mar-26	15:25	59.7	57.0	
13-Mar-26	10:37	60.1	56.5	58.4
13-Mar-26	10:42	60.5	56.8	
13-Mar-26	10:47	59.2	56.4	
13-Mar-26	10:52	60.3	56.2	
13-Mar-26	10:57	60.3	56.4	
13-Mar-26	11:02	59.2	56.0	
19-Mar-26	14:56	59.9	57.1	58.3
19-Mar-26	15:01	59.9	56.3	
19-Mar-26	15:06	60.2	56.1	
19-Mar-26	15:11	60.0	55.8	
19-Mar-26	15:16	60.4	56.4	
19-Mar-26	15:21	59.2	55.8	
25-Mar-26	10:36	60.4	56.8	58.4
25-Mar-26	10:41	59.4	56.8	
25-Mar-26	10:46	59.7	55.8	
25-Mar-26	10:51	60.3	56.6	
25-Mar-26	10:56	60.1	55.7	
25-Mar-26	11:01	60.1	56.9	
31-Mar-26	15:53	60.1	56.2	58.2
31-Mar-26	15:58	59.6	56.5	
31-Mar-26	16:03	60.5	56.3	
31-Mar-26	16:08	60.1	56.6	
31-Mar-26	16:13	60.1	57.0	
31-Mar-26	16:18	59.3	56.1	

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

Graphical Presentation of Noise Monitoring Result at Station NM4A



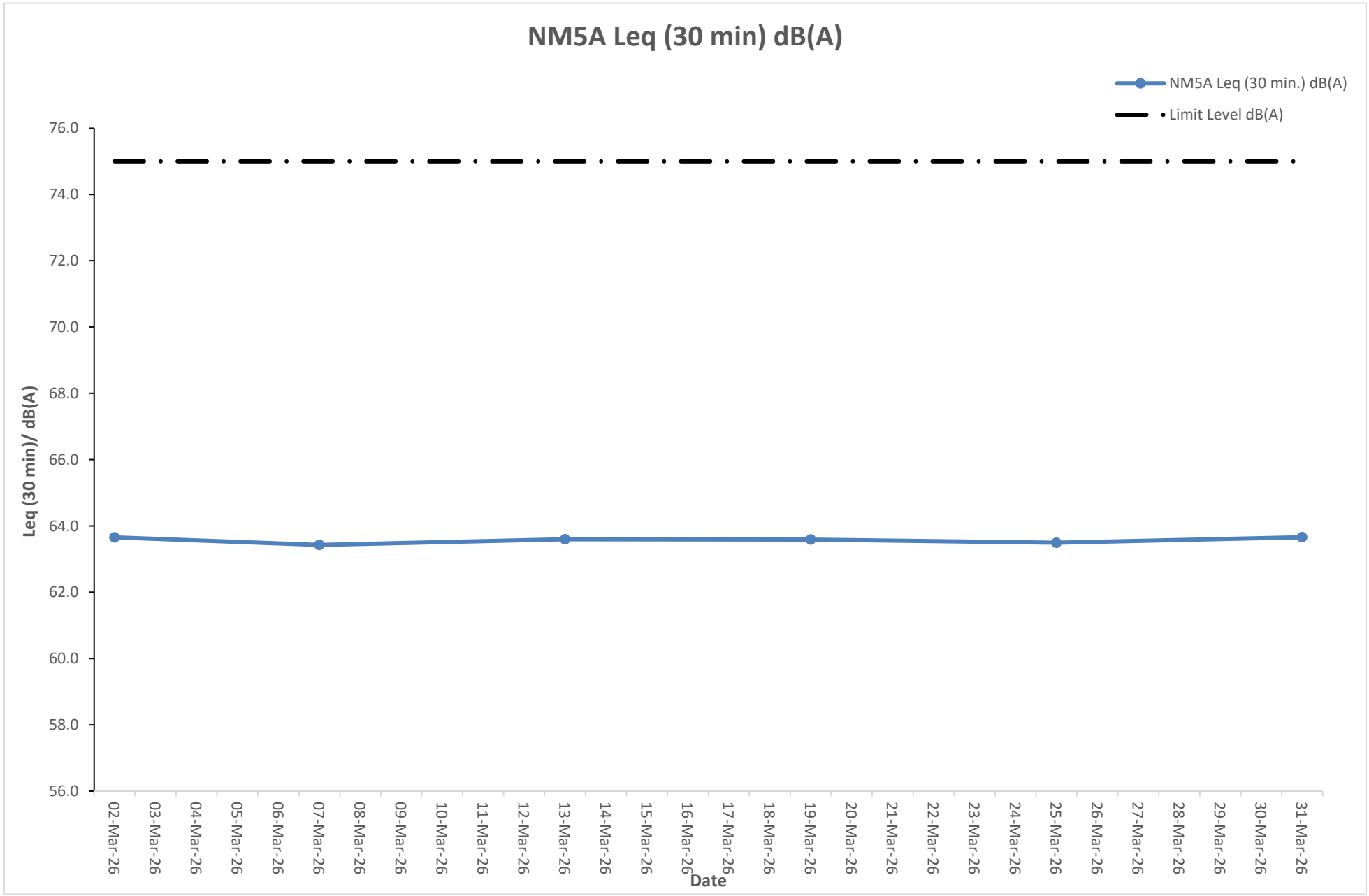
Noise Monitoring Result at Station NM5A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	Leq (30 min.) +3 dB(A)
02-Mar-26	7:50	62.4	57.8	60.7	63.7
02-Mar-26	7:55	62.3	58.5		
02-Mar-26	8:00	61.8	57.9		
02-Mar-26	8:05	62.2	57.4		
02-Mar-26	8:10	62.1	57.7		
02-Mar-26	8:15	62.7	57.7		
07-Mar-26	13:44	61.6	57.4	60.4	63.4
07-Mar-26	13:49	61.4	58.9		
07-Mar-26	13:54	62.1	57.6		
07-Mar-26	13:59	62.6	57.8		
07-Mar-26	14:04	62.2	58.1		
07-Mar-26	14:09	61.6	58.6		
13-Mar-26	7:52	62.5	58.4	60.6	63.6
13-Mar-26	7:57	61.5	59.2		
13-Mar-26	8:02	62.2	58.0		
13-Mar-26	8:07	62.8	58.0		
13-Mar-26	8:12	62.5	58.1		
13-Mar-26	8:17	62.1	59.1		
19-Mar-26	13:43	62.2	57.9	60.6	63.6
19-Mar-26	13:48	61.6	58.4		
19-Mar-26	13:53	62.5	57.8		
19-Mar-26	13:58	62.3	58.9		
19-Mar-26	14:03	62.7	57.4		
19-Mar-26	14:08	62.0	58.0		
25-Mar-26	7:51	62.5	58.2	60.5	63.5
25-Mar-26	7:56	61.8	58.8		
25-Mar-26	8:01	62.1	57.6		
25-Mar-26	8:06	62.2	58.7		
25-Mar-26	8:11	61.8	59.1		
25-Mar-26	8:16	61.6	58.9		
31-Mar-26	14:40	62.3	57.4	60.7	63.7
31-Mar-26	14:45	61.8	58.6		
31-Mar-26	14:50	62.8	57.8		
31-Mar-26	14:55	62.2	57.5		
31-Mar-26	15:00	62.6	58.5		
31-Mar-26	15:05	61.5	58.3		

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

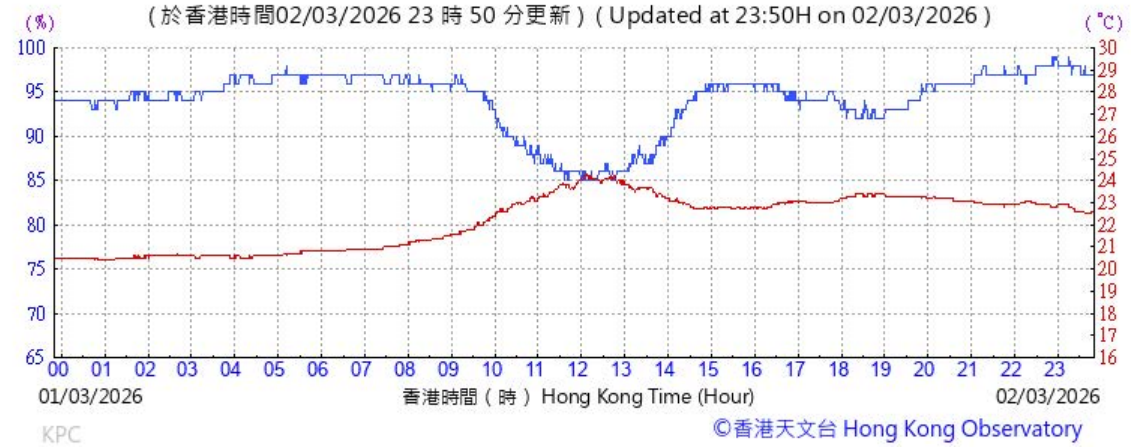
The station set-up of a free-field measurement at station NM5A.

