

# **Development at West Kowloon Cultural District**

Quarterly Environmental Monitoring and Audit (EM&A)

Report (May 2025 – July 2025)

**August 2025**

**This Quarterly EM&A Report has been reviewed and certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).**

**Certified by:**



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Max Lee

Environmental Team Leader (ETL)

West Kowloon Cultural District Authority

**Date**

1 September 2025

**Verified by:**



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Claudine Lee

Independent Environmental Checker (IEC)

Meinhardt Infrastructure & Environment Ltd

**Date**

1 September 2025

This Report Consists of:

**Part-1: EM&A at Lyric Theatre Complex**

**and**

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

# Part-1: EM&A at Lyric Theatre Complex





# **Development at West Kowloon Cultural District**

Quarterly Environmental Monitoring and Audit  
(EM&A) Report (May 2025 - July 2025)

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# Contents

Executive summary	1
1 Introduction	2
1.1 Background	2
1.2 Project Organisation	2
1.3 Status of Construction Works in the Reporting Period	3
2 Summary of EM&A Requirements and Mitigation Measures	4
2.1 Monitoring Requirements	4
2.2 Environmental Mitigation Measures	5
3 Summary of EM&A Results	6
3.1 Monitoring Data	6
3.2 Monitoring Exceedances	6
3.2.1 1-hour TSP Monitoring	6
3.2.2 24-hour TSP Monitoring	6
3.2.3 Construction Noise Monitoring	6
3.2.4 Landscape and Visual Monitoring	7
4 Waste Management	8
4.1 Lyric Theatre Complex	8
5 Environmental Non-conformance	9
6 Comments, Recommendations and Conclusion	10
6.1 Comments	10
6.2 Recommendations	10
6.3 Conclusion	10

## Figure 1 Site Layout Plan and Monitoring Stations

## Appendices

### A. Project Organisation

### B. Construction Programme

- C. Environmental Mitigation Measures – Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

## Tables

Table 2.1:	Summary of Impact EM&A Requirements	4
Table 3.1:	Summary of Monitoring Data	6
Table 3.2:	Summary of Exceedances	6

# Executive summary

This Quarterly EM&A Report presents the monitoring works at Lyric Theatre Complex conducted from 1 May 2025 to 31 July 2025. 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 impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

## **Exceedance of Action and Limit Levels**

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

## **Implementation of Mitigation Measures**

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

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

## **Record of Complaints**

No complaint was received during the reporting quarter.

## **Record of Notifications of Summons and Successful Prosecutions**

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

# 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) 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. 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 Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works conducted from 1 May 2025 to 31 July 2025. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

## 1.2 Project Organisation

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

### 1.3 Status of Construction Works in the Reporting Period

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

- LTC construction
  - ABWF works
  - Façade work
  - MEP works
- ASDA and Lyric Theatre Promenade
  - Construction of hanger wall
  - Defects rectification
  - Blockwall construction
  - Installation of subframe
  - Construction of the plant room
  - Construction of pipe work
  - Plastering work
  - Modification work for manholes
- DCS cofferdam
  - Backfilling
  - Excavation work
  - Construction of manholes and cable draw pits
  - Sheet piling
  - Grouting work
  - Pipe connection

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

## 2 Summary of EM&A Requirements and Mitigation Measures

### 2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

**Table 2.1: Summary of Impact EM&A Requirements**

Parameters	Descriptions	Locations	Frequencies	Action level	Limit level
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days	143.6 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>
Noise	Leq, 30 minutes	NM1- The Harbourside Tower 1	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
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	N/A	N/A

In the context of 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. Other monitoring locations 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.

## 2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.



## 3 Summary of EM&A Results

### 3.1 Monitoring Data

Impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results is presented in **Table 3.1**.

**Table 3.1: Summary of Monitoring Data**

Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	AM1	17	56	29
	AM2	24	69	40
24 hour TSP	AM1	9	77	22
	AM2	21	53	32
Construction Noise				
Leq(30min)	NM1A	63	64	63

### 3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in **Table 3.2**.

**Table 3.2: Summary of Exceedances**

Monitoring Station	Parameter	No. of Exceedance		Action Taken
		Action Level	Limit Level	
Air Quality				
AM1	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
AM2	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
Construction Noise				
NM1A	Leq(30min)	0	0	N/A

#### 3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

#### 3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

#### 3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

#### **3.2.4 Landscape and Visual Monitoring**

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

## 4 Waste Management

### 4.1 Lyric Theatre Complex

As advised by the Contractor (L2 Contract), 633.1 tonnes, 119.9 tonnes and 0.0 tonne of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter, while 2,261.6 tonnes of general refuse were disposed of at SENT and WENT landfill. 0.0 tonne of metals, 0.2 tonnes of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonne of fill materials was imported for use at site and 0.0 tonne of inert C&D materials was reused in other projects. 0.0 tonne of inert C&D materials were disposed to sorting facility and 0.0 tonne of chemical waste were collected by licensed contractors in the reporting quarter.

The actual amount of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting quarter are shown in **Appendix F**.

## 5 Environmental Non-conformance

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

No complaint was received in the reporting quarter.

No notifications of summons and successful prosecutions were received in the reporting quarter.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

## 6 Comments, Recommendations and Conclusion

### 6.1 Comments

Based on the observations made during site audits, landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and noise were recorded in the reporting quarter.

### 6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

### 6.3 Conclusion

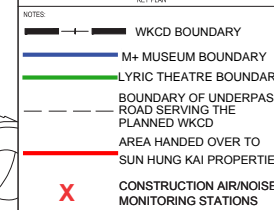
The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced 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 and noise level (as Leq, 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting quarter.

No complaint was received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

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

## **Figure 1      Site Layout Plan and Monitoring Stations**



REMARKS 2:  
THE SITE P32 (DELINEATED IN RED) WAS  
HANDLED OVER TO AST DEVELOPER ON 31  
JANUARY 2023.

REV.	DATE	DESCRIPTION	INITIAL

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

SCALE	1:100	PRINTED	A1
CHECKED		DATE	
APPROVED		DATE	
DRAWN		DATE	

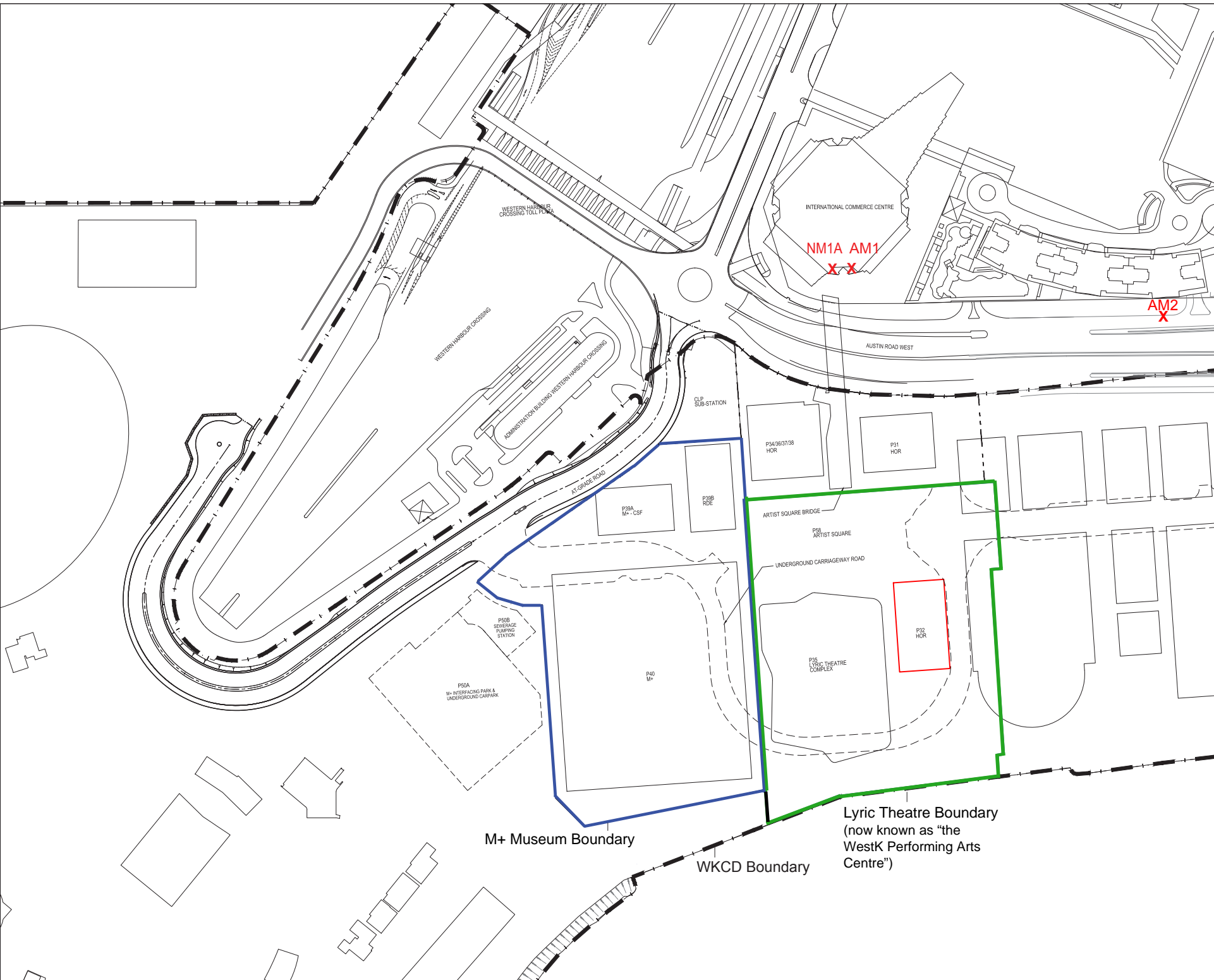
CONTRACT NO.	
--------------	--

DRAWING NO.	REV.
<b>FIGURE 1</b>	XA

CAD REF NAME: XXXXXX-AUT-PMS-DWG-P00-L000-0000-XXX.dwg

1	AUTHORITY	
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**westKowloon**  
西九文化區

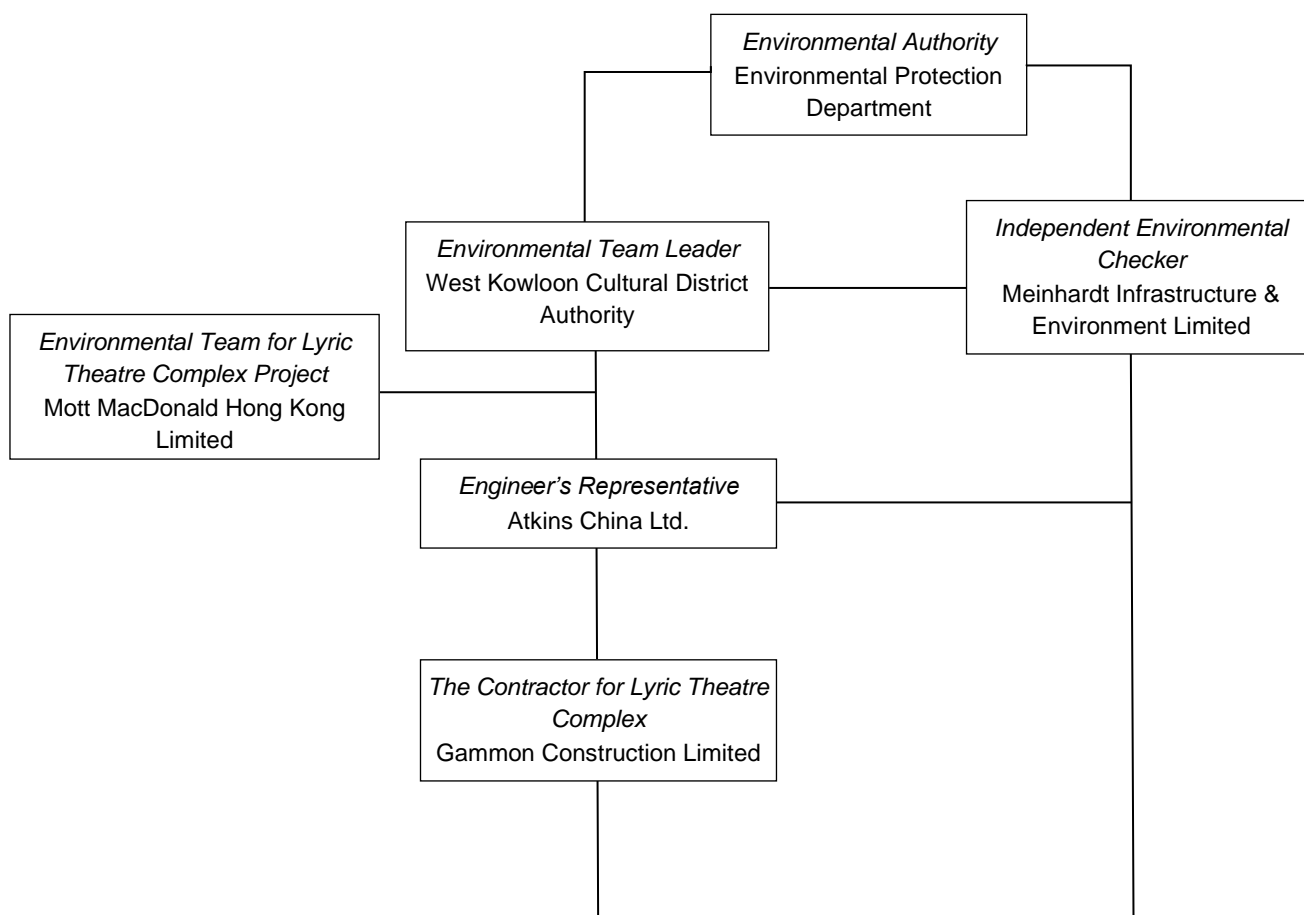


# Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures – Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
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# A. Project Organisation



**Table A-1: Contact information**

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

## **B. Construction Programme**

Base Line ACT  
 EOT#1 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\_15 2nd DRAFT

### [DD=30Apr25] \*\*\*L I V E\*\*\*

Date	Revision	Checked	Approved
21-May-25	CMWP Rev_3_B Apr25 Update	NS	IH

Base Line ACT  
 EOT#1 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\_16 2nd DRAFT

### [DD=31May25] \*\*\*L I V E\*\*\*

Date	Revision	Checked	Approved
12-Jun-25	CMWP Rev_3_B May25 Update	NS	IH



Base Line ACT  
 EOT#1 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\_17 2nd DRAFT

### [DD=30Jun25] \*\*\*L I V E\*\*\*

Date	Revision	Checked	Approved
17-Jul-25	CMWP Rev_3_B Jun25 Update	NS	IH

## **C. Environmental Mitigation Measures – Implementation Status**

**Table C-1: Environmental Mitigation Measures Implementation Status**

		Implementation Stage		
		L2		
EM&A Ref.	Recommendation Measures	May 2025	Jun 2025	Jul 2025
Air Quality Impact (Construction)				
2.1 & 10.3.1	<b>General Dust Control Measures</b> 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	<b>Best Practice For Dust Control</b> 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: <i>Good Site Management</i> <ul style="list-style-type: none"><li>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.</li></ul> <i>Disturbed Parts of the Roads</i> <ul style="list-style-type: none"><li>Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li><li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li></ul> <i>Exposed Earth</i> <ul style="list-style-type: none"><li>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.</li></ul> <i>Loading, Unloading or Transfer of Dusty Materials</i>	Rem	Rem	Rem
		✓	✓	✓
		✓	✓	✓
		N/A	N/A	N/A



EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>	✓	✓	✓
	<i>Debris Handling</i>			
	<ul style="list-style-type: none"> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	✓	✓	✓
	<i>Transport of Dusty Materials</i>			
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓	✓
	<i>Wheel washing</i>			
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓	✓
	<i>Use of vehicles</i>			
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓	✓
	<i>Site hoarding</i>			
	<ul style="list-style-type: none"> <li>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.</li> </ul>	✓	✓	✓
2.1 & 10.3.1	<b>Best Practicable Means for Cement Works (Concrete Batching Plant)</b> 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			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		L2		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>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</li> </ul>	N/A	N/A	N/A
	Emission Limits			
	<ul style="list-style-type: none"> <li>All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke</li> </ul>	N/A	N/A	N/A
	Engineering Design/Technical Requirements			
	<ul style="list-style-type: none"> <li>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</li> </ul>	N/A	N/A	N/A
	<b>Non-Road Mobile Machinery (NRMM):</b>			
	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.	✓	✓	✓
<b>Noise Impact (Construction)</b>				
3.1 & 10.4.1	<b>Good Site Practice</b>			
	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:			
	<ul style="list-style-type: none"> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	✓	✓	✓
	<b>Adoption of Quieter PME</b>			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		L2		
		May 2025	Jun 2025	Jul 2025
3.1 & 10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and " <i>Sound Power Levels of Other Commonly Used PME</i> " are presented in <b>Table 4.26</b> 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	<b>Use of Movable Noise Barriers</b> 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	<b>Use of Noise Enclosure/ Acoustic Shed</b> 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	<b>Use of Noise Insulating Fabric</b> 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 & 10.4.1	<b>Scheduling of Construction Works outside School Examination Periods</b> 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	N/A	N/A

		Implementation Stage		
		L2		
EM&A Ref.	Recommendation Measures	May 2025	Jun 2025	Jul 2025
Water Quality Impact (Construction)				
4.1 & 10.5.1	<b>Construction site runoff and drainage</b> 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: <ul style="list-style-type: none"><li>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;</li><li>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.</li><li>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.</li><li>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.</li></ul>	✓	✓	✓
		✓	✓	✓
		Obs	✓	Obs
		✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	✓	✓	✓
		✓	✓	✓
		✓	✓	✓
		✓	Rem	Rem
		N/A	N/A	N/A
	<b>Barging facilities and activities</b> Recommendations for good site practices during operation of the proposed barging point include: <ul style="list-style-type: none"> <li>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;</li> </ul>	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>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;</li> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
4.1 & 10.5.1	<b>Sewage effluent from construction workforce</b> 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	<b>General construction activities</b> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	✓	✓	✓
		Obs	Obs	Obs
<b>Waste Management Implications (Construction)</b>				
6.1 & 10.7.1	<b>Good Site Practices</b> Recommendations for good site practices during the construction activities include:			
	<ul style="list-style-type: none"> <li>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</li> <li>Training of site personnel in proper waste management and chemical handling procedures</li> <li>Provision of sufficient waste disposal points and regular collection of waste</li> </ul>	✓	✓	✓
		✓	✓	✓
		✓	✓	Obs

EM&A Ref.	Recommendation Measures	Implementation Stage		
		L2		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> <li>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&amp;D materials is not anticipated</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<b>Waste Reduction Measures</b> Recommendations to achieve waste reduction include: <ul style="list-style-type: none"> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> <li>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</li> <li>Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials</li> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<b>Inert and Non-inert C&amp;D Materials</b> 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. <ul style="list-style-type: none"> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> <li>Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&amp;D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&amp;D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD.</li> </ul>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>The C&amp;D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site.</li> </ul>	✓	✓	✓
	<ul style="list-style-type: none"> <li>In order to monitor the disposal of inert and non-inert C&amp;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 &amp; 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.</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<b>Chemical Waste</b> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	✓	✓	✓
6.1 & 10.7.1	<b>General Refuse</b> <p>General refuse should be stored in enclosed bins or compaction units separated from inert C&amp;D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&amp;D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.</p>	Obs	Obs	Obs



EM&A Ref.	Recommendation Measures	Implementation Stage		
		L2		
		May 2025	Jun 2025	Jul 2025
<b>Land Contamination (Construction)</b>				
7.1 & 10.8.1	<p>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.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> <li>To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> <li>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;</li> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> <li>The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> <li>Truck bodies and tailgates should be sealed to stop any discharge;</li> <li>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;</li> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> <li>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</li> </ul>			
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
	<ul style="list-style-type: none"> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	N/A	N/A	N/A
<b>Ecological Impact (Construction)</b>				
No mitigation measure is required.				
<b>Landscape and Visual Impact (Construction)</b>				
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	N/A	N/A
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	N/A	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
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	N/A	N/A
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	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A
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	N/A	N/A
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	N/A	N/A

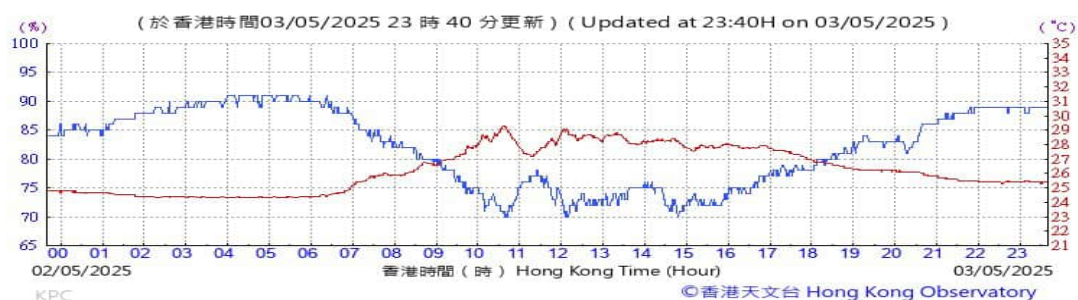
EM&A Ref.	Recommendation Measures	Implementation Stage		
		May 2025	Jun 2025	Jul 2025
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	N/A	N/A	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	N/A	N/A

N/A	-	Not Applicable
✓	-	Implemented
Obs	-	Observed
Rem	-	Reminder

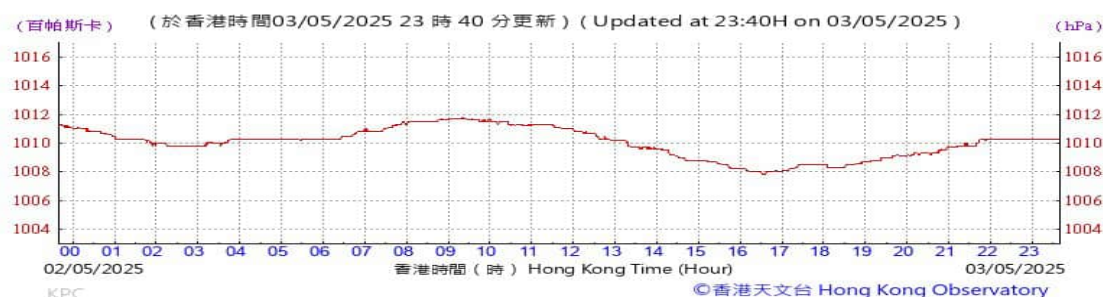
## **D. Meteorological Data Extracted from Hong Kong Observatory**

**Table D-1: Extract of Meteorological Observations for King's Park Automatic Weather Station in the reporting quarter**

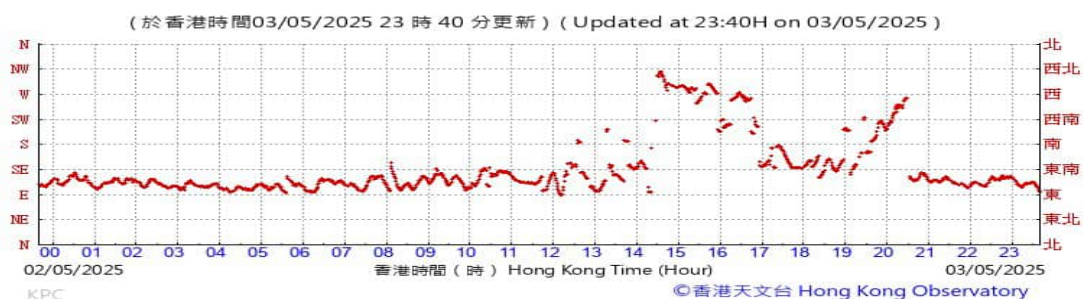
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Pressure:



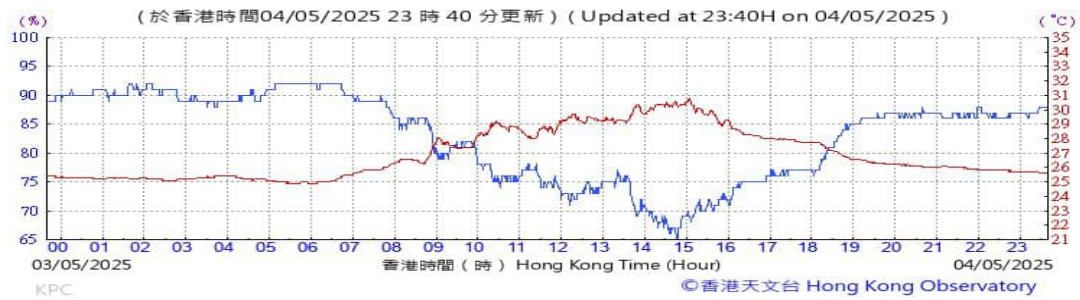
Wind Direction:



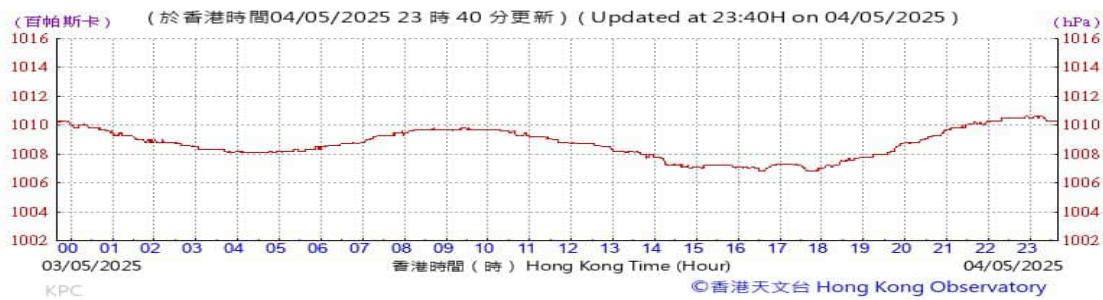
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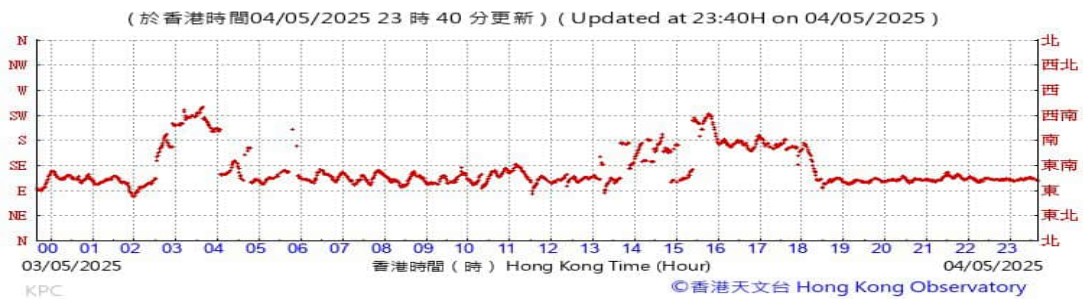
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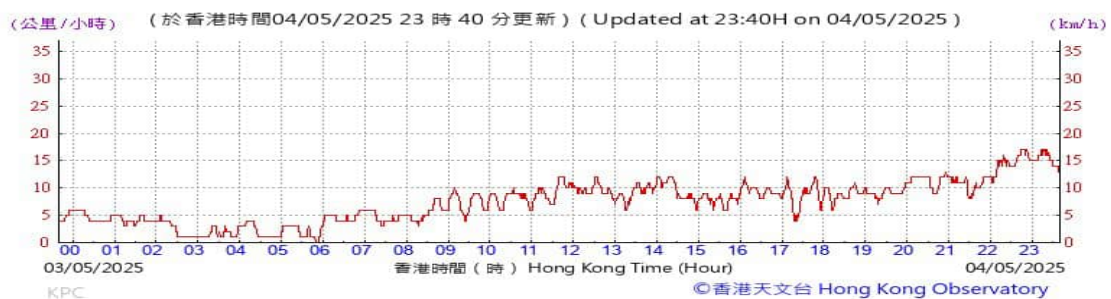
Pressure:



Wind Direction:

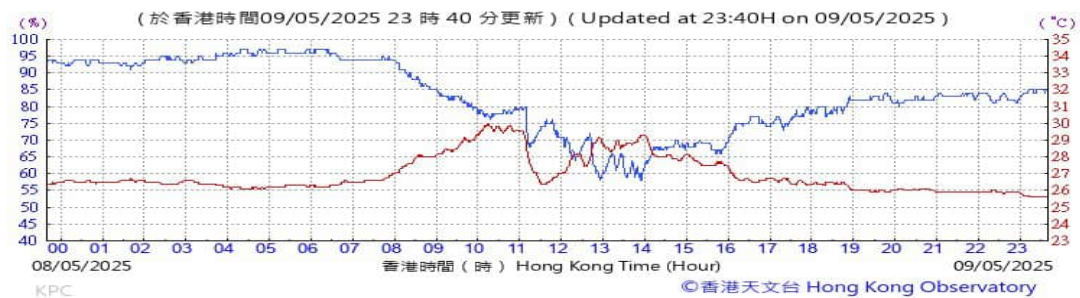


Wind Speed:

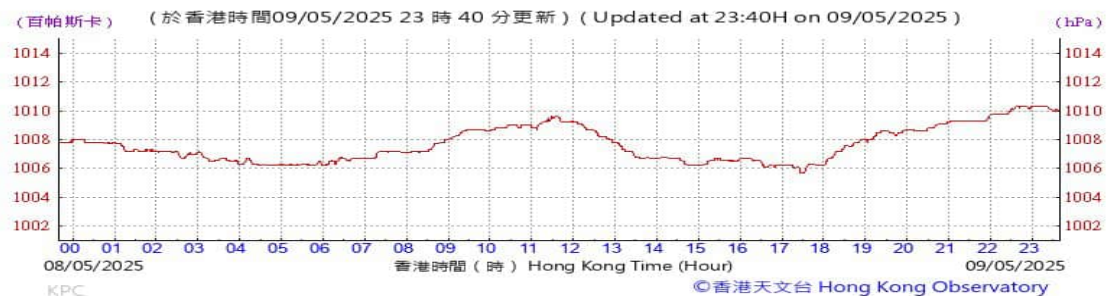




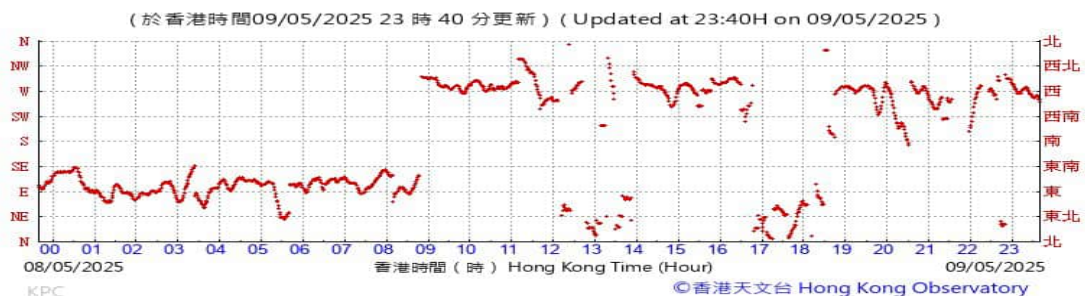
Temperature/Humidity:



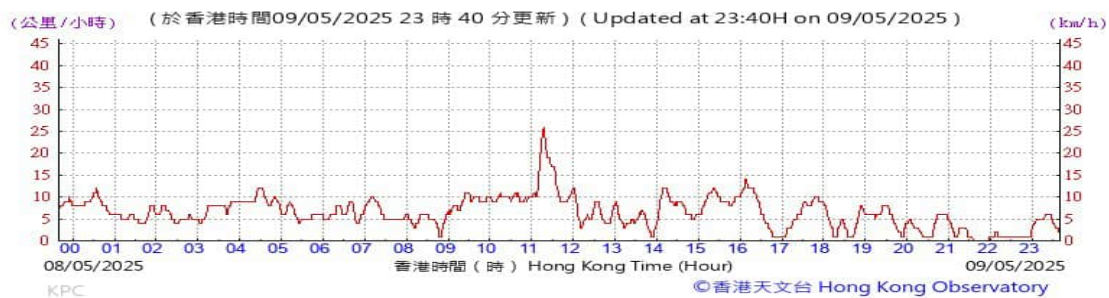
Pressure:



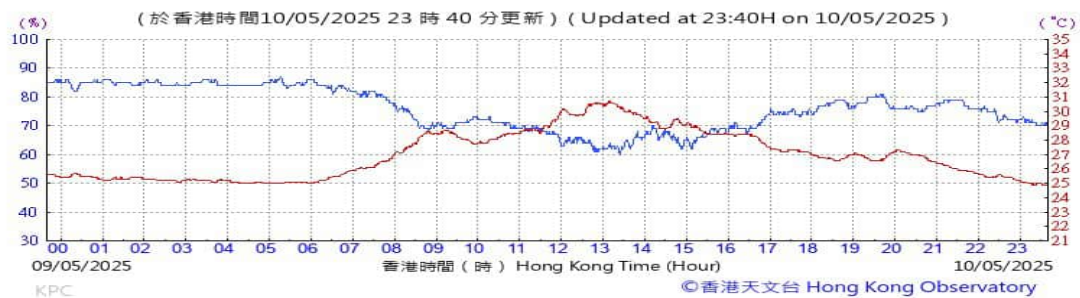
Wind Direction:



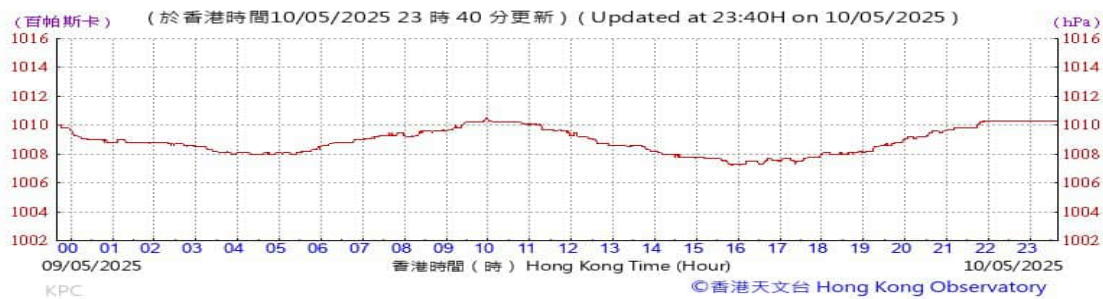
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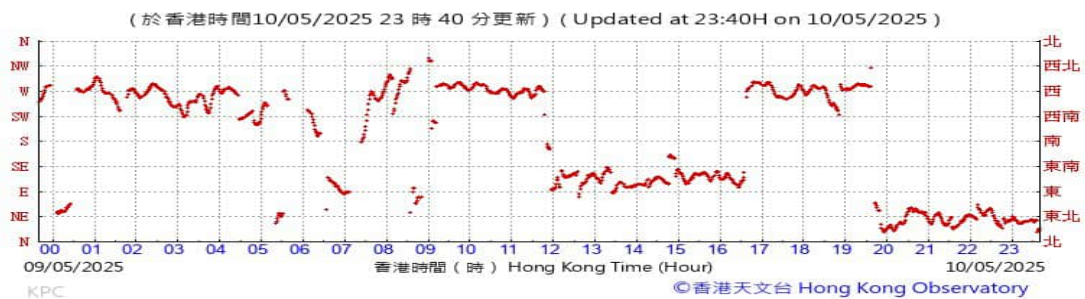
Temperature/Humidity:



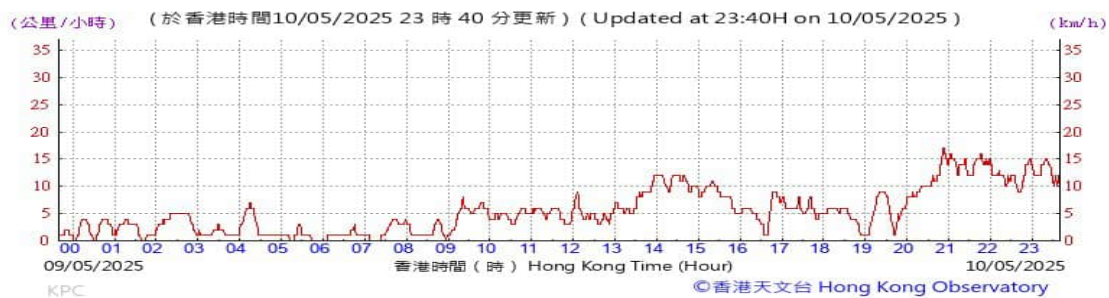
Pressure:



Wind Direction:

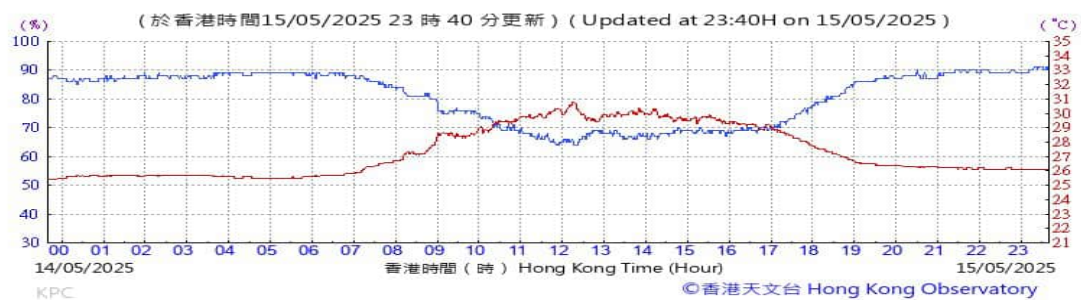


Wind Speed:

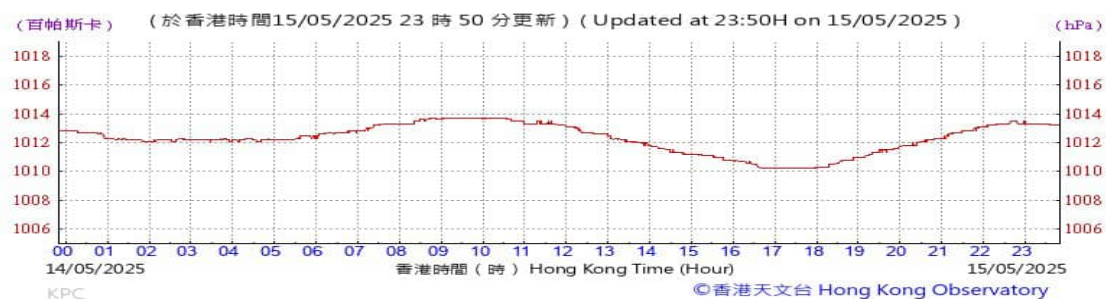




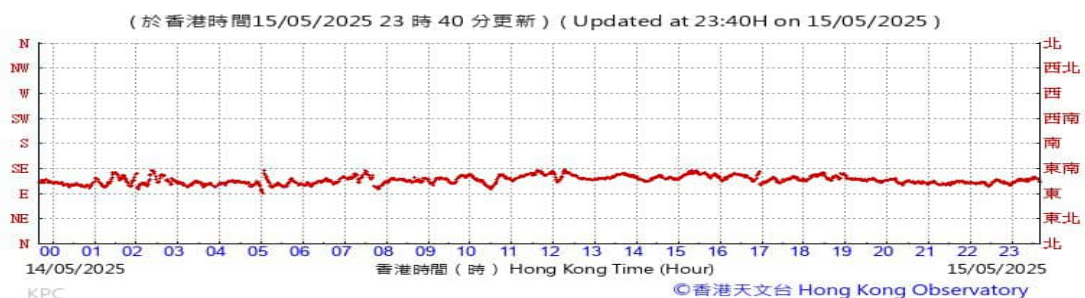
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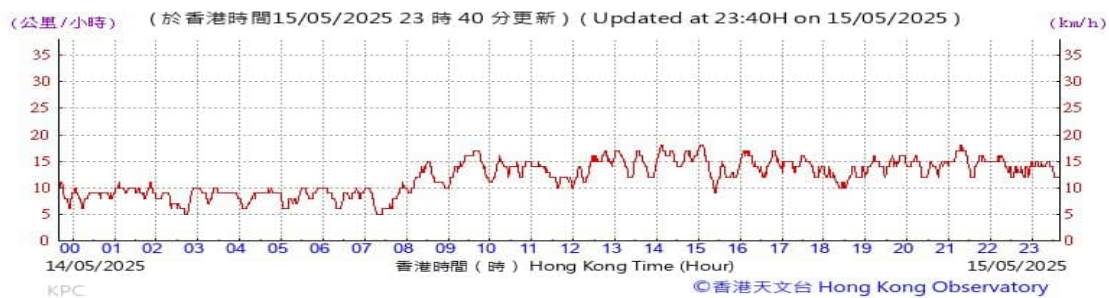
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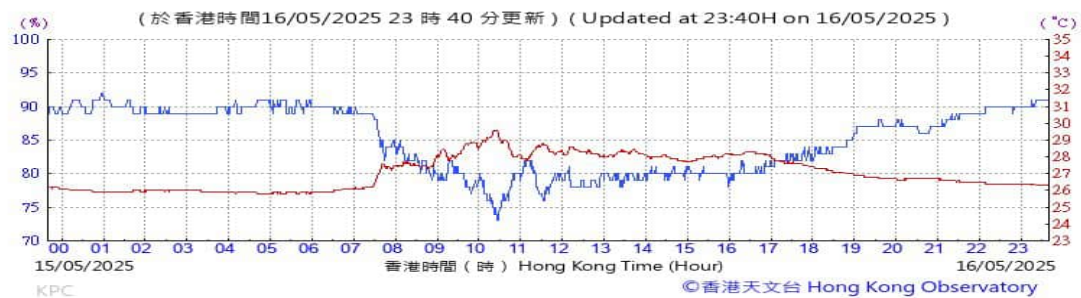
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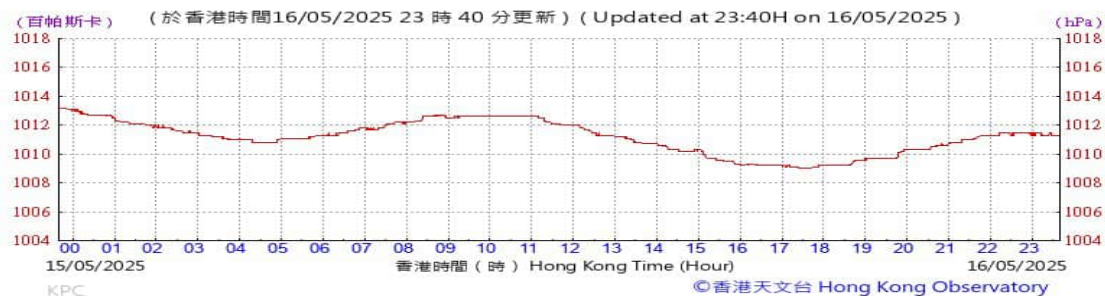
Wind Speed:



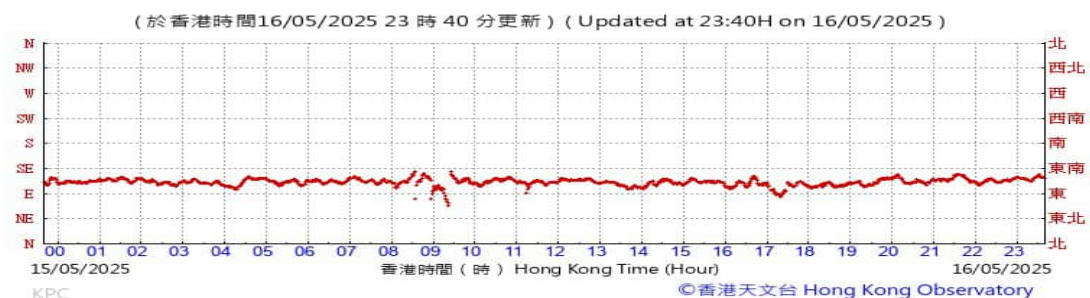
Temperature/Humidity:



Pressure:



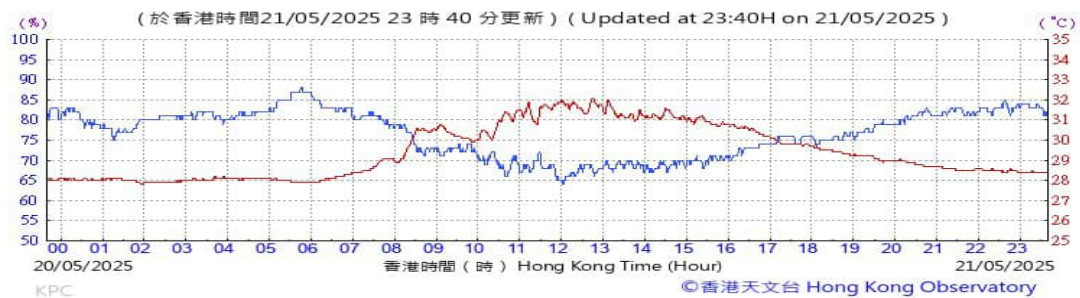
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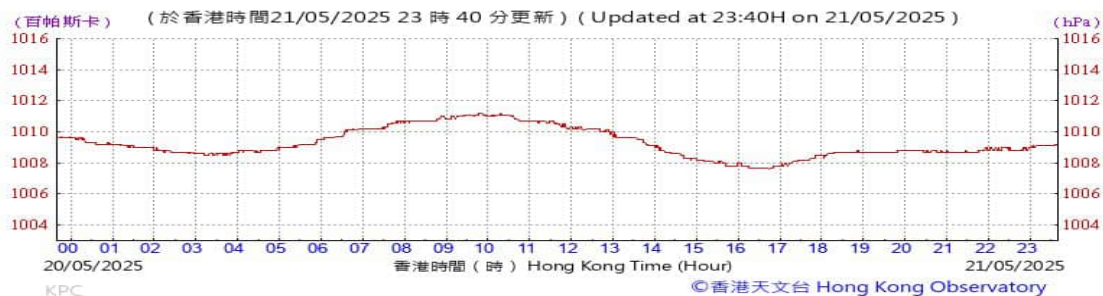
Wind Speed:



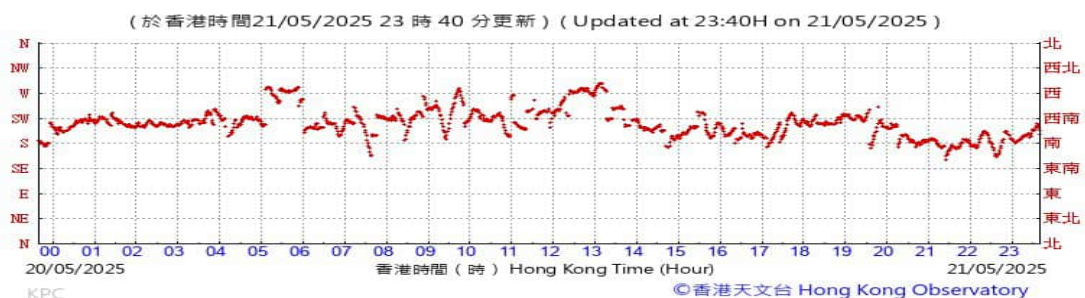
Temperature/Humidity:



Pressure:



Wind Direction:

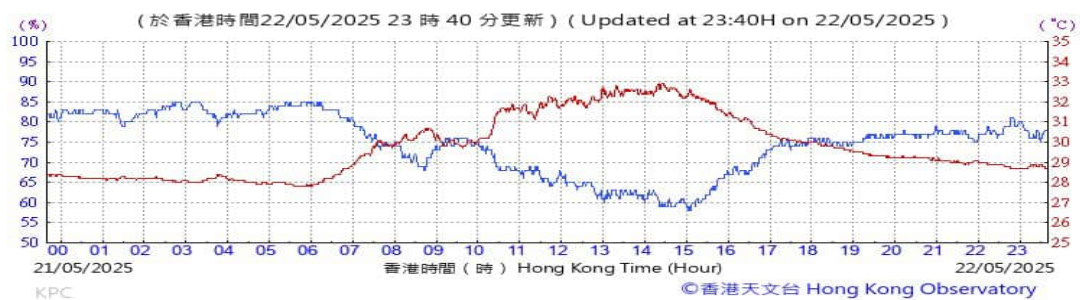


Wind Speed:

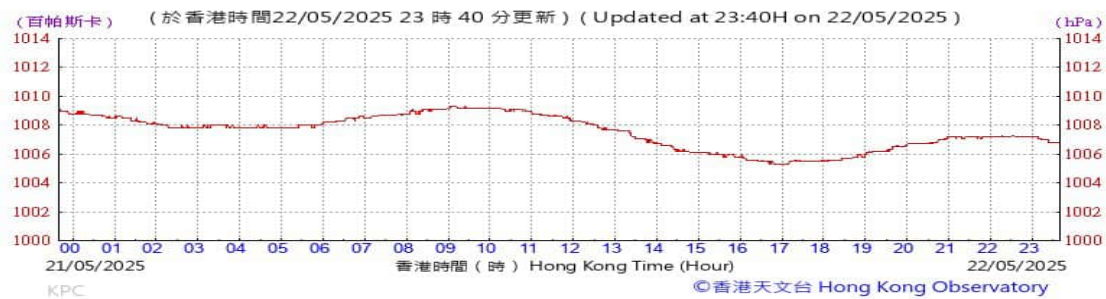




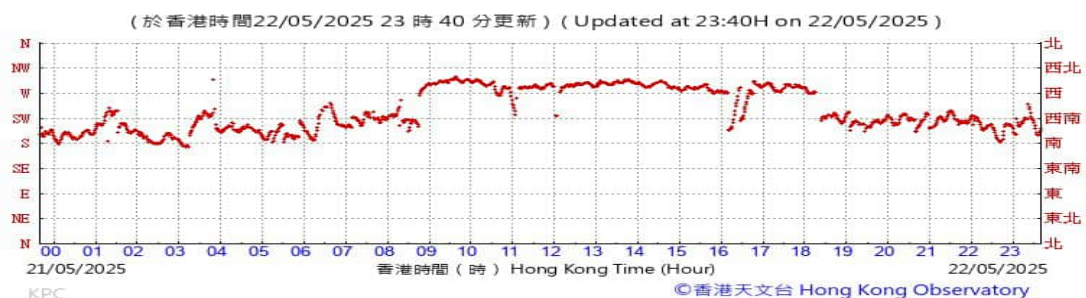
Temperature/Humidity:



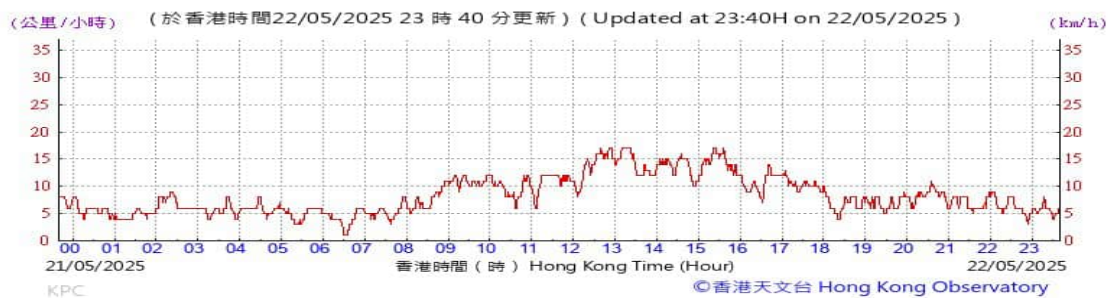
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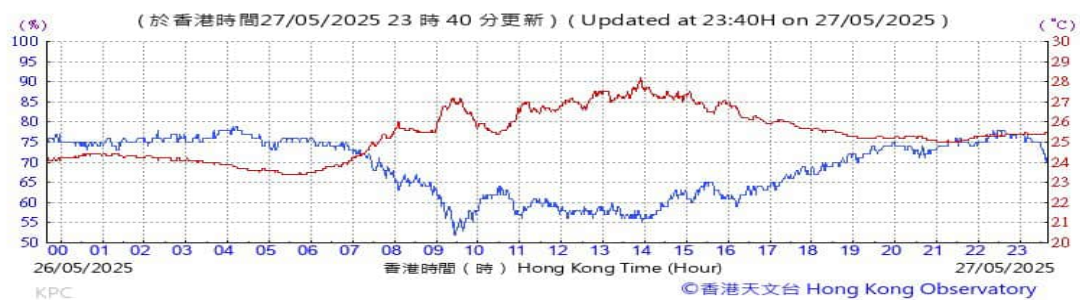
Wind Direction:



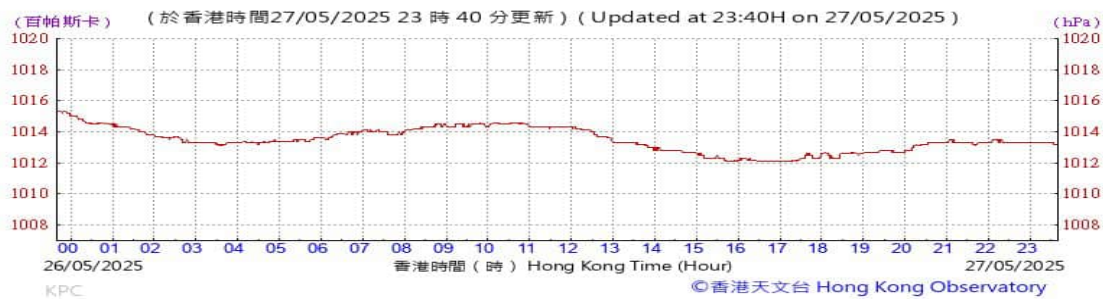
Wind Speed:



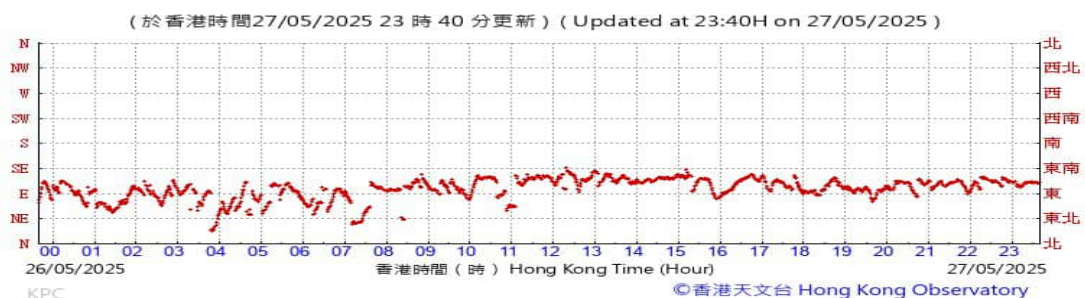
Temperature/Humidity:



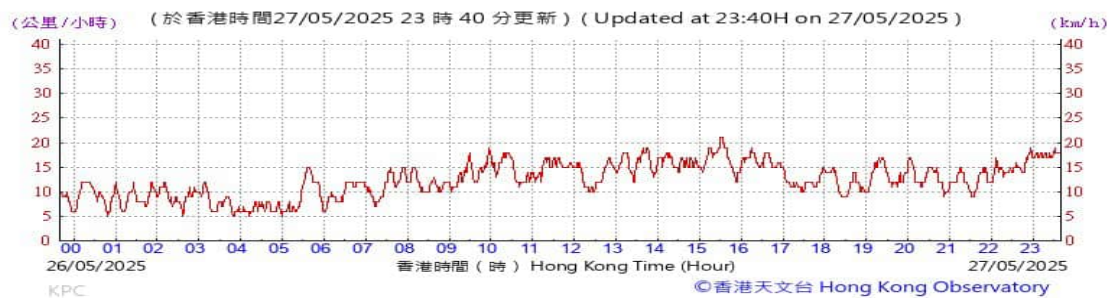
Pressure:



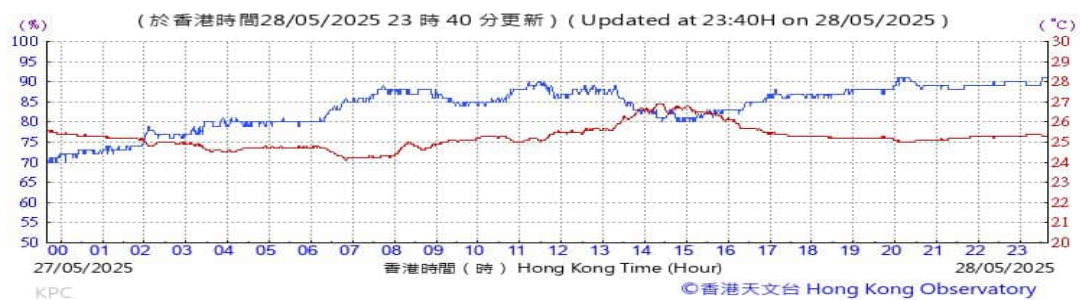
Wind Direction:



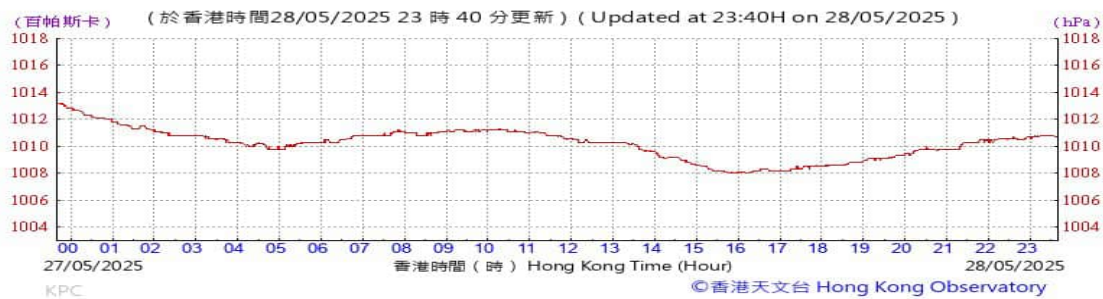
Wind Speed:



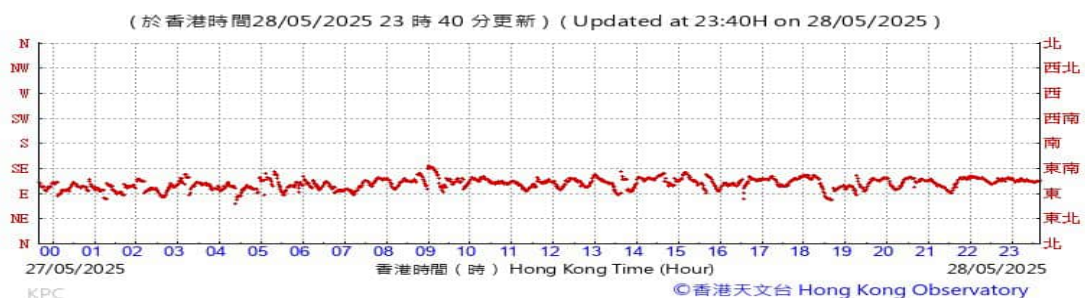
Temperature/Humidity:



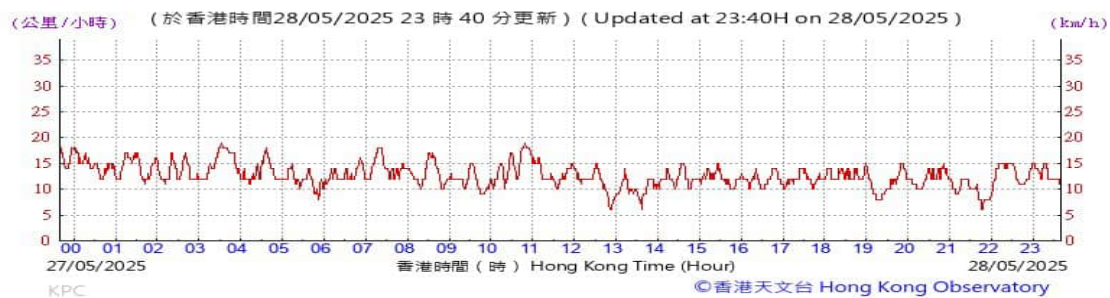
Pressure:



Wind Direction:

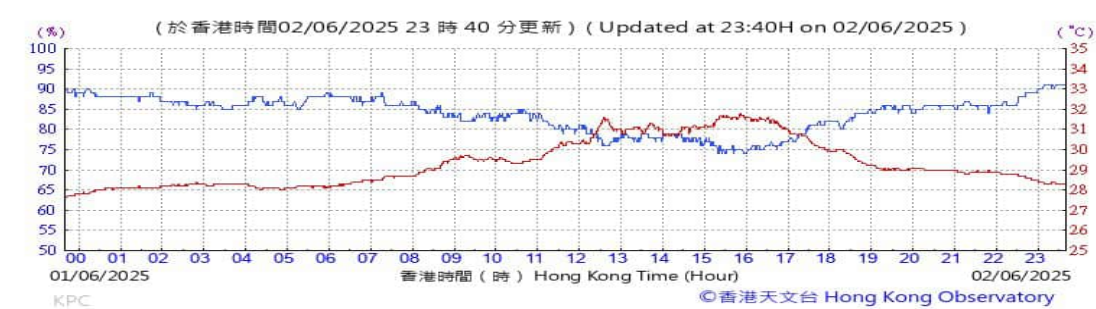


Wind Speed:

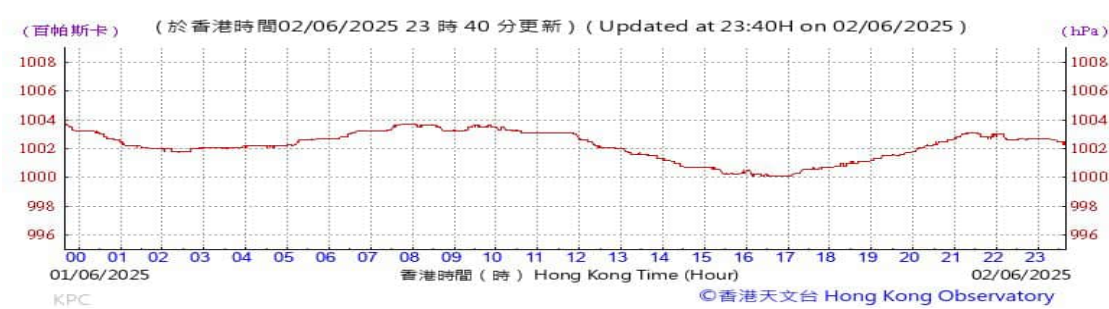




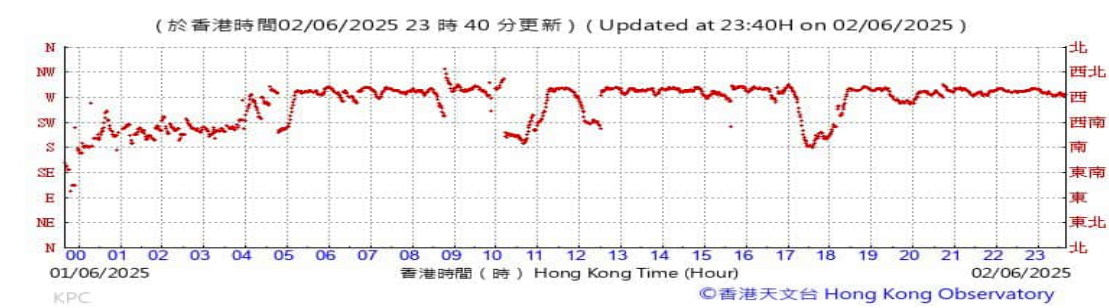
Temperature/Humidity:



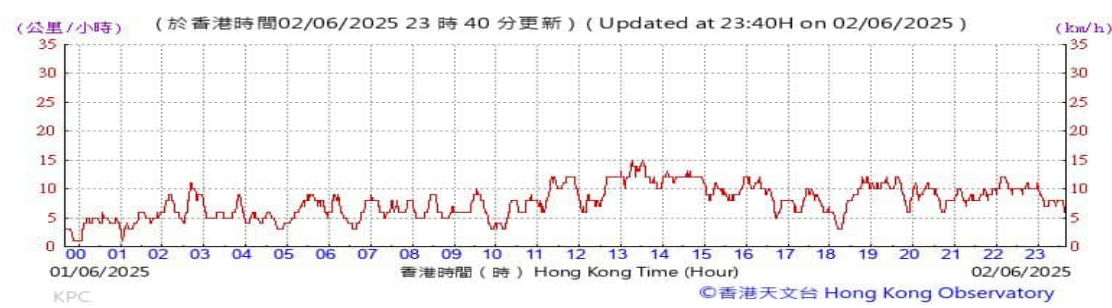
Pressure:



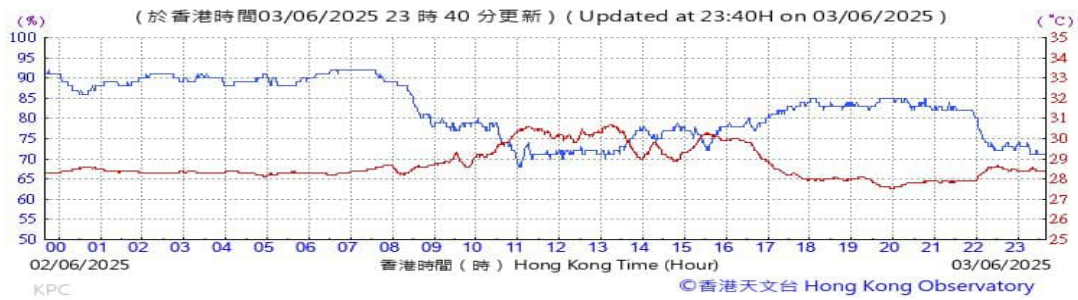
Wind Direction:



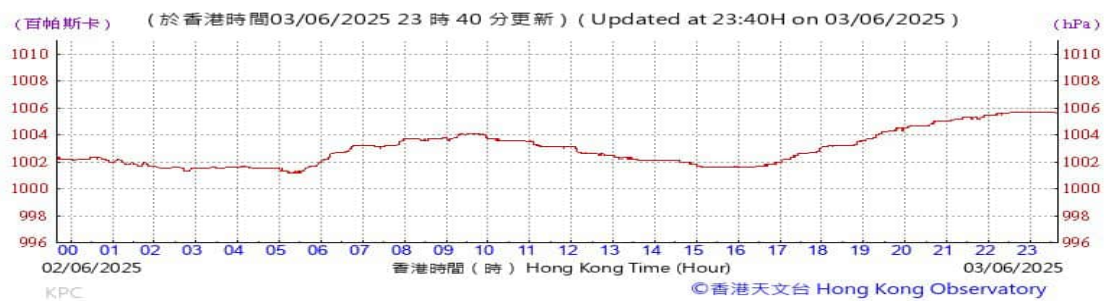
Wind Speed:



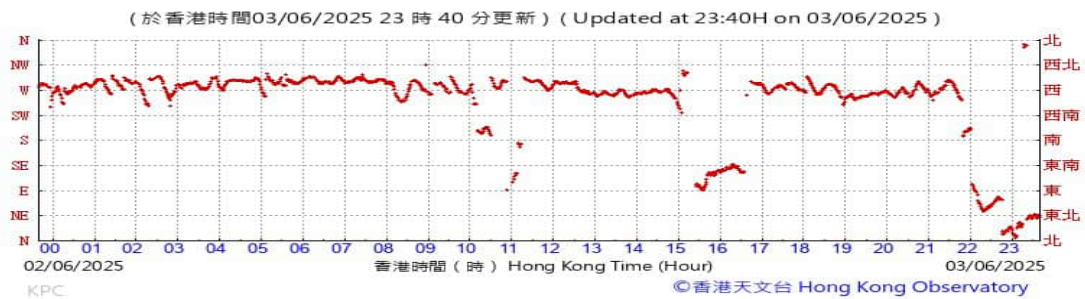
## Temperature/Humidity:



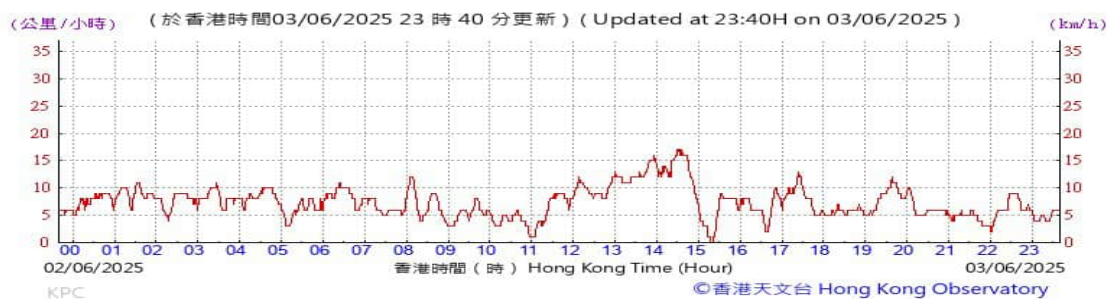
## Pressure:



## Wind Direction:

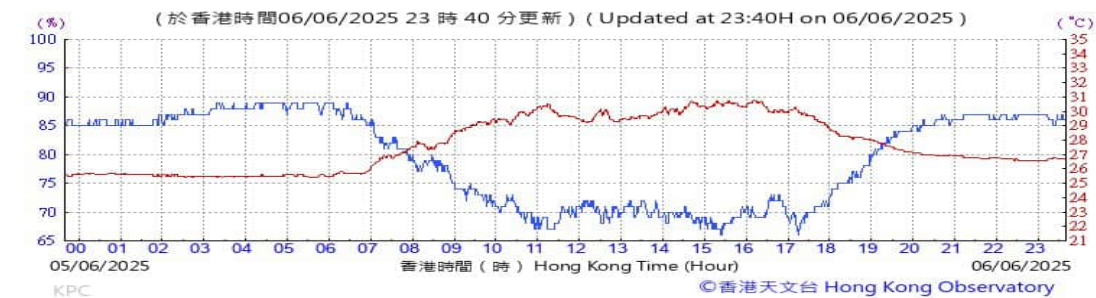


## Wind Speed:

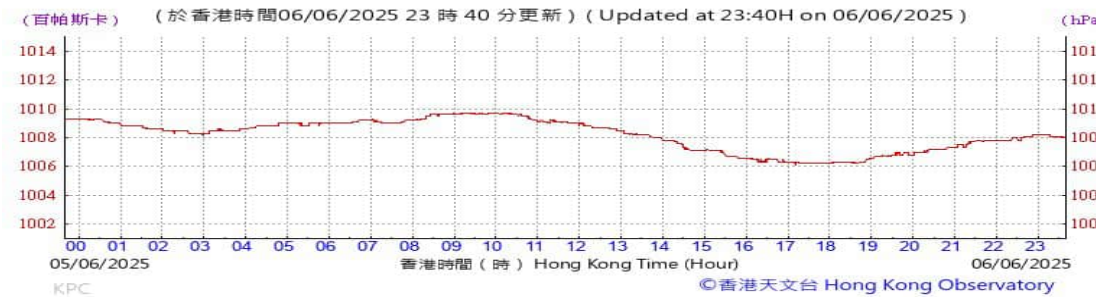




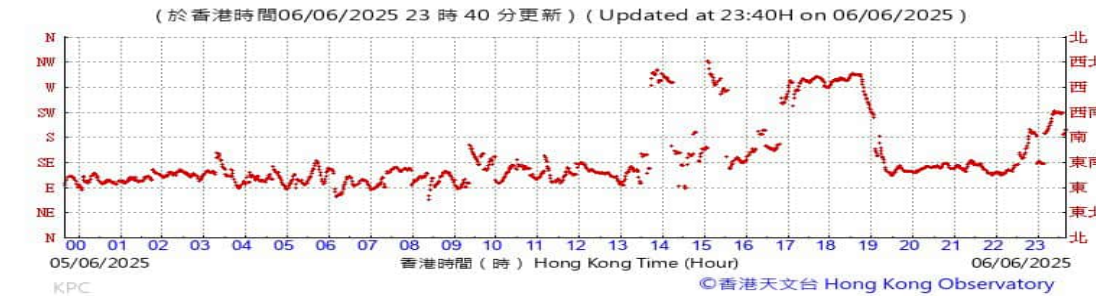
Temperature/Humidity:



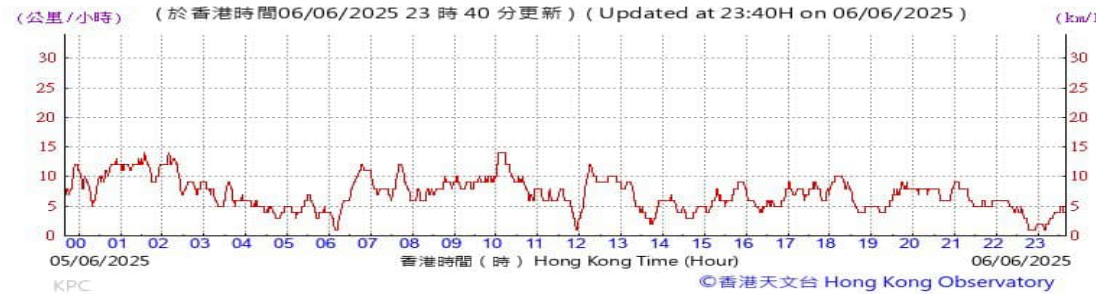
Pressure:



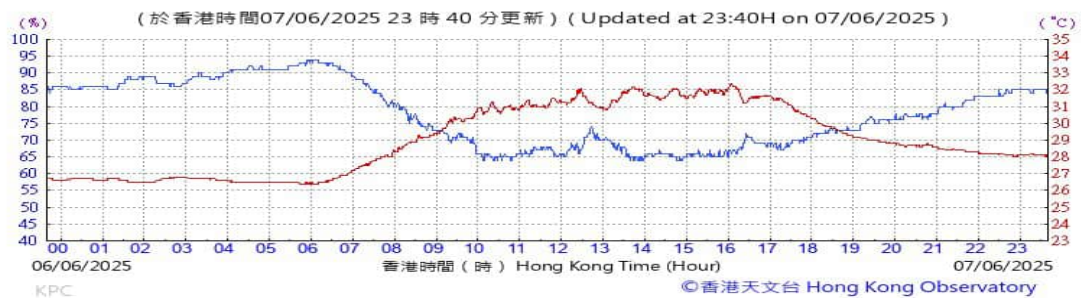
Wind Direction:



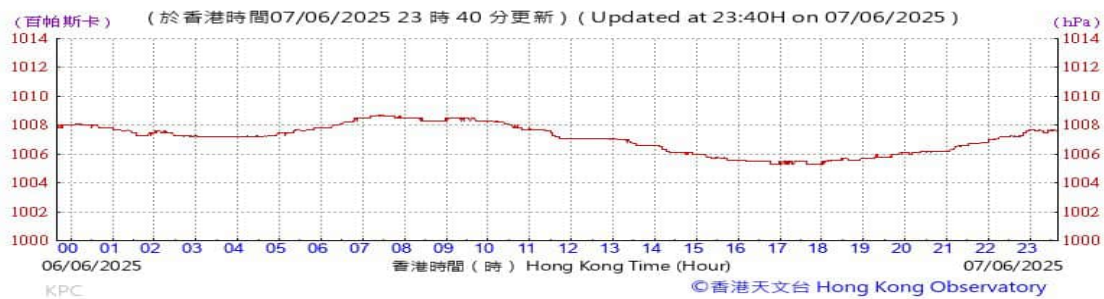
Wind Speed:



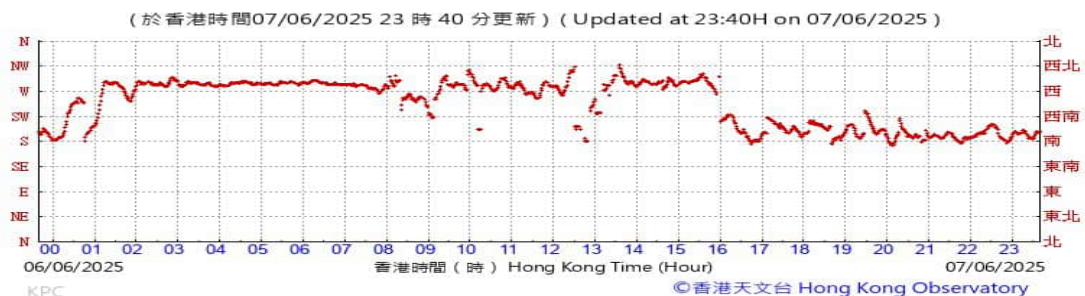
Temperature/Humidity:



Pressure:



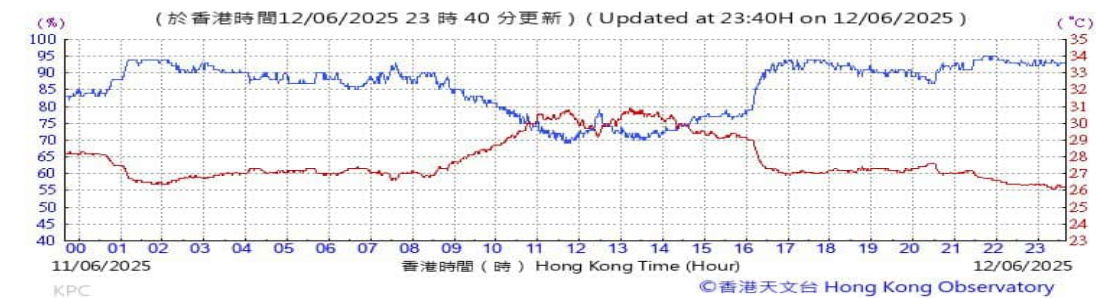
Wind Direction:



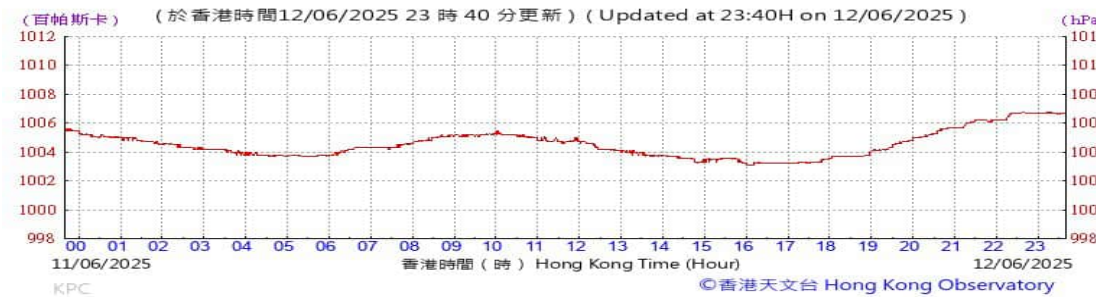
Wind Speed:



Temperature/Humidity:



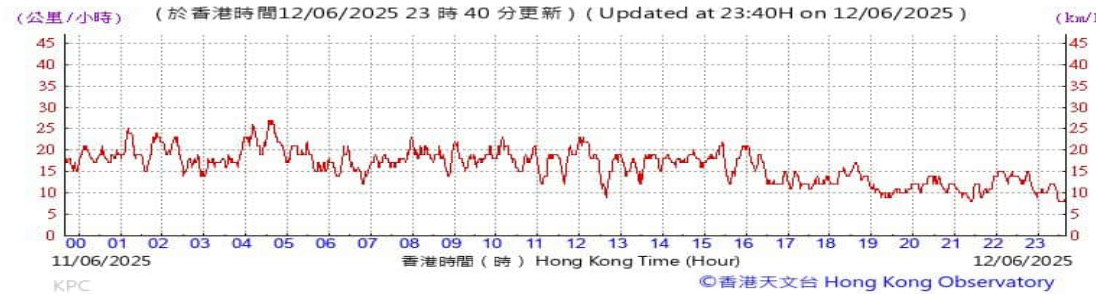
Pressure:



Wind Direction:

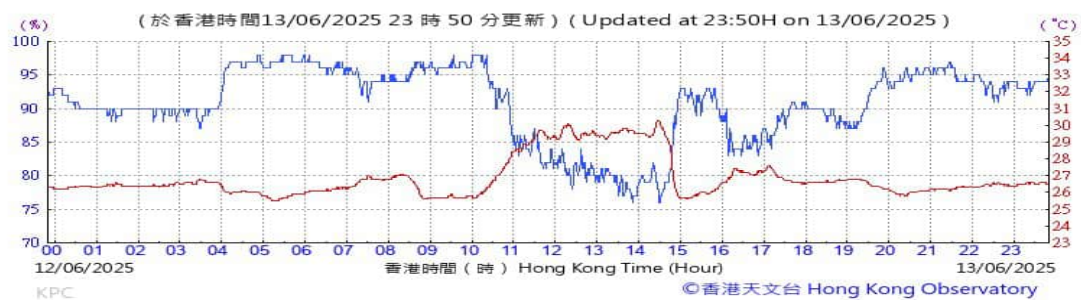


Wind Speed:

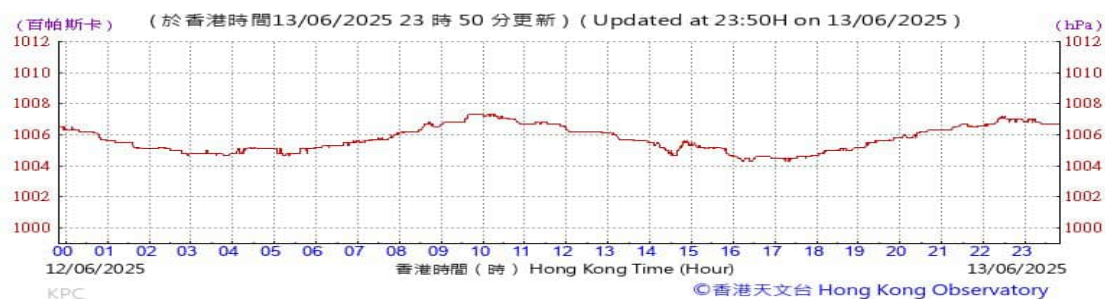




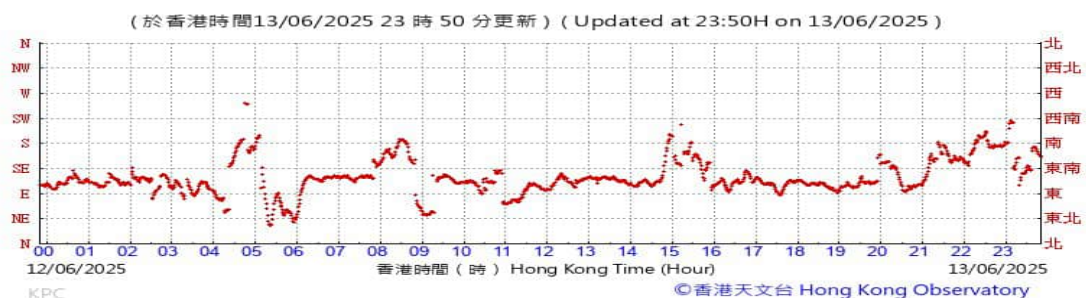
Temperature/Humidity:



Pressure:



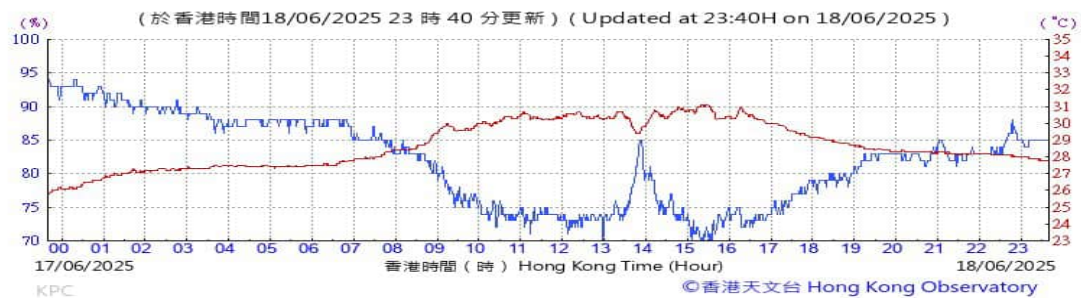
Wind Direction:



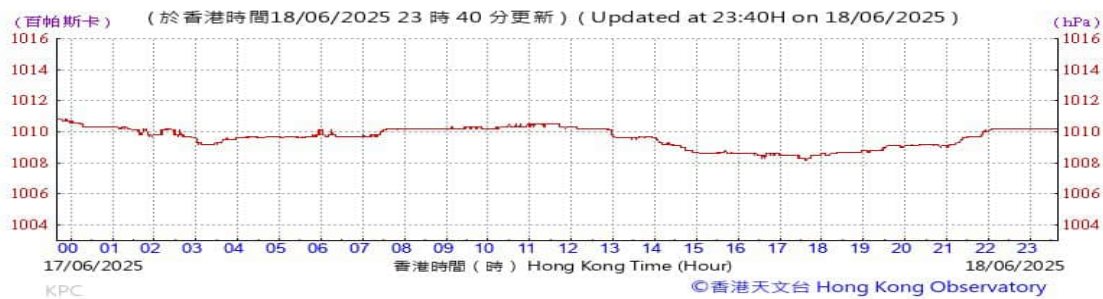
Wind Speed:



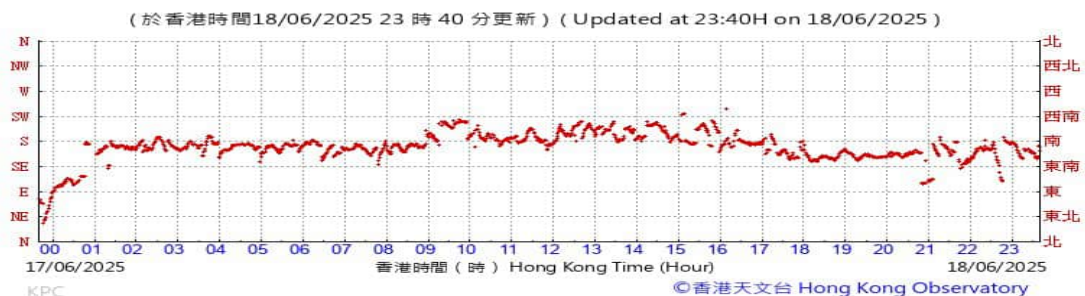
Temperature/Humidity:



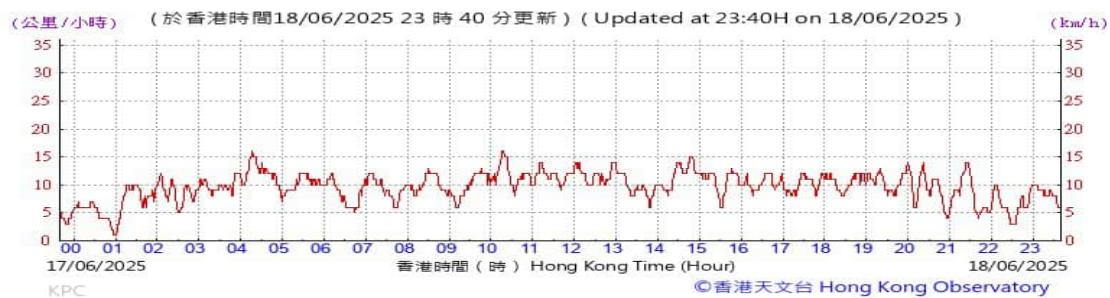
Pressure:



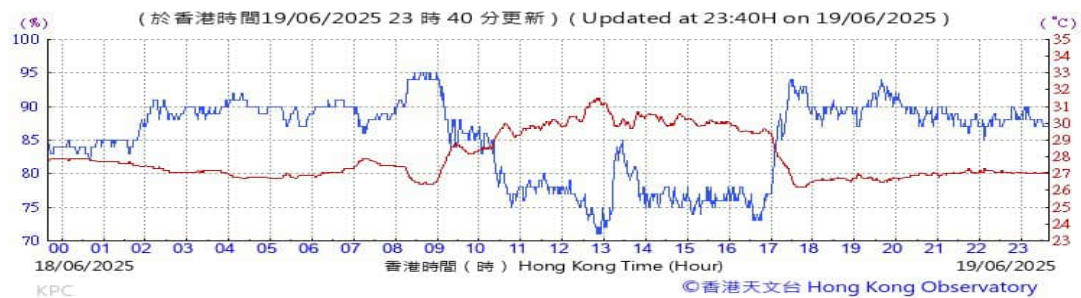
Wind Direction:



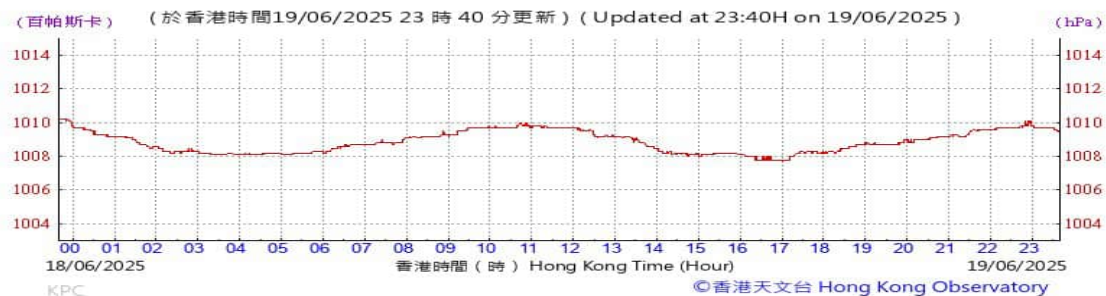
Wind Speed:



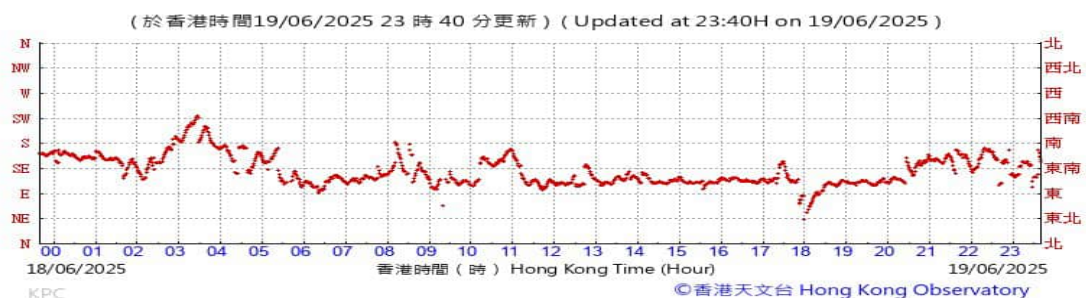
Temperature/Humidity:



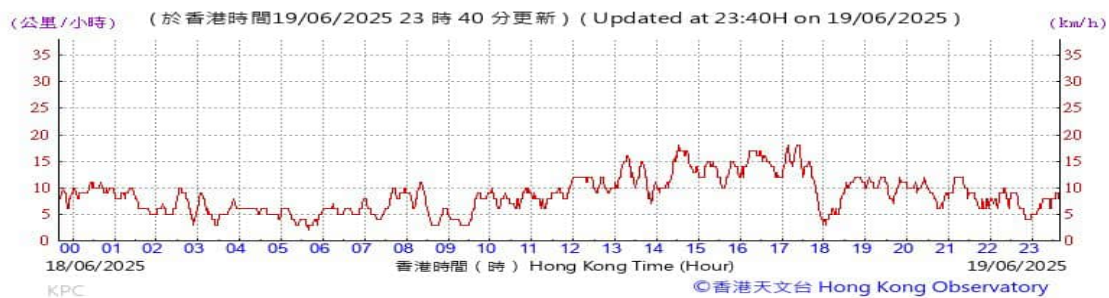
Pressure:



Wind Direction:

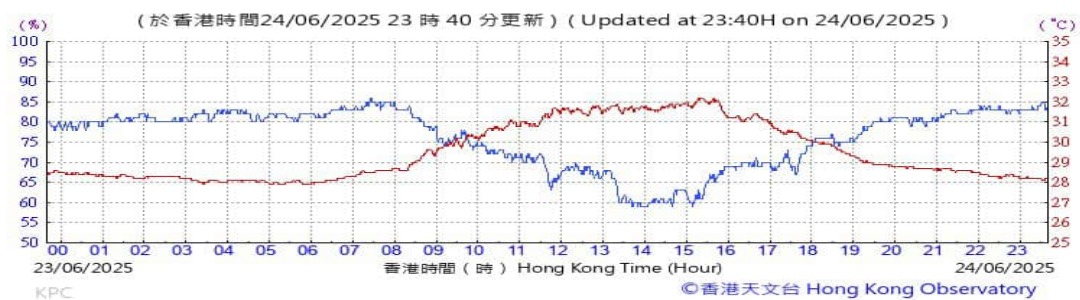


Wind Speed:

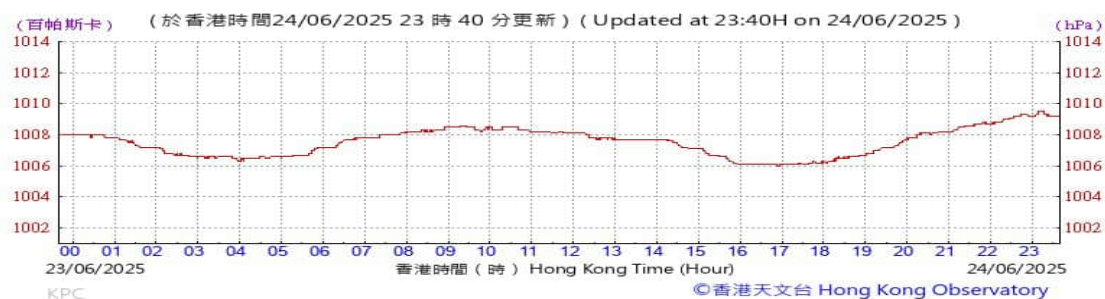




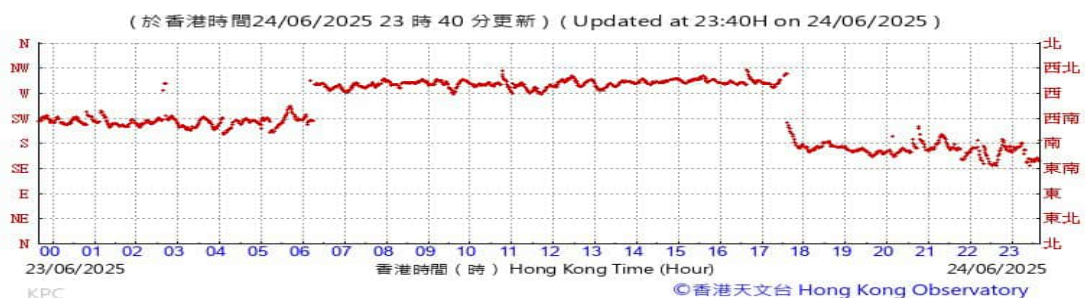
Temperature/Humidity:



Pressure:



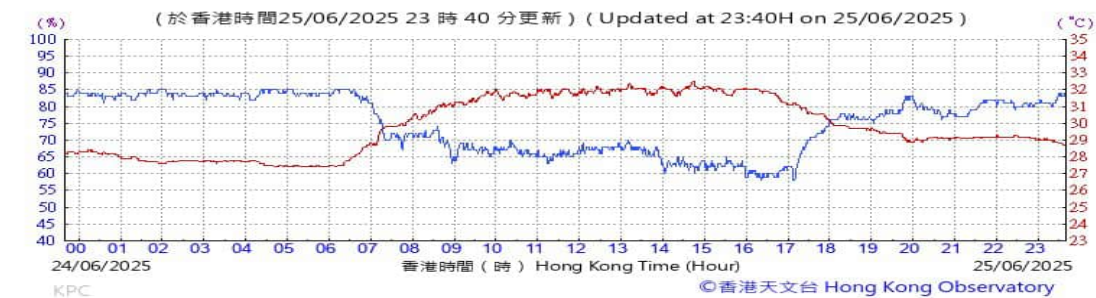
Wind Direction:



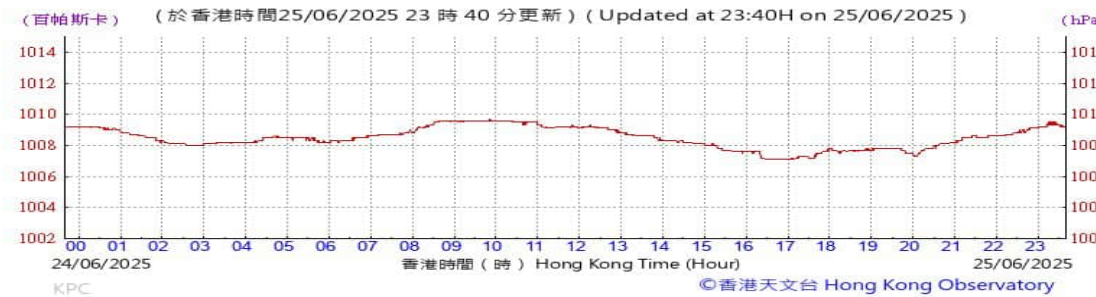
Wind Speed:



Temperature/Humidity:



Pressure:



Wind Direction:

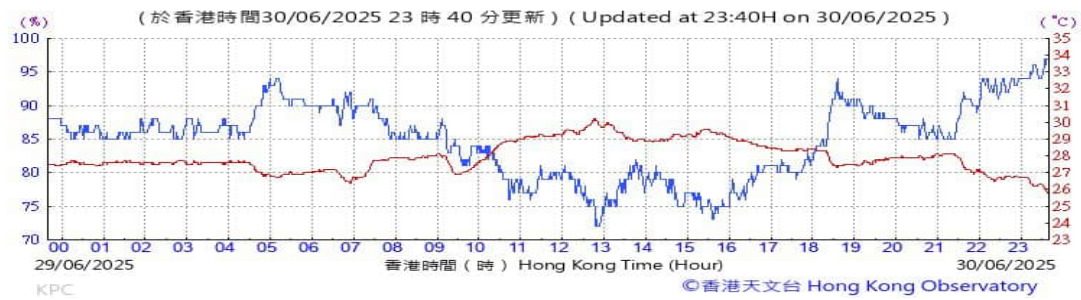


Wind Speed:

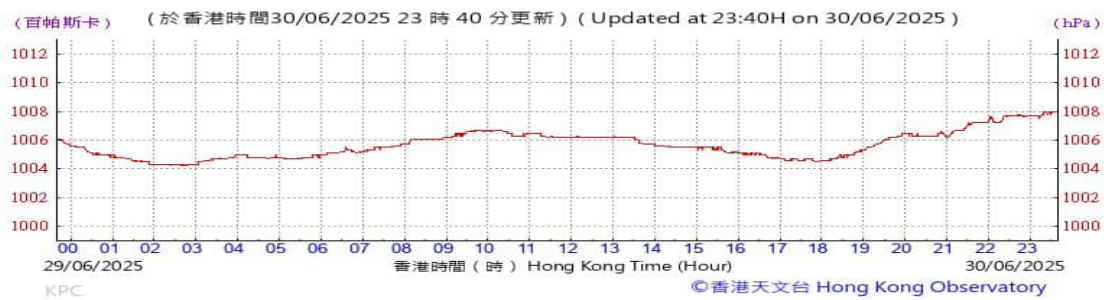




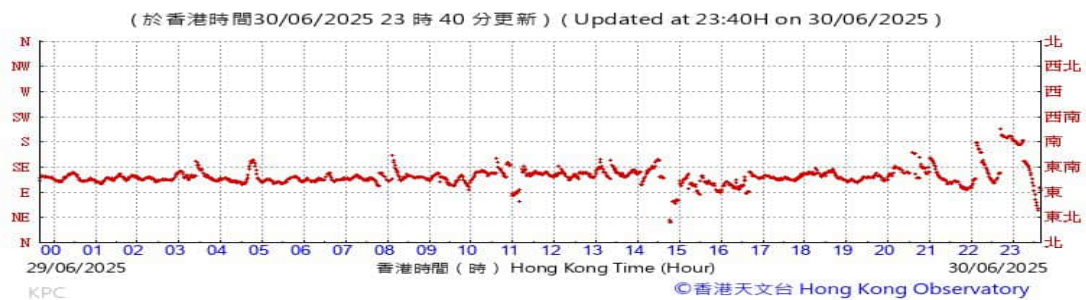
Temperature/Humidity:



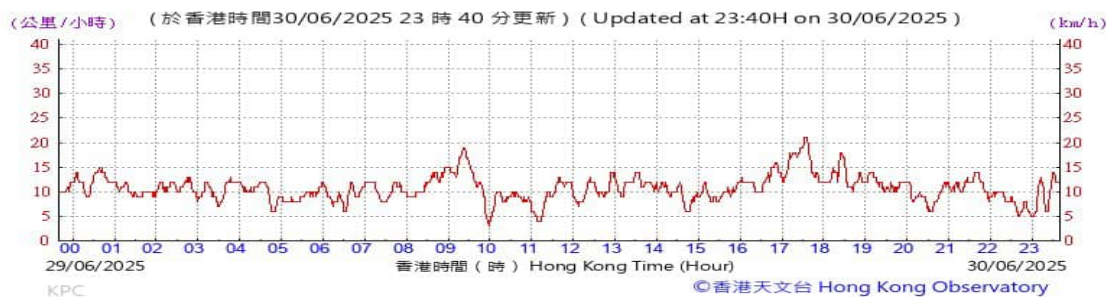
Pressure:



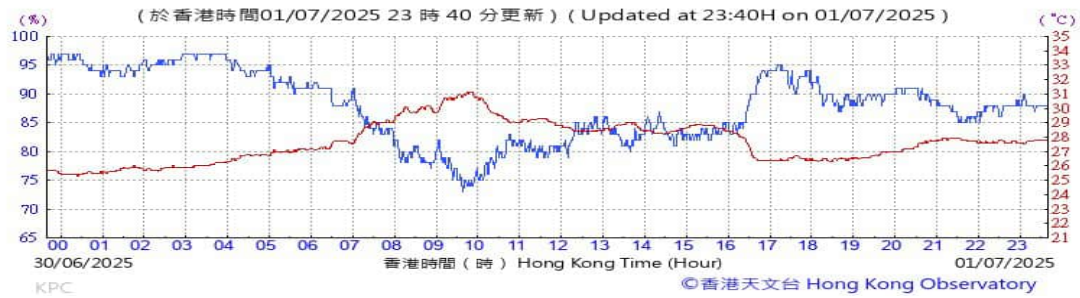
Wind Direction:



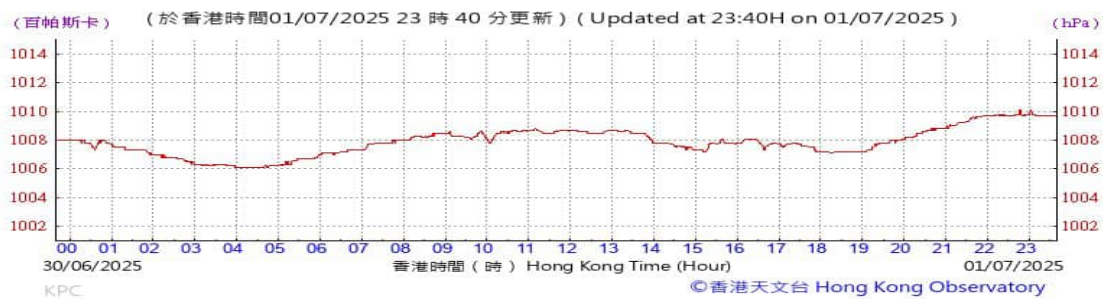
Wind Speed:



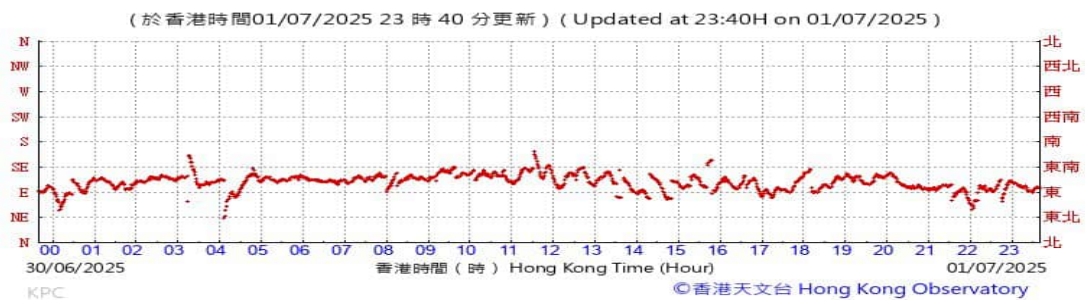
Temperature/Humidity:



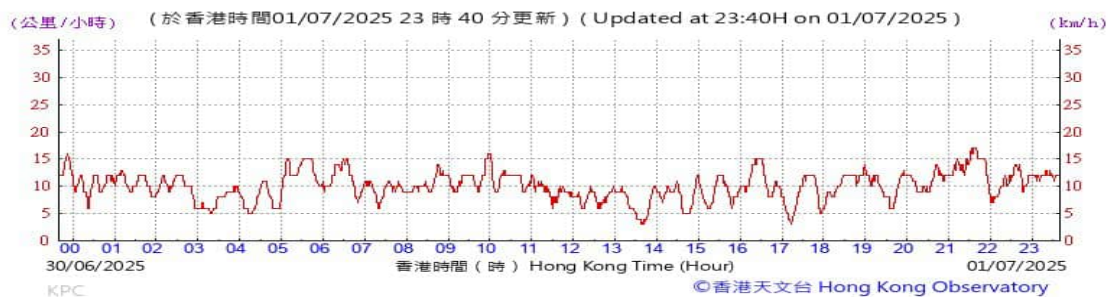
Pressure:



Wind Direction:



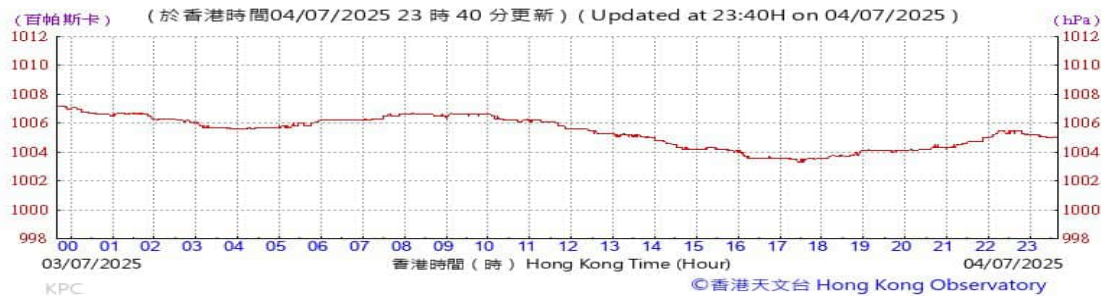
Wind Speed:



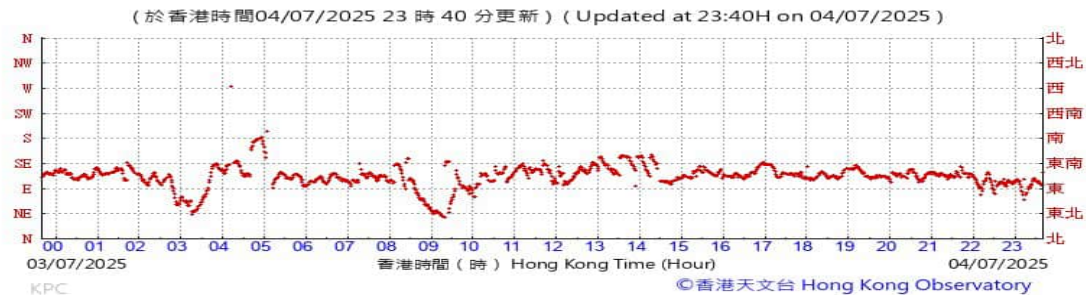
Temperature/Humidity:



Pressure:



Wind Direction:

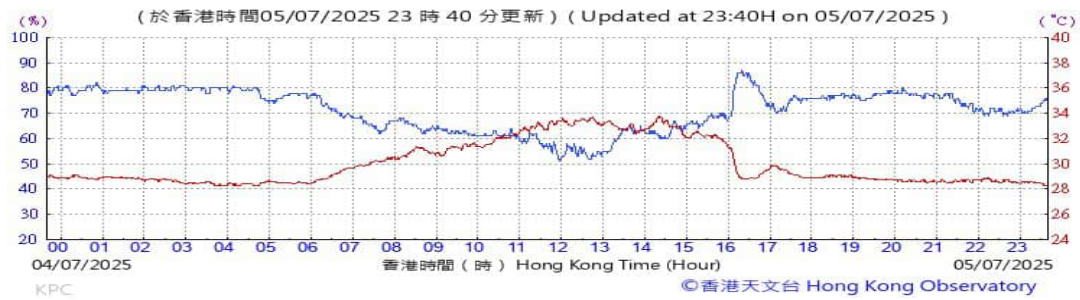


Wind Speed:

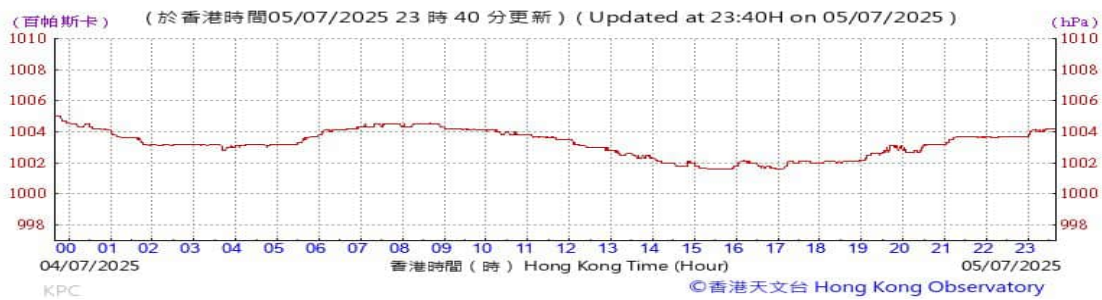




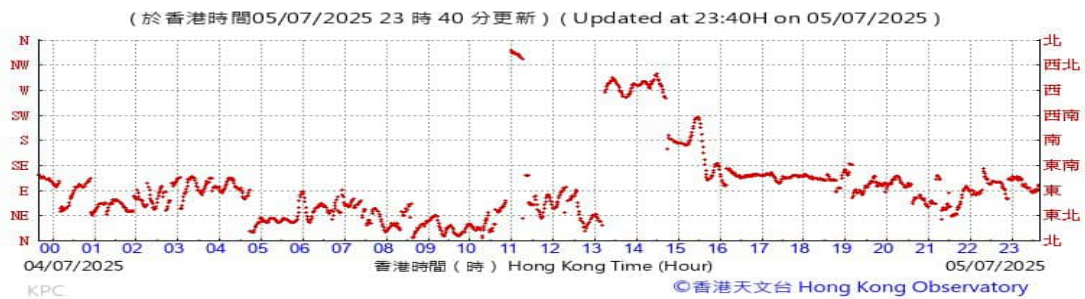
Temperature/Humidity:



Pressure:



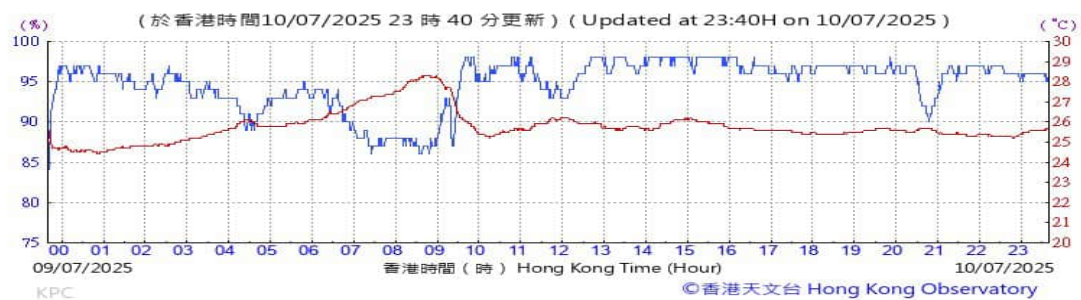
Wind Direction:



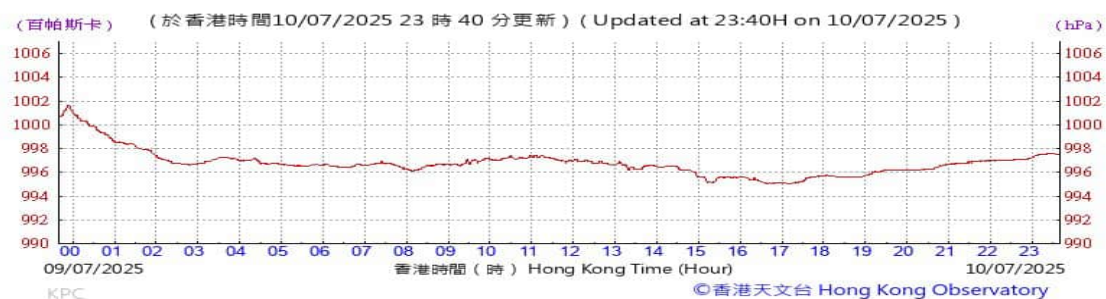
Wind Speed:



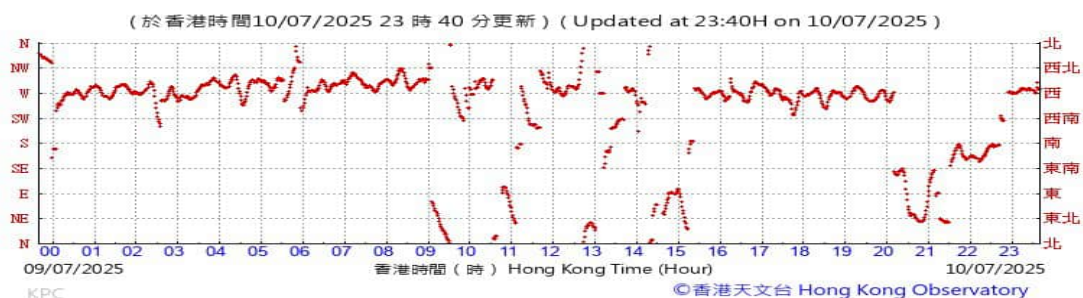
Temperature/Humidity:



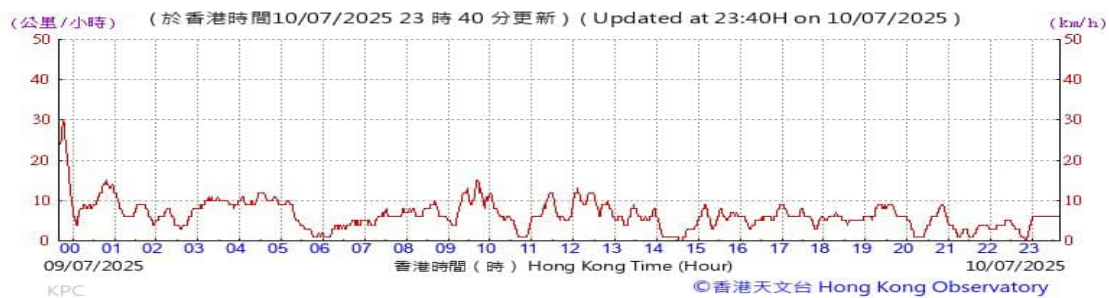
Pressure:



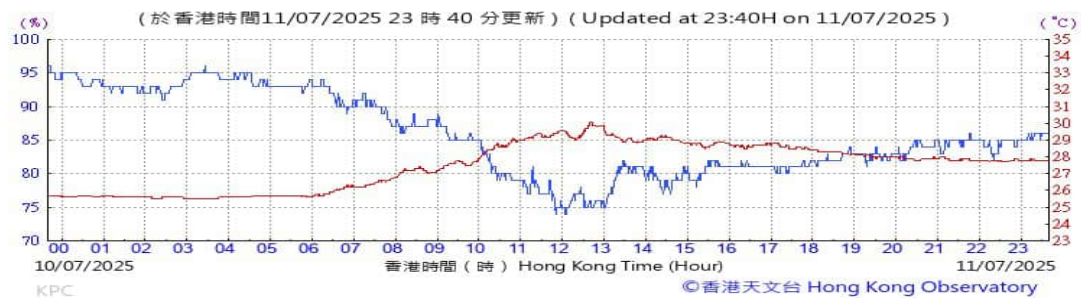
Wind Direction:



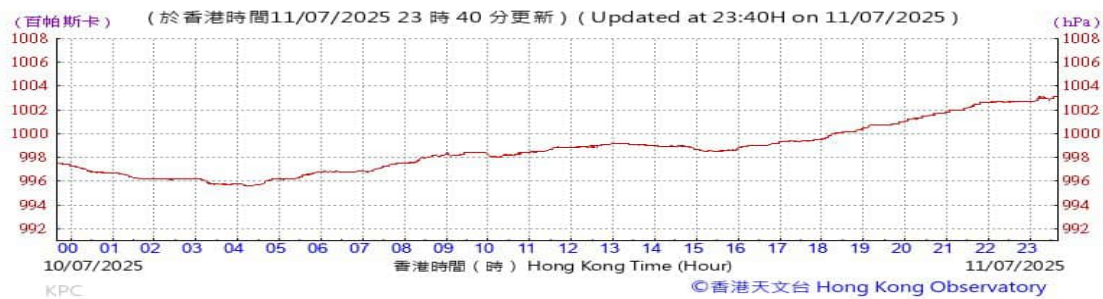
Wind Speed:



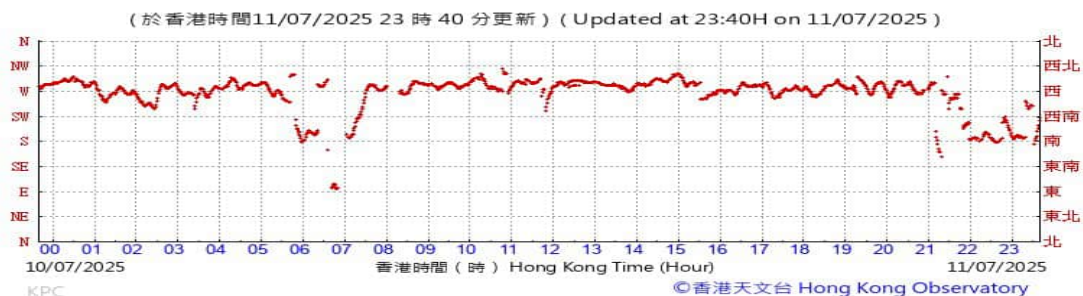
Temperature/Humidity:



Pressure:



Wind Direction:

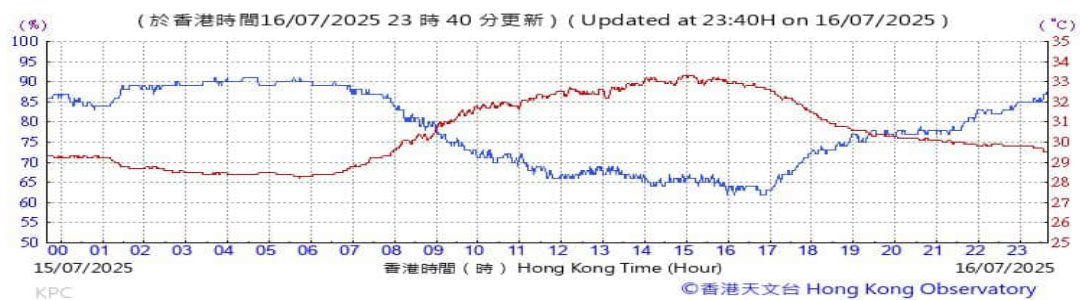


Wind Speed:

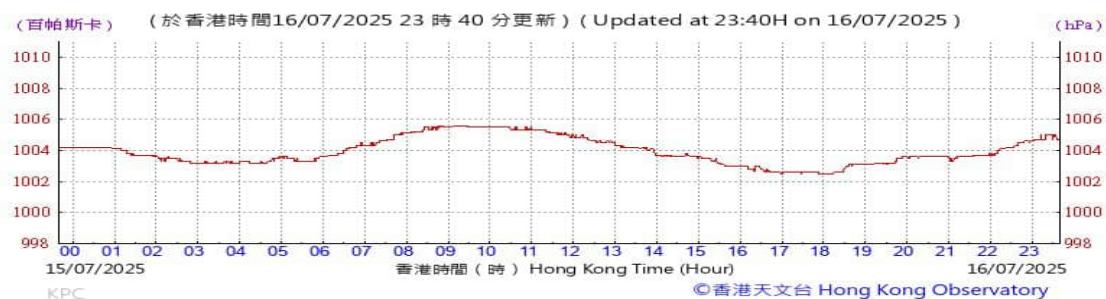




Temperature/Humidity:



Pressure:



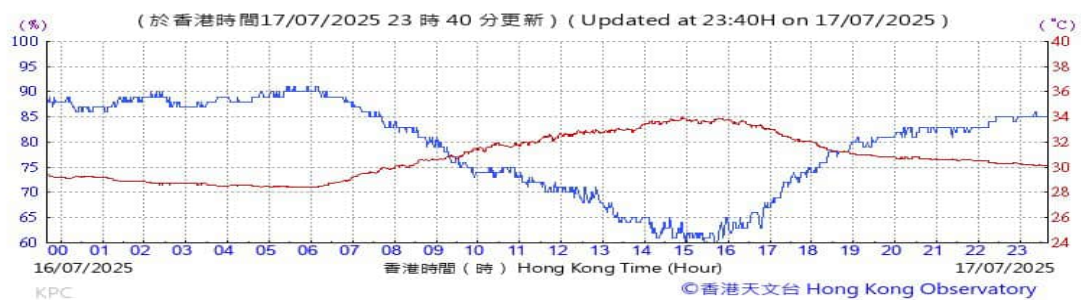
Wind Direction:



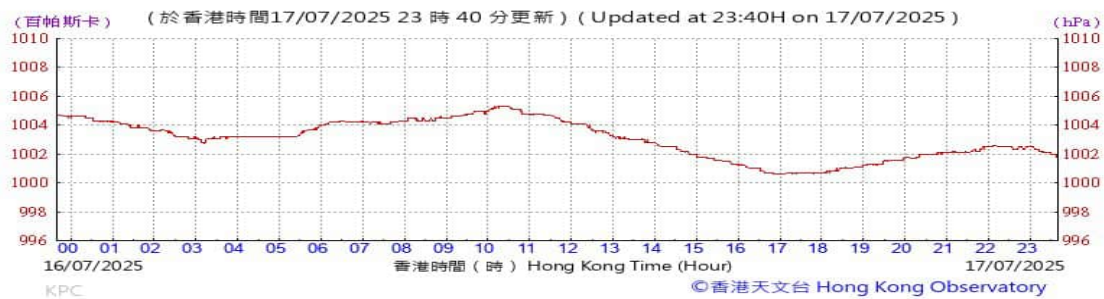
Wind Speed:



Temperature/Humidity:



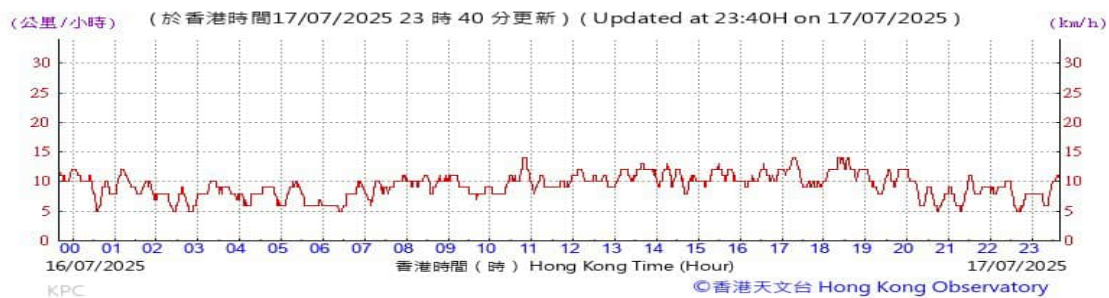
Pressure:



Wind Direction:

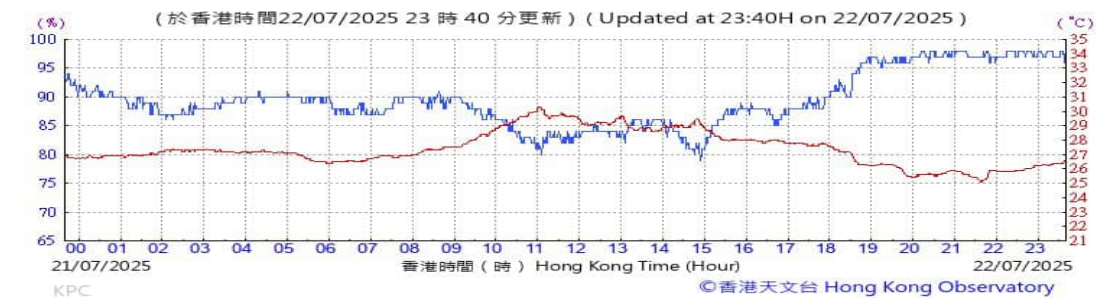


Wind Speed:

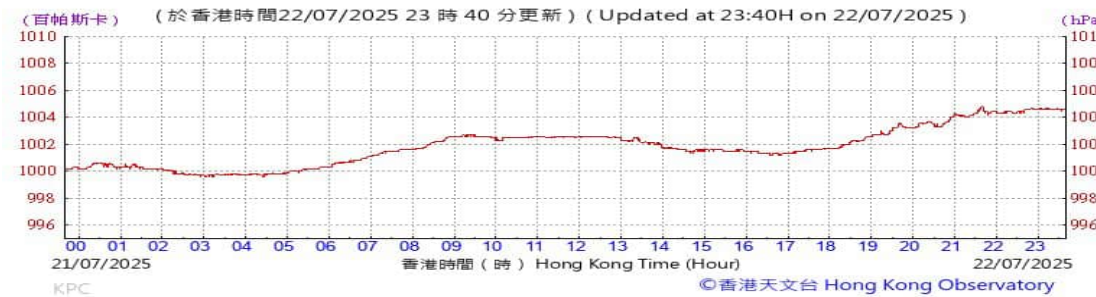




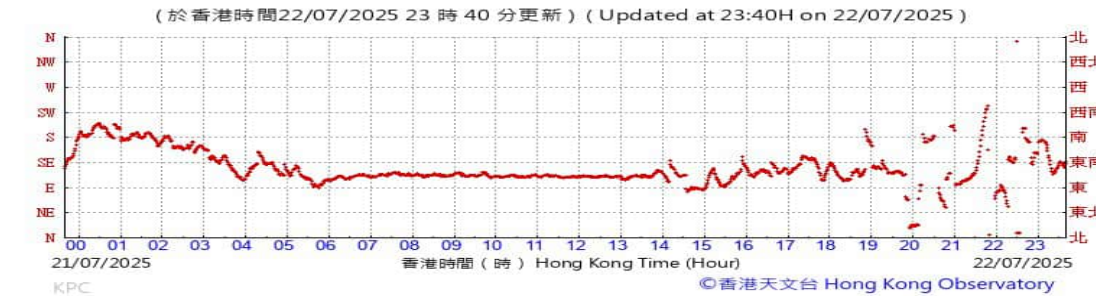
Temperature/Humidity:



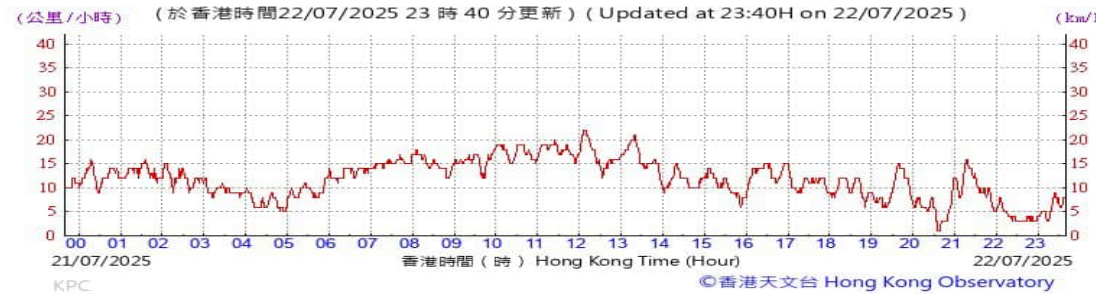
Pressure:



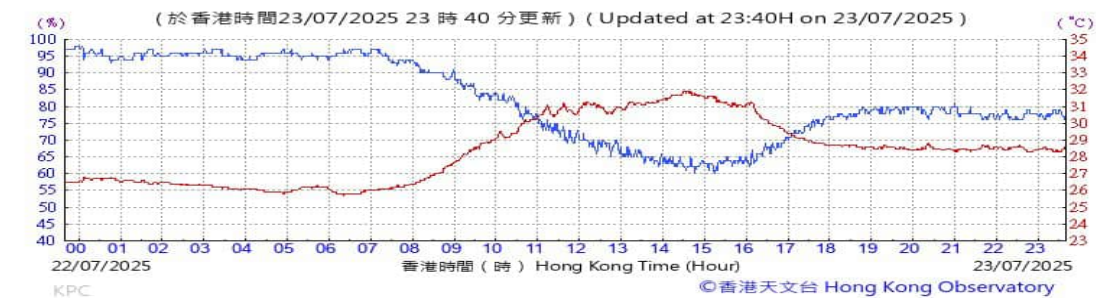
Wind Direction:



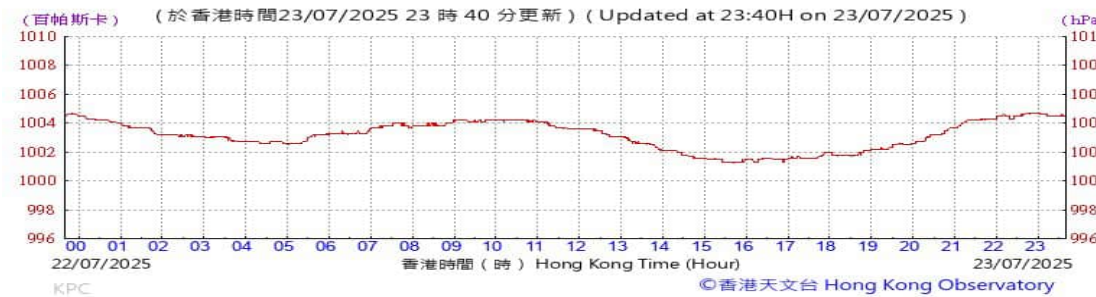
Wind Speed:



Temperature/Humidity:



Pressure:



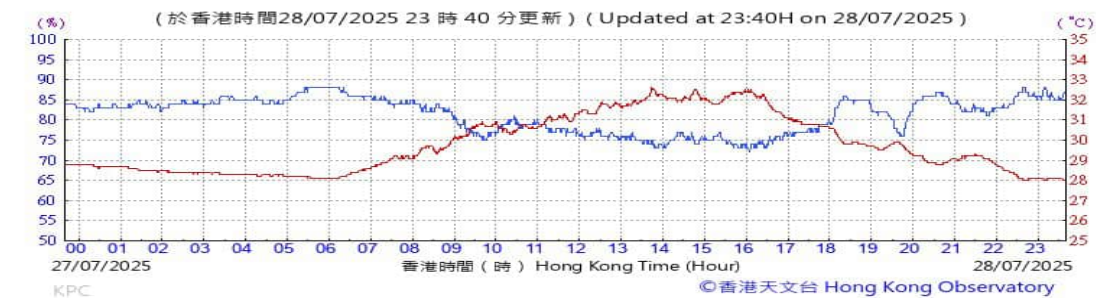
Wind Direction:



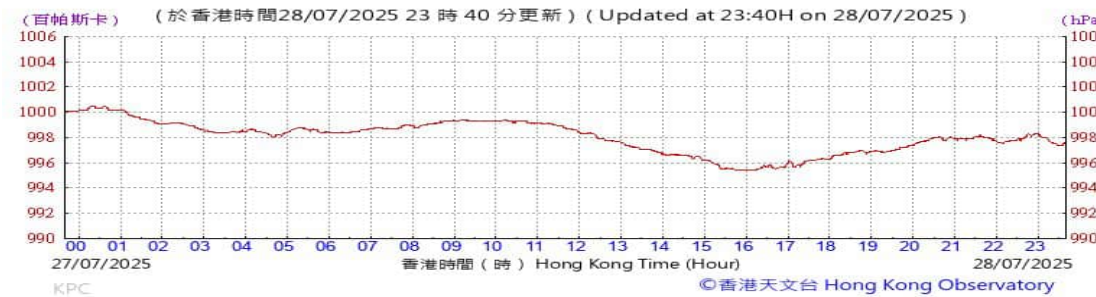
Wind Speed:



Temperature/Humidity:



Pressure:



Wind Direction:

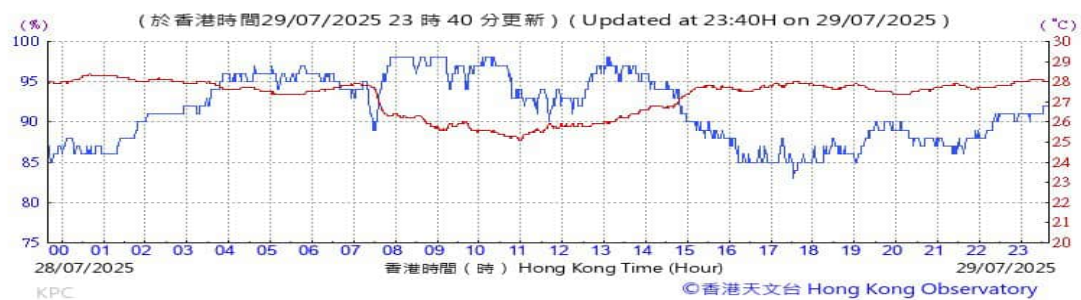


Wind Speed:

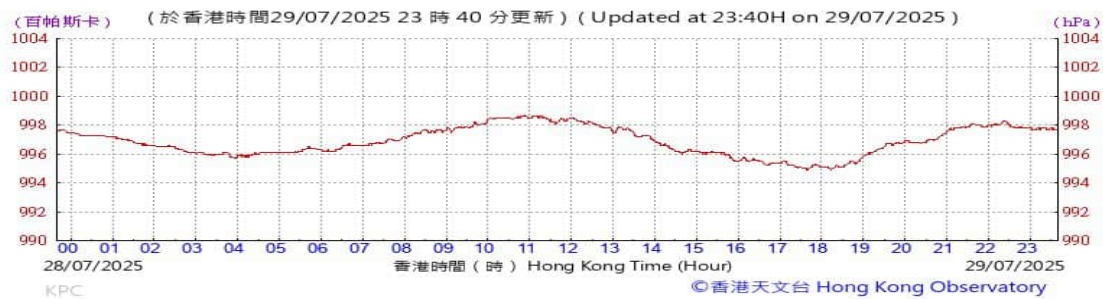




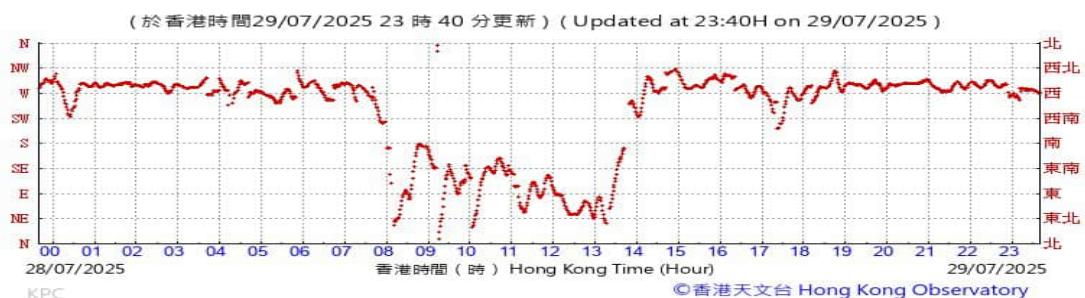
Temperature/Humidity:



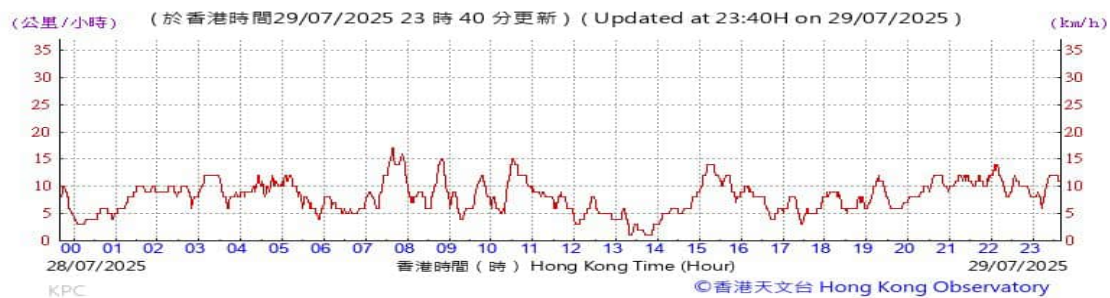
Pressure:



Wind Direction:



Wind Speed:

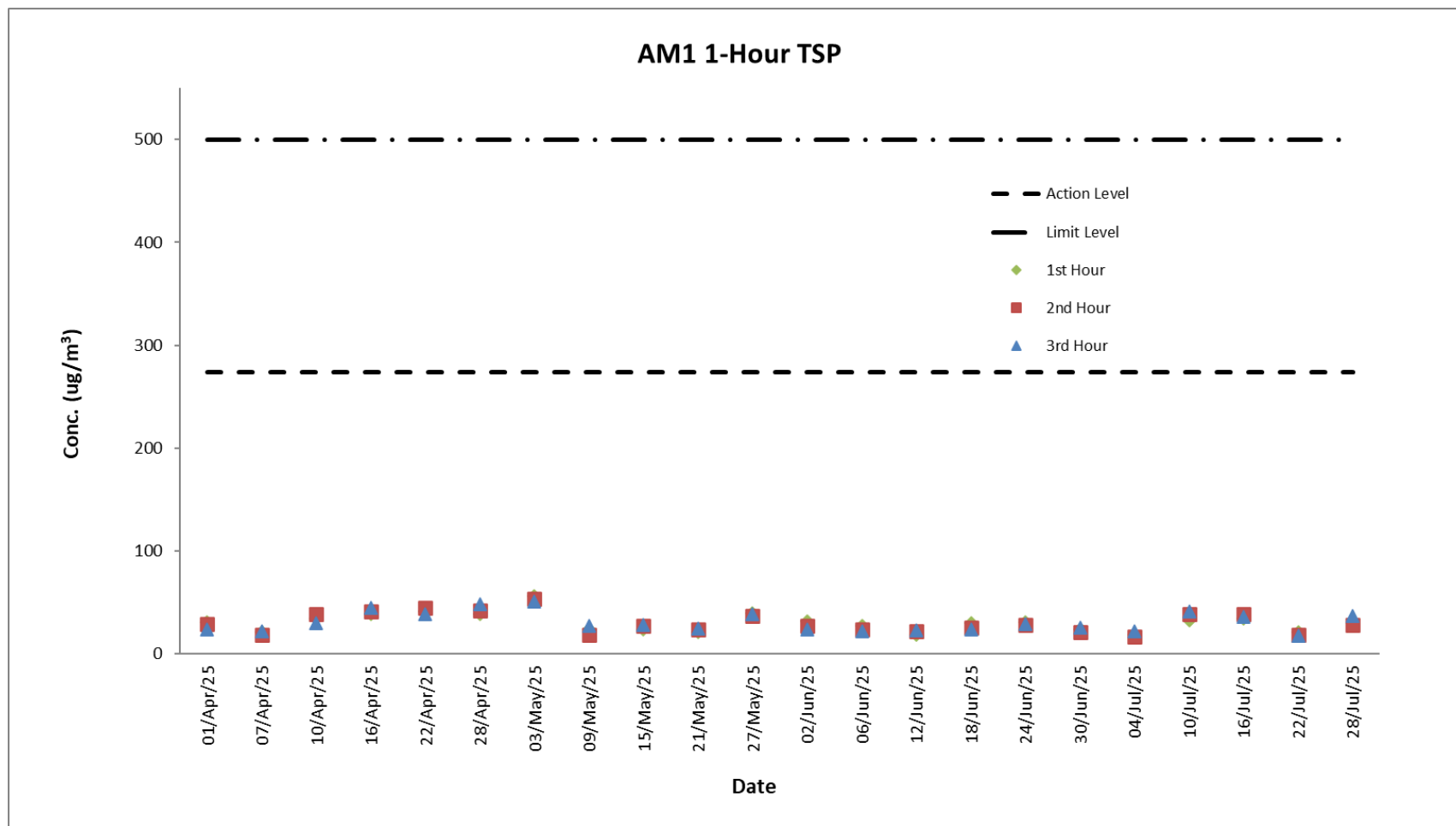


## **E. Graphical Plots of the Monitoring Results**

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

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
03-May-25	Cloudy	8:33 - 11:33	56	54	51	273.7	500
09-May-25	Cloudy	8:28 - 11:28	24	19	27	273.7	500
15-May-25	Cloudy	8:29 - 11:29	24	27	28	273.7	500
21-May-25	Fine	8:38 - 11:38	21	24	25	273.7	500
27-May-25	Fine	8:34 - 11:34	40	37	39	273.7	500
02-Jun-25	Cloudy	8:28 - 11:28	32	27	24	273.7	500
06-Jun-25	Fine	8:28 - 11:28	27	24	22	273.7	500
12-Jun-25	Cloudy	8:24 - 11:24	19	22	23	273.7	500
18-Jun-25	Cloudy	8:40 - 11:40	30	26	24	273.7	500
24-Jun-25	Fine	8:28 - 11:28	31	28	29	273.7	500
30-Jun-25	Cloudy	8:37 - 11:37	24	21	26	273.7	500
04-Jul-25	Fine	8:28 - 11:28	19	17	22	273.7	500
10-Jul-25	Cloudy	8:22 - 11:22	33	39	41	273.7	500
16-Jul-25	Fine	8:23 - 11:23	34	39	36	273.7	500
22-Jul-25	Cloudy	8:24 - 11:24	21	19	18	273.7	500
28-Jul-25	Cloudy	8:20 - 11:20	30	28	37	273.7	500

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

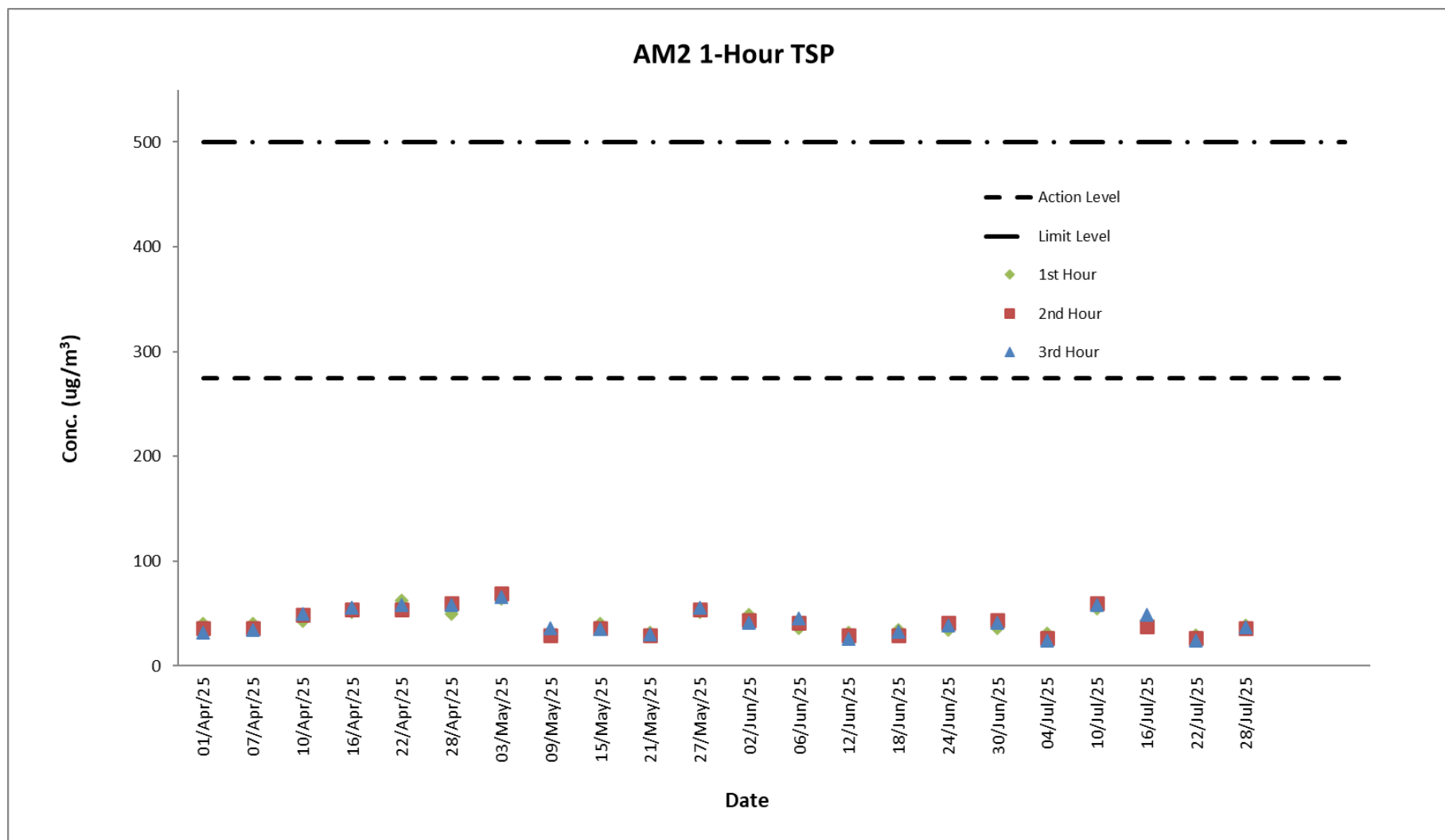




**Air Quality Monitoring Result at Station AM2 (1-hour TSP)**

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
03-May-25	Cloudy	8:49 - 11:49	64	69	66	274.2	500
09-May-25	Cloudy	8:43 - 11:43	33	29	36	274.2	500
15-May-25	Cloudy	8:45 - 11:45	40	36	35	274.2	500
21-May-25	Fine	8:43 - 11:43	32	29	30	274.2	500
27-May-25	Fine	8:50 - 11:50	51	54	56	274.2	500
02-Jun-25	Cloudy	8:35 - 11:35	49	44	41	274.2	500
06-Jun-25	Fine	8:45 - 11:45	36	41	45	274.2	500
12-Jun-25	Cloudy	8:40 - 11:40	32	29	26	274.2	500
18-Jun-25	Cloudy	8:56 - 11:56	34	29	33	274.2	500
24-Jun-25	Fine	8:43 - 11:43	34	41	39	274.2	500
30-Jun-25	Cloudy	8:52 - 11:52	36	44	41	274.2	500
04-Jul-25	Fine	8:44 - 11:44	31	27	24	274.2	500
10-Jul-25	Cloudy	8:37 - 11:37	55	60	58	274.2	500
16-Jul-25	Fine	8:38 - 11:38	41	38	49	274.2	500
22-Jul-25	Cloudy	8:40 - 11:40	29	27	24	274.2	500
28-Jul-25	Cloudy	8:38 - 11:38	39	36	37	274.2	500

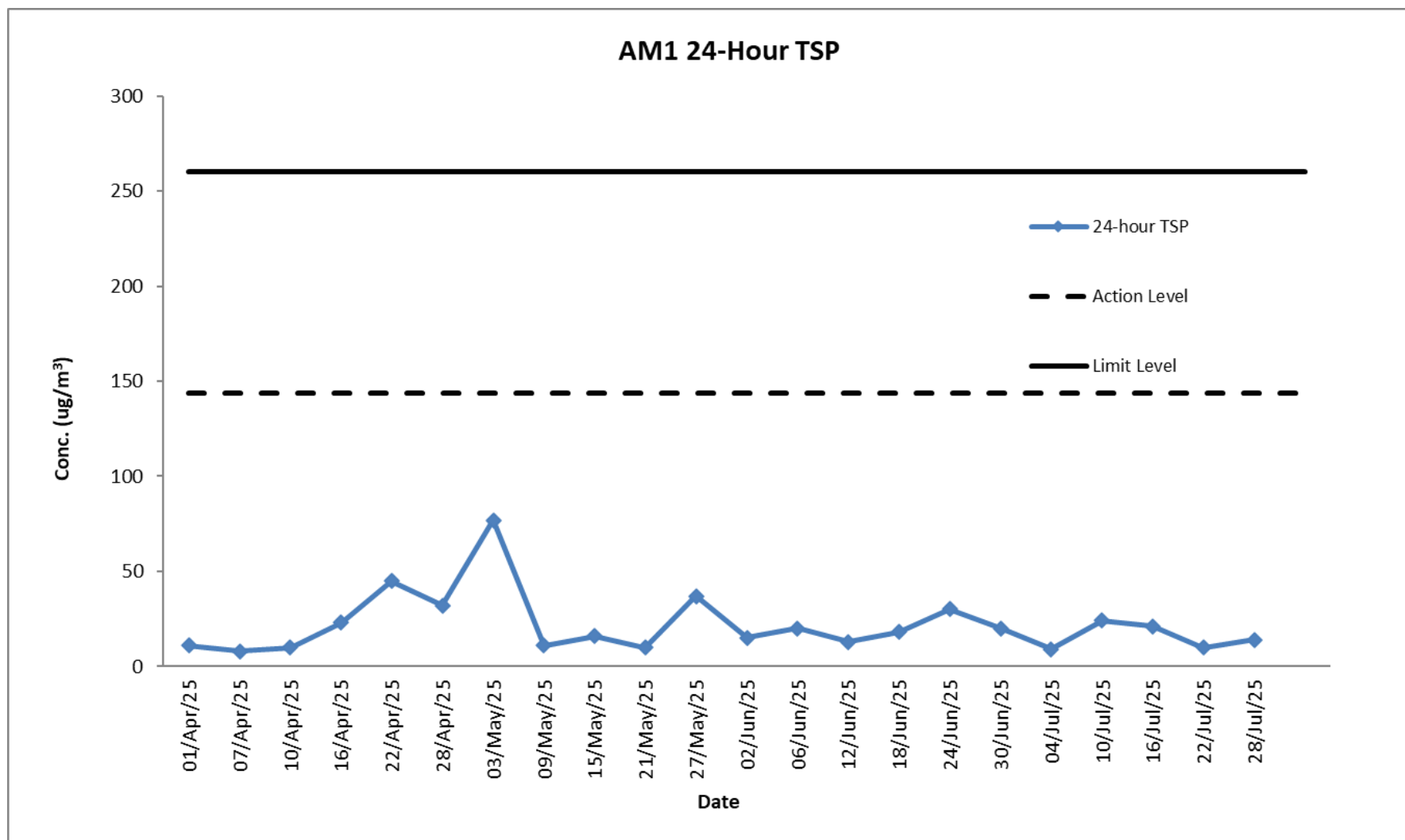
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
03-May-25	08:30	04-May-25	08:30	2.8173	2.9545	29644.38	29668.38	24	1.24	1.24	1.24	77	Cloudy	143.6	260
09-May-25	08:25	10-May-25	08:25	2.8291	2.8485	29668.38	29692.38	24	1.18	1.18	1.18	11	Cloudy	143.6	260
15-May-25	08:26	16-May-25	08:26	2.811	2.838	29692.38	29716.38	24	1.18	1.18	1.18	16	Cloudy	143.6	260
21-May-25	08:35	22-May-25	08:35	2.8166	2.8338	29716.38	29740.38	24	1.18	1.18	1.18	10	Fine	143.6	260
27-May-25	08:31	28-May-25	08:31	2.817	2.8806	29740.38	29764.38	24	1.18	1.18	1.18	37	Fine	143.6	260
02-Jun-25	08:25	03-Jun-25	08:25	2.7932	2.8182	29764.38	29788.38	24	1.18	1.18	1.18	15	Cloudy	143.6	260
06-Jun-25	08:25	07-Jun-25	08:25	2.8129	2.8464	29788.38	29812.38	24	1.18	1.18	1.18	20	Fine	143.6	260
12-Jun-25	08:21	13-Jun-25	08:21	2.8134	2.8362	29812.38	29836.38	24	1.18	1.18	1.18	13	Cloudy	143.6	260
18-Jun-25	08:37	19-Jun-25	08:37	2.8113	2.8422	29836.38	29860.38	24	1.18	1.18	1.18	18	Cloudy	143.6	260
24-Jun-25	08:26	25-Jun-25	08:26	2.7972	2.8474	29860.38	29884.38	24	1.18	1.18	1.18	30	Fine	143.6	260
30-Jun-25	08:35	01-Jul-25	08:35	2.8131	2.8477	29884.38	29908.38	24	1.18	1.18	1.18	20	Cloudy	143.6	260
04-Jul-25	08:25	05-Jul-25	08:25	2.8004	2.816	29908.38	29932.38	24	1.18	1.18	1.18	9	Fine	143.6	260
10-Jul-25	08:20	11-Jul-25	08:20	2.8048	2.8478	29932.38	29956.38	24	1.25	1.25	1.25	24	Cloudy	143.6	260
16-Jul-25	08:21	17-Jul-25	08:21	2.7908	2.8282	29956.38	29980.38	24	1.25	1.25	1.25	21	Fine	143.6	260
22-Jul-25	08:21	23-Jul-25	08:21	2.7897	2.8084	29980.38	30004.38	24	1.25	1.25	1.25	10	Cloudy	143.6	260
28-Jul-25	08:18	29-Jul-25	08:18	2.7947	2.8200	30004.38	30028.38	24	1.25	1.25	1.25	14	Cloudy	143.6	260

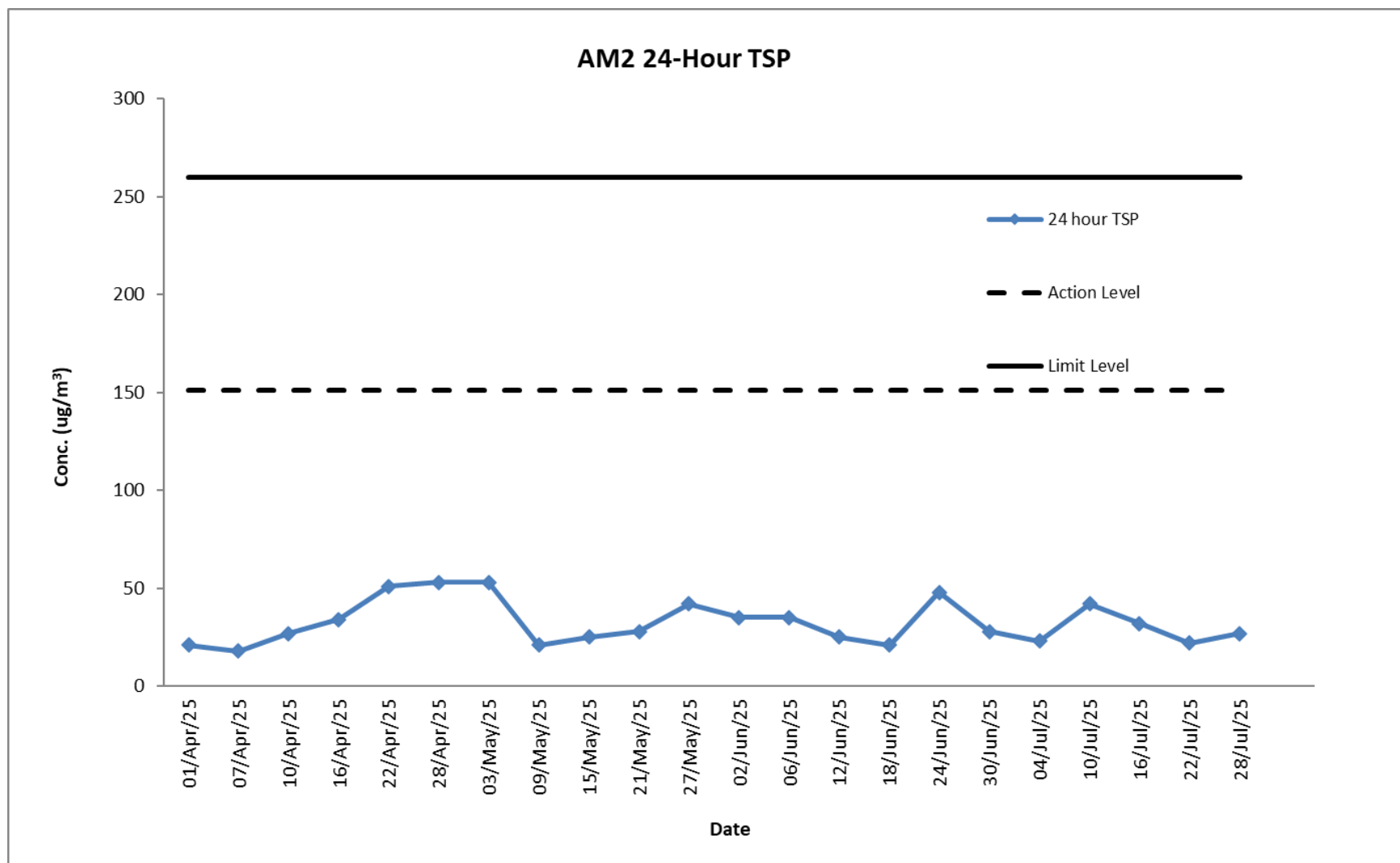
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Start		Finish		Sampling Time (hrs)	Conc. ( $\mu\text{g}/\text{m}^3$ )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time					
03-May-25	08:46	04-May-25	08:46	24	53	Cloudy	151.1	260
09-May-25	08:40	10-May-25	08:40	24	21	Cloudy	151.1	260
15-May-25	08:42	16-May-25	08:42	24	25	Cloudy	151.1	260
21-May-25	08:41	22-May-25	08:41	24	28	Fine	151.1	260
27-May-25	08:47	28-May-25	08:47	24	42	Fine	151.1	260
02-Jun-25	08:32	03-Jun-25	08:32	24	35	Cloudy	151.1	260
06-Jun-25	08:42	07-Jun-25	08:42	24	35	Fine	151.1	260
12-Jun-25	08:37	13-Jun-25	08:37	24	25	Cloudy	151.1	260
18-Jun-25	08:53	19-Jun-25	08:53	24	21	Cloudy	151.1	260
24-Jun-25	08:41	25-Jun-25	08:41	24	48	Fine	151.1	260
30-Jun-25	08:50	01-Jul-25	08:50	24	28	Cloudy	151.1	260
04-Jul-25	08:41	05-Jul-25	08:41	24	23	Fine	151.1	260
10-Jul-25	08:35	11-Jul-25	08:35	24	42	Cloudy	151.1	260
16-Jul-25	08:35	17-Jul-25	08:35	24	32	Fine	151.1	260
22-Jul-25	08:38	23-Jul-25	08:38	24	22	Cloudy	151.1	260
28-Jul-25	08:35	29-Jul-25	08:35	24	27	Cloudy	151.1	260

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





## Noise Monitoring Result at Station NM1A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
09-May-25	09:28	61.8	57.6	63
09-May-25	09:33	62.5	58.3	
09-May-25	09:38	61.2	57.0	
09-May-25	09:43	62.9	58.9	
09-May-25	09:48	61.0	57.9	
09-May-25	09:53	62.6	58.4	
15-May-25	09:30	61.5	57.6	63
15-May-25	09:35	62.8	58.3	
15-May-25	09:40	61.2	57.0	
15-May-25	09:45	61.7	57.9	
15-May-25	09:50	62.0	58.7	
15-May-25	09:55	63.9	59.6	
21-May-25	09:28	61.8	57.6	63
21-May-25	09:33	62.5	58.3	
21-May-25	09:38	62.2	58.0	
21-May-25	09:43	61.9	57.9	
21-May-25	09:48	60.0	56.7	
21-May-25	09:53	61.7	57.6	
27-May-25	09:35	61.8	57.6	64
27-May-25	09:40	62.5	58.3	
27-May-25	09:45	63.2	59.0	
27-May-25	09:50	62.9	58.9	
27-May-25	09:55	63.0	59.7	
27-May-25	10:00	62.7	58.4	
02-Jun-25	09:22	60.8	56.6	63
02-Jun-25	09:27	61.5	57.3	
02-Jun-25	09:32	62.2	58.0	
02-Jun-25	09:37	61.7	57.9	
02-Jun-25	09:42	61.0	57.6	
02-Jun-25	09:47	62.9	58.7	
12-Jun-25	09:25	61.5	57.6	63
12-Jun-25	09:30	62.2	58.3	
12-Jun-25	09:35	60.8	56.0	
12-Jun-25	09:40	61.9	57.9	
12-Jun-25	09:45	62.0	58.7	
12-Jun-25	09:50	62.7	58.6	
18-Jun-25	09:40	62.8	57.6	63
18-Jun-25	09:45	63.5	58.3	
18-Jun-25	09:50	60.2	56.0	
18-Jun-25	09:55	60.9	56.9	
18-Jun-25	10:00	62.0	58.9	
18-Jun-25	10:05	61.7	57.7	
24-Jun-25	09:28	61.8	57.6	63
24-Jun-25	09:33	62.5	58.3	
24-Jun-25	09:38	63.2	59.0	
24-Jun-25	09:43	62.9	58.9	
24-Jun-25	09:48	61.0	57.7	
24-Jun-25	09:53	62.7	58.6	
30-Jun-25	09:37	61.7	57.8	63
30-Jun-25	09:42	61.4	57.3	
30-Jun-25	09:47	62.2	58.0	
30-Jun-25	09:52	62.9	58.6	
30-Jun-25	09:57	63.0	59.9	
30-Jun-25	10:02	61.9	57.7	

10-Jul-25	10:50	61.8	57.6	63
10-Jul-25	10:55	62.5	58.3	
10-Jul-25	11:00	61.2	57.0	
10-Jul-25	11:05	61.9	57.9	
10-Jul-25	11:10	63.0	59.7	
10-Jul-25	11:15	62.7	58.6	
16-Jul-25	09:23	62.8	58.6	64
16-Jul-25	09:28	63.5	59.3	
16-Jul-25	09:33	61.2	57.0	
16-Jul-25	09:38	63.7	59.9	
16-Jul-25	09:43	62.0	58.7	
16-Jul-25	09:48	62.9	58.6	
22-Jul-25	09:22	62.5	58.3	64
22-Jul-25	09:27	63.2	59.0	
22-Jul-25	09:32	61.7	57.6	
22-Jul-25	09:37	63.0	59.9	
22-Jul-25	09:42	62.9	58.7	
22-Jul-25	09:47	63.6	59.8	
28-Jul-25	09:24	62.8	58.6	63
28-Jul-25	09:29	61.5	57.3	
28-Jul-25	09:34	61.2	57.0	
28-Jul-25	09:39	62.9	58.9	
28-Jul-25	09:44	63.0	59.7	
28-Jul-25	09:49	62.7	58.6	

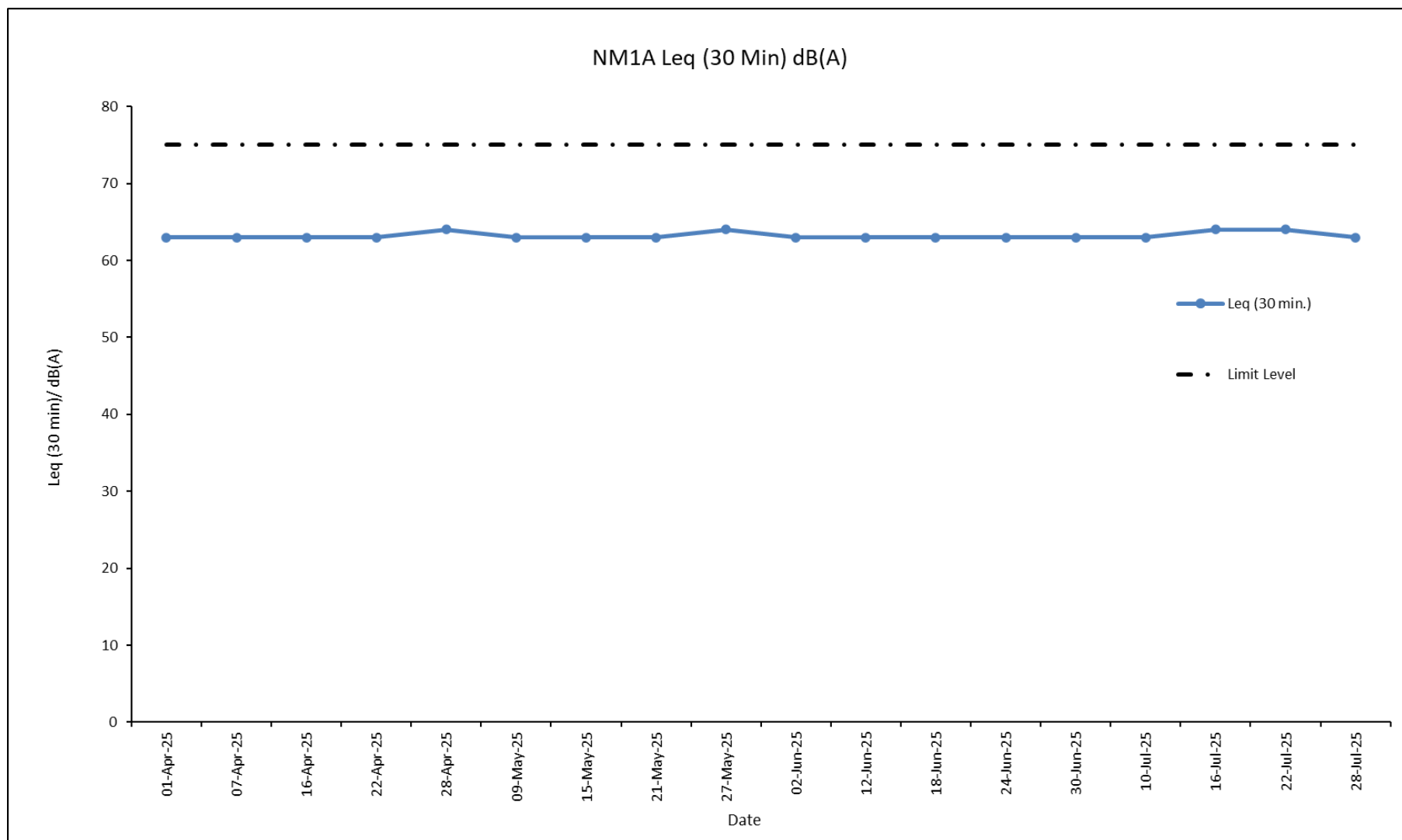
**Remarks:**

+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



## F. Waste Flow table

**Table F-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 Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
<b>2016</b>													
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
<b>2017</b>													
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 F-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 Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
<b>2018</b>													
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
<b>2019</b>													
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 F-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 Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
<b>2020</b>													
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
<b>2021</b>													
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 F-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 Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
<b>2022</b>													
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	0.1	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
<b>2023</b>													
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 F-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 Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
<b>2024</b>													
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
<b>2025</b>													
Jan	318.6	0.0	0.0	0.0	312.8	5.8	0.0	0.0	0.1	0.0	0.0	0.0	714.3
Feb	1147.3	0.0	0.0	0.0	1147.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	600.1
Mar	1513.2	0.0	0.0	0.0	1513.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	592.8
Apr	335.3	0.0	0.0	0.0	335.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	564.2
May	390.8	0.0	0.0	0.0	390.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	694.0
Jun	175.5	0.0	0.0	0.0	175.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	676.3
Jul	186.6	0.0	0.0	0.0	186.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	891.3
Sub-total (2025)	4067.3	0.0	0.0	0.0	4061.5	5.8	0.0	0.0	1.1	0.0	0.0	0.0	4733.1
<b>Total</b>	<b>1019372.7</b>	<b>0.0</b>	<b>0.0</b>	<b>543635.2</b>	<b>474731.8</b>	<b>1005.7</b>	<b>2301.1</b>	<b>13716.7</b>	<b>17.9</b>	<b>10.8</b>	<b>0.0</b>	<b>14.9</b>	<b>30704.5</b>

Note:

(1) 633.05, 119.87 and 0 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter.

(2) The values in the table are rounded off to 1 decimal place.

## **G. 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 quarter are summarized in **Table G-1** below.

**Table G-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 quarter (May 25 – Jul 25)	0	0	0
From 1 March 2016 to end of the reporting quarter	62	0	0

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



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

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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 Environmental Status in the Reporting Period	3
2 Summary of EM&A Requirements and Mitigation Measures	4
2.1 Monitoring Requirements	4
2.2 Environmental Mitigation Measures	5
3 Summary of EM&A Results	6
3.1 Monitoring Data	6
3.2 Monitoring Exceedances	6
3.2.1 1-hour TSP Monitoring	7
3.2.2 24-hour TSP Monitoring	7
3.2.3 Construction Noise Monitoring	7
3.2.4 Landscape and Visual Monitoring	7
4 Waste Management	8
4.2 Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)	8
5 Environmental Non-conformance	9
6 Comments, Recommendations and Conclusion	10
6.1 Comments	10
6.2 Recommendations	10
6.3 Conclusion	10
Figure 1 Site Layout Plan and Monitoring Stations	11
Appendices	12
A. Project Organisation	13
B. Construction Programme	14

C.	Environmental Mitigation Measures – Implementation Status	15
D.	Meteorological Data Extracted from Hong Kong Observatory	16
E.	Graphical Plots of the Monitoring Results	17
F.	Waste Flow table	18
G.	Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions	19

# Executive summary

This Quarterly EM&A Report presents the monitoring works conducted at Zones 2A, 2B & 2C from 01 May 2025 to 31 July 2025. 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 impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

## **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 quarter.

## **Implementation of Mitigation Measures**

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

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

## **Record of Complaints**

No environmental complaints were received during the reporting quarter.

## **Record of Notifications of Summons and Successful Prosecutions**

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

# 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 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/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 falls under this same category.

The purpose of the development in Zones 2A, 2B & 2C is to reserve for Integrated Basement (IB) and Underground Road (UR). The Zone 2A (Contract No.: GW/2020/05/073) construction activities involve the foundation, excavation and lateral support (ELS) works, road works, drainage diversion works, and temporary car parking. The Zone 2B & 2C (Contract No.: CC/2020/2B/088) construction activities involve the piling works. The Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) construction activities involve the excavation and lateral support works.

The Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works Zones 2A, 2B & 2C from 01 May 2025 to 31 July 2025. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

## 1.2 Project Organisation

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

### 1.3 Environmental Status in the Reporting Period

During the reporting period, construction works at Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095) undertaken include:

- Bored Pile, Pipe Piling and King Post Works
- Drainage Diversion Works
- Jet Grouting Works

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.



## 2 Summary of EM&A Requirements and Mitigation Measures

### 2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit Levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

**Table 2.1: Summary of Impact EM&A Requirements**

Parameters	Descriptions	Locations	Frequencies	Action Level	Limit Level
Air Quality	24-Hour TSP	AM3 - The Victoria Towers Tower 1	At least once every 6 days	152.4 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>
	1-Hour TSP	AM3 - The Victoria Towers Tower 1	At least 3 times every 6 days	280.4 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>
	24-Hour TSP	AM4 - Canton Road Government Primary School	At least once every 6 days	152.6 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>
	1-Hour TSP	AM4 - Canton Road Government Primary School	At least 3 times every 6 days	278.5 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>
	24-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least once every 6 days	141.1 µg/m <sup>3</sup>	260 µg/m <sup>3</sup>
	1-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days	275.4 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>
Noise	Leq, 30 minutes	NM2 - The Arch, Sun Tower	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
	Leq, 30 minutes	NM3 - The Victoria Towers Tower 1	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
	Leq, 30 minutes	NM4 - Canton Road Government Primary School	Weekly	When one documented complaint is received from any one of the sensitive receivers	70/65 dB(A) <sup>^</sup>
	Leq, 30 minutes	NM5 -Development next to Austin Station	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
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	N/A	N/A

Note:

<sup>^</sup>70 dB(A) for schools and 65 dB(A) during school examination periods.

The EM&A programme for the Project require 5 air monitoring stations and 5 noise 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, AM2 for air monitoring, and NM1 for noise monitoring. In the context of the construction activities in Zone 2A and Zone 2B & 2C, all other monitoring locations including AM3, AM4, and AM5 for air monitoring; and NM2, NM3, NM4 and NM5 for noise monitoring, have been taken into account. However, access to all these originally designated monitoring stations was declined. Therefore, alternative monitoring stations was identified and proposed.

With regard to air monitoring, alternative monitoring locations (AM3A, AM4A, and AM5A) were identified at ground floor at the Northeast corner of West Kowloon Station's station box, at ground floor at the Southeast corner of West Kowloon Station's station box, and at ground floor at the North of West Kowloon Station's station box respectively. AM3A, AM4A, and AM5A were set in same direction to the area of major construction site activities in Zone 2A. These alternative air monitoring locations (AM3A, AM4A, and AM5A) were approved by EPD on 29 September 2020.

For noise monitoring, alternative noise monitoring location (NM2A) was identified at the ground floor in front of The Arch - Sun Tower, which is at the same location as stated in the EM&A Manual for consistency. This alternative noise monitoring location was approved by EPD on 29 September 2020. Other alternative noise monitoring locations (NM3A, NM4A, and NM5A) were identified at the ground floor in front of the Xiqu Centre, at the ground floor next to Tsim Sha Tsui Fire Station, and at the Pedestrian road (ground floor) outside West Kowloon Station respectively. NM3A, NM4A and NM5A were 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. These alternative noise monitoring locations (NM3A, NM4A, and NM5A) were approved by EPD on 29 September 2020.

Therefore, 3 air quality monitoring stations and 4 noise impact monitoring station were confirmed for the impact monitoring for construction activities in Zone 2A and Zone 2B & 2C.

## 2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.

## 3 Summary of EM&A Results

### 3.1 Monitoring Data

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results is presented in **Table 3.1**.

**Table 3.1: Summary of Monitoring Data**

Parameter	Monitoring Location	Minimum	Maximum	Average
<b>Air Quality</b>				
1 hour TSP	AM3A	32	60	43
1 hour TSP	AM4A	32	58	44
1 hour TSP	AM5A	31	58	43
24 hour TSP	AM3A	31	54	41
24 hour TSP	AM4A	33	52	42
24 hour TSP	AM5A	31	55	41
<b>Construction Noise</b>				
Leq(30min)	NM2A	63	63	63
Leq(30min)	NM3A	60	61	61
Leq(30min)	NM4A	58	59	58
Leq(30min)	NM5A	63	64	63

### 3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in **Table 3.2**.

**Table 3.2: Summary of Exceedances**

Monitoring Station	Parameter	No. of Exceedance		Action Taken
		Action Level	Limit Level	
Air Quality				
AM3A	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
AM4A	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
AM5A	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
Construction Noise				
NM2A	Leq(30min)	0	0	N/A
NM3A	Leq(30min)	0	0	N/A
NM4A	Leq(30min)	0	0	N/A
NM5A	Leq(30min)	0	0	N/A

### **3.2.1 1-hour TSP Monitoring**

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 1-hour TSP for Air Quality was recorded.

### **3.2.2 24-hour TSP Monitoring**

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 24-hour TSP for Air Quality was recorded.

### **3.2.3 Construction Noise Monitoring**

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of Noise was recorded in the reporting quarter.

### **3.2.4 Landscape and Visual Monitoring**

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

## 4 Waste Management

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

As advised by the Zones 2A, 2B & 2C Contractor, 19860.55 tonne of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 and Tuen Mun Area 38 in the reporting quarter, while 142.25 tonne of general refuse were disposed of at SENT landfill. 14.15 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 quarter. 0.00 tonne of inert C&D material were reused on site. 0.0 tonne of inert C&D material was imported for reuse at site and 6801.53 tonne of inert C&D material were reused in other projects. 0.0 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting quarter.

The actual amounts of different types of waste generated by the activities of construction works at Zones 2A, 2B & 2C in the reporting quarter are shown in **Appendix F**.

## 5 Environmental Non-conformance

There was no breach of Action or Limit Levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in the reporting quarter.

No complaint was received in the reporting quarter. No notifications of summons and successful prosecutions were received in the reporting quarter.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.



## 6 Comments, Recommendations and Conclusion

### 6.1 Comments

Based on the observations made during site audits and landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and construction noise were recorded in the reporting quarter.

### 6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

### 6.3 Conclusion

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 Project is underway. In particular, the 1-hour TSP, 24-hour TSP and noise level (as Leq, 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 Noise in this reporting quarter.

No complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

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

## **Figure 1     Site Layout Plan and Monitoring Stations**

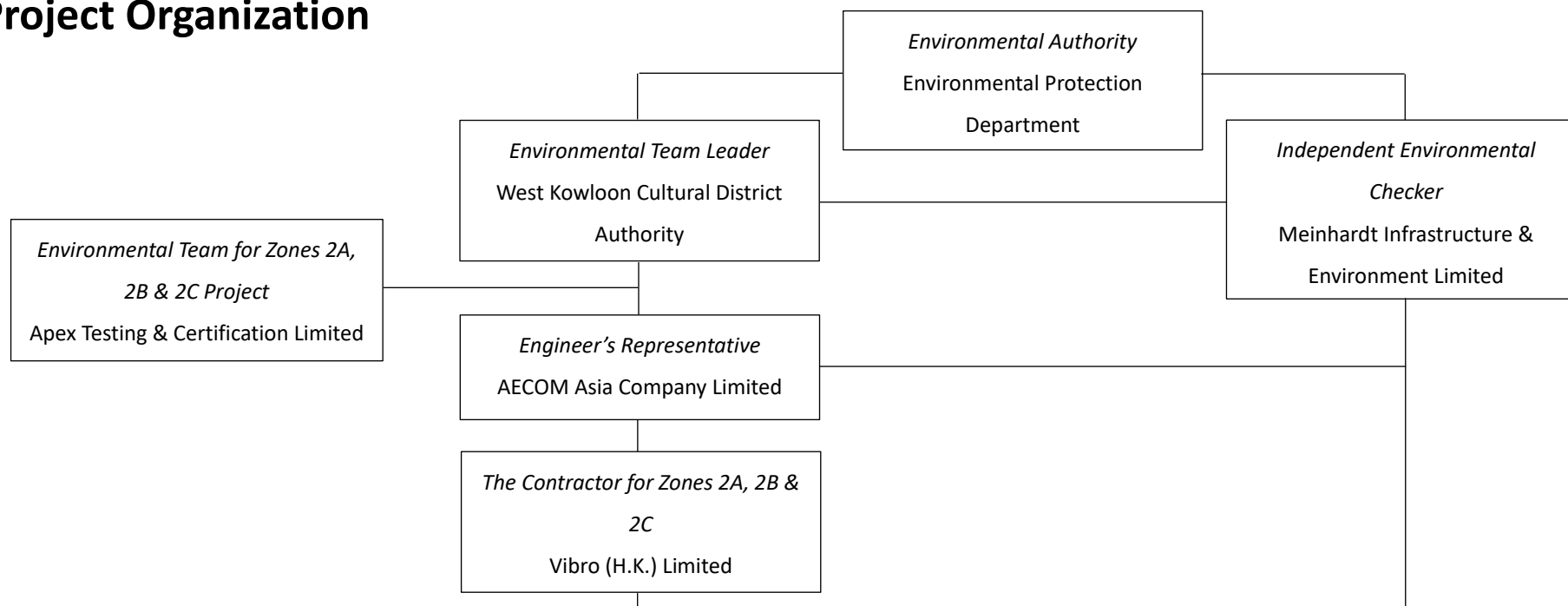


# Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures – Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. 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	WKCD Authority Representative & Project ETL	Mr. Max LEE	2200 0782	max.sl.lee@wkcd.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
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. 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	2025				
											Jul	Aug	Sep	Oct
											13	14	15	16
ELS Works (Stages 1 & 2) for IBUR in Zones 2ABC 21 July 2025										<div><div></div><div><div></div><div>(Opt Works Item No.3) Site Maintenance for Zone 2A, 2B, 2C and NSO after Practical Co</div><div>(Opt Works Item No.4) Road reinstatement works at Austin Road West within 870 Days</div></div></div>				
Contract Dates														
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 Pra	0	05-Jul-24		0	22-Jul-25*		0%	-382					
WKCDA-#AD-03040	(Opt Works Item No.4) Road reinstatement works at Austin Road West within 870	0	05-Jul-24		0	22-Jul-25*		0%	-382					
BD Statutory Submissions														
Consent BA8 and BA10 Submissions														
Zone 2A-2-1														
BD Submission and Consent for Excavation and ELS Installation														
WKCDA-BD-STA-01180	BA8 for excavation and ELS installation at Zone 2A-2-1(Stage 2)(Consent 10)	28	03-May-25	30-May-25	37	25-Jun-25 A	31-Jul-25	85%	-60					
WKCDA-BD-STA-01190	BA10 for excavation and ELS installation at Zone 2A-2-1(Stage 2)(Consent 10)	7	31-May-25	06-Jun-25	7	01-Aug-25	07-Aug-25	0%	-60					
Cost Centre A - Preliminaries, General Requirements														
General Submission and Procurement														
Submission and Approval														
Contingency Management Plan														
WKCDA-A-SUB-01140	Review and approve submission of Contingency Management Plan	28	02-Aug-24	29-Aug-24	354	17-Aug-24 A	05-Aug-25	92%	-57					
Authority Department Submission														
WKCDA-A-SUB-01440	Application to EPD and obtain permit for marine dumping	90	02-Nov-24	30-Jan-25	312	23-Sep-24 A	31-Jul-25	88%	-52					
Joint Written Guarantee for the water-tightness of ELS for Zones 2A-1 and 2A-2-1														
WKCDA-A-SUB-01480	Review and approve submission of Joint Written Guarantee for the water-tightne:	28	09-Apr-25	06-May-25	47	17-Jun-25 A	02-Aug-25	50%	-54					
Procurement and Delivery of Materials														
King Post Materials														
WKCDA-A-PRO-2100	Delivery of King Post Material for Zone 2B & 2A-1 (ELS and Steel Platform)	14	16-Dec-24	29-Dec-24	146	12-Mar-25 A	04-Aug-25	65%	23					
Steel Platform Material														
WKCDA-A-PRO-2060	Delivery of Steel Platform material for Zone 2A-2-1	30	16-Apr-25	15-May-25	67	05-Jun-25 A	10-Aug-25	42%	-16					
WKCDA-A-PRO-2140	Delivery of Steel Platform material for Zone 2B & 2A-1	30	28-Feb-25	29-Mar-25	30	22-Jul-25	20-Aug-25	0%	-7					
Strut and Wailing														
WKCDA-A-PRO-2300	Delivery of Steel Strut and Wailing for Zone 2A-2-1	80	19-Mar-25	06-Jun-25	112	05-Jun-25 A	24-Sep-25	17%	-66					
WKCDA-A-PRO-2340	Delivery of Strut and Wailing for Zone 2B & 2A-1	70	29-Apr-25	07-Jul-25	70	22-Jul-25	29-Sep-25	0%	-22					
Coordination														
Interface Contractors and Other Project Contractors														
WKCDA-A-CIC-01040	Coordination with Contract no.CC/2017/3A/030 L1 Works of the Lyric Theatre Co	180	30-Aug-24	25-Feb-25	396	05-Jul-24 A	04-Aug-25	57%	-4					
WKCDA-A-CIC-01060	Coordination with MTRCL, other Project Contractors and Future PIW Works Cont	300	30-Aug-24	25-Jun-25	407	05-Jul-24 A	15-Aug-25	57%	14					
WKCDA-A-CIC-01050	Coordination with Contract no.CC/2017/3A/031 L2 Contract for Lyric Theatre Con	180	30-Aug-24	25-Feb-25	400	05-Jul-24 A	08-Aug-25	57%	19					
Other Interface Contracts														
WKCDA-A-CIC-01070	Coordination with Artist Square Tower Contractor	0			356	30-Aug-24 A	20-Aug-25	60%	111					
WKCDA-A-CIC-01080	Coordination with Topside Developer and Associated Contractor	0			356	30-Aug-24 A	20-Aug-25	57%	111					
WKCDA-A-CIC-01090	Coordination with Xiqu Centre Operator	0			356	30-Aug-24 A	20-Aug-25	57%	100					
WKCDA-A-CIC-01100	Coordination with Southern Landing Facility Contractor	0			356	30-Aug-24 A	20-Aug-25	57%	111					
Construction														
Barging Point Facilities														
WKCDA-A-MOB-01140	Design submission and approval for Barging Point	21	30-Nov-24	24-Dec-24	60	09-May-25 A	18-Jul-25 A	100%						
WKCDA-A-MOB-01160	Construction of concrete sinker (2 nos.) on site with falseworks erection, rebar fixi	26	27-Dec-24	27-Jan-25	62	19-May-25 A	30-Jul-25	80%	54					
WKCDA-A-MOB-01180	Preparation for lifting works and installation of sinker to the designated seabed p	25	28-Jan-25	28-Feb-25	28	17-Jul-25 A	18-Aug-25	2%	38					
WKCDA-A-MOB-01200	Excavation and construction of bollard (2 nos.) on land	35	01-Mar-25	11-Apr-25	38	17-Jul-25 A	29-Aug-25	2%	28					
WKCDA-A-MOB-01220	Inspection and preparation for operation	4	12-Apr-25	16-Apr-25	4	30-Aug-25	03-Sep-25	0%	28					
Cost Centre B & I - General, Hoarding and Monitoring Works														
General Submission														
Submission and Approval														
As-built record of drainage works to CA and DSD														
WKCDA-B-SUB-01160	Prepare and submit as-built record of drainage works to CA and DSD	28	20-Mar-25	16-Apr-25	32	14-Jul-25 A	14-Aug-25	12%	110					
WKCDA-B-SUB-01180	Review and approve submission of as-built record of drainage works to CA and D	28	17-Apr-25	14-May-25	28	15-Aug-25	11-Sep-25	0%	110					
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	08-Nov-24	05-Dec-24	24	22-Jul-25	18-Aug-25	0%	-35					
WKCDA-B-MOB-01100	Site clearance, break up and removal of existing road pavement and light posts,	60	06-Dec-24	20-Feb-25	60	19-Aug-25	30-Oct-25	0%	-35					
Coordination of External Works and Utilities Services														
2ABC.R0.20250721 22-Jul-25_18:42 Page 1 of 6		◆ Milestone		— Planned Bar		CC/2023/2B/095 Three Month Rolling Programme as of 21-Jul-25				Date	Revision	Checked	Approved	
		◆ Critical MS		— Actual Work Completed						21-Jul-25	CMWP R0	RR		
		— Critical Bar		◆ R0 MS										

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

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2025						
											Jul	Aug	Sep	Oct		
											13	14	15	16		
WKCDA-B-MOB-01120 WKCDA-B-MOB-01160 WKCDA-B-MOB-01200 WKCDA-B-MOB-1420 WKCDA-B-MOB-1440 WKCDA-B-MOB-1460 WKCDA-B-MOB-1480 <b>Diversi on of Existing Drainage at Zone 2B Austin Road West</b> WKCDA-B-MOB-01420 <b>WSD Pipe Diversi on and Light Post (HyD) near Zone 2A</b> WKCDA-B-MOB-01180 WKCDA-B-MOB-01220 <b>Hoarding and Gantry</b> WKCDA-B-MOB-01300 WKCDA-B-MOB-01310 WKCDA-B-MOB-01315 WKCDA-B-MOB-01320	Coordination with relevant authorities for drainage diversion	60	22-Aug-24	20-Oct-24	351	05-Jul-24 A	21-Jun-25 A	100%								
	Coordination with highways department(HyD)	60	08-Nov-24	06-Jan-25	387	05-Jul-24 A	26-Jul-25	75%	300							
	Coordination with WSD	75	06-Dec-24	18-Feb-25	439	05-Jul-24 A	16-Sep-25	57%	338							
	Coordination with MTRC	75	06-Dec-24	18-Feb-25	296	06-Dec-24 A	27-Sep-25	54%	327							
	Coordination with DSD	75	06-Dec-24	18-Feb-25	296	06-Dec-24 A	27-Sep-25	54%	327							
	Coordination with FSD	75	06-Dec-24	18-Feb-25	282	20-Dec-24 A	27-Sep-25	45%	327							
	Coordination with other UU authorities	75	06-Dec-24	18-Feb-25	282	20-Dec-24 A	27-Sep-25	45%	327							
	<b>Diversi on of Existing Drainage at Zone 2B Austin Road West</b>															
	Testing of drainage system, backfilling works for excavated trench	30	13-Feb-25	19-Mar-25	21	27-May-25 A	21-Jun-25 A	100%								
	<b>WSD Pipe Diversi on and Light Post (HyD) near Zone 2A</b>															
	Relocation of existing light post at Zone 2A East gantry	60	07-Jan-25	20-Mar-25	60	28-Jul-25	06-Oct-25	0%	243							
	Carry-out FW107 diversion works including T&C and inspection	46	15-May-25	08-Jul-25	46	29-Sep-25	24-Nov-25	0%	263							
	<b>Hoarding and Gantry</b>															
	Construction of footing for covered walkway along Austin Road West (From Zone	27	03-Sep-24	05-Oct-24	27	22-Jul-25	21-Aug-25	0%	297							
	Erection and installation of steel frame for covered walkway along Austin Road W	27	23-Sep-24	25-Oct-24	27	09-Aug-25	09-Sep-25	0%	297							
	Finishing works for covered walkway (including graphic, lighting and steel boards)	11	26-Oct-24	07-Nov-24	11	10-Sep-25	22-Sep-25	0%	297							
	Construction of footing for covered walkway along Austin Road West (Approx . 2C	42	05-Apr-25	29-May-25	42	08-Oct-25	26-Nov-25	0%	243							
	<b>Cost Centre C - Excavation and Lateral Support Works for Zone 2B (Stage 1)</b>															
	<b>Construction</b>															
	<b>Preliminaries, Trial Trench &amp; Fabrication Works</b>															
	<b>Trial trench before drilling work</b>															
	WKCDA-C-CON-01470	Trial trench before drilling work for king post at Zone 2B	20	28-Dec-24	21-Jan-25	59	12-Apr-25 A	27-Jun-25 A	100%							
	WKCDA-C-CON-01112	Trial trench before drilling work at zone 2B (PP-251 to PP-280) - Austin Rd	7	20-Mar-25	27-Mar-25	59	12-Apr-25 A	27-Jun-25 A	100%							
WKCDA-C-CON-10920	Trial trench before drilling work at zone 2B (PP-281 to PP-319) - Austin Rd	20	20-Mar-25	12-Apr-25	61	06-May-25 A	17-Jul-25 A	100%								
<b>Pre-Grout Curtain Works</b>																
<b>Drilling for pre-grout curtain at Zone 2B at AURW Row (PP-165 to PP-319)</b>																
WKCDA-C-CON-10100	Drilling for pre-grout curtain at Zone 2B(P_A284 to P_A295 EVEN)(P_B144 to P_	8	28-Apr-25	08-May-25	126	14-Jan-25 A	21-Jun-25 A	100%								
WKCDA-C-CON-01221	Drilling for pre-grout curtain at Zone 2B(P_A265 to P_A283 EVEN)(P_B137 to P_	11	11-Apr-25	26-Apr-25	7	16-Jun-25 A	24-Jun-25 A	100%								
<b>Pre-grout curtain works at Zone 2B at AURW Row (PP-165 to PP-319)</b>																
WKCDA-C-CON-10170	Carry-out Pre-grout curtain works at Zone 2B(P_A284 to P_A295 EVEN)(P_B144	8	13-May-25	21-May-25	143	06-Feb-25 A	30-Jul-25	36%	5							
WKCDA-C-CON-10180	Carry-out Pre-grout curtain works at Zone 2B(P_A296 to P_A309 EVEN)(P_B150	10	22-May-25	03-Jun-25	144	07-Feb-25 A	01-Aug-25	93%	13							
WKCDA-C-CON-01144	Carry-out Pre-grout curtain works at Zone 2B(P_A198 to P_A227 EVEN)(P_B101	20	11-Jan-25	06-Feb-25	86	06-Mar-25 A	22-Jun-25 A	100%								
WKCDA-C-CON-01145	Carry-out Pre-grout curtain works at Zone 2B(P_A228 to P_A249 EVEN)(P_B116	16	10-Feb-25	27-Feb-25	10	21-Jun-25 A	03-Jul-25 A	100%								
WKCDA-C-CON-01240	Carry-out Pre-grout curtain works at Zone 2B(P_A250 to P_A264 EVEN)(P_B125	11	11-Apr-25	26-Apr-25	11	04-Jul-25 A	17-Jul-25 A	100%								
WKCDA-C-CON-01241	Carry-out Pre-grout curtain works at Zone 2B(P_A265 to P_A283 EVEN)(P_B137	11	28-Apr-25	12-May-25	23	04-Jul-25 A	30-Jul-25	50%	5							
<b>Interlocking Pipe Pile Wall Works</b>																
<b>Interlocking Pipe Pile Wall Works at AURW Row (PP-164 to PP-001)</b>																
WKCDA-C-CON-01080	Installation of interlocking pipe pile wall at Zone 2B(PP-014 to PP-001)(14nos, 1 i	14	24-Jun-25	09-Jul-25	141	10-Jan-25 A	05-Jul-25 A	100%								
WKCDA-C-CON-01164	Installation of interlocking pipe pile wall at Zone 2B(PP-142 to PP-105)(38nos, 1 i	38	14-Jan-25	01-Mar-25	25	04-Jun-25 A	03-Jul-25 A	100%								
<b>Interlocking Pipe Pile Wall Works at AURW Row (PP-165 to PP-319)</b>																
WKCDA-C-CON-01176	Installation of interlocking pipe pile wall at Zone 2B(PP-195 to PP-224)(30nos, 1 i	30	21-Feb-25	27-Mar-25	78	09-Apr-25 A	16-Jul-25 A	100%								
WKCDA-C-CON-01178	Installation of interlocking pipe pile wall at Zone 2B(PP-225 to PP-246)(22nos, 1 i	22	28-Mar-25	26-Apr-25	12	17-Jul-25 A	30-Jul-25	35%	-30							
WKCDA-C-CON-01260	Installation of interlocking pipe pile wall at Zone 2B(PP-247 to PP-276)(30nos, 1 i	30	28-Apr-25	04-Jun-25	15	31-Jul-25	16-Aug-25	0%	-23							
WKCDA-C-CON-01264	Installation of interlocking pipe pile wall at Zone 2B(PP-227 to PP-289)(13nos, 1 i	13	05-Jun-25	19-Jun-25	13	18-Aug-25	01-Sep-25	0%	-23							
WKCDA-C-CON-01266	Installation of interlocking pipe pile wall at Zone 2B(PP-290 to PP-299)(10nos, 1 i	10	20-Jun-25	30-Jun-25	10	02-Sep-25	12-Sep-25	0%	-23							
WKCDA-C-CON-01274	Installation of interlocking pipe pile wall at Zone 2B(PP-300 to PP-309)(10nos, 1 i	10	02-Jul-25	12-Jul-25	10	13-Sep-25	24-Sep-25	0%	-23							
WKCDA-C-CON-01276	Installation of interlocking pipe pile wall at Zone 2B(PP-310 to PP-319)(10nos, 1 i	10	14-Jul-25	24-Jul-25	10	25-Sep-25	08-Oct-25	0%	-19							
<b>Interlocking Pipe Pile Wall Works at Middle Row (PPB-171 to PPB-001)</b>																
WKCDA-C-CON-01345	Installation of interlocking pipe pile wall at Zone 2B(PPB-142 to PPB-114)(29nos,	29	21-Jan-25	26-Feb-25	181	21-Nov-24 A	05-Jul-25 A	100%								
WKCDA-C-CON-01450	Installation of interlocking pipe pile wall at Zone 2B(PPB-028 to PPB-001)(28nos,	28	14-Jun-25	16-Jul-25	131	18-Feb-25 A	28-Jul-25	96%	-28							
<b>Post Grout Curtain Works</b>																
<b>Drilling for post-grout Curtain Works AURW Row (PP-164 to PP-001)</b>																
WKCDA-C-CON-10320	Drilling for post grout curtain works at Zone 2B(P_A055 to P_A036)(Consent 3) 2	14	02-Jun-25	17-Jun-25	95	07-Apr-25 A	01-Aug-25	50%	-32							
WKCDA-C-CON-10360	Drilling for post grout curtain works at Zone 2B(P_A167 to P_A138)(Consent 3) 3	20	14-Jan-25	08-Feb-25	60	10-Apr-25 A	26-Jun-25 A	100%								
WKCDA-C-CON-10420	Drilling for post grout curtain works at Zone 2B(P_A107 to P_A076)(Consent 3) 3	22	09-Apr-25	09-May-25	66	17-Apr-25 A	10-Jul-25 A	100%								
WKCDA-C-CON-10340	Drilling for post grout curtain works at Zone 2B(P_A137 to P_A108)(Consent 3) 3	20	03-Mar-25	25-Mar-25	75	08-May-25 A	04-Aug-25	80%	-25							
WKCDA-C-CON-10280	Drilling for post grout curtain works at Zone 2B(P_A017 to P_A001)(Consent 3) 1	12	10-Jul-25	23-Jul-25	63	15-May-25 A	28-Jul-25	85%	68							
<b>Drilling for post-grout Curtain Works AURW Row (PP-165 to PP-319)</b>																
WKCDA-C-CON-10380	Drilling for post grout curtain works at Zone 2B(P_A198 to P_A227)(Consent 3) 3	20	28-Mar-25	24-Apr-25	97	14-Apr-25 A	11-Aug-25	47%	-42							
WKCDA-C-CON-10400	Drilling for post grout curtain works at Zone 2B(P_A168 to P_A197)(Consent 3) 3	20	21-Feb-25	15-Mar-25	95	18-Apr-25 A	13-Aug-25	50%	-42							



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	2025					
											Jul	Aug	Sep	Oct	
											13	14	15	16	
WKCD A-C-CON-10240	Drilling for post grout curtain works at Zone 2B(P_A228 to P_A253)(Consent 3) 2	18	28-Apr-25	20-May-25	18	14-Aug-25	03-Sep-25	0%	-42						
WKCD A-C-CON-10440	Drilling for post grout curtain works at Zone 2B(P_A254 to P_A269)(Consent 6a)	12	05-Jun-25	18-Jun-25	12	04-Sep-25	17-Sep-25	0%	-36						
WKCD A-C-CON-10460	Drilling for post grout curtain works at Zone 2B(P_A270 to P_A283)(Consent 6a)	10	20-Jun-25	30-Jun-25	10	18-Sep-25	29-Sep-25	0%	-35						
WKCD A-C-CON-10480	Drilling for post grout curtain works at Zone 2B(P_A284 to P_A295)(Consent 6a)	8	02-Jul-25	10-Jul-25	8	30-Sep-25	10-Oct-25	0%	-35						
WKCD A-C-CON-10500	Drilling for post grout curtain works at Zone 2B(P_A296 to P_A309)(Consent 6a)	11	14-Jul-25	25-Jul-25	11	11-Oct-25	23-Oct-25	0%	-35						
Drilling for post-grout Curtain Works between Zone 3 and Zone 2B															
WKCD A-C-CON-10800	Drilling for post grout curtain works between Zone 3 and Zone 2B (G_A032 to G_A063)	21	18-Feb-25	13-Mar-25	155	22-Jan-25 A	01-Aug-25	95%	64						
WKCD A-C-CON-10780	Drilling for post grout curtain works between Zone 3 and Zone 2B(G_A001 to G_A031)	21	14-Mar-25	08-Apr-25	132	19-Feb-25 A	30-Jul-25	94%	66						
WKCD A-C-CON-10820	Drilling for post grout curtain works between Zone 3 and Zone 2B (G_A063 to G_A194)	21	21-Jan-25	17-Feb-25	134	25-Feb-25 A	07-Aug-25	79%	14						
Drilling for post-grout Curtain Works between Zone 3 and Zone 2C															
WKCD A-C-CON-10900	Drilling for post grout curtain works between Zone 3 and Zone 2B (G_A194 to G_A227)	25	27-May-25	25-Jun-25	95	22-Apr-25 A	13-Aug-25	22%	9						
Post Grout Curtain Works AURW Row (PP-164 to PP-001)															
WKCD A-C-CON-01092	Carry-out Post grout curtain works at Zone 2B(P_A055 to P_A036)(Consent 3) 2(	14	23-Jun-25	08-Jul-25	97	07-Apr-25 A	04-Aug-25	40%	62						
WKCD A-C-CON-01100	Carry-out Post grout curtain works at Zone 2B(P_A075 to P_A056)(Consent 3) 2(	14	06-Jun-25	21-Jun-25	58	11-Apr-25 A	25-Jun-25 A	100%							
WKCD A-C-CON-01082	Carry-out Post grout curtain works at Zone 2B(P_A017 to P_A001)(Consent 3) 1(	12	24-Jul-25	06-Aug-25	66	19-May-25 A	04-Aug-25	24%	62						
WKCD A-C-CON-01167	Carry-out Post grout curtain works at Zone 2B(P_A167 to P_A138)(Consent 3) 3(	20	10-Feb-25	04-Mar-25	24	08-Jul-25 A	04-Aug-25	35%	-25						
WKCD A-C-CON-01165	Carry-out Post grout curtain works at Zone 2B(P_A137 to P_A108)(Consent 3) 3(	20	26-Mar-25	22-Apr-25	20	05-Aug-25	27-Aug-25	0%	-25						
WKCD A-C-CON-01161	Carry-out Post grout curtain works at Zone 2B(P_A107 to P_A076)(Consent 3) 3(	22	10-May-25	05-Jun-25	22	28-Aug-25	22-Sep-25	0%	-25						
Post Grout Curtain Works AURW Row (PP-165 to PP-319)															
WKCD A-C-CON-01175	Carry-out Post grout curtain works at Zone 2B(P_A168 to P_A197)(Consent 3) 3(	20	17-Mar-25	09-Apr-25	49	11-Jun-25 A	06-Aug-25	40%	-38						
WKCD A-C-CON-01177	Carry-out Post grout curtain works at Zone 2B(P_A198 to P_A227)(Consent 3) 3(	20	25-Apr-25	20-May-25	20	12-Aug-25	03-Sep-25	0%	-42						
WKCD A-C-CON-01180	Carry-out Post grout curtain works at Zone 2B(P_A228 to P_A253)(Consent 3) 2(	18	21-May-25	11-Jun-25	18	04-Sep-25	24-Sep-25	0%	-42						
WKCD A-C-CON-01261	Carry-out Post grout curtain works at Zone 2B(P_A254 to P_A269)(Consent 6a)	12	19-Jun-25	02-Jul-25	12	25-Sep-25	10-Oct-25	0%	-42						
WKCD A-C-CON-01265	Carry-out Post grout curtain works at Zone 2B(P_A270 to P_A283)(Consent 6a)	10	03-Jul-25	14-Jul-25	10	11-Oct-25	22-Oct-25	0%	-42						
Post Grout Curtain Works between Zone 3 and Zone 2B															
WKCD A-C-CON-01070	Carry-out Post grout curtain works between Zone 3 and Zone 2B (G_A063 to G_A032)	21	12-Mar-25	05-Apr-25	89	16-Apr-25 A	04-Aug-25	75%	62						
WKCD A-C-CON-01050	Carry-out Post grout curtain works between Zone 3 and Zone 2B (G_A032 to G_A001)	21	07-Apr-25	06-May-25	46	12-Jun-25 A	04-Aug-25	80%	62						
WKCD A-C-CON-01010	Carry-out Post grout curtain works between Zone 3 and Zone 2B(G_A001 to G_A194)	21	07-May-25	30-May-25	30	08-Jul-25 A	11-Aug-25	40%	56						
Post Grout Curtain Works between Zone 3 and Zone 2C															
WKCD A-C-CON-01210	Carry-out Post grout curtain works between Zone 3 and Zone 2B (G_A194 to G_A227)	25	15-Jul-25	12-Aug-25	93	22-Apr-25 A	11-Aug-25	21%	56						
Jet grouting (Ground Improvement) Works AURW															
WKCD A-C-CON-01505	Jet grouting (ground treatment) works at Zone 2B (Type 6, 13.3m width, 8 cluster,	0			32	26-Jun-25 A	01-Aug-25	40%	-24						
WKCD A-C-CON-01540	Jet grouting (ground treatment) works at Zone 2B (Type 3, 6.5m width, 4 cluster,	0			32	10-Jul-25 A	15-Aug-25	5%	-40						
WKCD A-C-CON-01515	Jet grouting (ground treatment) works at Zone 2B (Type 6, 13.3m width, 8 cluster,	0			30	02-Aug-25	05-Sep-25	0%	-24						
WKCD A-C-CON-01545	Jet grouting (ground treatment) works at Zone 2B (Type 5, 9.9m width, 6 cluster,	0			30	16-Aug-25	19-Sep-25	0%	-40						
WKCD A-C-CON-01525	Jet grouting (ground treatment) works at Zone 2B (Type 6, 13.3m width, 8 cluster,	0			26	06-Sep-25	08-Oct-25	0%	-24						
WKCD A-C-CON-01550	Jet grouting (ground treatment) works at Zone 2B (Type 5, 9.9m width, 6 cluster,	0			17	20-Sep-25	11-Oct-25	0%	-40						
WKCD A-C-CON-01530	Jet grouting (ground treatment) works at Zone 2B (Type 2, 6.5m width, 4 cluster,	0			32	09-Oct-25	15-Nov-25	0%	-24						
WKCD A-C-CON-01555	Jet grouting (ground treatment) works at Zone 2B (Type 1, 4.8m width, 3 cluster,	0			30	13-Oct-25	17-Nov-25	0%	-39						
King Post Works (Preboring)															
WKCD A-C-CON-01480	Installation of king post at Zone 2B(44nos, 3days/pile/rig, 3rigs) for ELS	44	22-Jan-25	17-Mar-25	59	12-Apr-25 A	27-Jun-25 A	100%							
WKCD A-C-CON-01490	Installation of king post at Zone 2B(44nos, 3days/pile/rig, 3rigs) for ELS	44	22-Jan-25	17-Mar-25	54	05-Jun-25 A	06-Aug-25	90%	-29						
WKCD A-C-CON-01495	Installation of king post at Zone 2B(36nos, 3days/pile/rig, 3rigs) for ELS	36	18-Mar-25	03-May-25	36	07-Aug-25	17-Sep-25	0%	-21						
WKCD A-C-CON-01485	Installation of king post at Zone 2B(44nos, 3days/pile/rig, 3rigs) for ELS	44	18-Mar-25	14-May-25	44	07-Aug-25	26-Sep-25	0%	-29						
Grid Line 52-1 to GL46-1															
WKCD A-C-CON-01502	Installation of king post at Zone 2B(11nos, 3days/pile/rig, 1rigs) for ELS	0			33	15-May-25 A	24-Jun-25 A	100%							
WKCD A-C-CON-01504	Installation of king post at Zone 2B(12nos, 3days/pile/rig, 1rigs) for ELS	0			27	25-Jun-25 A	25-Jul-25	92%	-2						
Grid Line 40-1 to GL36															
WKCD A-C-CON-01508	Installation of king post at Zone 2B(10nos, 3days/pile/rig, 1rigs) for ELS	0			45	05-Jun-25 A	26-Jul-25	92%	-33						
King Post Works (Driven)															
Grid Line 60 to GL52-1															
WKCD A-C-CON-10925	Installation of king post at Zone 2B(14nos, 3days/pile/rig, 1rigs) for ELS	0			18	05-Jun-25 A	26-Jun-25 A	100%							
WKCD A-C-CON-10930	Installation of king post at Zone 2B(14nos, 3days/pile/rig, 1rigs) for ELS	0			28	26-Jun-25 A	28-Jul-25	90%	-33						
WKCD A-C-CON-01514	Installation of king post at Zone 2B(11nos, 3days/pile/rig, 1rigs) for ELS	0			29	29-Jul-25	30-Aug-25	0%	-33						
WKCD A-C-CON-10935	Installation of king post at Zone 2B(9nos, 3days/pile/rig, 1rigs) for ELS	0			27	01-Sep-25	02-Oct-25	0%	-33						
Grid Line 46-1 to GL40-1															
WKCD A-C-CON-10940	Installation of king post at Zone 2B(12nos, 3days/pile/rig, 1rigs) for ELS	0			27	21-May-25 A	23-Jun-25 A	100%							
WKCD A-C-CON-10945	Installation of king post at Zone 2B(10nos, 3days/pile/rig, 1rigs) for ELS	0			35	24-Jun-25 A	02-Aug-25	70%	-9						
WKCD A-C-CON-01510	Installation of king post at Zone 2B(10nos, 3days/pile/rig, 1rigs) for ELS	0			30	28-Jul-25	30-Aug-25	0%	-33						
WKCD A-C-CON-10950	Installation of king post at Zone 2B(9nos, 3days/pile/rig, 1rigs) for ELS	0			27	01-Sep-25	02-Oct-25	0%	-33						
Pumping Test															
2ABC.R0.20250721 22-Jul-25_18:42 Page 3 of 6											Date 21-Jul-25		Revision CMWP R0	Checked RR	Approved
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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	2025									
													Jul 13	Aug 14	Sep 15	Oct 16					
WKCDA-C-CON-01500		Installation of pump wells(OW,DW&RW)(121nos, 3days/no/rig, 8rigs) at Zone 2B		46	25-Jun-25	16-Aug-25	46	15-Oct-25	08-Dec-25	0%	-42										
Cost Centre D - Excavation and Lateral Support Works for Zone 2C (Stage 1)																					
Construction																					
Pre-Grout Curtain Works																					
Pre-grout curtain works at Zone 2C																					
Pre-grout curtain works at Zone 2C Part 1																					
WKCDA-D-CON-01061		Carry-out Pre-grout curtain works at Zone 2C(A_A030 to A_A001EVEN)(A_B001		21	14-May-25	07-Jun-25	120	07-Mar-25 A	01-Aug-25	90%	310										
Pre-grout curtain works at Zone 2C Part 2																					
WKCDA-D-CON-01067		Carry-out Pre-grout curtain works at Zone 2C(A_A308 to A_A350 EVEN)(A_B155		32	25-Feb-25	02-Apr-25	110	13-Mar-25 A	26-Jul-25	90%	292										
WKCDA-D-CON-01068		Carry-out Pre-grout curtain works at Zone 2C(A_A352 to A_A396 EVEN)(A_B180		31	02-Apr-25	14-May-25	111	13-Mar-25 A	28-Jul-25	90%	336										
Interlocking Pipe Pile Wall Works																					
Interlocking Pipe Pile Wall Works Part 1																					
WKCDA-D-CON-01140		Installation of interlocking pipe pile wall at Zone 2C(PPA-121 to PPA-076)(46nos,		46	13-May-25	05-Jul-25	42	21-May-25 A	10-Jul-25 A	100%											
WKCDA-D-CON-01080		Installation of interlocking pipe pile wall at Zone 2C(PPA-075 to PPA-030)(46nos,		46	07-Jul-25	28-Aug-25	26	11-Jul-25 A	09-Aug-25	13%	303										
WKCDA-D-CON-01120		Installation of interlocking pipe pile wall at Zone 2C(PPA-029 to PPA-001)(29nos,		29	29-Aug-25	02-Oct-25	29	11-Aug-25	12-Sep-25	0%	303										
Interlocking Pipe Pile Wall Works Part 2																					
WKCDA-D-CON-01240		Installation of interlocking pipe pile wall at Zone 2C(PPA-260 to PPA-305)(46nos,		46	07-Apr-25	05-Jun-25	94	11-Mar-25 A	07-Jul-25 A	100%											
WKCDA-D-CON-01260		Installation of interlocking pipe pile wall at Zone 2C(PPA-306 to PPA-351)(46nos,		46	06-Jun-25	29-Jul-25	49	07-Jul-25 A	01-Sep-25	13%	261										
WKCDA-D-CON-01280		Installation of interlocking pipe pile wall at Zone 2C(PPA-352 to PPA-397)(46nos,		46	30-Jul-25	20-Sep-25	23	02-Sep-25	27-Sep-25	0%	306										
Post Grout Curtain Works																					
Drilling for post-grout curtain works Part 1																					
WKCDA-D-CON-1420		Drilling for post grout curtain works at Zone 2C(A_A157 to A_A118)(Consent 6b)·		27	13-May-25	13-Jun-25	77	26-Apr-25 A	28-Jul-25	85%	287										
WKCDA-D-CON-1400		Drilling for post grout curtain works at Zone 2C(A_A117 to A_A078)(Consent 6b)·		27	07-Jul-25	06-Aug-25	27	29-Jul-25	28-Aug-25	0%	287										
WKCDA-D-CON-1380		Drilling for post grout curtain works at Zone 2C(A_A077 to A_A038)(Consent 6b)·		27	29-Aug-25	29-Sep-25	27	29-Aug-25	29-Sep-25	0%	287										
WKCDA-D-CON-1360		Drilling for post grout curtain works at Zone 2C(A_A037 to A_A001)(Consent 6b):		25	03-Oct-25	03-Nov-25	25	30-Sep-25	31-Oct-25	0%	289										
Drilling for post-grout curtain works Part 2																					
WKCDA-D-CON-1480		Drilling for post grout curtain works at Zone 2C(A_A248 to A_A297)(Consent 6b):		34	06-Jun-25	15-Jul-25	57	18-Jun-25 A	22-Aug-25	28%	269										
WKCDA-D-CON-1500		Drilling for post grout curtain works at Zone 2C(A_A298 to A_A347)(Consent 6b):		34	30-Jul-25	06-Sep-25	34	02-Sep-25	13-Oct-25	0%	261										
WKCDA-D-CON-1340		Drilling for post grout curtain works at Zone 2C(A_A348 to A_A397)(Consent 6b):		34	22-Sep-25	03-Nov-25	34	14-Oct-25	22-Nov-25	0%	295										
Post Grout Curtain Works Part 1																					
WKCDA-D-CON-01294		Carry-out post grout curtain works at Zone 2C(A_A197 to A_A158)(Consent 6b) 4		27	15-Apr-25	21-May-25	55	16-Apr-25 A	26-Jun-25 A	100%											
WKCDA-D-CON-01293		Carry-out post grout curtain works at Zone 2C(A_A157 to A_A118)(Consent 6b) 4		27	14-Jun-25	15-Jul-25	93	26-Apr-25 A	15-Aug-25	20%	298										
WKCDA-D-CON-01292		Carry-out post grout curtain works at Zone 2C(A_A117 to A_A078)(Consent 6b) 4		27	07-Aug-25	06-Sep-25	27	29-Aug-25	29-Sep-25	0%	287										
WKCDA-D-CON-01291		Carry-out post grout curtain works at Zone 2C(A_A077 to A_A038)(Consent 6b) 4		27	30-Sep-25	03-Nov-25	27	30-Sep-25	03-Nov-25	0%	287										
Post Grout Curtain Works Part 2																					
WKCDA-D-CON-01295		Carry-out post grout curtain works at Zone 2C(A_A198 to A_A247)(Consent 6b) 5		34	22-May-25	30-Jun-25	89	16-Apr-25 A	04-Aug-25	80%	285										
WKCDA-D-CON-01296		Carry-out post grout curtain works at Zone 2C(A_A248 to A_A297)(Consent 6b) 5		34	16-Jul-25	23-Aug-25	34	23-Aug-25	02-Oct-25	0%	269										
WKCDA-D-CON-01297		Carry-out post grout curtain works at Zone 2C(A_A298 to A_A347)(Consent 6b) 5		34	08-Sep-25	18-Oct-25	34	14-Oct-25	22-Nov-25	0%	261										
Pumping Test																					
WKCDA-D-CON-01320		Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 3rig) at Zone 2C 1		26	29-Jun-25	29-Jul-25	26	02-Aug-25	01-Sep-25	0%	285										
WKCDA-D-CON-01321		Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 3rig) at Zone 2C 2		26	30-Jul-25	28-Aug-25	26	02-Sep-25	02-Oct-25	0%	285										
WKCDA-D-CON-01030		Installation of pump wells(OW,DW&RW)(17nos, 3days/no/rig, 3rig) at Zone 2C 3		26	29-Aug-25	27-Sep-25	26	03-Oct-25	04-Nov-25	0%	285										
Cost Centre E - Excavation and Lateral Support Works for Zone 2B (Stage 2)																					
Submissions and Approval																					
Design Submission and Statutory Submission																					
ELS design at zone 2B & zone 2A-1 (stage 2)																					
WKCDA-C-SUB-01240		Review and approve submission of ELS design at zone 2B & zone 2A-1 (stage 2		60	01-Oct-24	29-Nov-24	76	11-May-25 A	25-Jul-25	90%	-12										
Method statement for excavation and lateral support installation at Zone 2B (Stage 2)																					
WKCDA-E-SUB-00990		Prepare and submit method statement for 1.5m excavation at Zone 2B and 2A-		0			24	20-Jun-25 A	14-Jul-25 A	100%											
WKCDA-E-SUB-01000		Prepare and submit method statement for excavation and lateral support installa		28	25-Jun-25	22-Jul-25	28	22-Jul-25	18-Aug-25	0%	-9										
WKCDA-E-SUB-01020		Review and approve submission of method statement for excavation and lateral		60	23-Jul-25	20-Sep-25	60	19-Aug-25	17-Oct-25	0%	-9										
Construction																					
Excavation, Temporary Shoring and Struts																					
Temporary Shoring																					
WKCDA-E-CON-01000		Carry-out ground treatment works at Zone 2B		60	22-May-25	31-Jul-25	97	26-Jun-25 A	18-Oct-25	5%	-66										
WKCDA-E-CON-01020		Installation of king post at Zone 2B(90nos, 3days/pile/rig, 6rigs) for Steel Platform		45	04-Jan-25	28-Feb-25	47	05-Jul-25 A	28-Aug-25	17%	-74										
WKCDA-E-CON-01021		Installation of king post at Zone 2B(128nos, 3days/pile/rig, 6rigs) for Steel Platfor		64	01-Mar-25	21-May-25	60	18-Aug-25	28-Oct-25	0%	-74										
Cost Centre F - Excavation and Lateral Support Works for Zone 2A-1 (Stage 2)																					
Submissions and Approval																					
Design Submission and Statutory Submission																					
2ABC.R0.20250721		◆ Milestone		◆ Planned Bar		CC/2023/2B/095 Three Month Rolling Programme as of 21-Jul-25											Date	Revision		Checked	Approved
22-Jul-25_18:42		◆ Critical MS		◆ Actual Work Completed													21-Jul-25	CMWP R0		RR	
Page 4 of 6		◆ Critical Bar		◆ R0 MS																	



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

Activity ID	Activity Name	CMWP R0 Dur	CMWP R0 Start	CMWP R0 Finish	Dur	Forecast /Actual Start	Forecast /Actual Finish	%	Total Float	2025					
											Jul	Aug	Sep	Oct	
											13	14	15	16	
<b>ELS design at Zone 2A-1 (Stage 2)</b>															
WKCD A-F-SUB-01080	Review and approve submission of ELS design at zone 2B & zone 2A-1 (stage 2	60	29-Nov-24	27-Jan-25	83	11-May-25 A	01-Aug-25	75%	28						
<b>King post at Zone 2A-1</b>															
WKCD A-F-SUB-01140	Submit BA14 and acknowledgment from BD for king post at Zone 2A-1	28	27-Jun-25	24-Jul-25	28	03-Oct-25	30-Oct-25	0%	-34						
<b>Steel Platform Design at Zone 2B &amp; Zone 2A-1</b>															
WKCD A-F-SUB-1300	Prepare and Submit Steel Platform Design at Zone 2B & Zone 2A-1 (Stage 2, Tc	57	01-Mar-25	26-Apr-25	80	05-May-25 A	23-Jul-25	95%	-21						
WKCD A-F-SUB-1320	Review and Approve Design Submission of Steel Platform Design at Zone 2B & i	29	27-Apr-25	25-May-25	29	24-Jul-25	21-Aug-25	0%	-21						
<b>Method Statement for Steel Platform at Zone 2B &amp; Zone 2A-1</b>															
WKCD A-F-SUB-1340	Prepare and Submit Method Statement for Steel Platform at Zone 2B & Zone 2/	14	26-May-25	08-Jun-25	9	02-Jul-25 A	11-Jul-25 A	100%							
WKCD A-F-SUB-1360	Review and Approve Submission of Method Statement for Steel Platform at Zon	29	09-Jun-25	07-Jul-25	32	14-Jul-25 A	14-Aug-25	10%	13						
<b>Construction</b>															
<b>King Post</b>															
WKCD A-F-CON-01010	Installation of king post at Zone 2A-1(31nos, 3days/pile/rig, 3rigs) For ELS	31	17-Jan-25	25-Feb-25	64	12-Apr-25 A	03-Jul-25 A	100%							
WKCD A-F-CON-01015	Installation of king post at Zone 2A-1(31nos, 3days/pile/rig, 3rigs) For ELS	31	26-Feb-25	02-Apr-25	32	03-Jul-25 A	08-Aug-25	15%	-75						
WKCD A-F-CON-01020	Installation of king post at Zone 2A-1(15nos, 3days/pile/rig, 1rig) for Steel Platfor	45	03-Apr-25	02-Jun-25	45	26-Jul-25	16-Sep-25	0%	-75						
WKCD A-F-CON-01030	Installation of king post at Zone 2A-1(15nos, 3days/pile/rig, 1rig) for Steel Platfor	45	03-Jun-25	24-Jul-25	45	05-Sep-25	30-Oct-25	0%	-75						
<b>Cost Centre G - Excavation and Lateral Support Works for Zone 2A-2-1 (Stage 2)</b>															
<b>Submissions and Approval</b>															
<b>Design Submission and Statutory Submission</b>															
<b>Steel Platform Design at Zone 2A-2-1</b>															
WKCD A-G-SUB-2280	Prepare and Submit Steel Platform Design at Zone 2B & Zone 2A-1 (Stage 2, Tc	36	03-Feb-25	10-Mar-25	28	28-May-25 A	25-Jun-25 A	100%							
WKCD A-G-SUB-2300	Review and Approve Design Submission of Steel Platform Design at Zone 2A-2-1	29	11-Mar-25	08-Apr-25	38	26-Jun-25 A	02-Aug-25	70%	-54						
<b>Review and Approve Submission of Method Statement for Steel Platform at Zone 2A-2-1</b>															
WKCD A-G-SUB-2340	Review and Approve Submission of Method Statement for Steel Platform at Zon	30	17-Apr-25	16-May-25	73	20-May-25 A	31-Jul-25	80%	-6						
<b>BD Submission</b>															
WKCD A-G-SUB-02160	Submit BA14 and acknowledgment from BD for king post at Zone 2A-2-1	28	02-Apr-25	29-Apr-25	59	02-May-25 A	30-Jun-25 A	100%							
WKCD A-G-SUB-02180	Application and obtain consent(BA8) for excavation and ELS installation at Zone	28	03-May-25	30-May-25	32	30-Jun-25 A	31-Jul-25	50%	-60						
WKCD A-G-SUB-02200	Submit BA10 for excavation and ELS installation at Zone 2A-2-1	7	31-May-25	06-Jun-25	7	01-Aug-25	07-Aug-25	0%	-60						
<b>Construction</b>															
<b>Excavation, Temporary Shoring and Struts</b>															
<b>Excavation</b>															
WKCD A-G-CON-01090	First 1.5m depth Excavation Works on Zone 2A-2-1 (Initial excavation)	0			37	23-Jun-25 A	04-Aug-25	25%	-48						
WKCD A-G-CON-01080	Mobilize excavation and temporary shoring and strut plant and equipment at Zor	7	02-Jun-25	09-Jun-25	7	01-Aug-25	08-Aug-25	0%	-52						
WKCD A-G-CON-01100	Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 (11822m3, 338m3/day)	35	10-Jun-25	19-Jul-25	35	09-Aug-25	18-Sep-25	0%	-52						
WKCD A-G-CON-01110	Excavation to +2.75mPD 1st ELS Layer at Zone 2A-2-1 (10917m3, 312m3/day)	35	21-Jul-25	29-Aug-25	35	19-Sep-25	01-Nov-25	0%	-52						
<b>Temporary Shoring</b>															
WKCD A-G-CON-01120	Construction of temporary steel platform at Zone 2A-2-1 (315T)	30	10-Jun-25	14-Jul-25	30	11-Aug-25	13-Sep-25	0%	-13						
WKCD A-G-CON-01380	Construction of temporary steel platform at Zone 2A-2-1 (315T)	30	15-Jul-25	18-Aug-25	30	15-Sep-25	21-Oct-25	0%	-8						
<b>ELS Installation (1,392 Ton)</b>															
WKCD A-G-CON-01140	ELS installation to +2.75mPD for 1st layer at Zone 2A-2-1	81	21-Jul-25	24-Oct-25	81	25-Sep-25	03-Jan-26	0%	-57						
<b>Cost Centre H - Bored Pile Foundation for Zone 2A-2-2</b>															
<b>Submissions and Approval</b>															
<b>Design Submission and Statutory Submission</b>															
WKCD A-H-SUB-01240	Submit BA14 and acknowledgment from BD bored piling works at Zone 2A-2-2	28	20-Sep-26	17-Oct-26	28	14-Oct-25	10-Nov-25	0%	420						
<b>Construction</b>															
<b>Bored Pile Foundation 2A-2-2</b>															
<b>Bored Pile Works BP30X</b>															
WKCD A-H-CON-01880	Interface core for bored piles(8nos, 4days/pile/rig, 1rig)	16	02-Sep-26	19-Sep-26	111	03-Apr-25 A	18-Aug-25	30%	388						
WKCD A-H-CON-01780	Casing Installation and Soft Excavation for bored pile(BP30X)	30	27-May-26	02-Jul-26	43	23-Jun-25 A	11-Aug-25	40%	342						
WKCD A-H-CON-01760	Plant Setup of Oscillator for bored pile(BP30X)	1	26-May-26	26-May-26	0	26-Jun-25 A	26-Jun-25 A	100%							
WKCD A-H-CON-01800	Plant Setup of RCD for bored pile(BP30X)	1	03-Jul-26	03-Jul-26	1	12-Aug-25	12-Aug-25	0%	342						
WKCD A-H-CON-01820	Rock Drilling of bored pile(BP30X)	19	04-Jul-26	25-Jul-26	19	13-Aug-25	03-Sep-25	0%	342						
WKCD A-H-CON-01840	Koden Test, Air Lifting, Installation of Rebar Cage and Concreting(BP30X)(Includi	4	27-Jul-26	30-Jul-26	4	04-Sep-25	08-Sep-25	0%	342						
WKCD A-H-CON-01860	Last bored pile design strength	28	31-Jul-26	01-Sep-26	28	09-Sep-25	13-Oct-25	0%	342						
WKCD A-H-CON-01900	Demobilization of bored piling rigs	7	31-Jul-26	07-Aug-26	7	09-Sep-25	16-Sep-25	0%	374						
WKCD A-H-CON-01920	Carry-out Full core drilling works(2nos, 3days/pile/rig, 1rig) and report submission	10	21-Sep-26	03-Oct-26	10	14-Oct-25	24-Oct-25	0%	353						
<b>Cost Centre J &amp; M - Site Safety and Smart Site Safety System</b>															
<b>General Submission</b>															
<b>Submission and Approval and Implementation</b>															
2ABC.R0.20250721 22-Jul-25_18:42 Page 5 of 6											CC/2023/2B/095 Three Month Rolling Programme as of 21-Jul-25				
<div><div><div>◆ Milestone</div><div>◆ Critical MS</div><div>█ Critical Bar</div></div><div><div>█ Planned Bar</div><div>█ Actual Work Completed</div><div>◆ R0 MS</div></div></div>											Date	Revision	Checked	Approved	
											21-Jul-25	CMWP R0	RR		

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	2025				
											Jul	Aug	Sep	Oct
											13	14	15	16
WKCDA-JM-SUB-01000	Submit and update Construction Health and Safety Plan	914	05-Jul-24	04-Jan-27	915	15-Jul-24 A	15-Jan-27	39%	-11					
WKCDA-JM-SUB-01100	Implementation and update of SSSS(including communication network,centraliz	879	09-Aug-24	04-Jan-27	863	05-Sep-24 A	15-Jan-27	36%	-11					
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	914	05-Jul-24	04-Jan-27	925	05-Jul-24 A	15-Jan-27	42%	-11					
WKCDA-K-SUB-01000	Submit and update Environmental Management Plan	914	05-Jul-24	04-Jan-27	892	07-Aug-24 A	15-Jan-27	42%	-11					
WKCDA-K-SUB-01040	Implementation of the EM&A programme	914	05-Jul-24	04-Jan-27	892	07-Aug-24 A	15-Jan-27	42%	-11					
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	855	01-Aug-24	03-Dec-26	893	05-Jul-24 A	14-Dec-26	38%	-11					
Item No.2 - Adoption of G/F as CA's and RSS's Site Office & Maintenance of 1/F and Demolition of NS O														
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	855	01-Aug-24	03-Dec-26	893	05-Jul-24 A	14-Dec-26	38%	-11					
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 '	14	20-Mar-25	02-Apr-25	14	22-Jul-25	04-Aug-25	0%	310					
WKCDA-S-#OW-01020	Review and approve submission of TTMS scheme for road reinstatement works :	28	03-Apr-25	30-Apr-25	28	05-Aug-25	01-Sep-25	0%	310					
WKCDA-S-#OW-01040	Coordination and approval of TTMS scheme with TMLG	60	01-May-25	29-Jun-25	60	02-Sep-25	31-Oct-25	0%	310					
WKCDA-S-#OW-01040a	- 1st Relevant Authority's review	15	01-May-25	15-May-25	15	02-Sep-25	16-Sep-25	0%	310					
WKCDA-S-#OW-01040b	- Address comment from Relevant Authority	15	16-May-25	30-May-25	15	17-Sep-25	01-Oct-25	0%	310					
WKCDA-S-#OW-01040c	- 2nd Relevant Authority's review	15	31-May-25	14-Jun-25	15	02-Oct-25	16-Oct-25	0%	310					
WKCDA-S-#OW-01040d	- Address comment from Relevant Authority's and obtain approval	15	15-Jun-25	29-Jun-25	15	17-Oct-25	31-Oct-25	0%	310					