Graphical Presentation of Noise Monitoring Result at Station NM5A

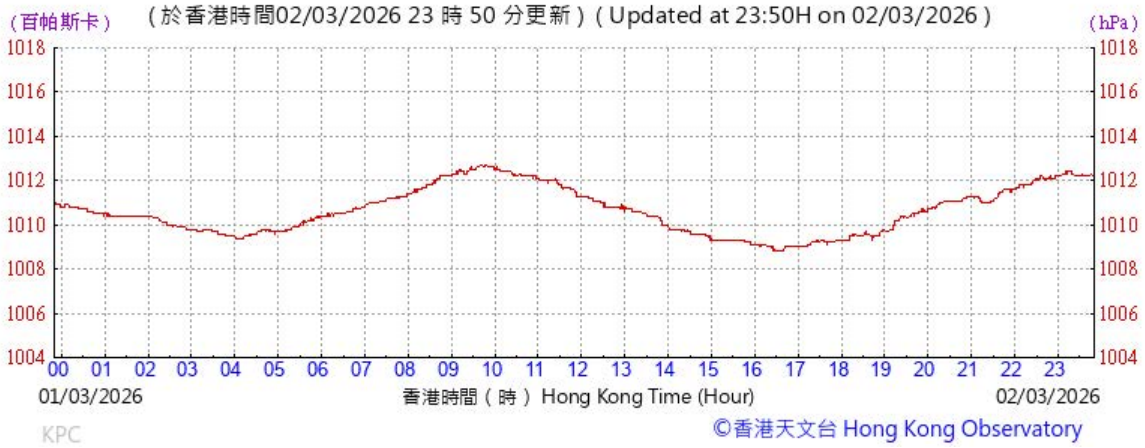


H. Meteorological Data Extracted from Hong Kong Observatory

Tempearture/Humidity:

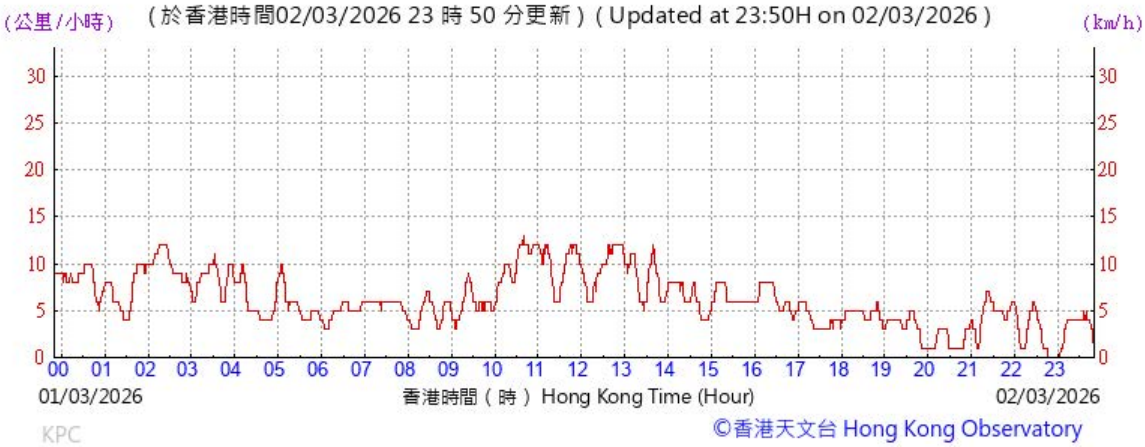


Pressure:

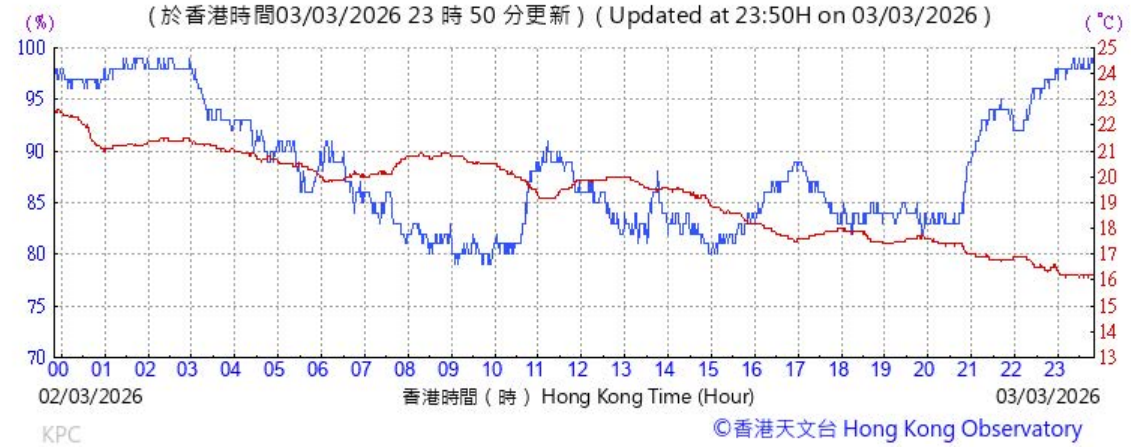


Wind Direction:

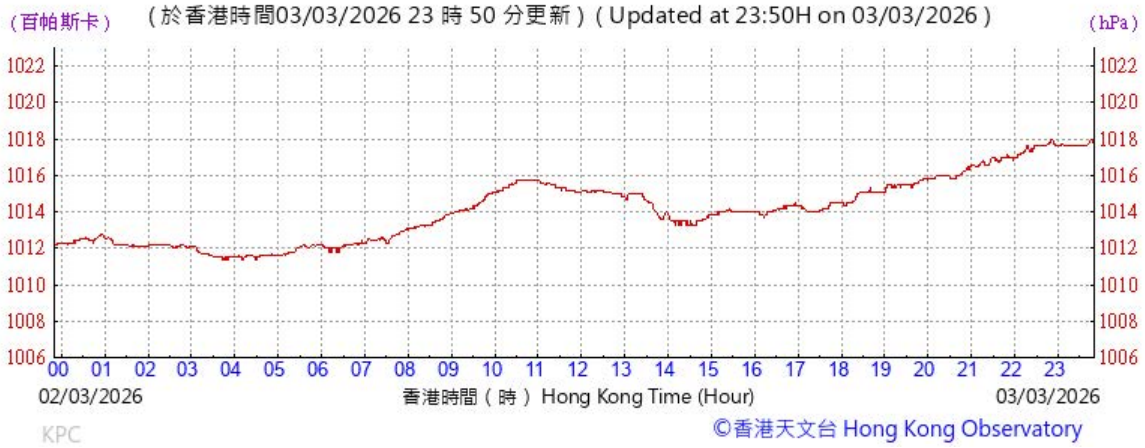
Wind Speed:



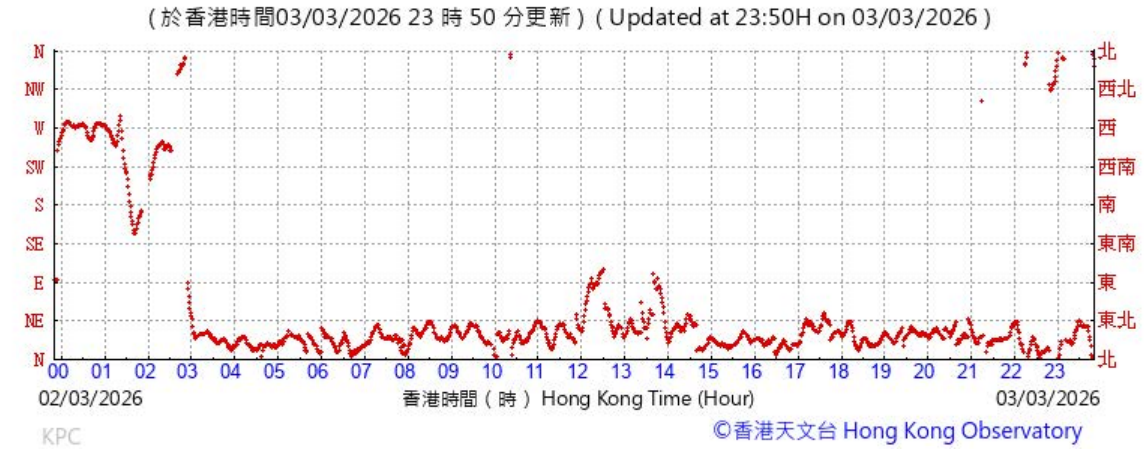
Tempearture/Humidity:



Pressure:

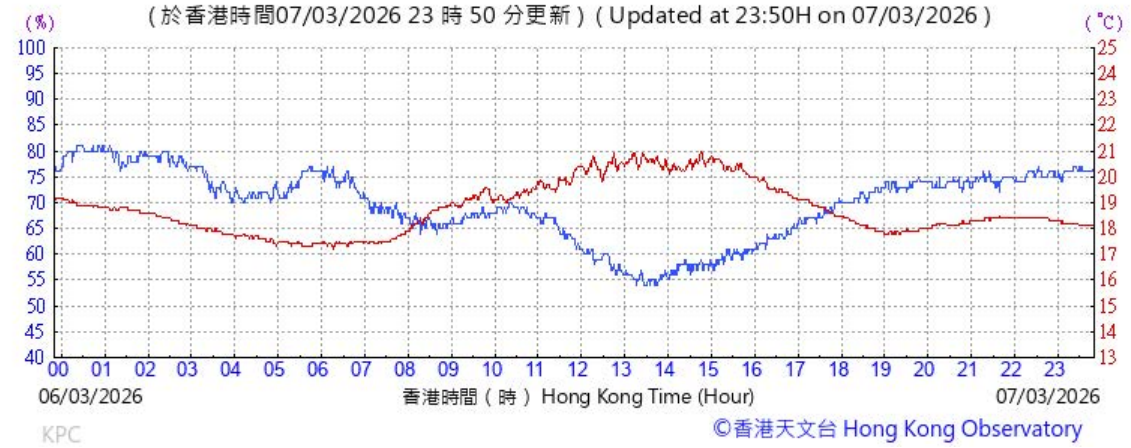


Wind Direction:

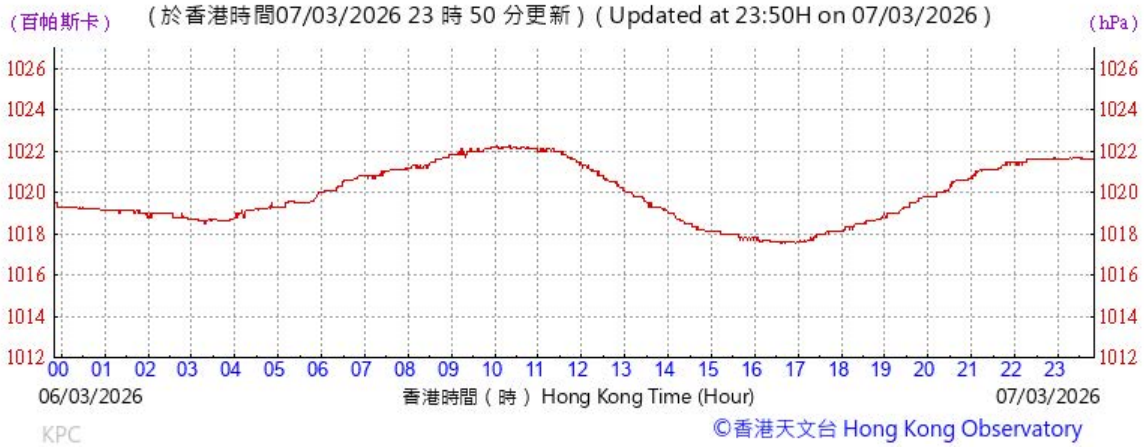


Wind Speed:

Tempearture/Humidity:



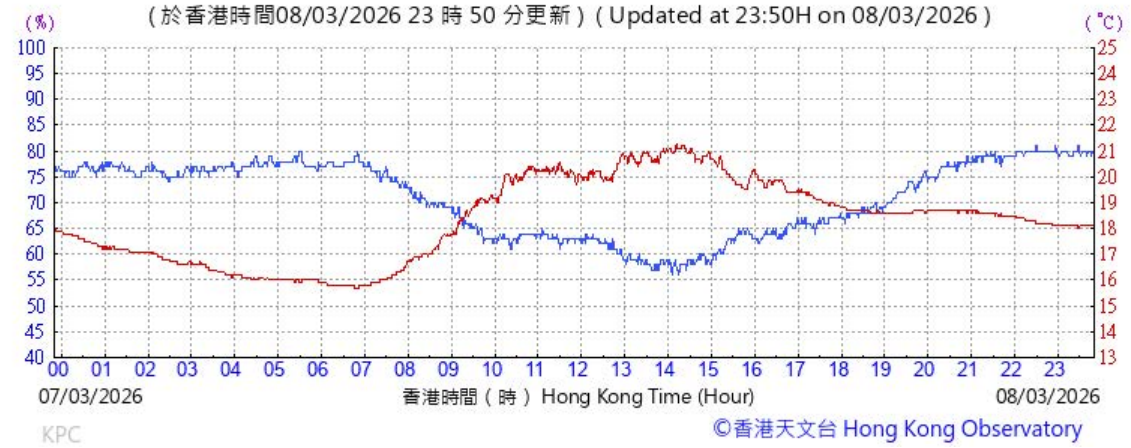
Pressure:



Wind Direction:

Wind Speed:

Tempearture/Humidity:



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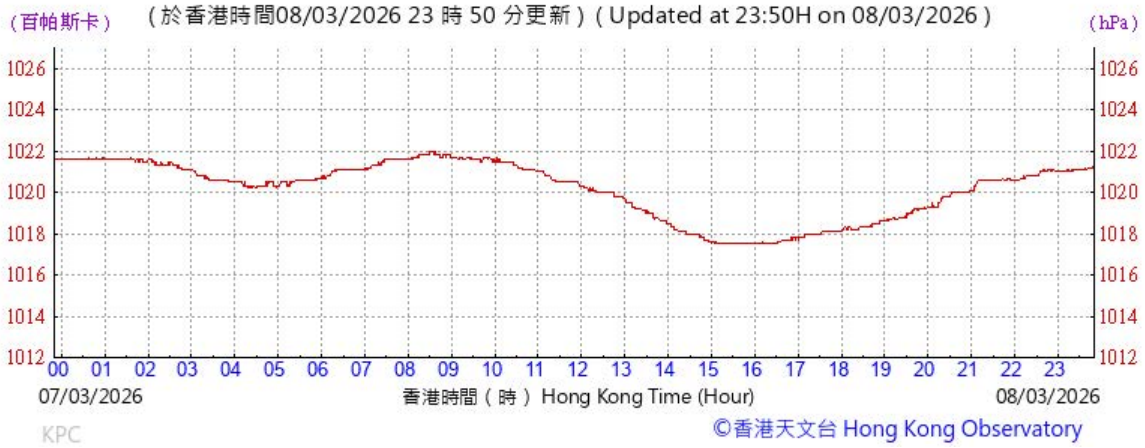
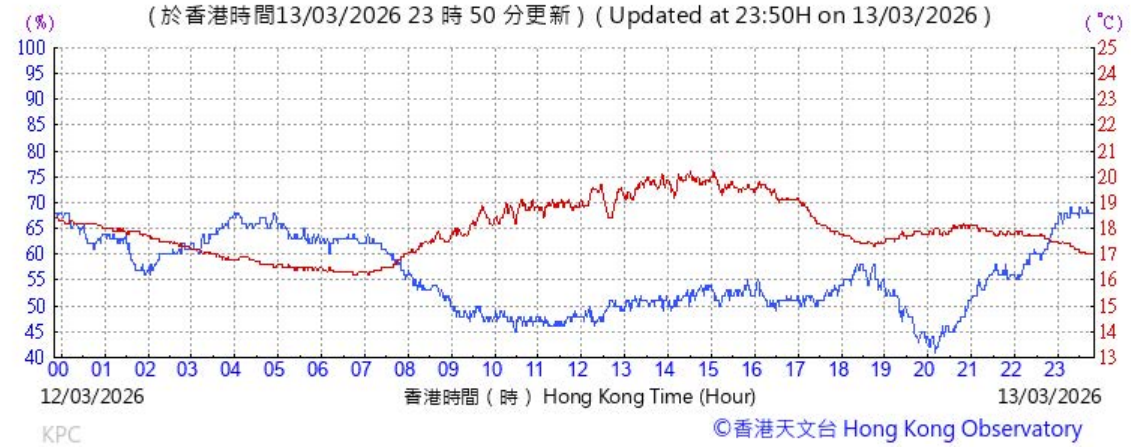


Wind Direction:

Wind Speed:

Tempearture/Humidity:



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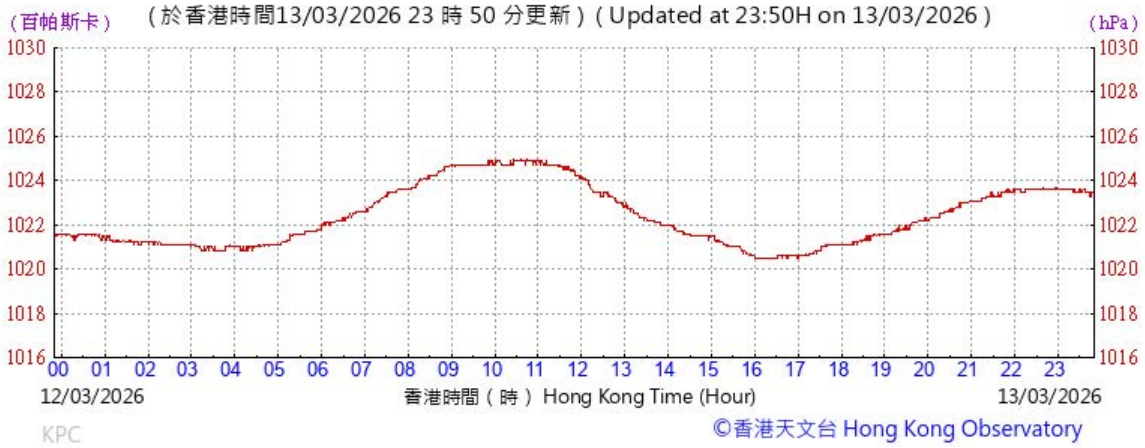
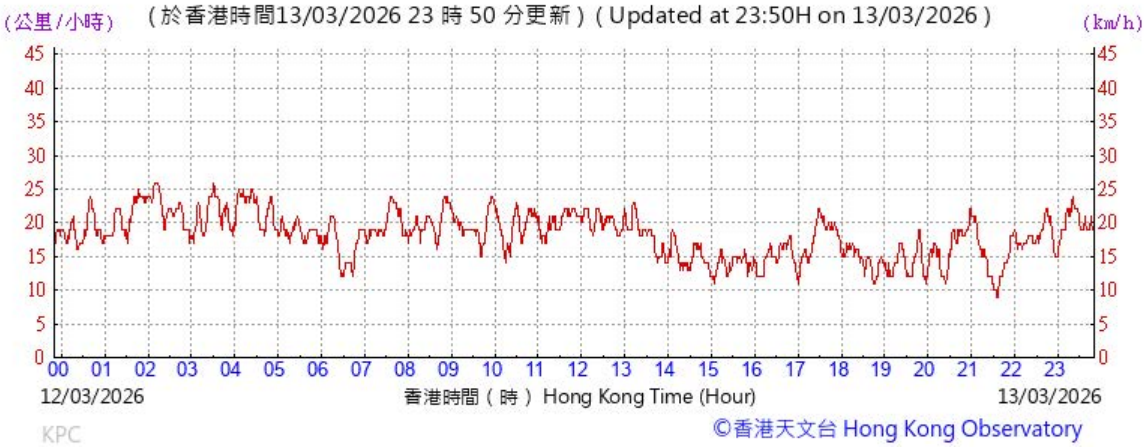
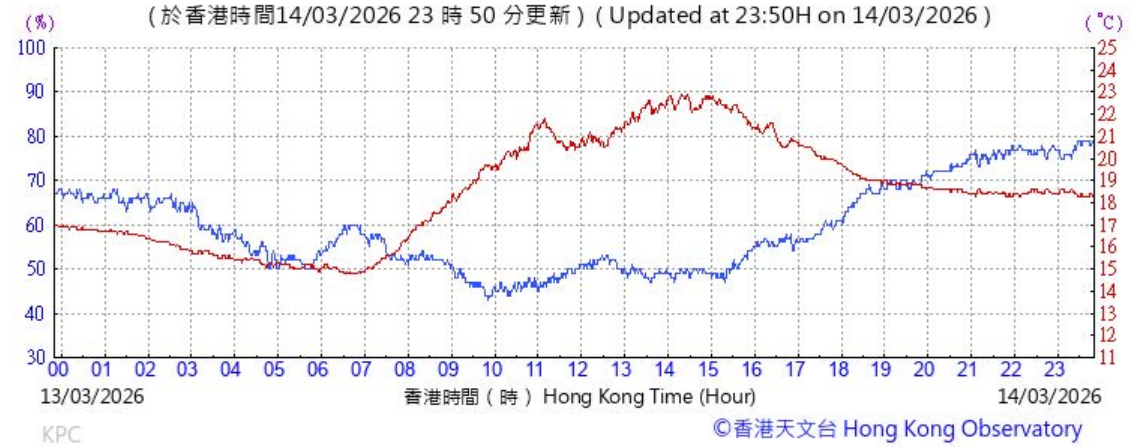


Wind Direction:

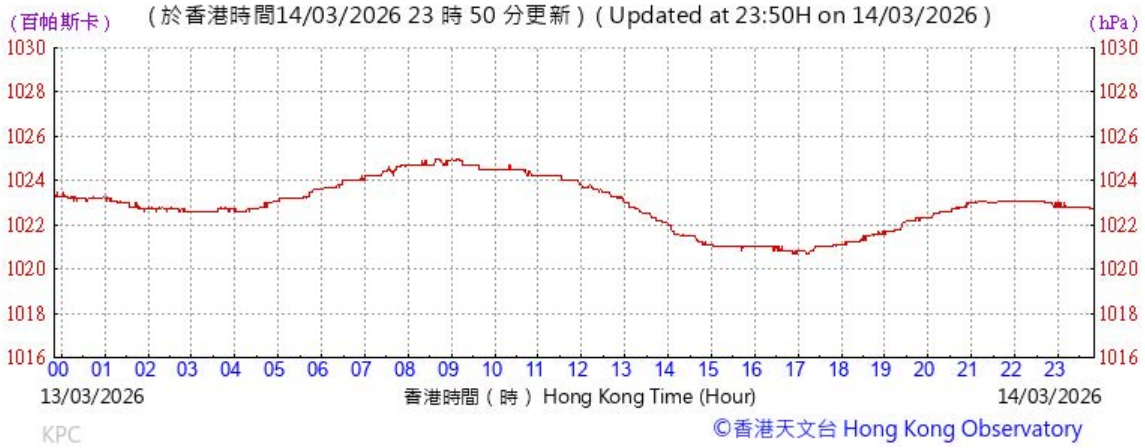
Wind Speed:



Tempearture/Humidity:

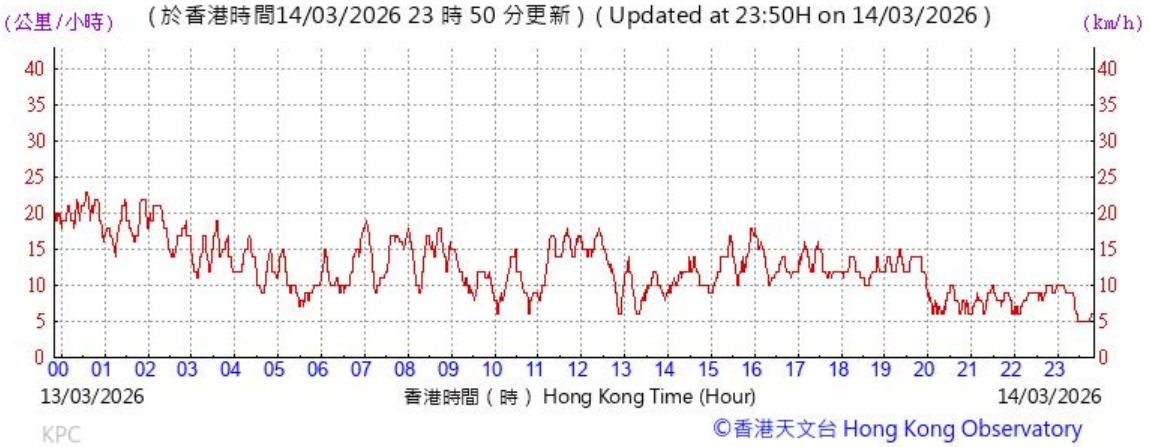


Pressure:

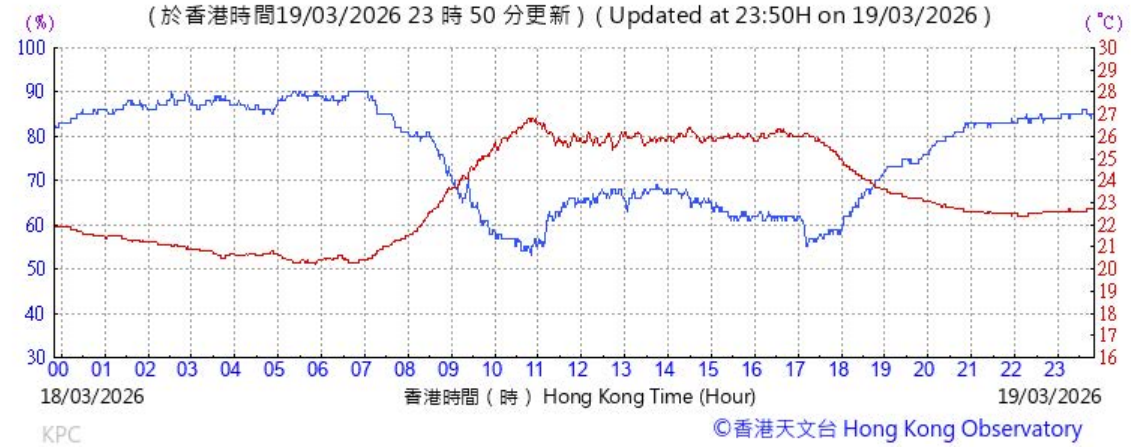


Wind Direction:

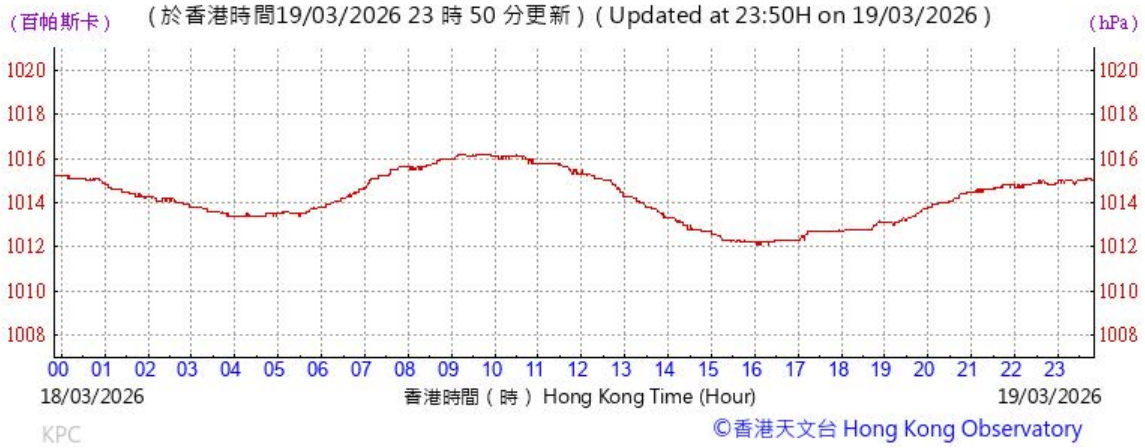
Wind Speed:



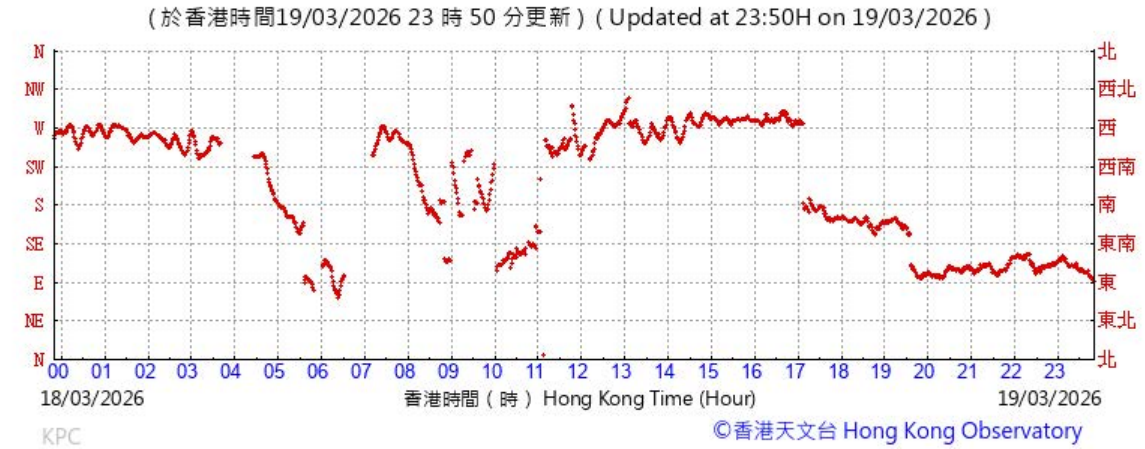
Tempearture/Humidity:



Pressure:

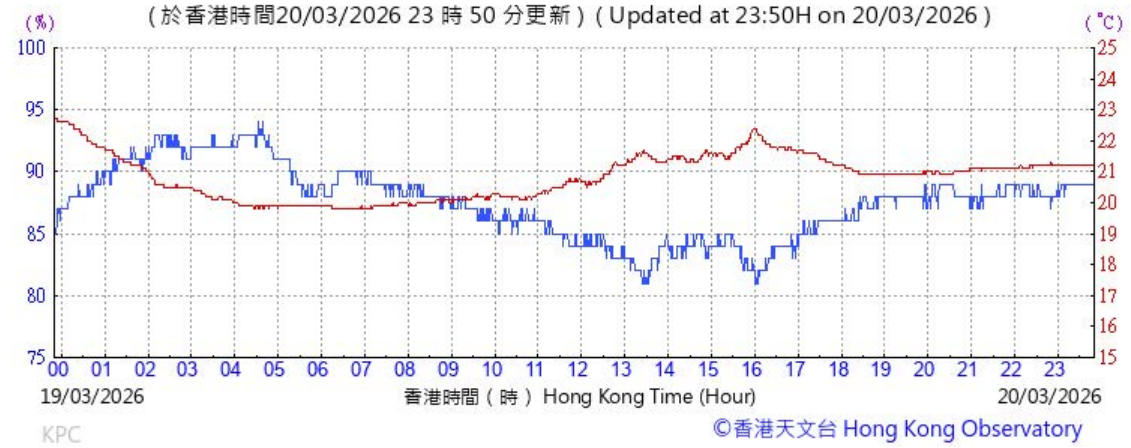


Wind Direction:



Wind Speed:

Tempearture/Humidity:



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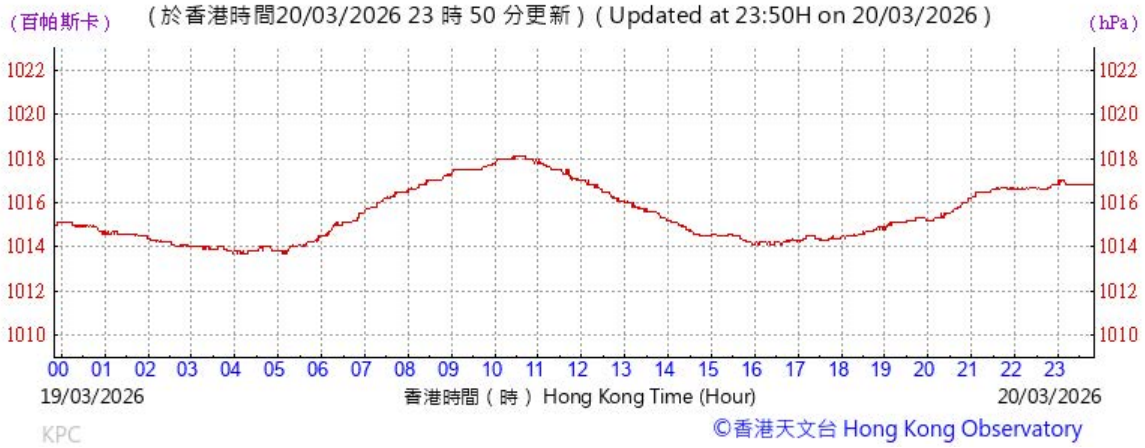
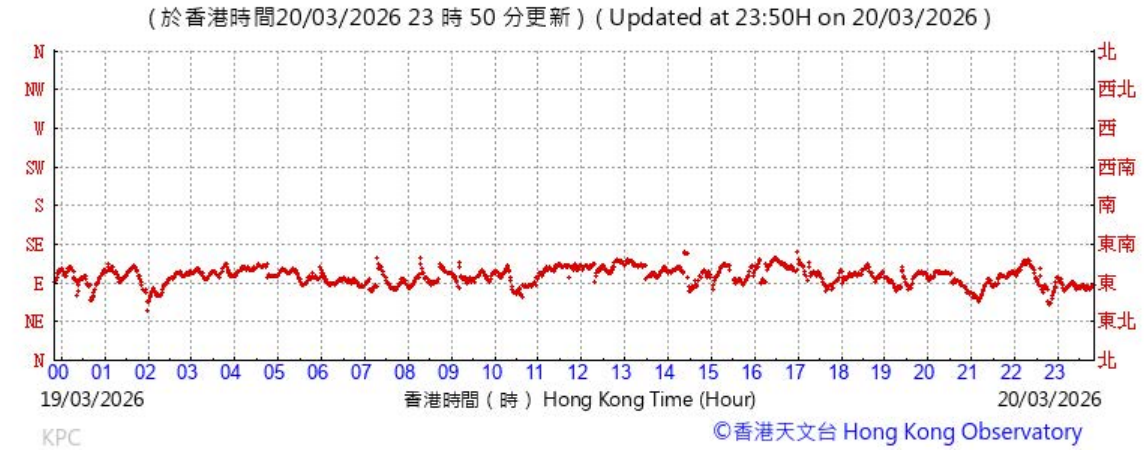
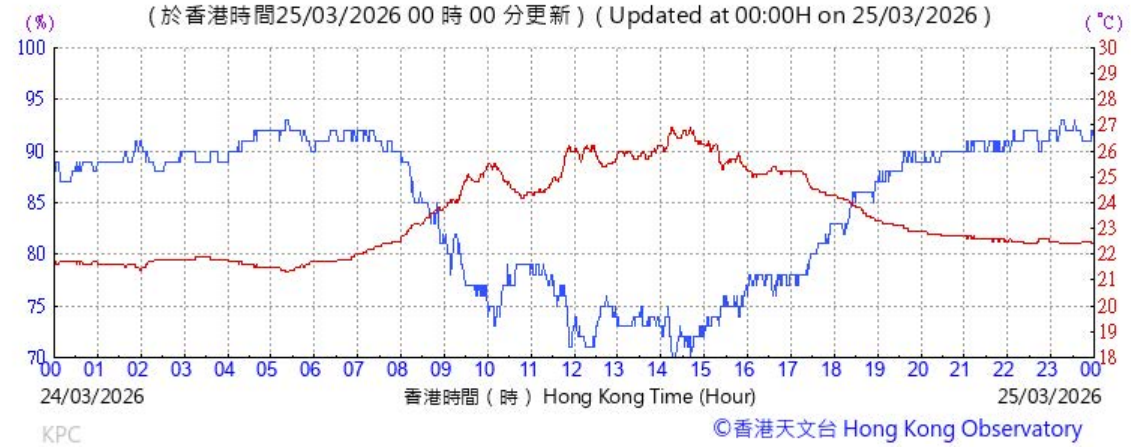


Wind Direction:

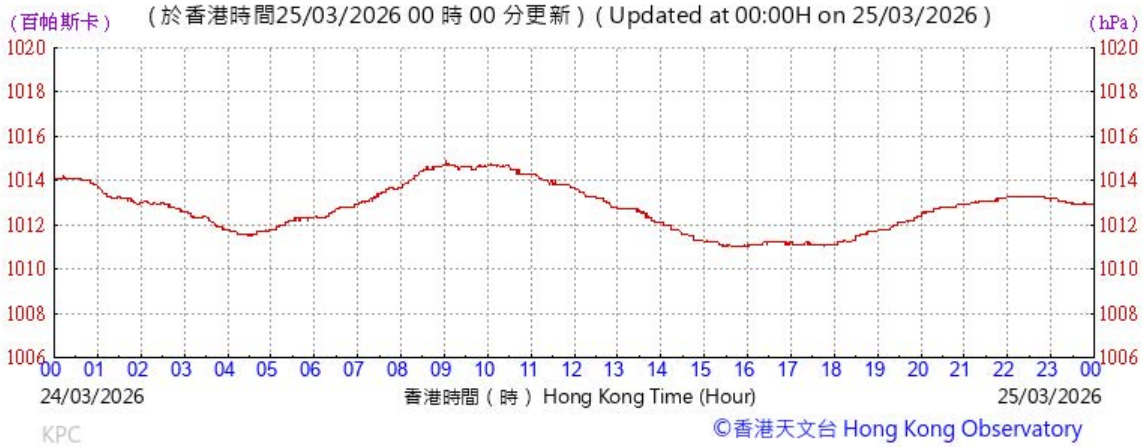


Wind Speed:

Tempearture/Humidity:



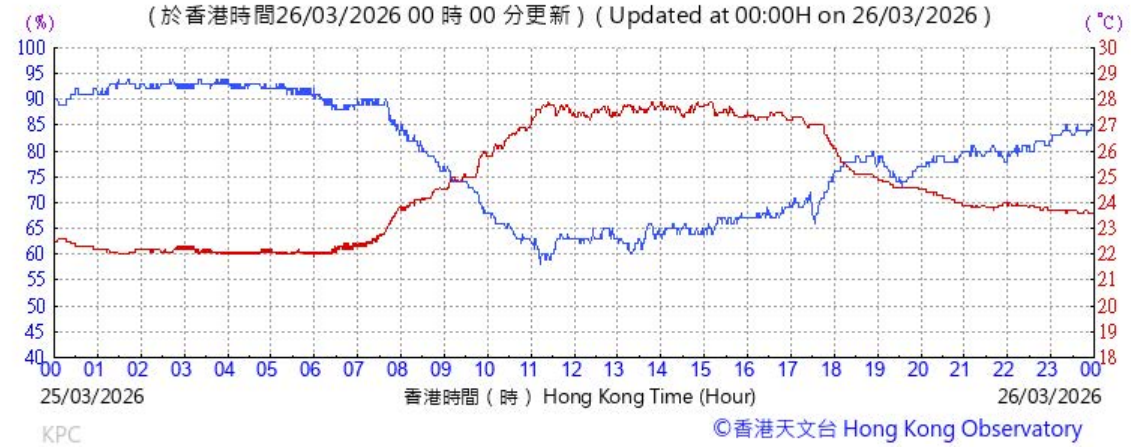
Pressure:



Wind Direction:

Wind Speed:

Tempearture/Humidity:



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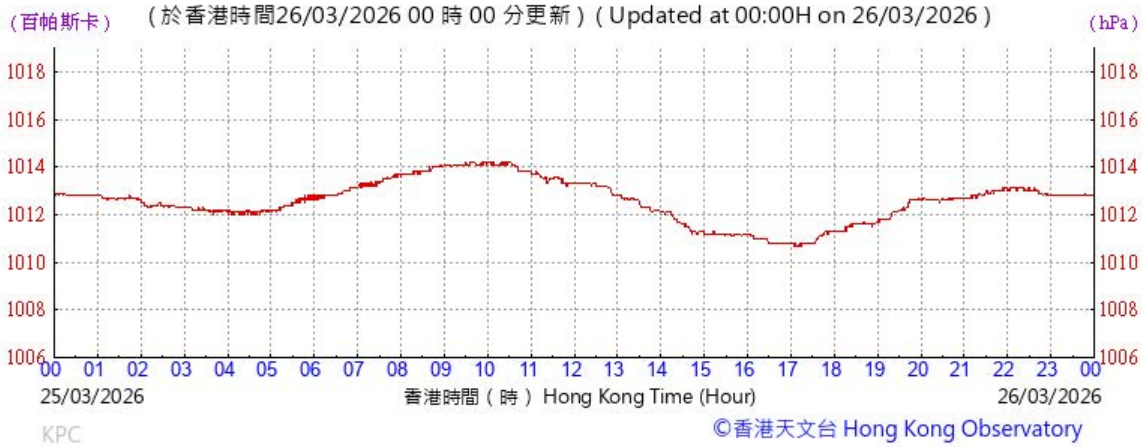
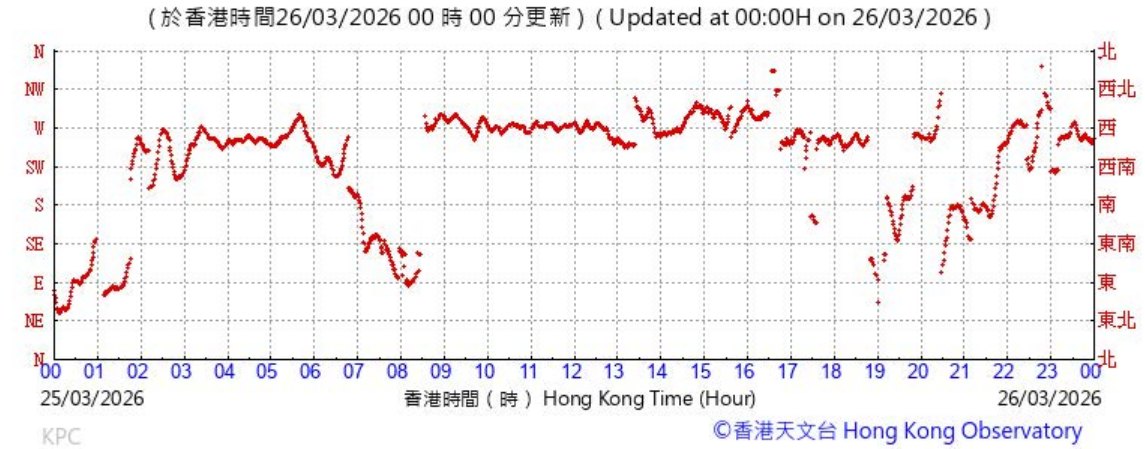
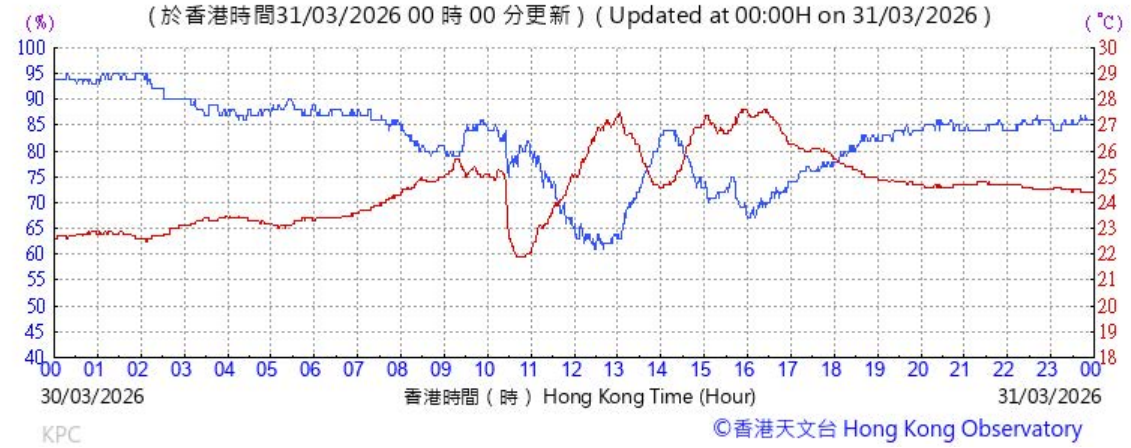


Wind Direction:

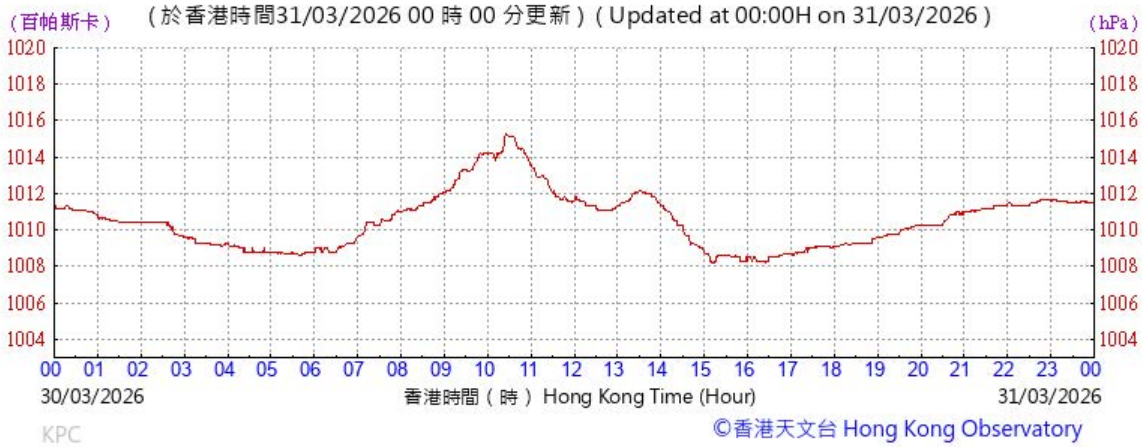


Wind Speed:

Tempearture/Humidity:

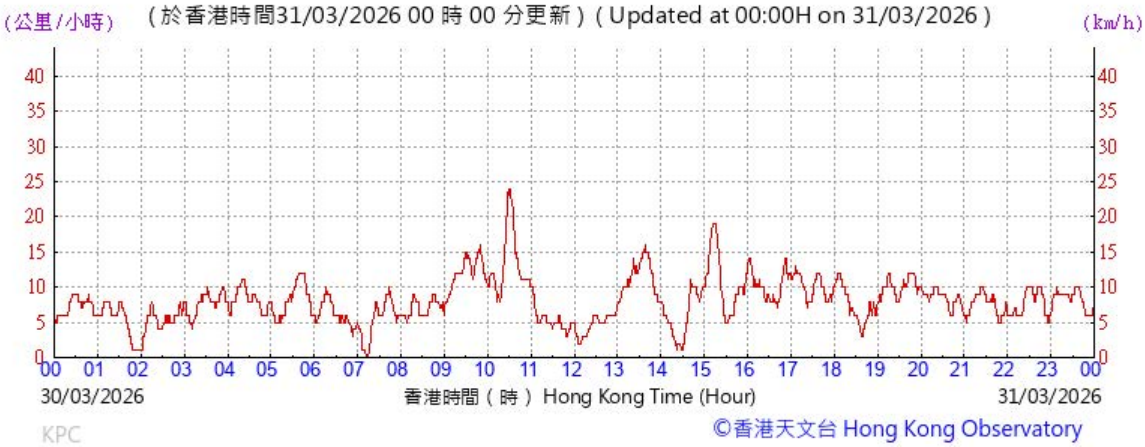


Pressure:

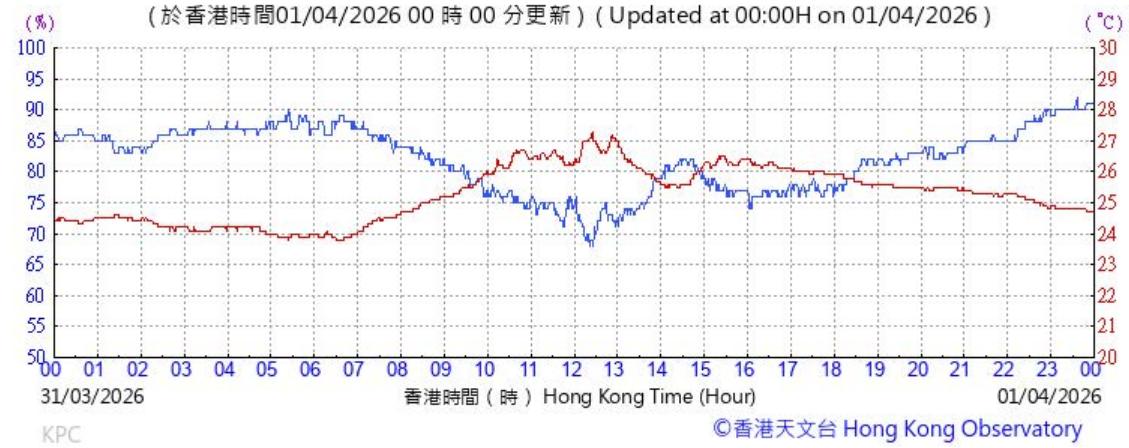


Wind Direction:

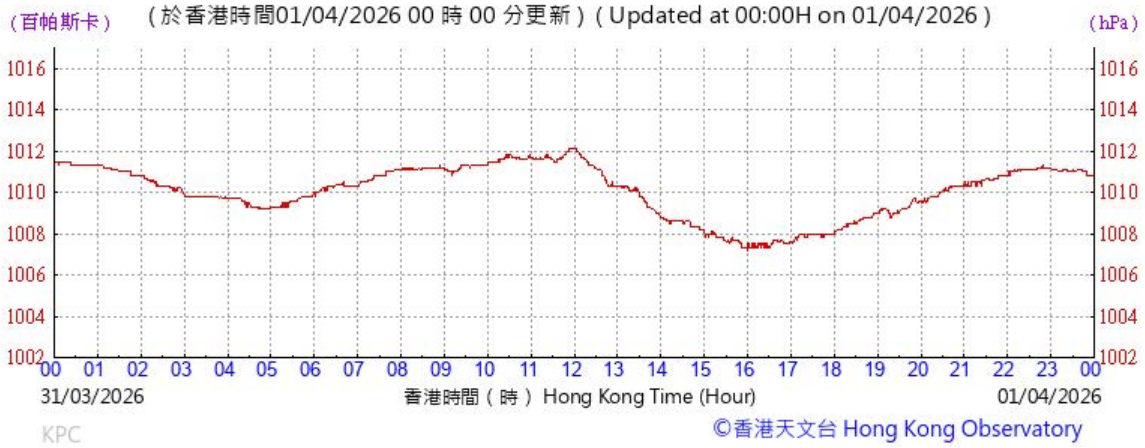
Wind Speed:



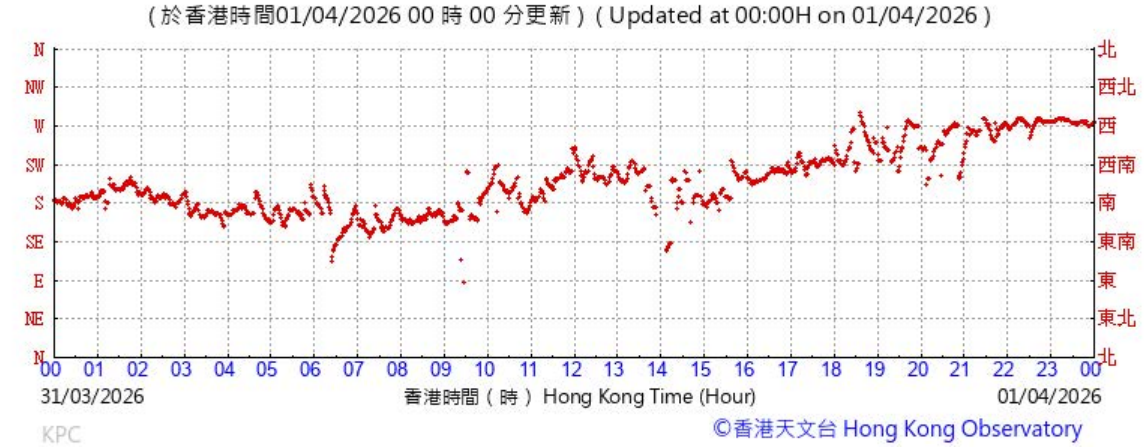
Tempearture/Humidity:



Pressure:



Wind Direction:



Wind Speed:

I. Waste Flow table

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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Materials Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken	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	25286.05	0.00	0.00	12356.51	12929.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.72
Nov	26898.87	0.00	0.00	12312.60	14558.72	27.55	0.00	154.33	0.00	0.00	0.00	0.00	17.15
Dec	29184.17	0.00	0.00	12258.93	16864.40	60.84	0.00	62.95	0.00	0.00	0.00	0.00	32.55
Sub-total	157510.06	0.00	0.00	51987.10	105409.46	113.50	0.00	530.32	0.00	0.00	0.00	0.40	494.29
2026													
Jan	42458.10	0.00	0.00	4986.25	37423.56	48.29	0.00	0.00	0.00	0.00	0.00	1.40	262.24
Feb	12783.36	0.00	0.00	3467.05	9282.74	33.57	0.00	0.00	0.00	0.00	0.00	1.40	45.23
Mar	39441.64	0.00	0.00	13298.43	26000.83	142.38	0.00	0.00	0.00	0.00	0.00	0.00	69.95
Apr	0.00												
May	0.00												
Jun	0.00												
Jul	0.00												
Aug	0.00												
Sep	0.00												
Oct	0.00												
Nov	0.00												
Dec	0.00												
Sub-total (2026)	94683.10	0.00	0.00	21751.73	72707.13	224.24	0.00	0.00	0.00	0.00	0.00	2.80	377.42
Total	**263706.78**	**0.00**	**0.00**	**81161.28**	**182197.58**	**347.92**	**0.00**	**681.81**	**0.00**	**0.00**	**0.00**	**4.00**	**1086.05**

Note:
- 26,000.83 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 in the reporting month.
- 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.

J. Environmental Mitigation Measures – Implementation Status

Table J-1: Environmental Mitigation Measures Implementation Status (March 2026)

EM&A Ref.	Recommendation Measures	Implementation Stage 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. *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	✓ ✓ ✓ ✓

EM&A Ref.	Recommendation Measures	Implementation Stage 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	Obs
	• 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	Obs
	• 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.	N/A 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	Implementation Stage Zone 2A, 2B & 2C
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	N/A
	• 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	No concrete batching plant in in this project.
	Emission Limits	N/A
	• All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke	No concrete batching plant in in this project.
	Engineering Design/Technical Requirements	N/A
	• 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	No concrete batching plant in this project.
	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)		

EM&A Ref.	Recommendation Measures	Implementation Stage 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 screen noise from on-site construction activities.	Obs
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	Implementation Stage 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** 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 Quality 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	

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	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.	Obs
	• 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	✓

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	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.	N/A No bentonite slurries are used in this project.

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

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	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	Obs
	• 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:	

EM&A Ref.	Recommendation Measures	Implementation Stage 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	✓

EM&A Ref.	Recommendation Measures	Implementation Stage 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,	✓

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	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;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• 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.

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
	smoking and eating on site;	
	• Stockpiling of contaminated excavated materials on site should be avoided as far as possible;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Truck bodies and tailgates should be sealed to stop any discharge;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• 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;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Speed control for trucks carrying contaminated materials should be exercised;	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• 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	N/A TST Fire Station is out of this project boundary, no mitigation measure is required.
	• Maintain records of waste generation and disposal quantities and disposal arrangements.	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
		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 (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.	✓
Table 9.1 (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 (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 (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 (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.

EM&A Ref.	Recommendation Measures	Implementation Stage Zone 2A, 2B & 2C
Table 9.1 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A Greening along the seafront is proposed, and under review.
Table 9.1 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A Gardens are designed to be built, and under review.
Table 9.1 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	✓
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 (MCP1)	Use of decorative screen hoarding/boards	✓
Table 9.2 (MCP2)	Early introduction of landscape treatments	N/A No landscape treatments during this stage.
Table 9.2 (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 (MCP4)	Control of night time lighting	✓
Table 9.2 (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 (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 (March 2026)	1	0	0
From 05 July 2024 to end of the reporting month	6	0	0