## **C. Environmental Mitigation Measures – Implementation Status**

**Table C-1: Environmental Mitigation Measures Implementation Status**

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Zone 2A, 2B & 2C		
		May 2025	June 2025	July 2025
<b>Air Quality Impact (Construction)</b>				
2.1	<b>General Dust Control Measures</b> 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	Obs
2.1	<b>Best Practice For Dust Control</b> 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: <i>Good Site Management</i> <ul style="list-style-type: none"> <li>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.</li> </ul> <i>Disturbed Parts of the Roads</i> <ul style="list-style-type: none"> <li>Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or</li> </ul>	✓	✓	✓

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.</li> </ul>	✓	Obs	Obs
	<i>Exposed Earth</i>	N/A	N/A	Obs
	<ul style="list-style-type: none"> <li>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.</li> </ul>			
	<i>Loading, Unloading or Transfer of Dusty Materials</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>			
	<i>Debris Handling</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides.</li> </ul>			
	<ul style="list-style-type: none"> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> </ul>	N/A	N/A	N/A
	<i>Transport of Dusty Materials</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>			
	<i>Wheel washing</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>			
	<i>Use of vehicles</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>			

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.</li> <li>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.</li> </ul>	✓	✓	✓
	<i>Site hoarding</i>	✓	✓	✓
	<ul style="list-style-type: none"> <li>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.</li> </ul>			
2.1	<b>Best Practicable Means for Cement Works (Concrete Batching Plant)</b> 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: <i>Exhaust from Dust Arrestment Plant</i> <ul style="list-style-type: none"> <li>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</li> </ul> <i>Emission Limits</i> <ul style="list-style-type: none"> <li>All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke</li> </ul>	N/A	N/A	N/A
		N/A	N/A	N/A

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<i>Engineering Design/Technical Requirements</i> <ul style="list-style-type: none"> <li>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</li> </ul>	N/A	N/A	N/A
	<b>Non-Road Mobile Machinery (NRMM):</b> 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.	Obs	✓	✓
<b>Noise Impact (Construction)</b>				
3.1	<b>Good Site Practice</b> 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: <ul style="list-style-type: none"> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum</li> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> <li>mobile plant should be sited as far away from NSRs as possible; and</li> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Zone 2A, 2B & 2C		
		May 2025	June 2025	July 2025
3.1	<b>Adoption of Quieter PME</b> The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and " <i>Sound Power Levels of Other Commonly Used PME</i> " are presented in <b>Table 4.26</b> in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓	✓	✓
3.1	<b>Use of Movable Noise Barriers</b> 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	<b>Use of Noise Enclosure/ Acoustic Shed</b> 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	<b>Use of Noise Insulating Fabric</b> 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	<b>Scheduling of Construction Works outside School Examination Periods</b> 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.	✓	✓	✓

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
<b>Water Quality Impact (Construction)</b>				
4.1	<b>Construction site runoff and drainage</b> 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: <ul style="list-style-type: none"> <li>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;</li> <li>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.</li> <li>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.</li> </ul>	✓	Obs	Obs
		✓	✓	✓
		Obs	Obs	Obs



		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	✓	✓	✓
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>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.</li> </ul>	N/A	N/A	N/A
4.1	<b>Barging facilities and activities</b> Recommendations for good site practices during operation of the proposed barging point include: <ul style="list-style-type: none"> <li>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;</li> <li>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;</li> <li>All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and</li> <li>Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site.</li> </ul>	N/A	N/A	N/A
4.1	<b>Sewage effluent from construction workforce</b> 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	<b>General construction activities</b>			

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	Obs	Obs	✓
		✓	✓	Obs
<b>Waste Management Implications (Construction)</b>				
6.1	<b>Good Site Practices</b> Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> <li>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</li> <li>Training of site personnel in proper waste management and chemical handling procedures</li> <li>Provision of sufficient waste disposal points and regular collection of waste</li> <li>Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers</li> <li>Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads</li> </ul>	Obs	Obs	Obs
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&amp;D materials is not anticipated</li> </ul>	✓	✓	✓
6.1	<b>Waste Reduction Measures</b> Recommendations to achieve waste reduction include: <ul style="list-style-type: none"> <li>Sort inert C&amp;D material to recover any recyclable portions such as metals</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal</li> <li>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</li> <li>Proper site practices to minimise the potential for damage or contamination of inert C&amp;D materials</li> <li>Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes</li> </ul>	✓	✓	✓
6.1	<b>Inert and Non-inert C&amp;D Materials</b> 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. <ul style="list-style-type: none"> <li>The surplus inert C&amp;D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong.</li> </ul>	✓	✓	✓

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&amp;D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&amp;D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD.</li> <li>The C&amp;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.</li> <li>In order to monitor the disposal of inert and non-inert C&amp;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 &amp; 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.</li> </ul>	✓	✓	✓
6.1	<b>Chemical Waste</b>			

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	✓	✓	✓
6.1	<b>General Refuse</b> 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.	✓	✓	✓
<b>Land Contamination (Construction)</b>				

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Zone 2A, 2B & 2C		
		May 2025	June 2025	July 2025
7.1	<p>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:</p> <ul style="list-style-type: none"> <li>To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> <li>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;</li> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> <li>The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> <li>Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> <li>Truck bodies and tailgates should be sealed to stop any discharge;</li> <li>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;</li> </ul>	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A



		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
	<ul style="list-style-type: none"> <li>Speed control for trucks carrying contaminated materials should be exercised;</li> <li>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</li> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
<b>Ecological Impact (Construction)</b>				
No mitigation measure is required.				
<b>Landscape and Visual Impact (Construction)</b>				
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	N/A	N/A
Table 9.1 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
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	N/A	N/A
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	N/A	N/A

		Implementation Stage		
		Zone 2A, 2B & 2C		
EM&A Ref.	Recommendation Measures	May 2025	June 2025	July 2025
Table 9.1 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A
Table 9.1 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A
Table 9.1 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	Obs	✓
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	N/A	N/A
Table 9.2 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A
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	N/A	N/A

N/A - Not Applicable

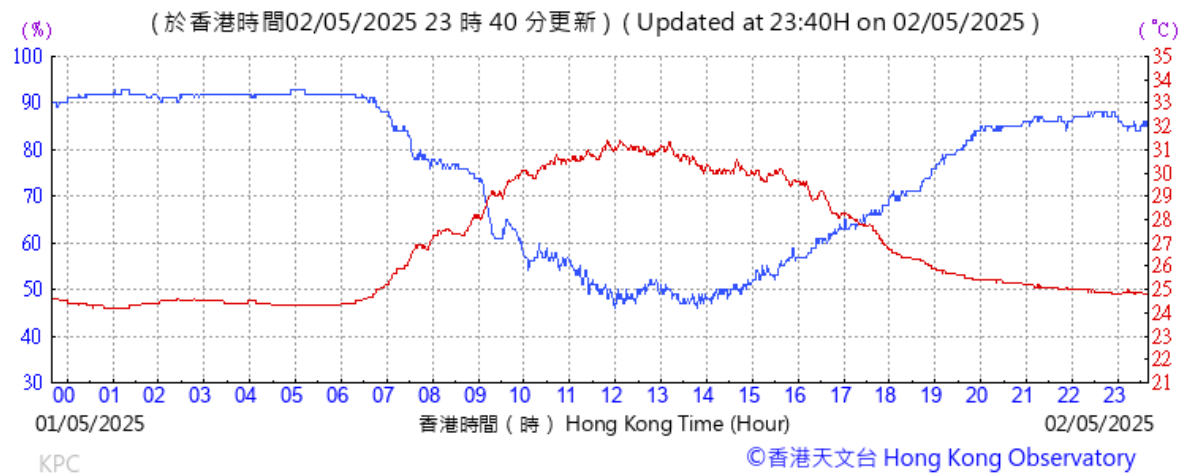
✓ - Implemented

Obs - Observed

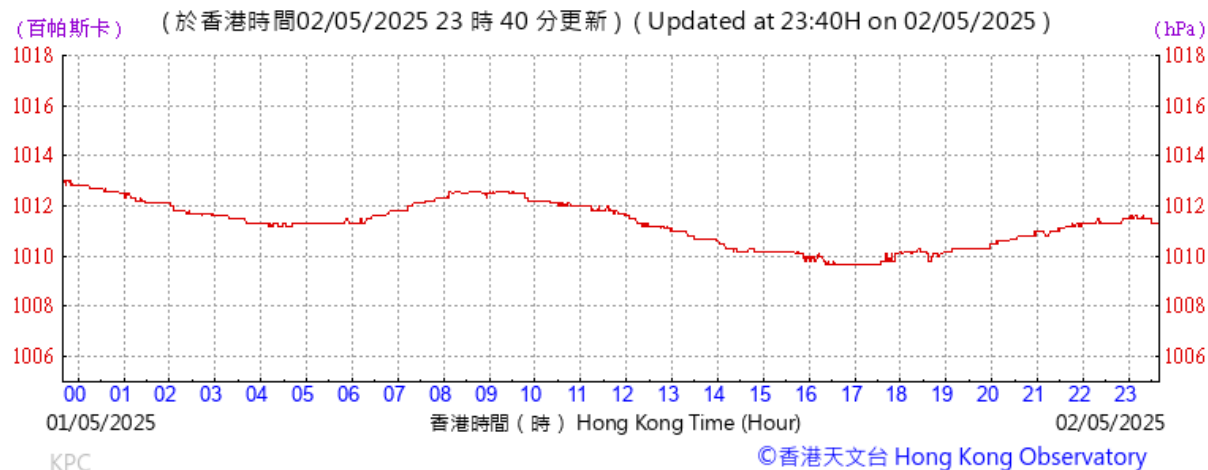
Rem - Reminder

## **D. Meteorological Data Extracted from Hong Kong Observatory**

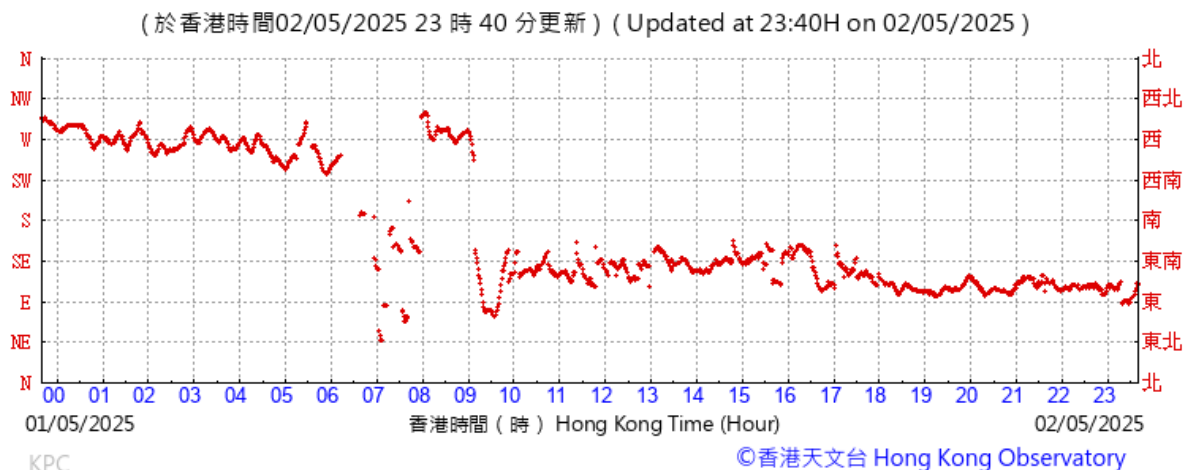
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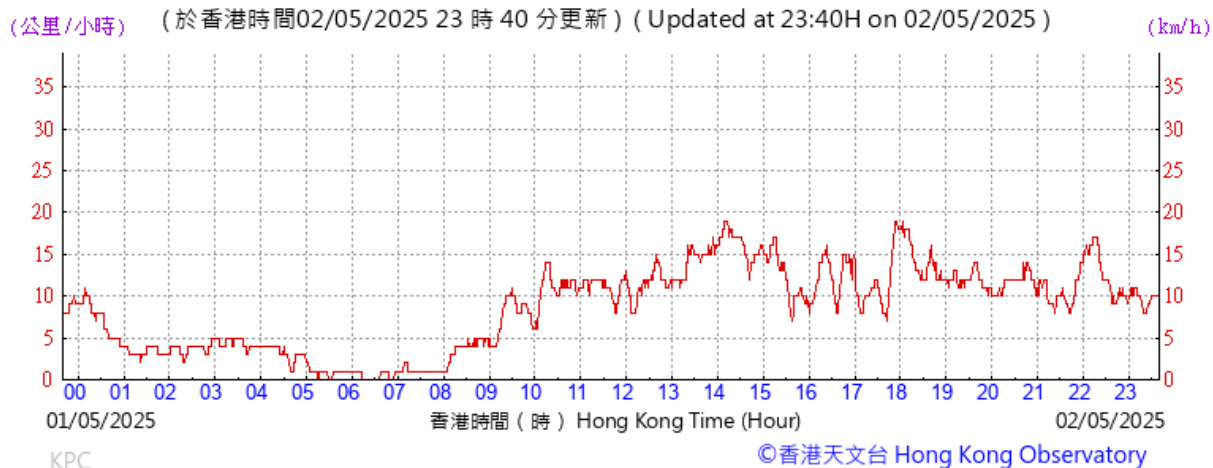
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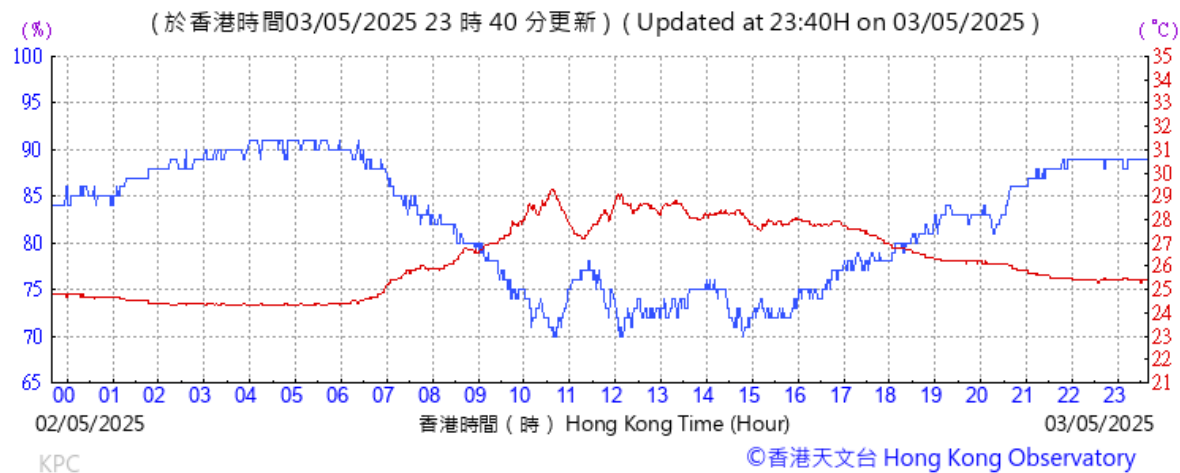
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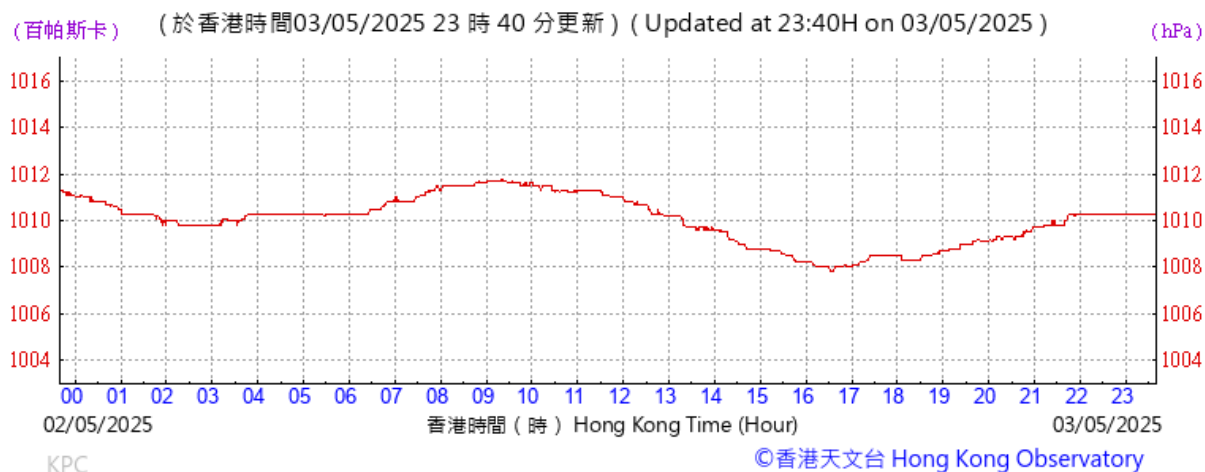
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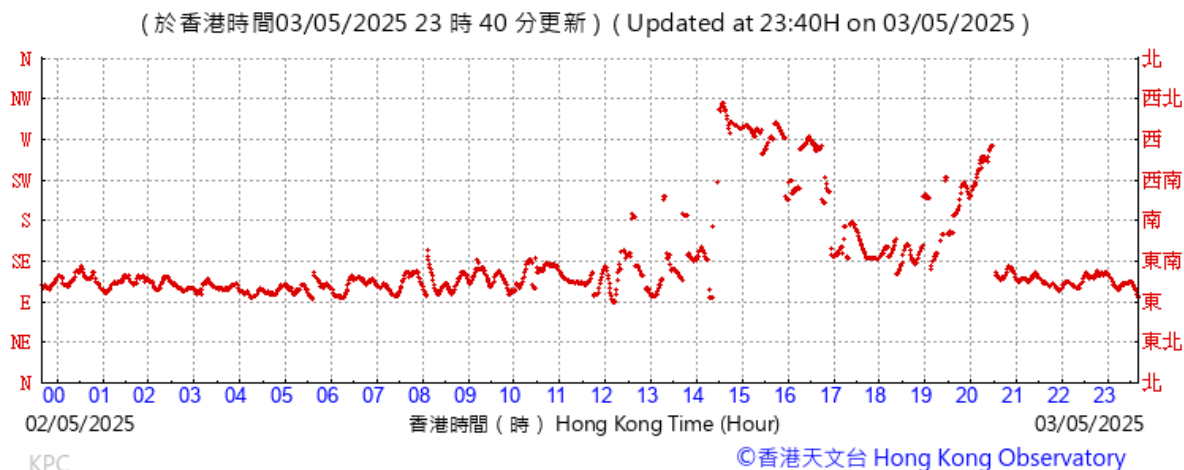
Temperature/Humidity:



Pressure:



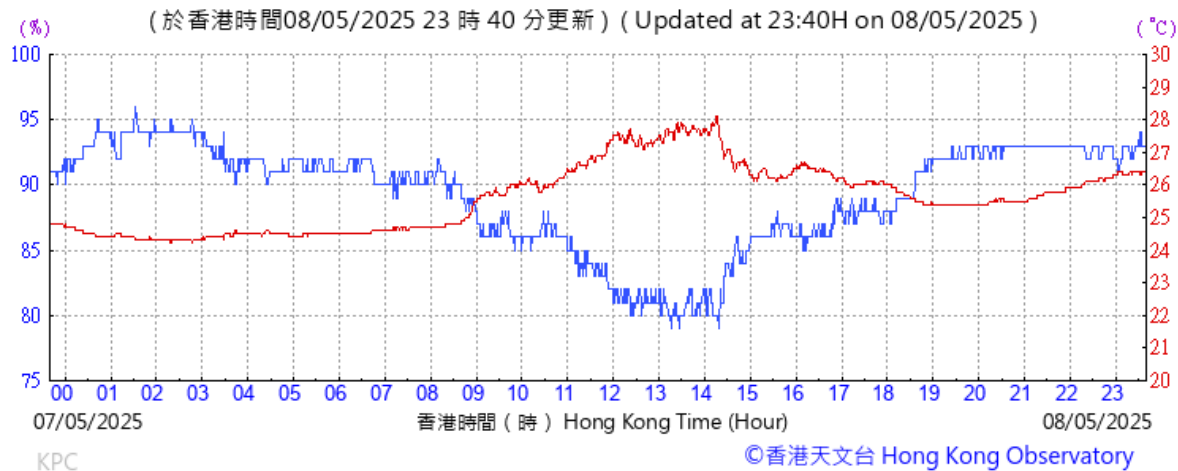
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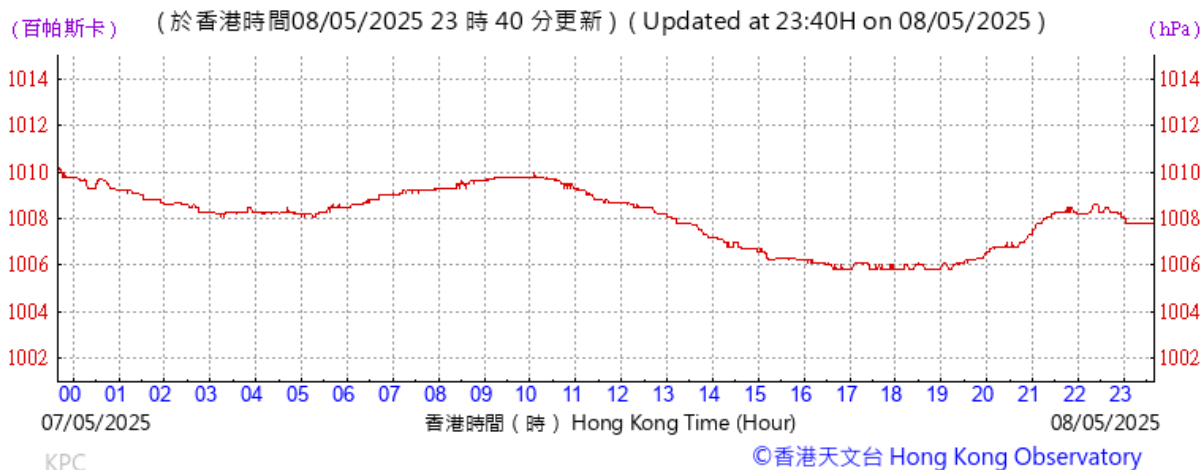
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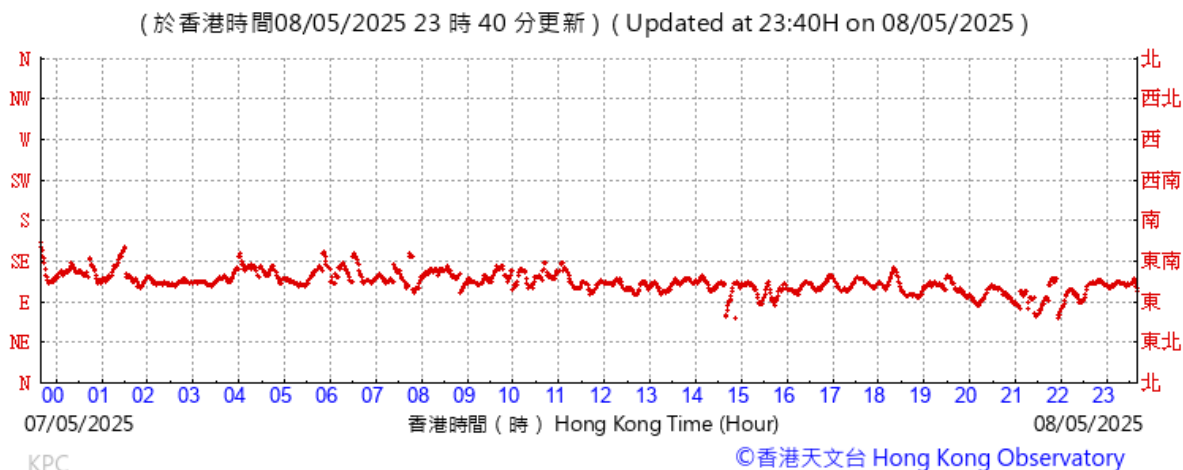
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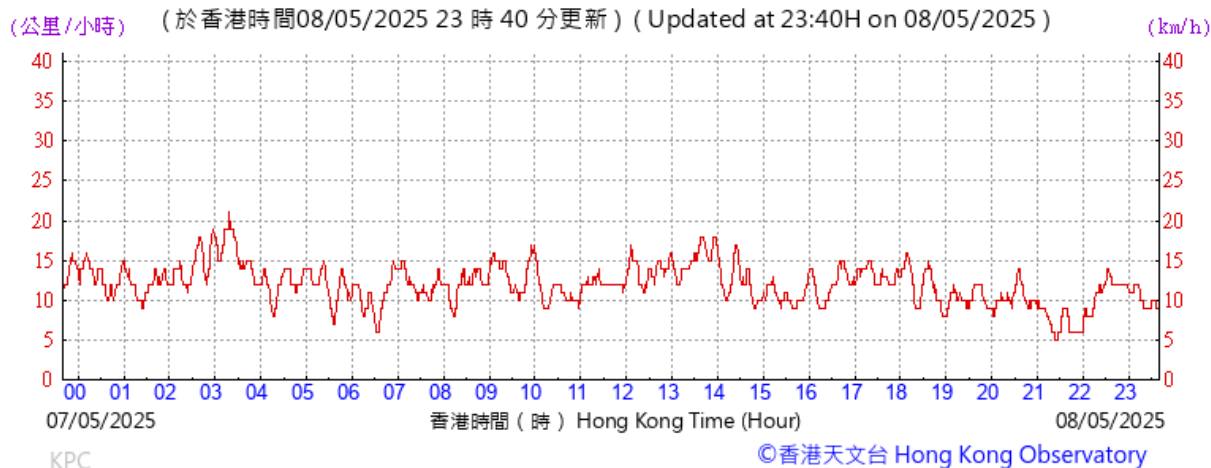
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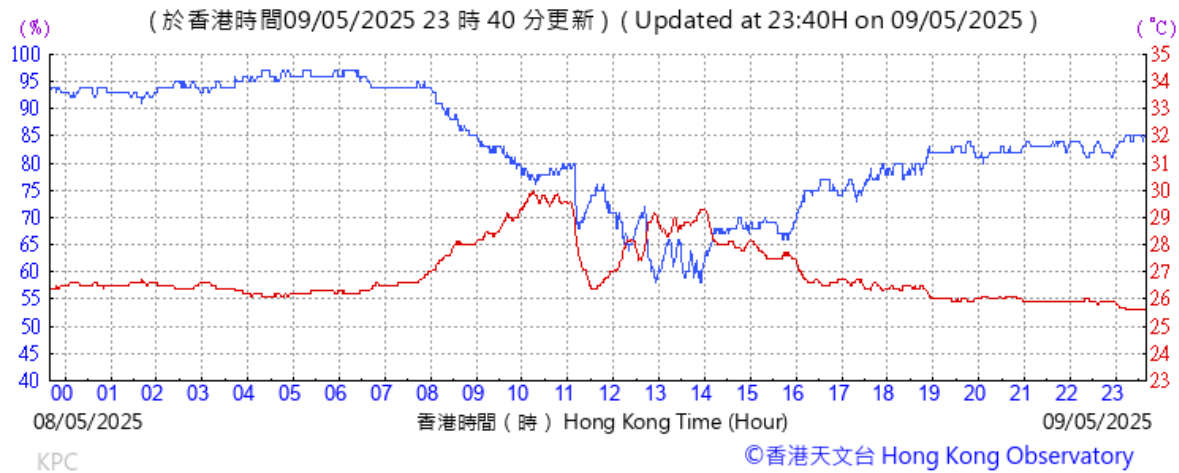
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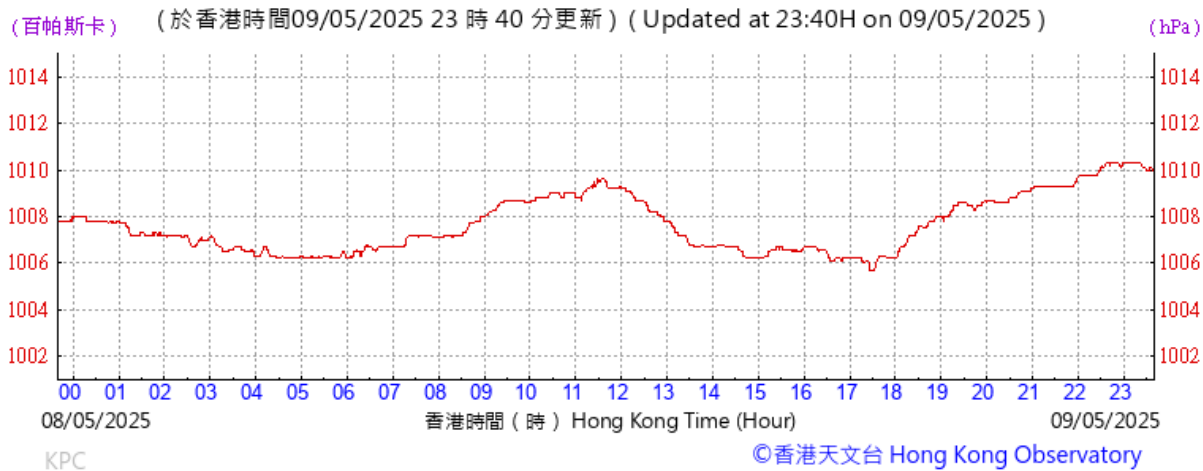
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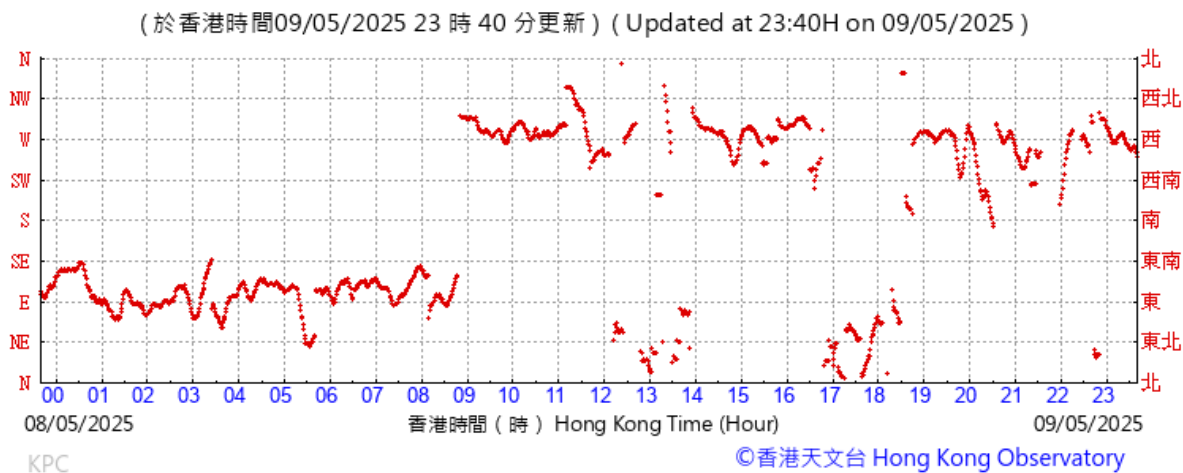
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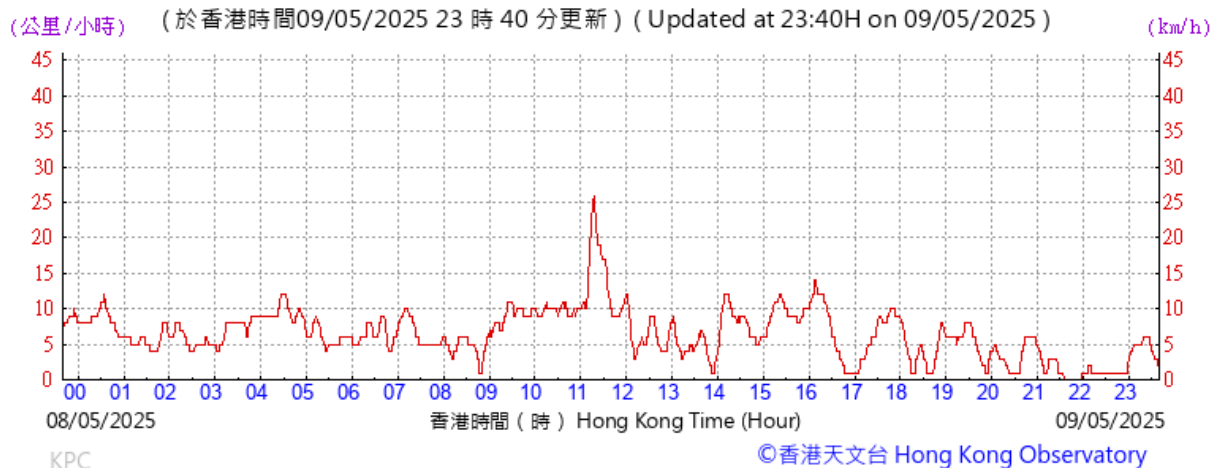
Pressure:



Wind Direction:

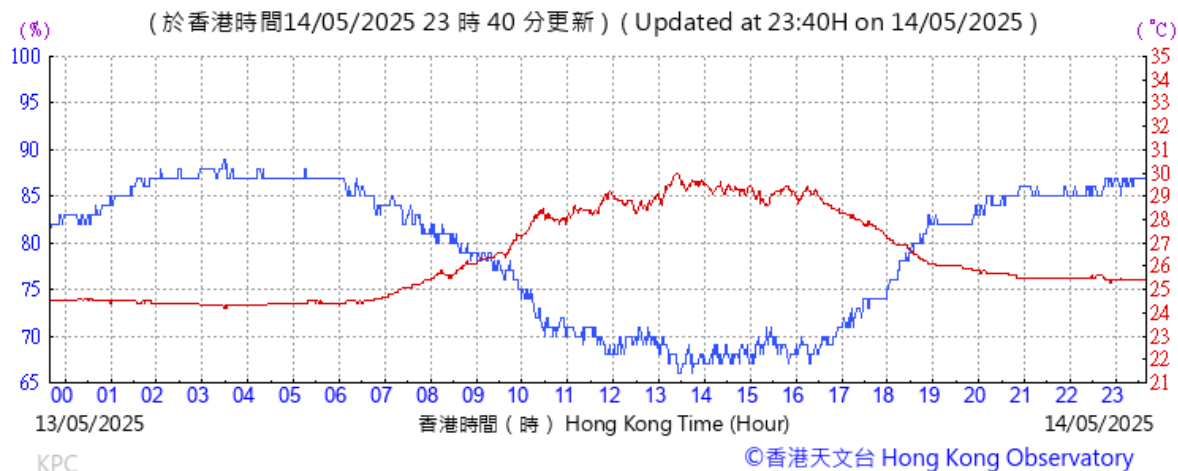


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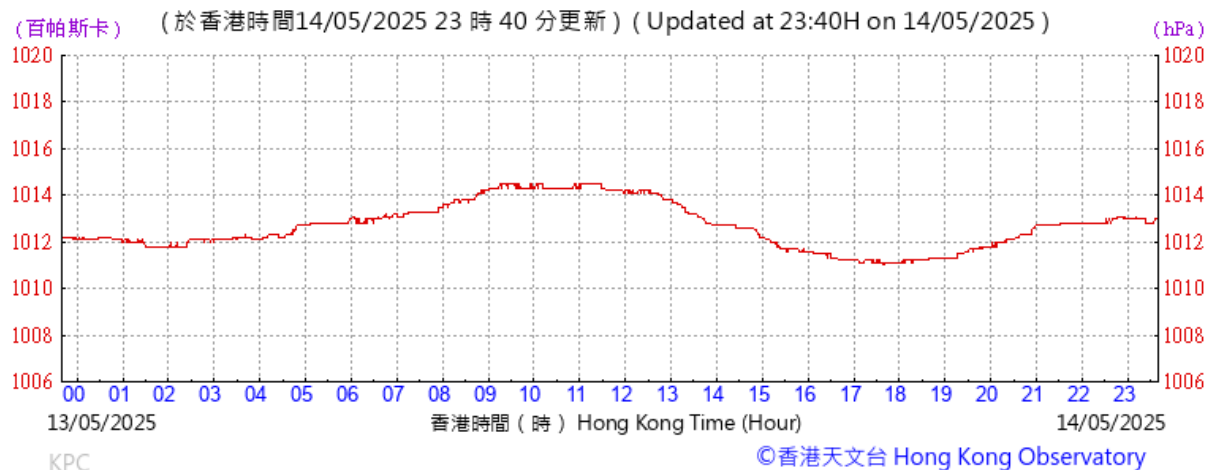




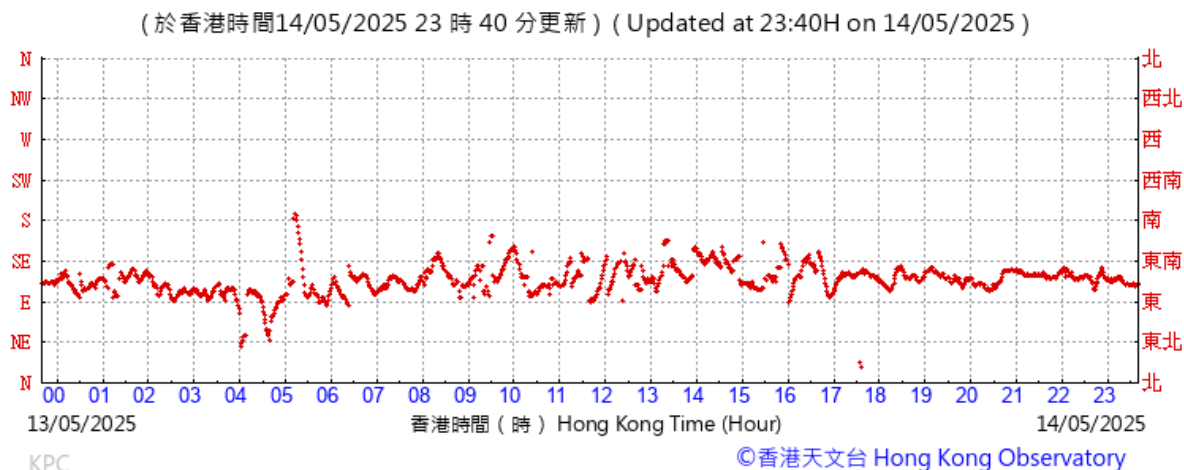
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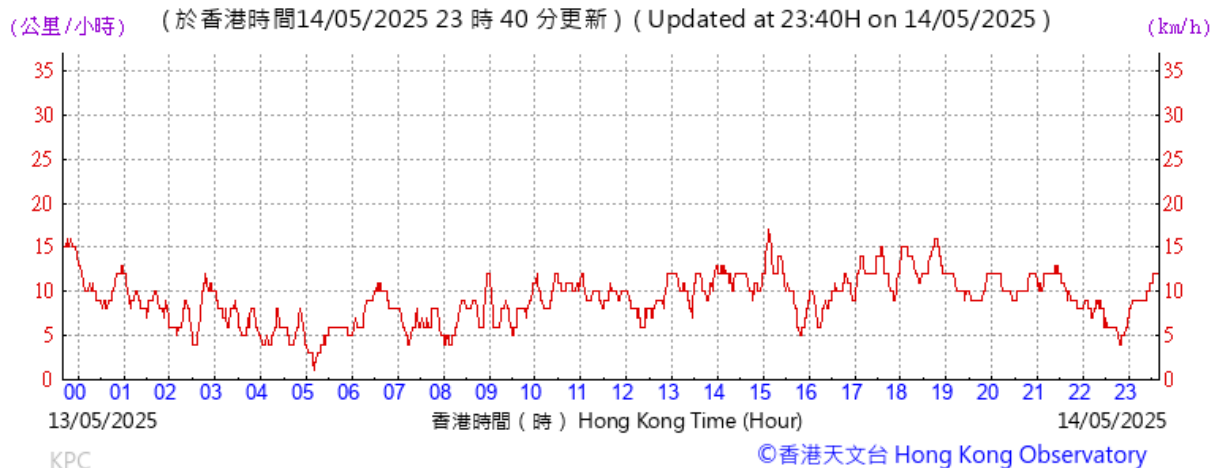
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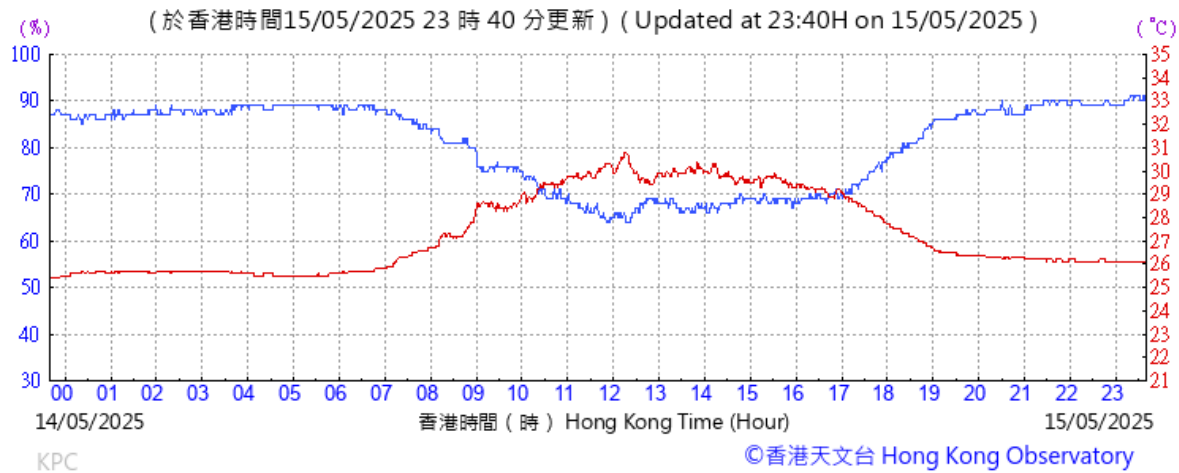
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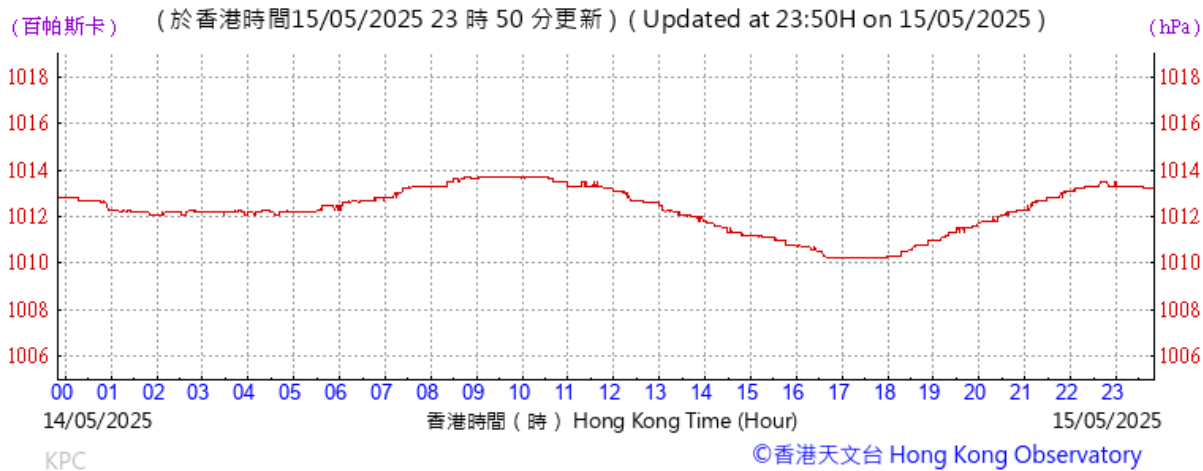
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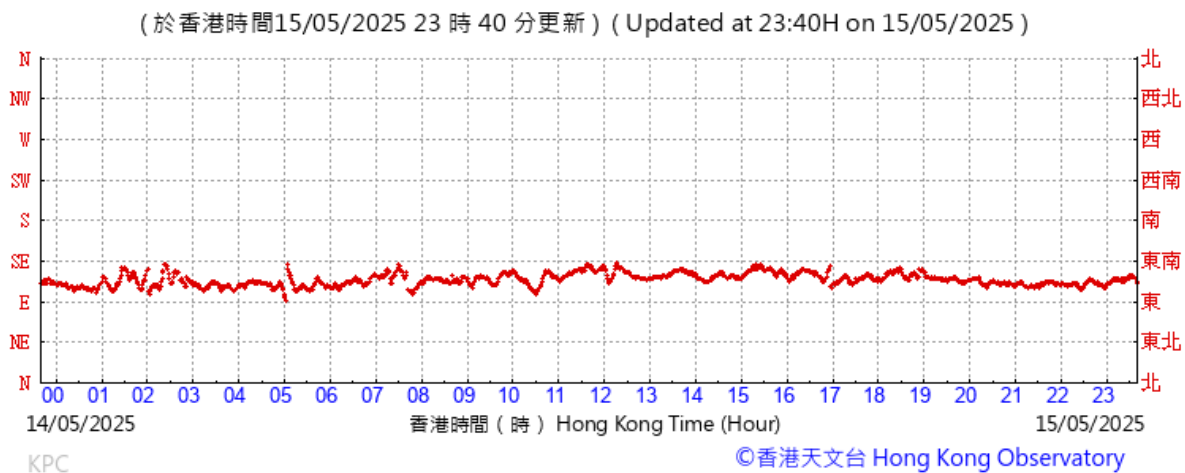
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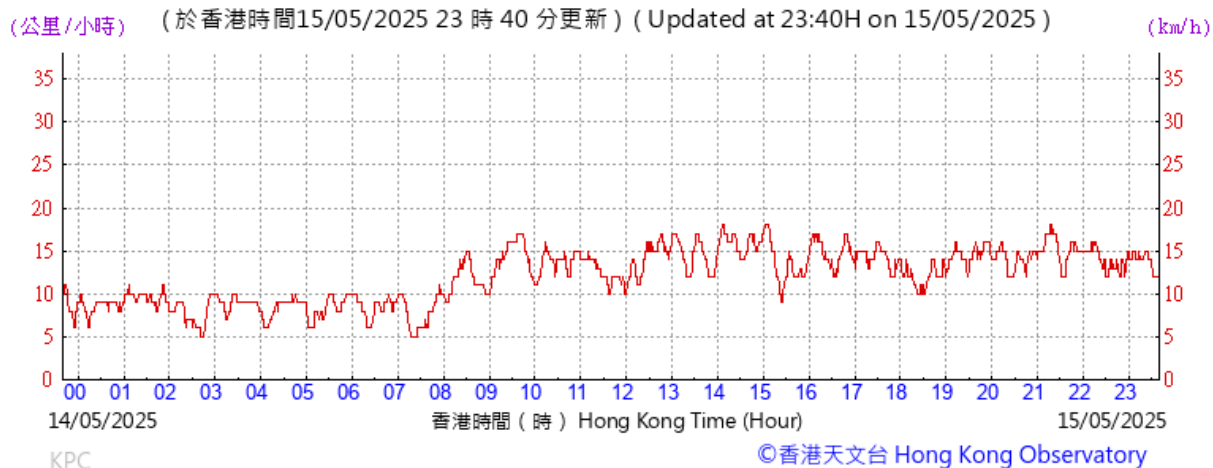
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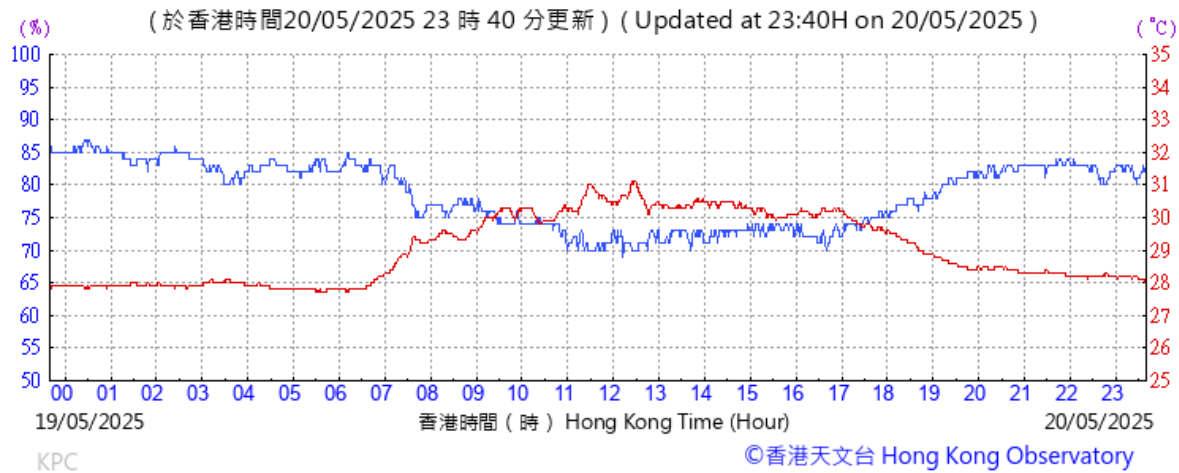
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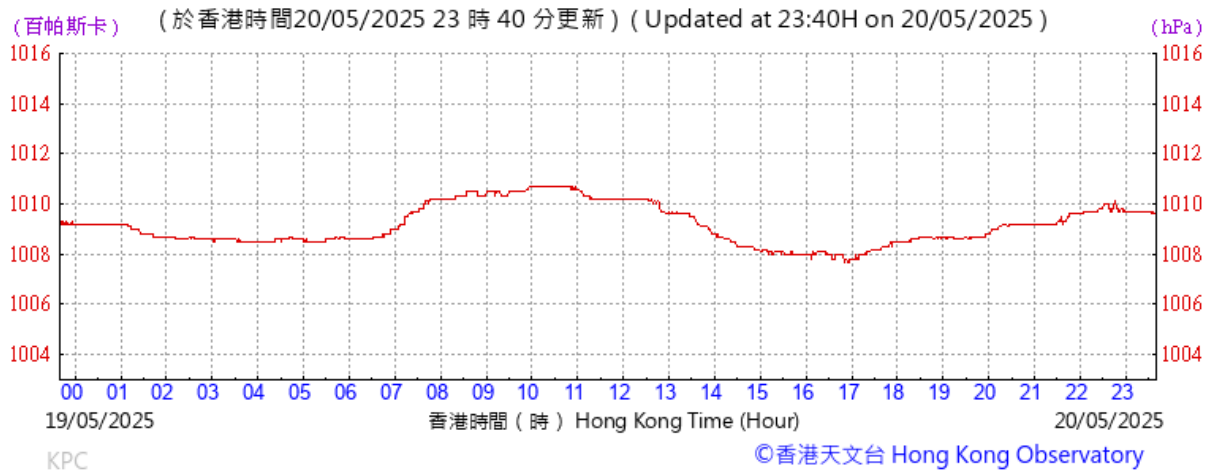
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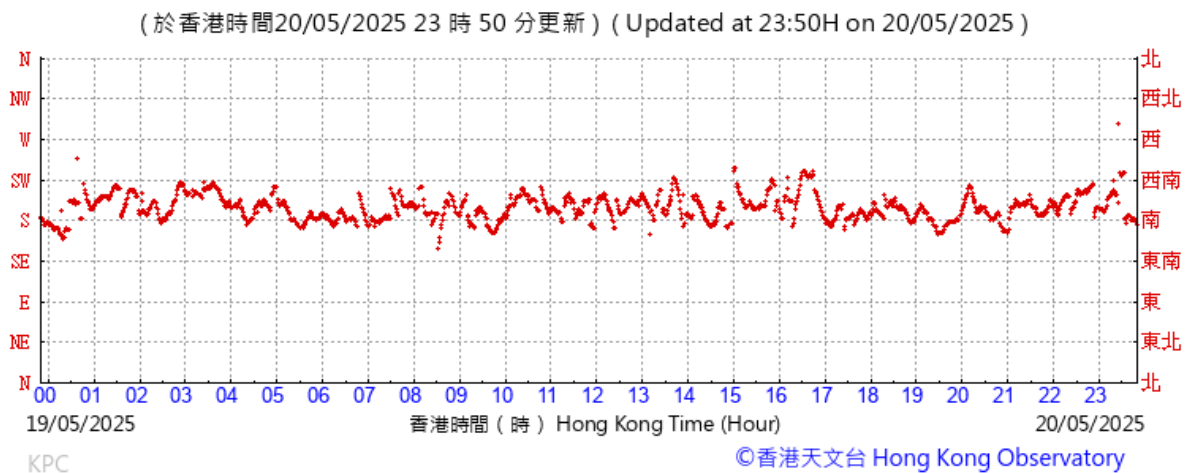
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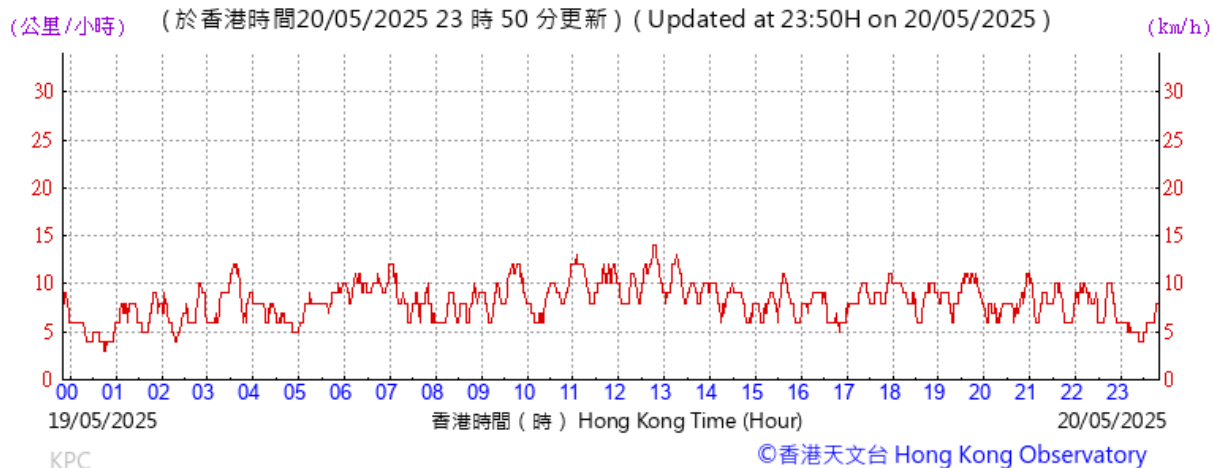
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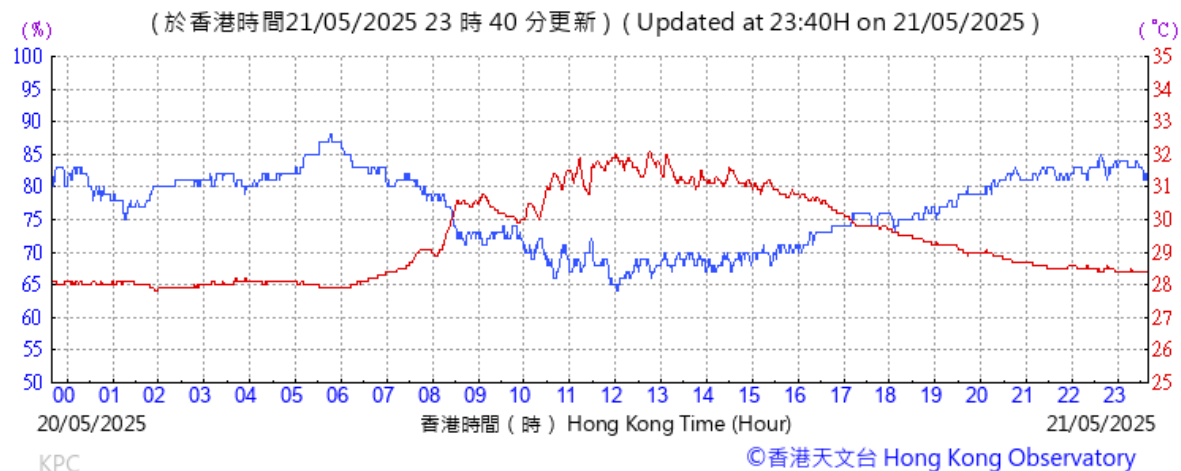
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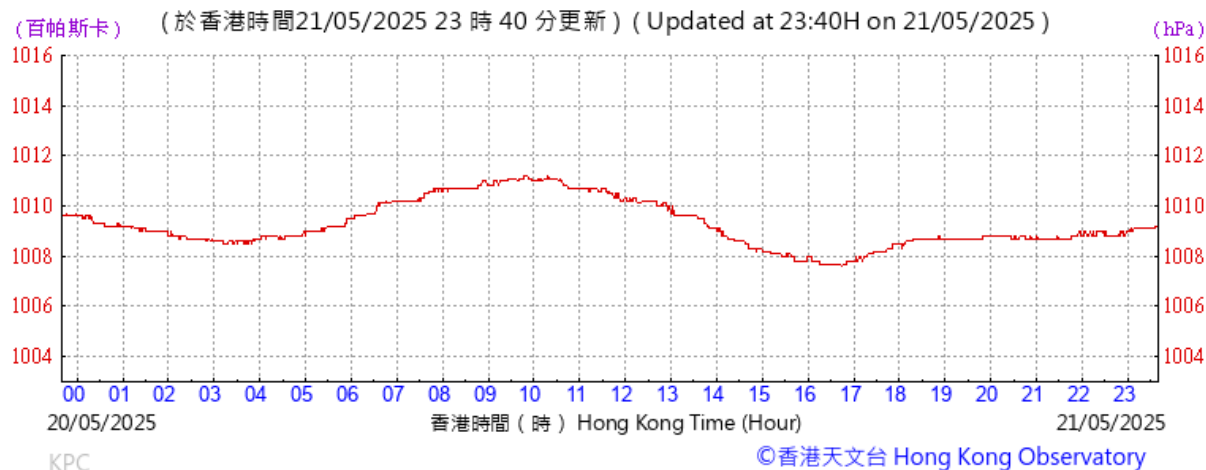
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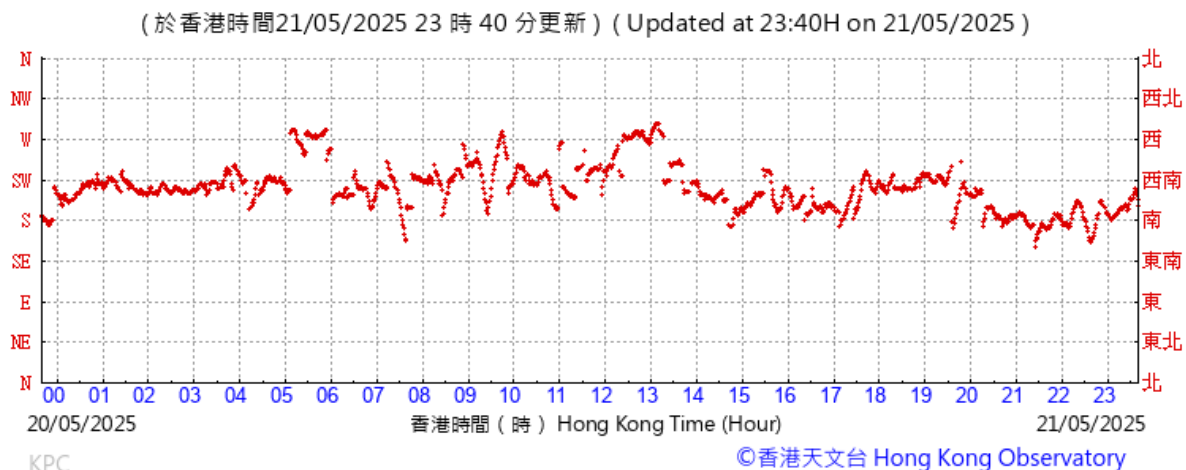
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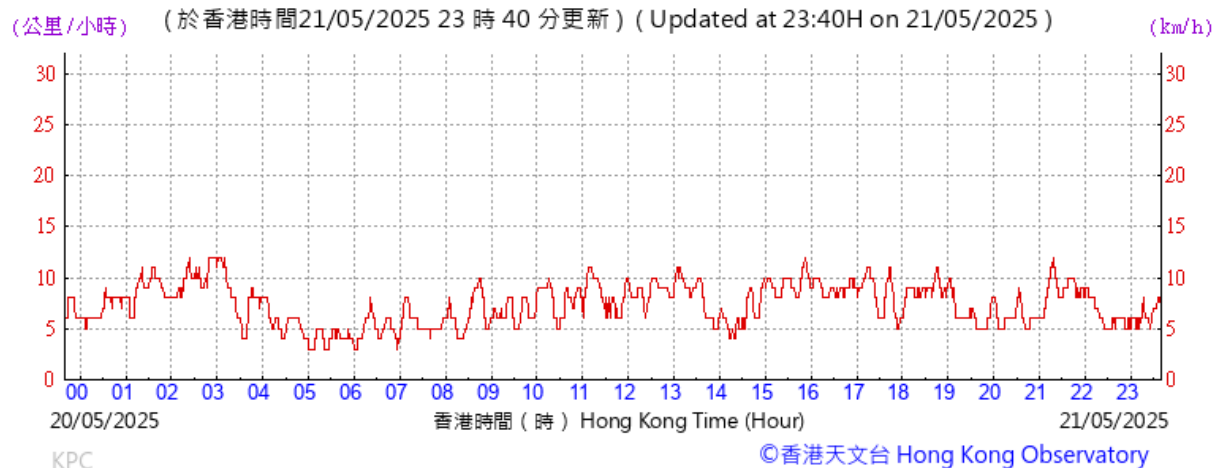
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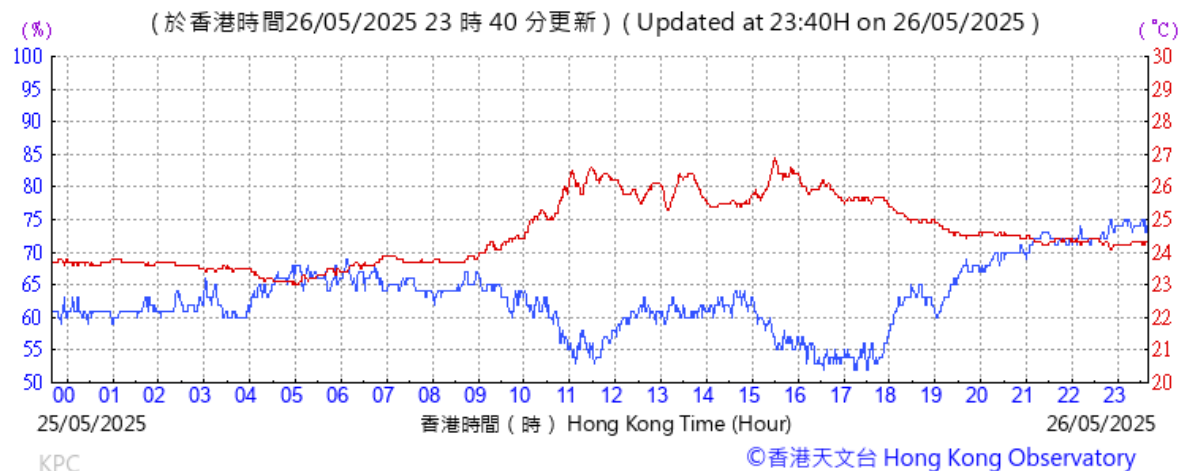
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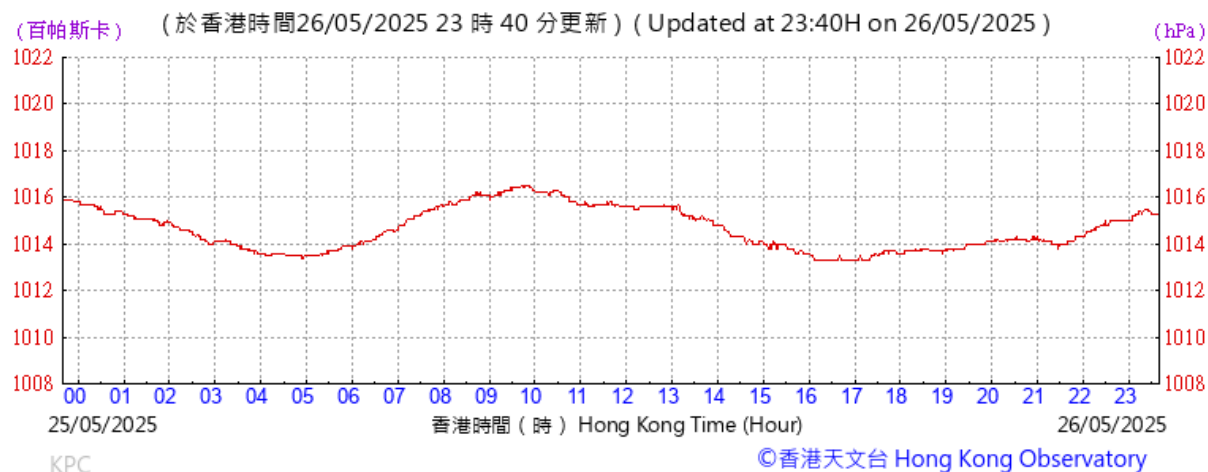
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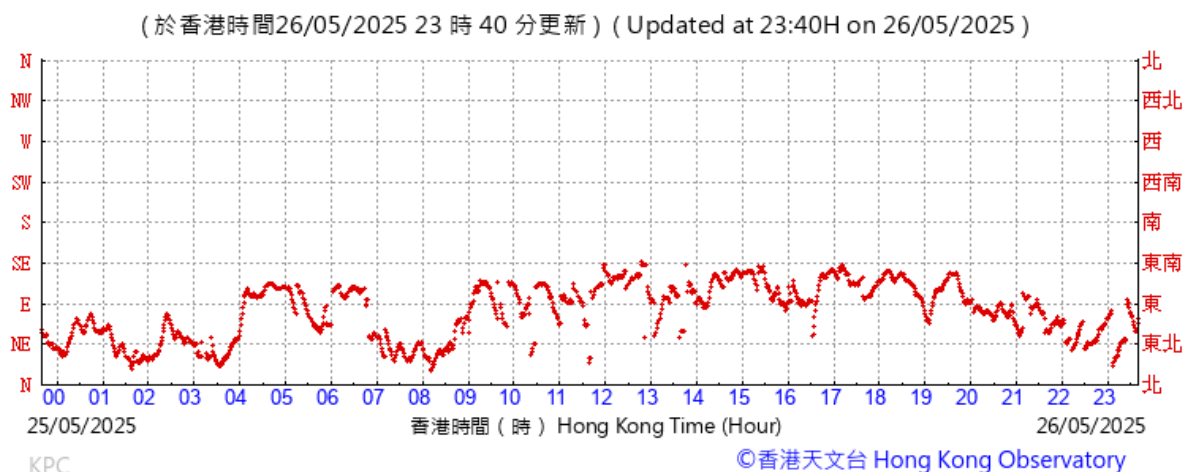
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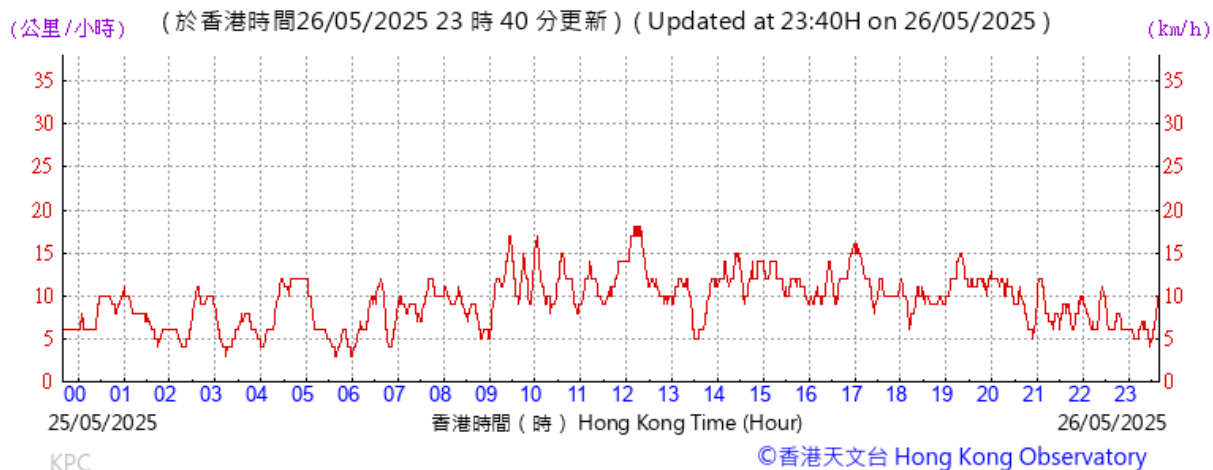
Pressure:



Wind Direction:

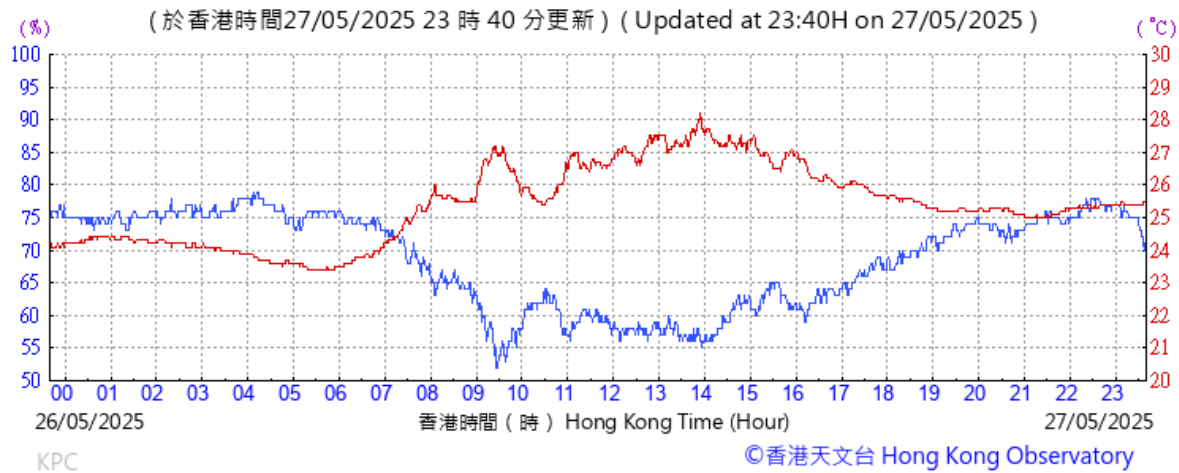


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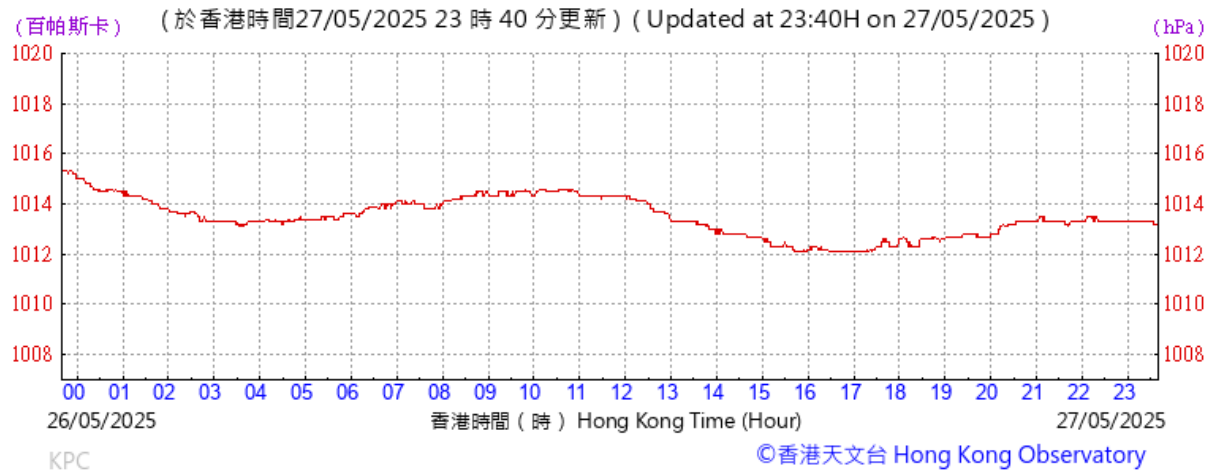




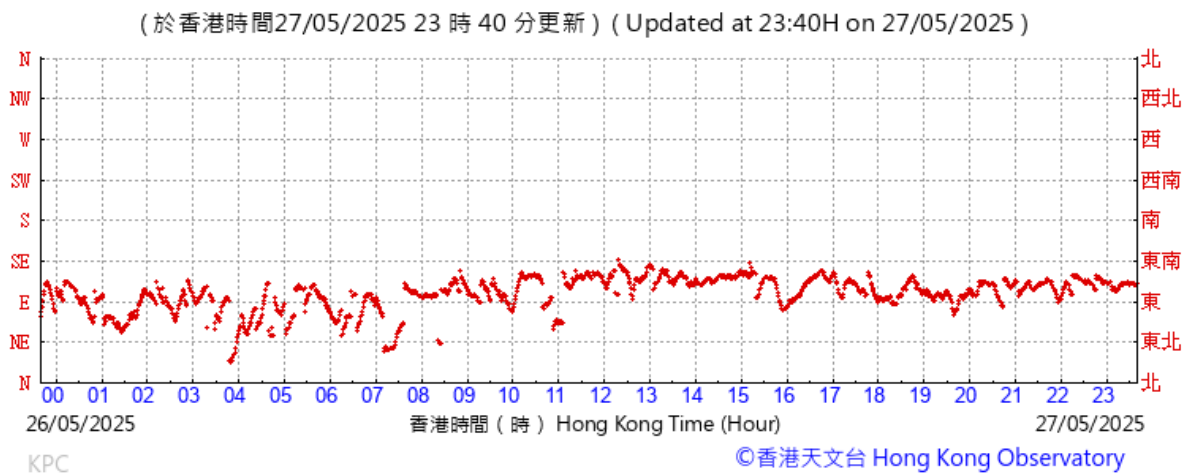
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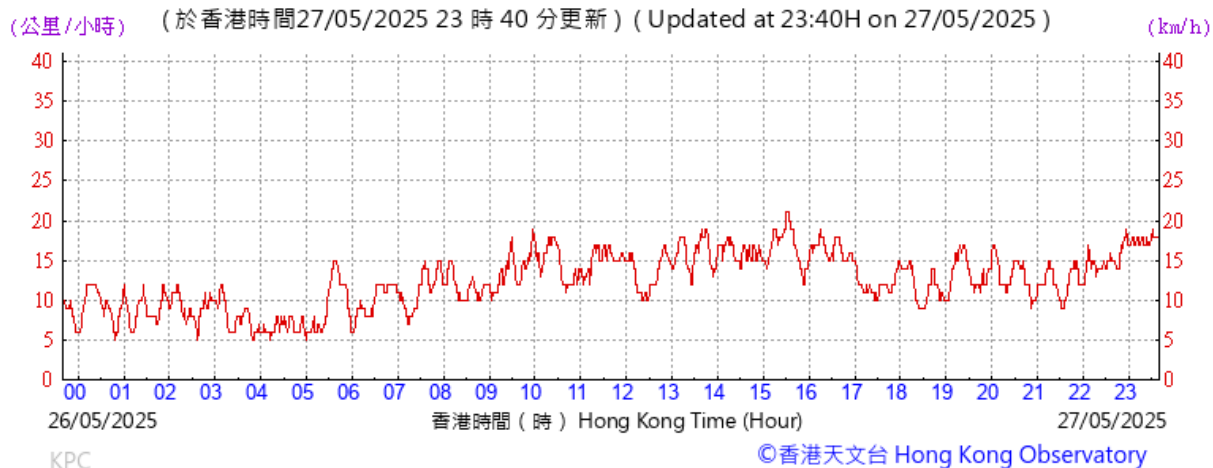
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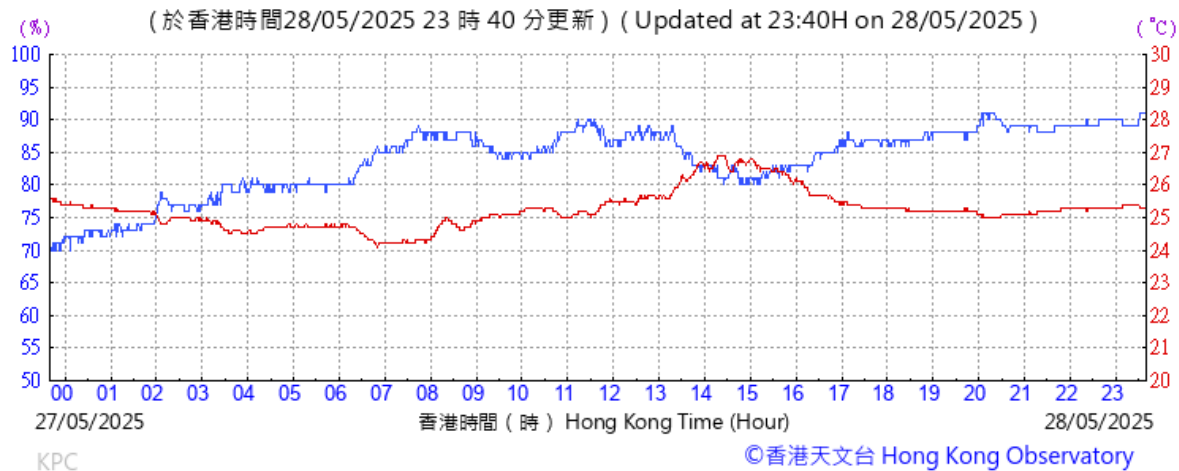
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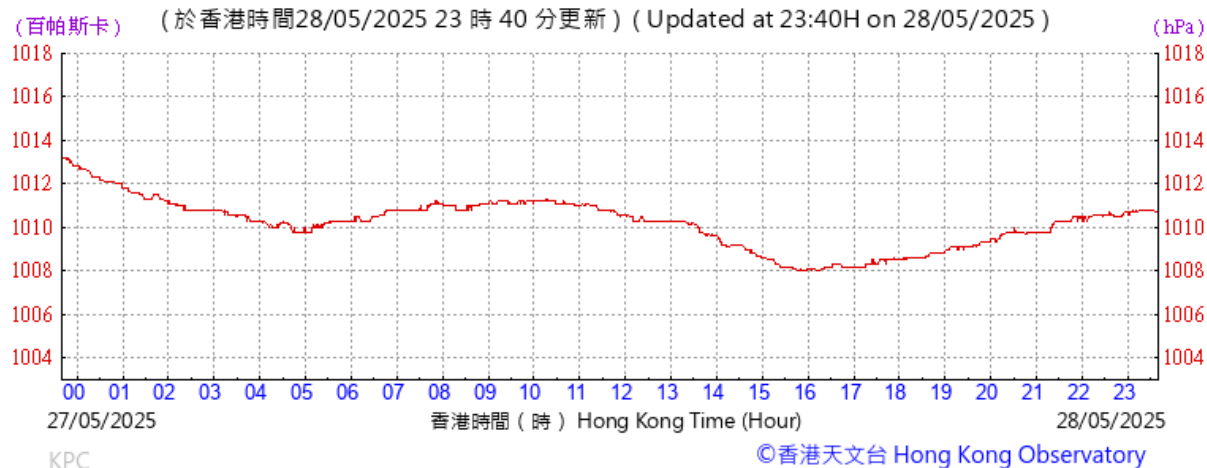
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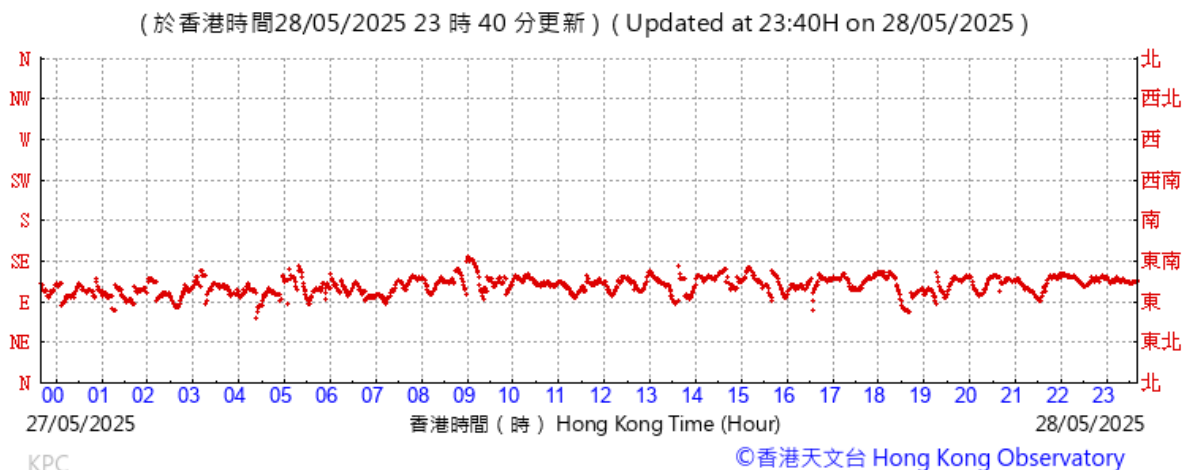
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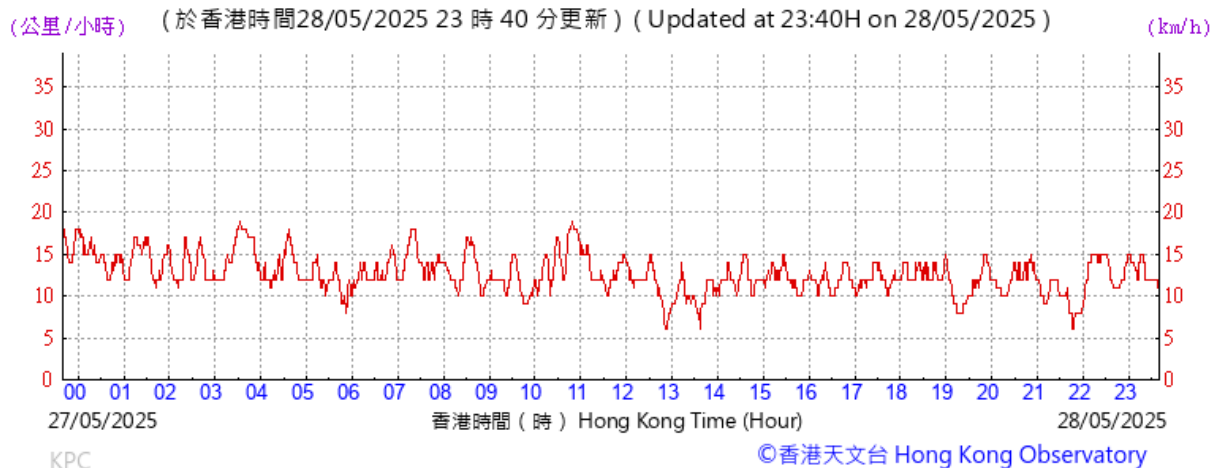
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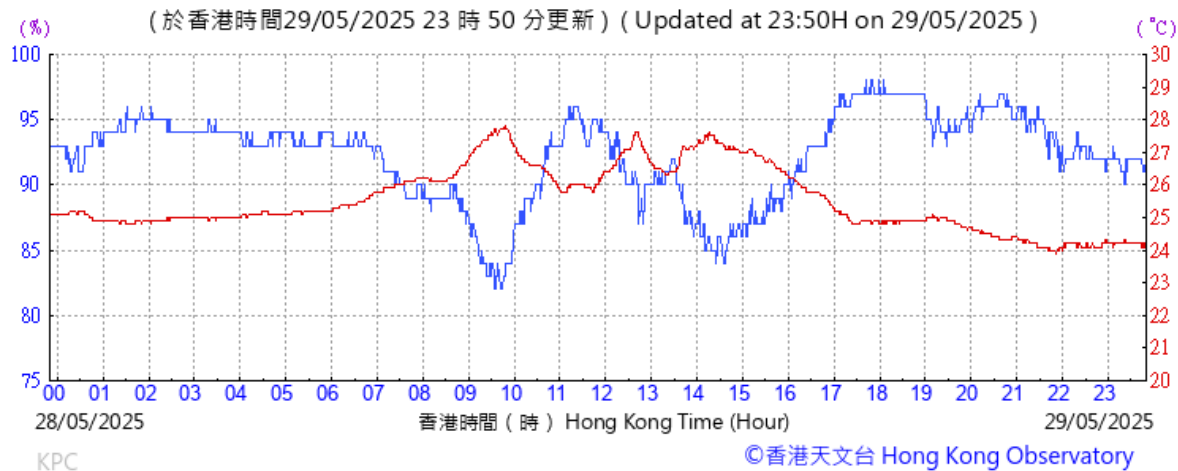
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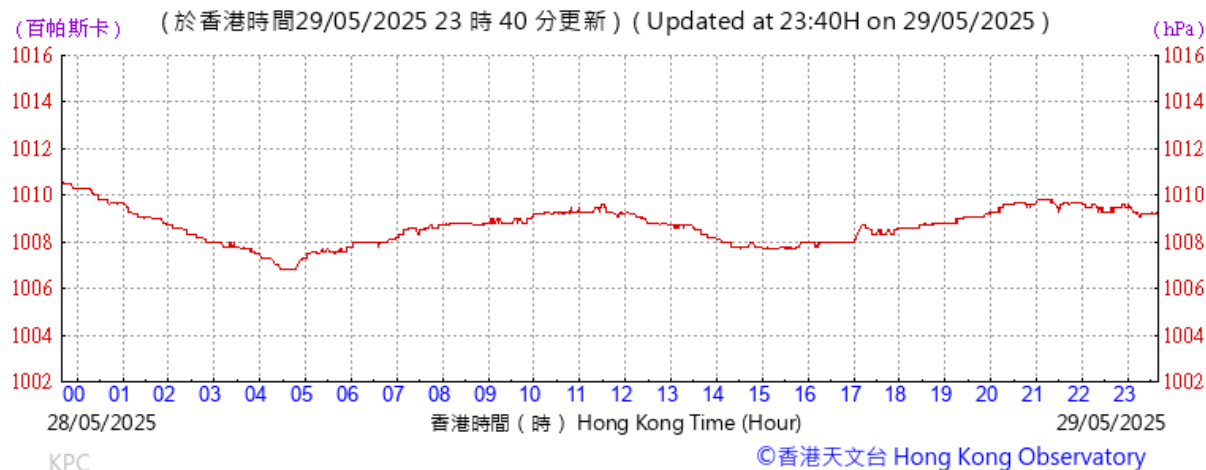
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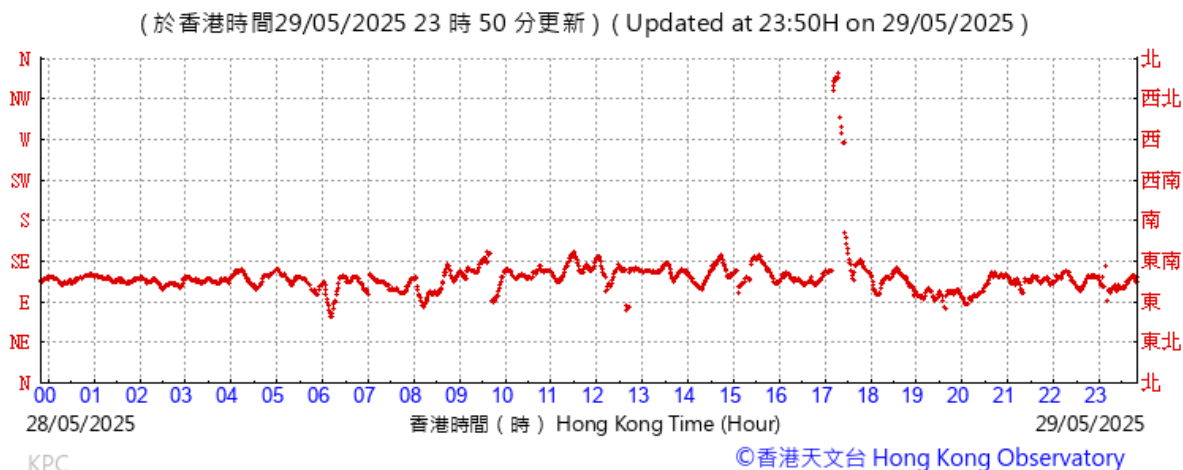
Temperature/Humidity:



Pressure:



Wind Direction:

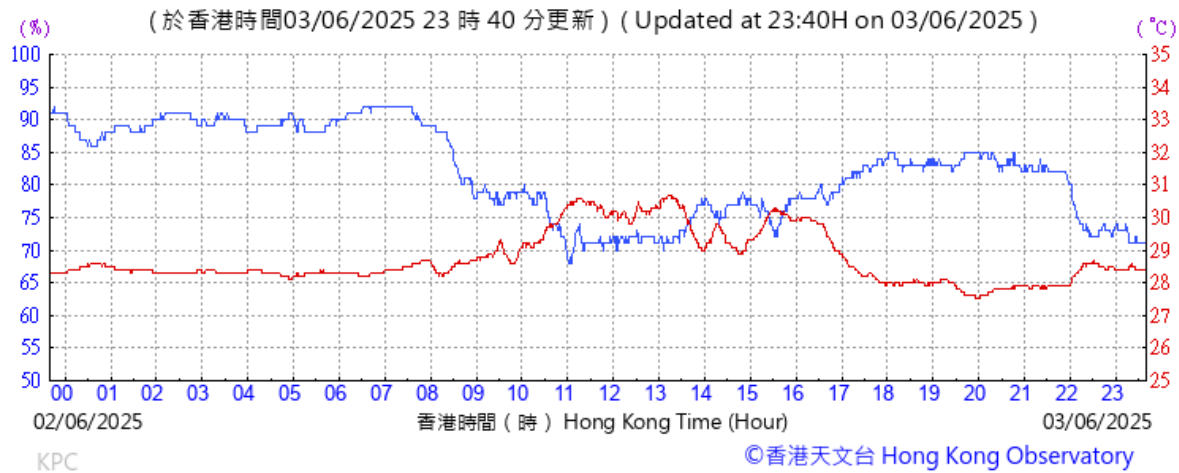


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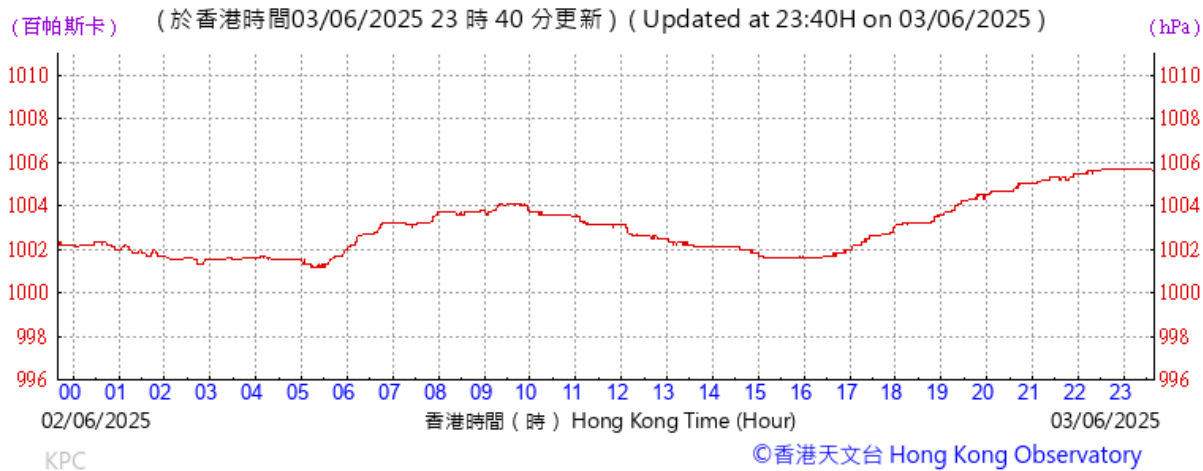




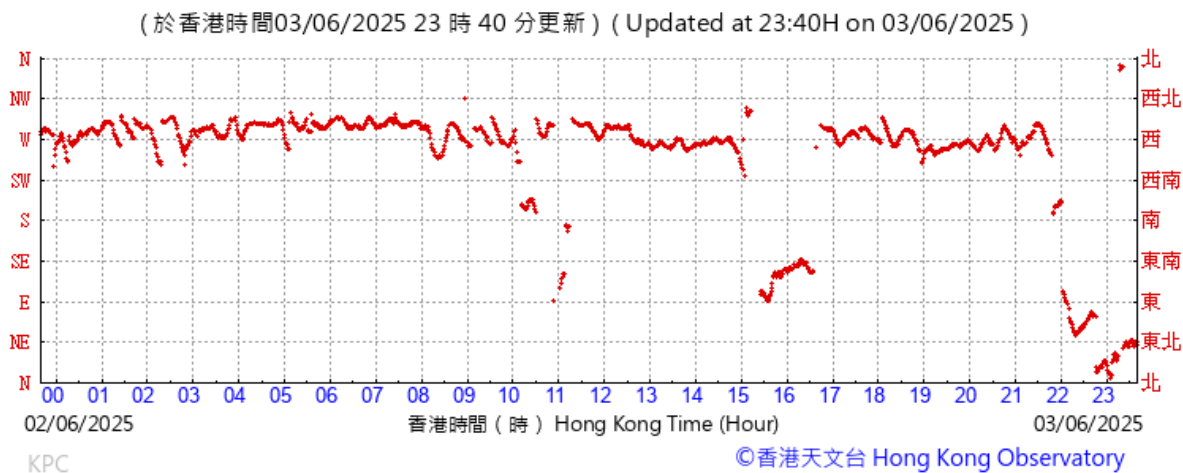
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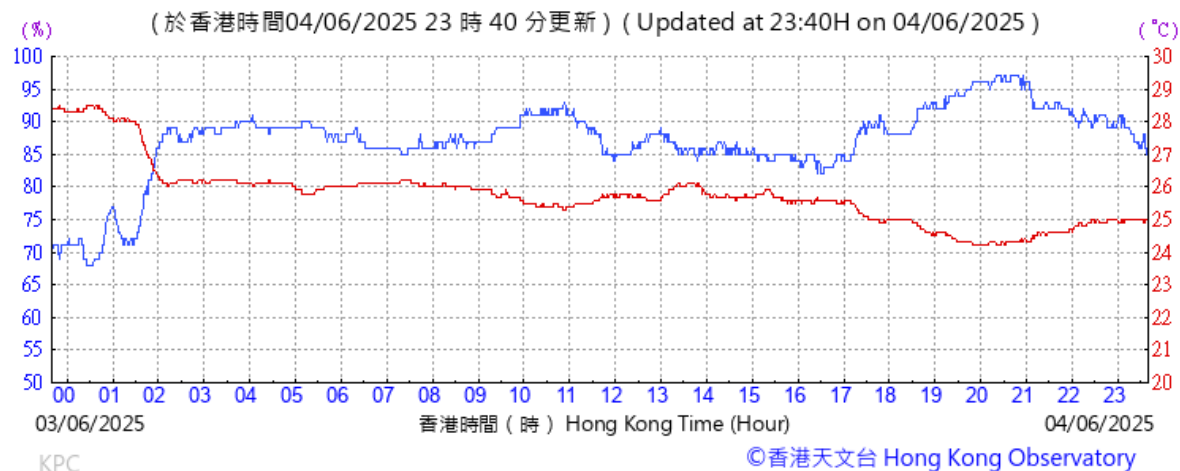
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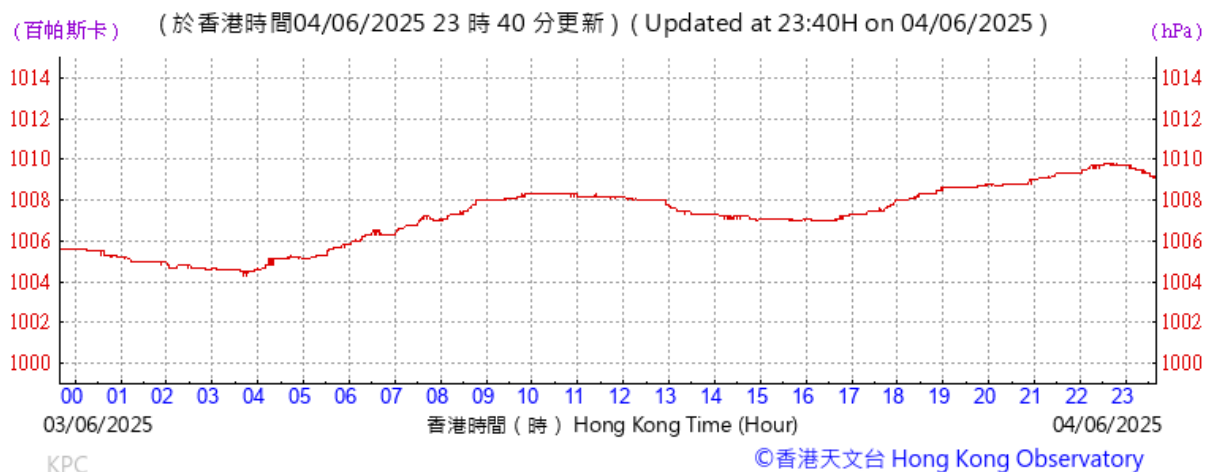
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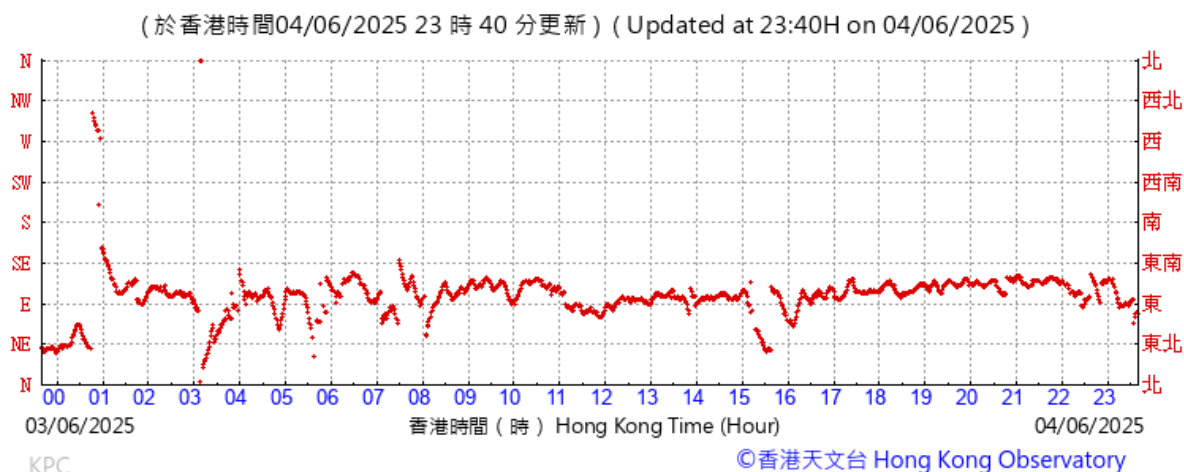
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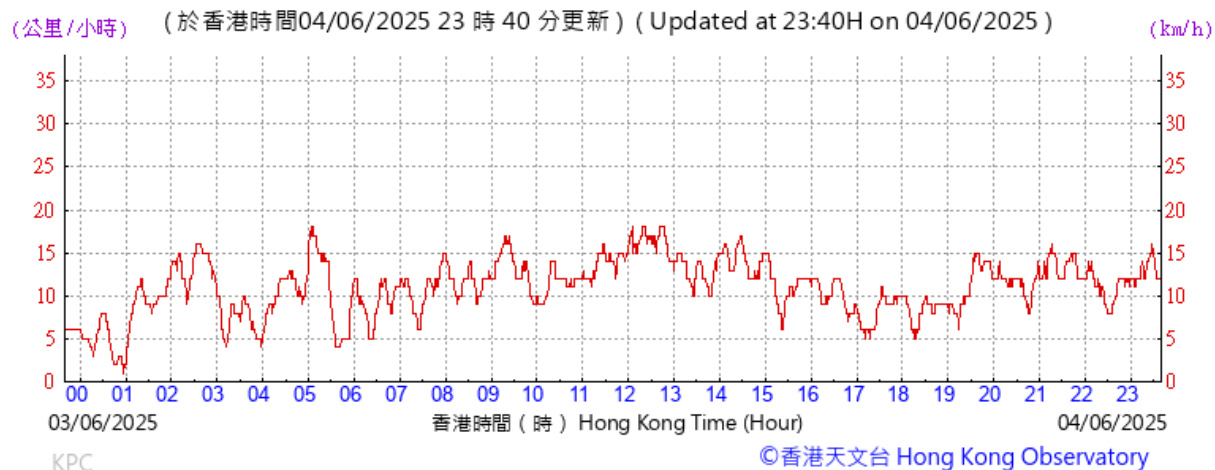
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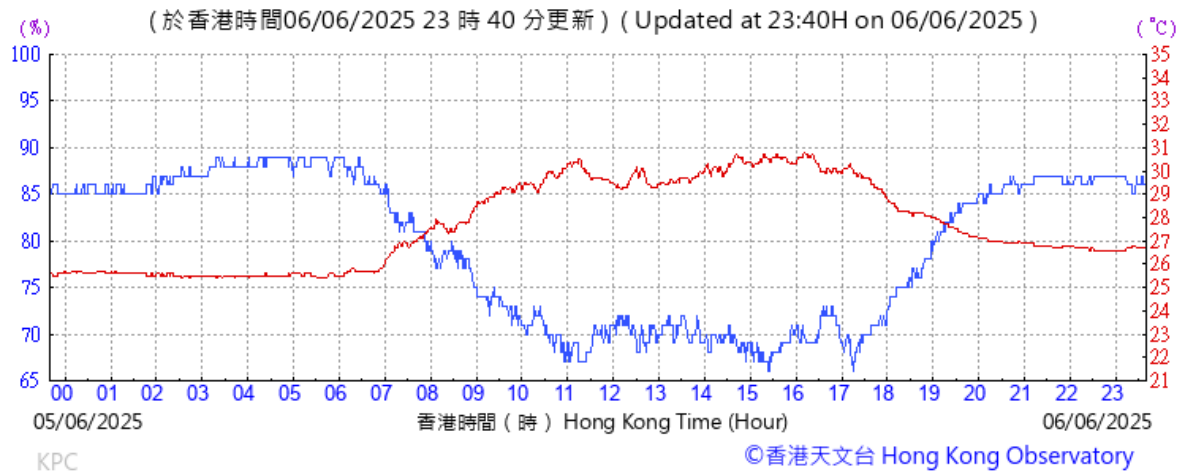
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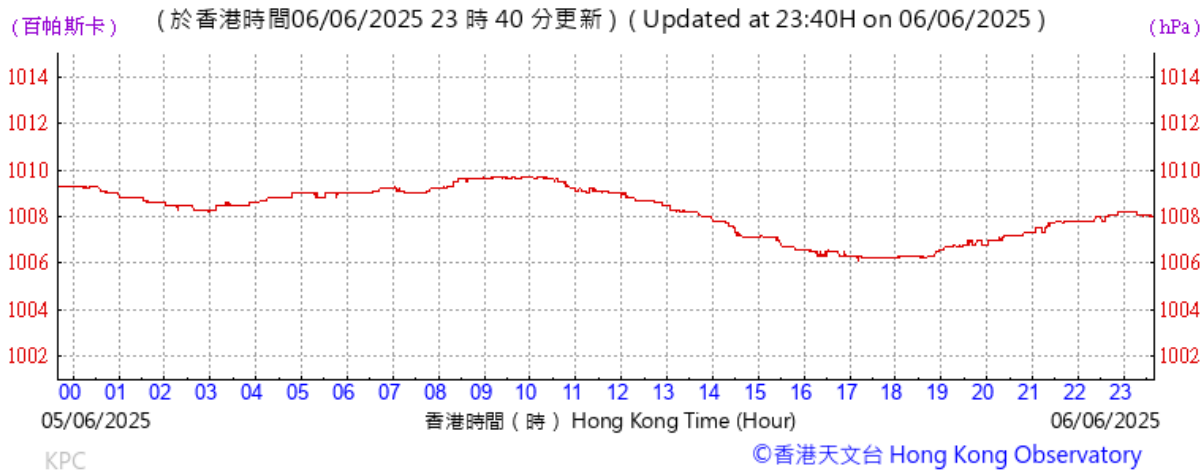
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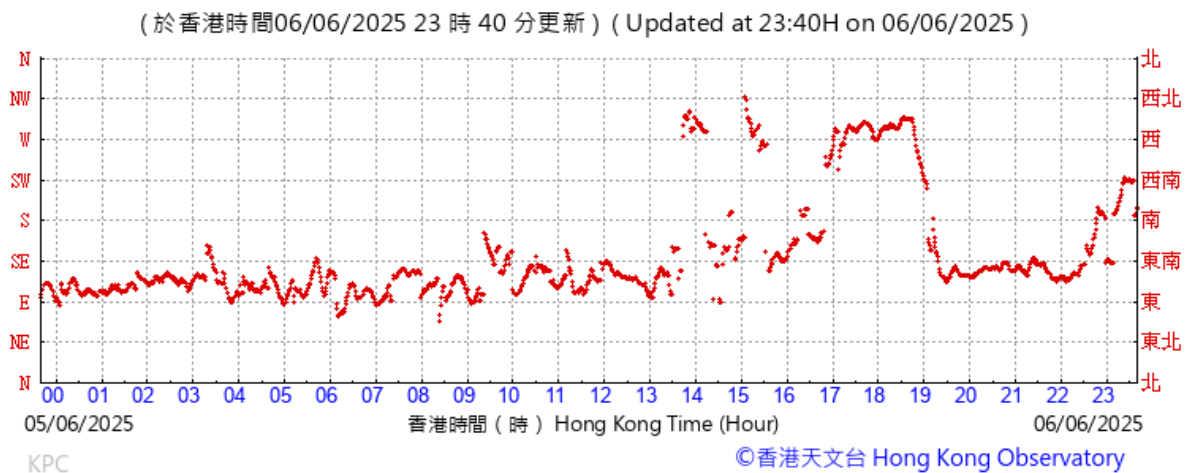
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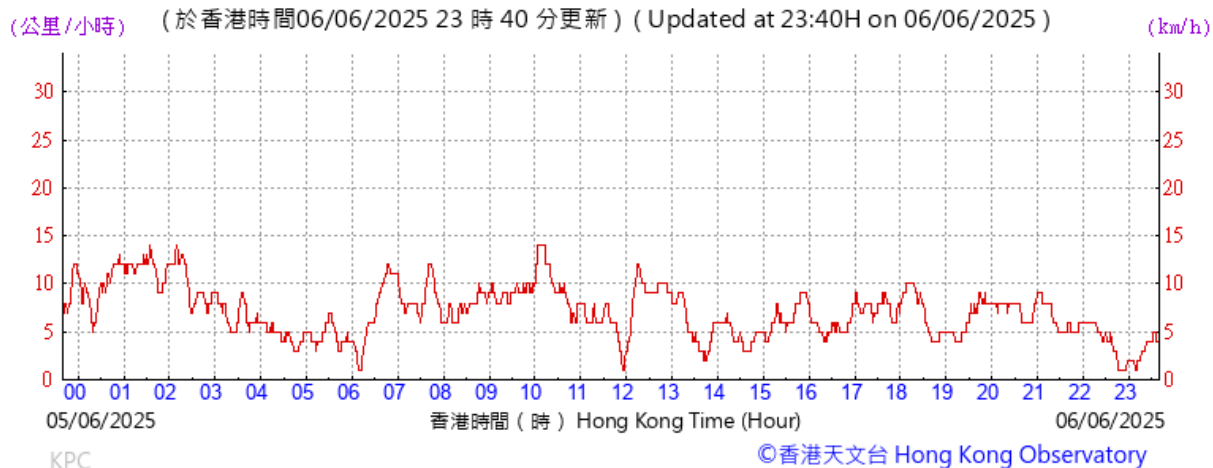
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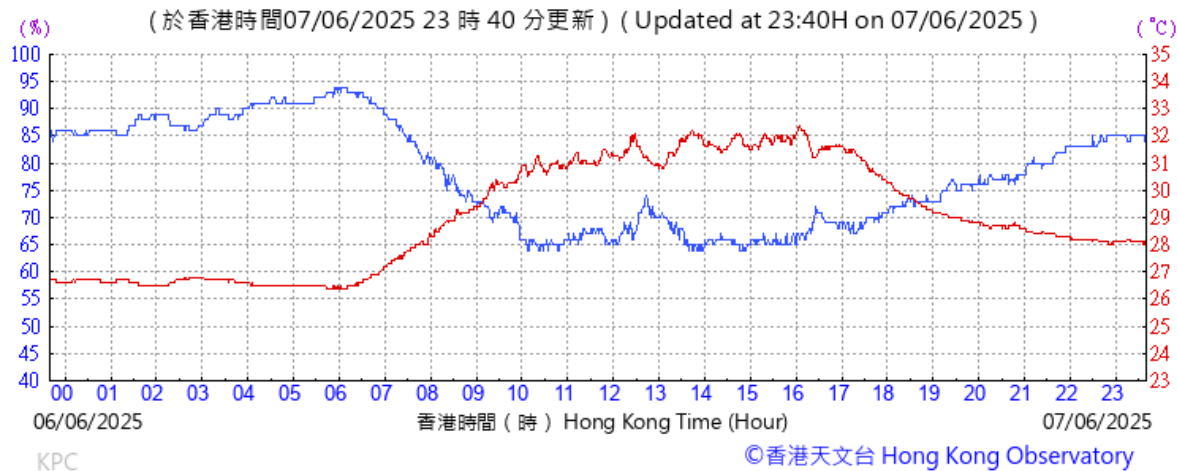
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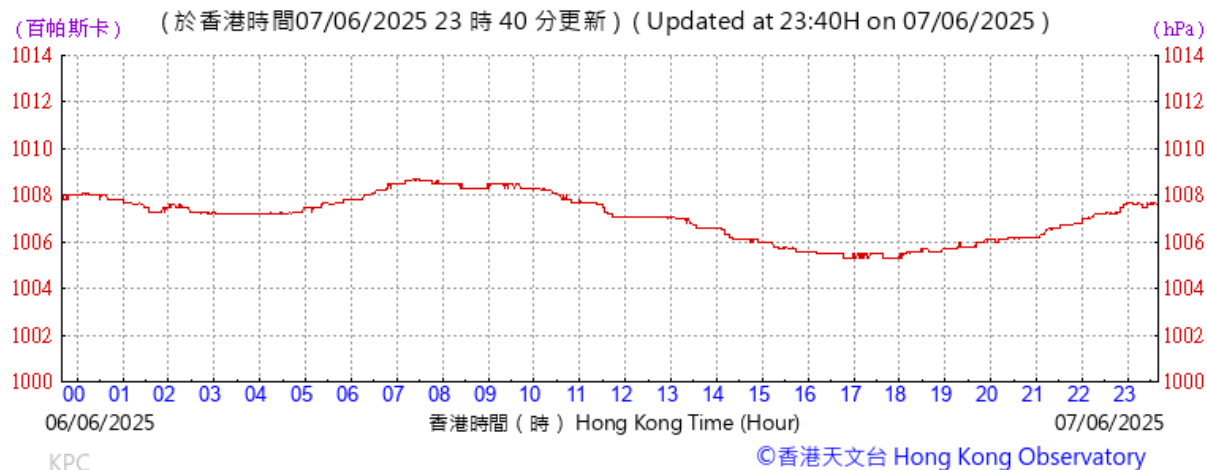
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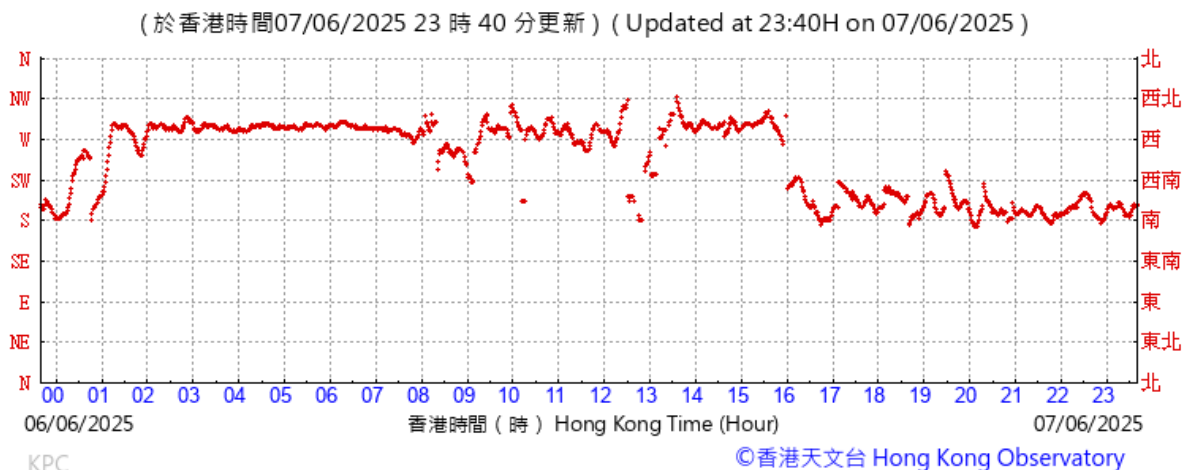
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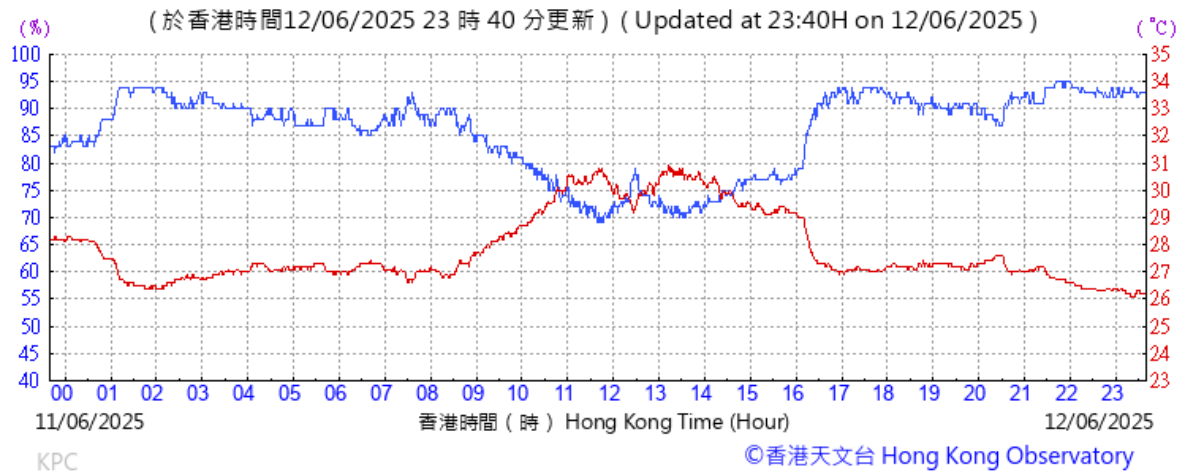
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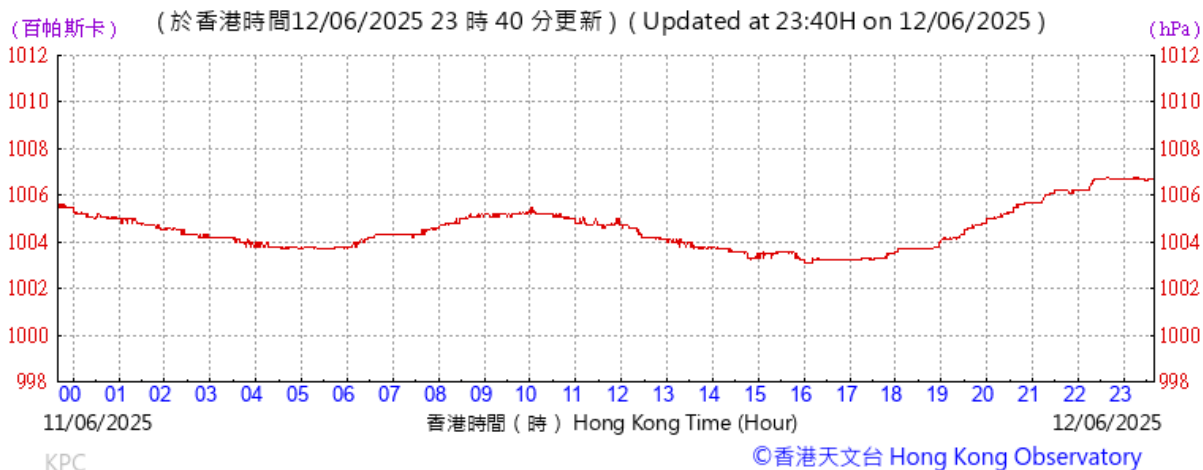
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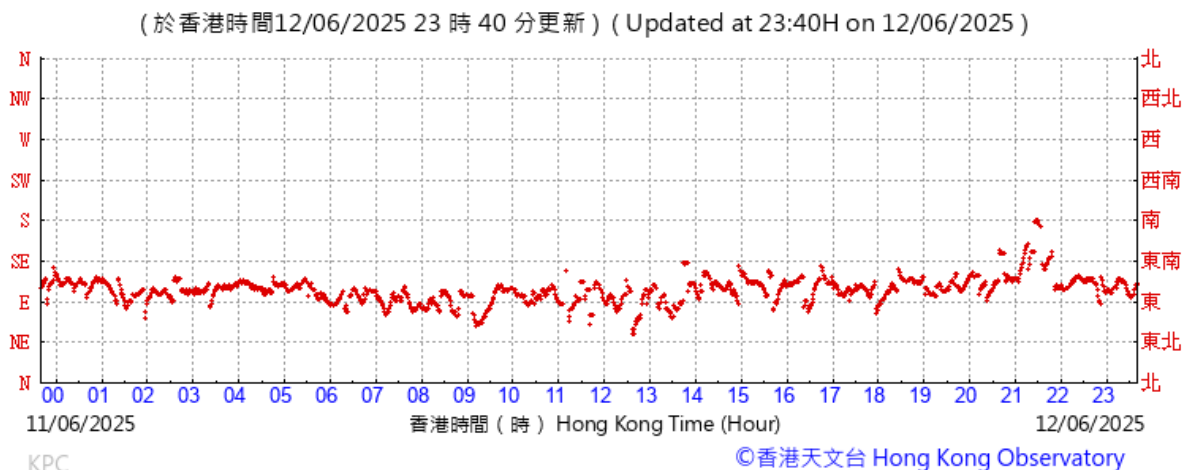
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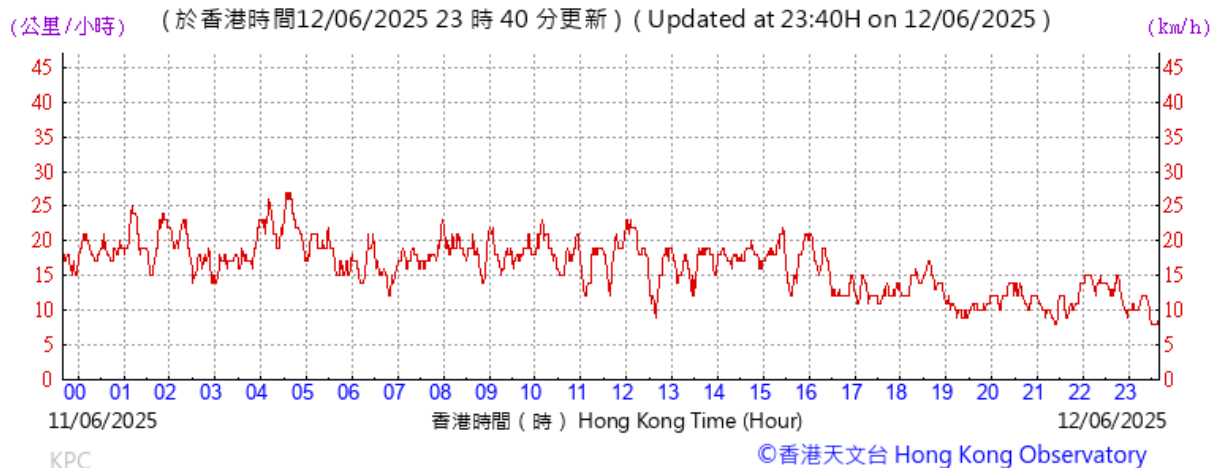
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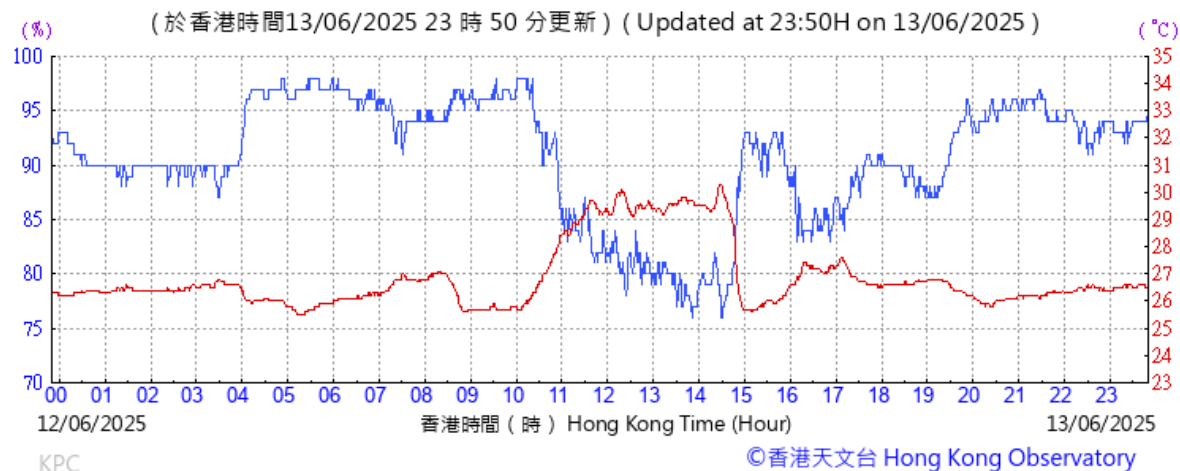


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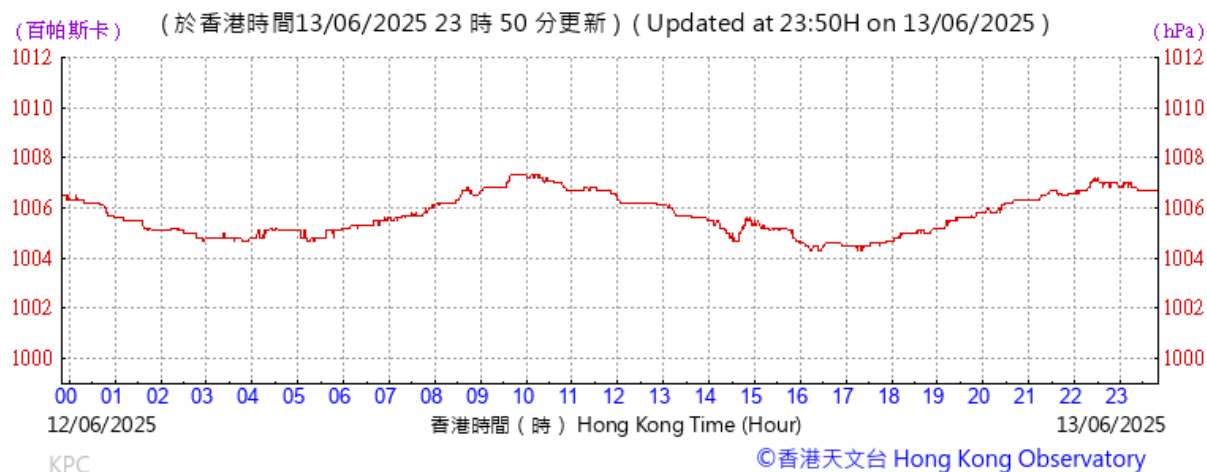




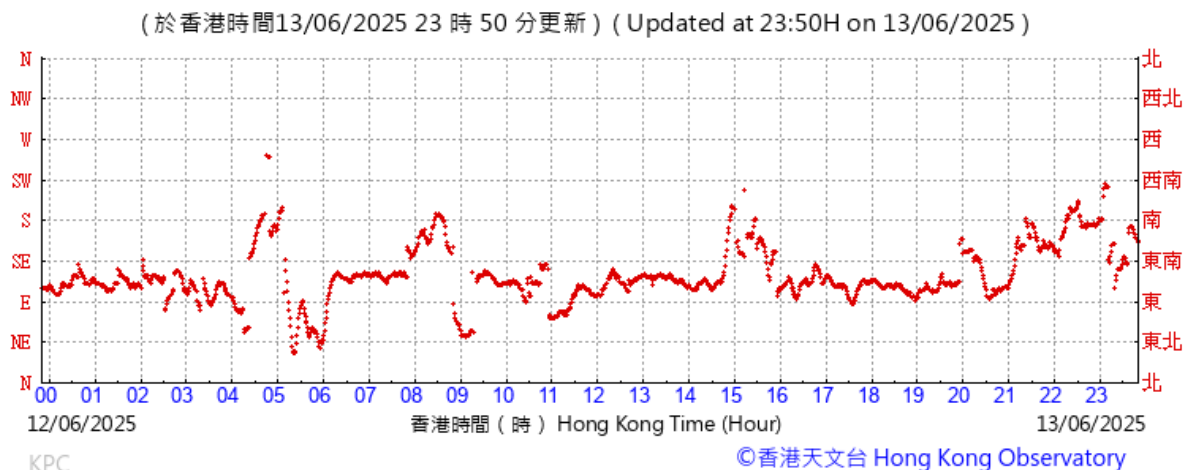
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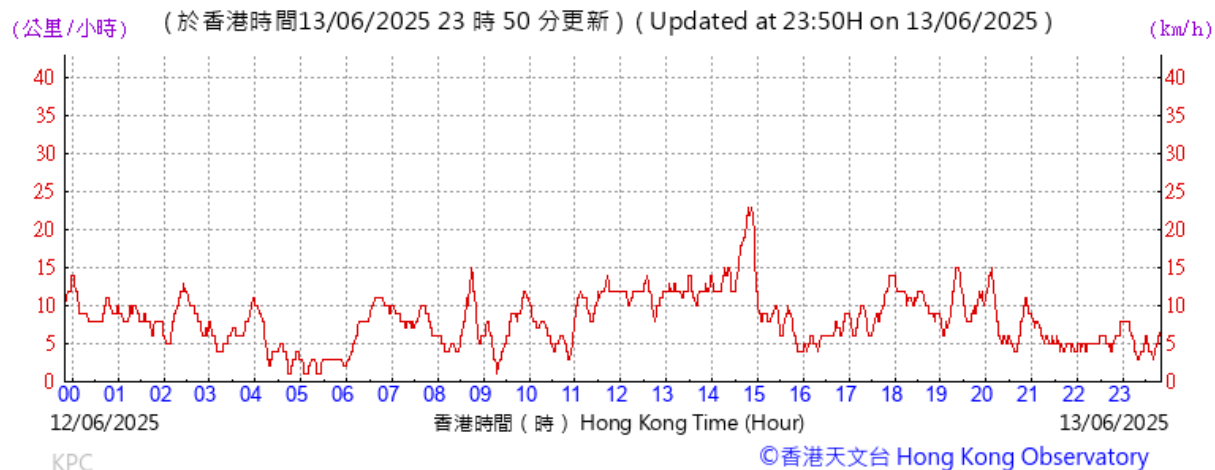
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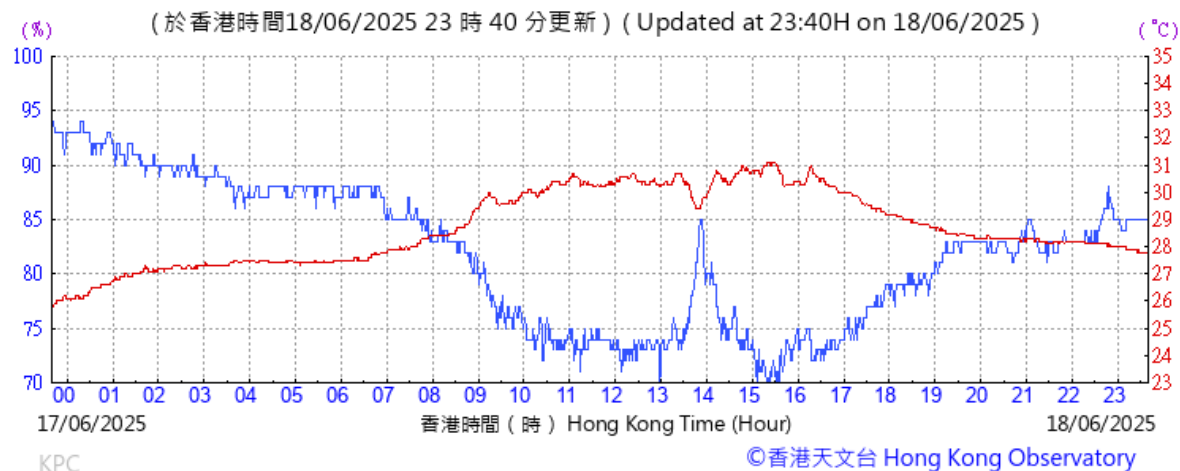
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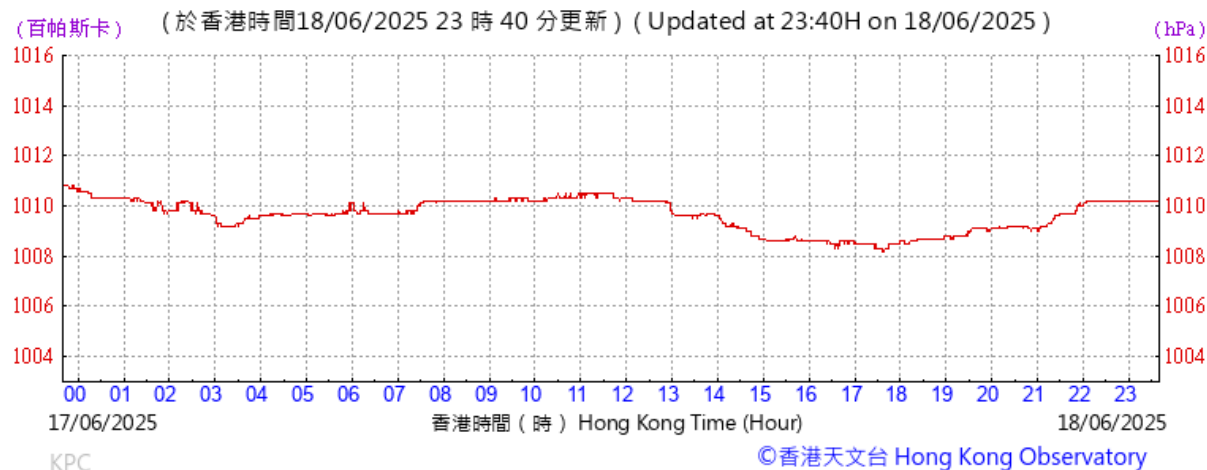
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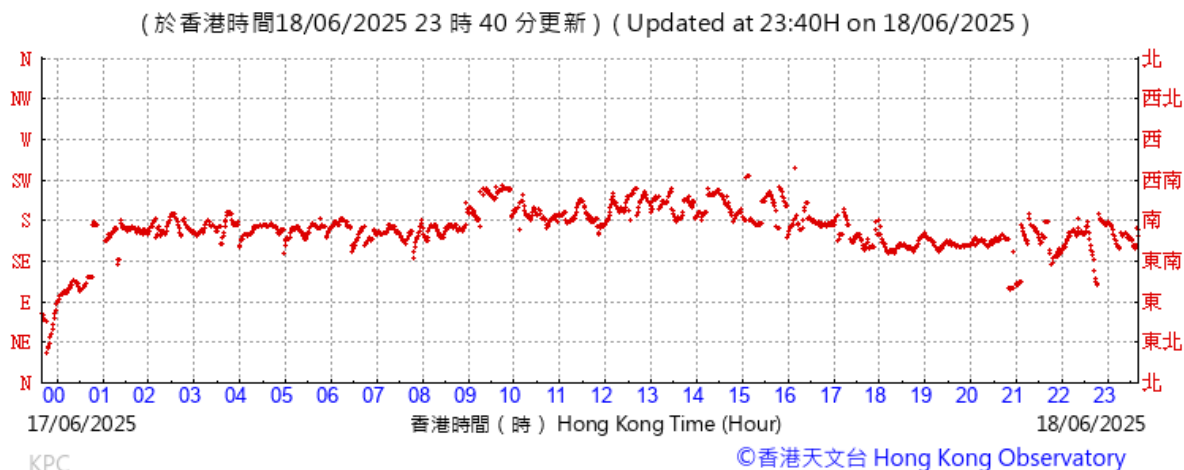
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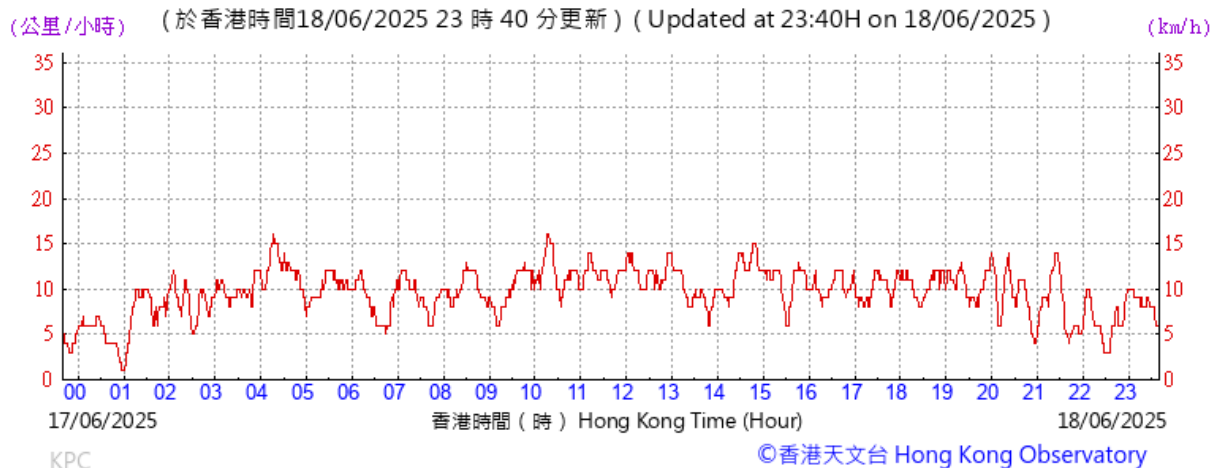
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Wind Direction:

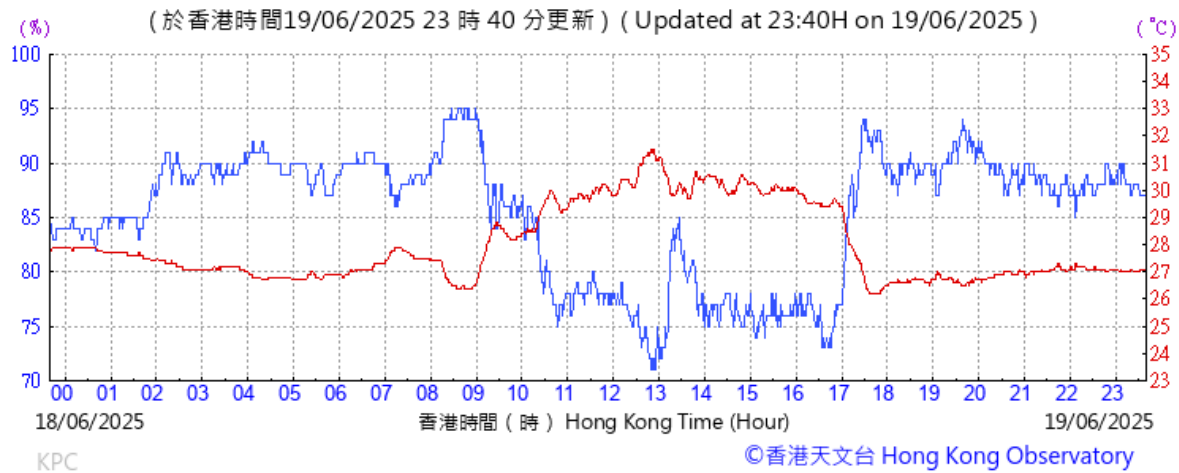


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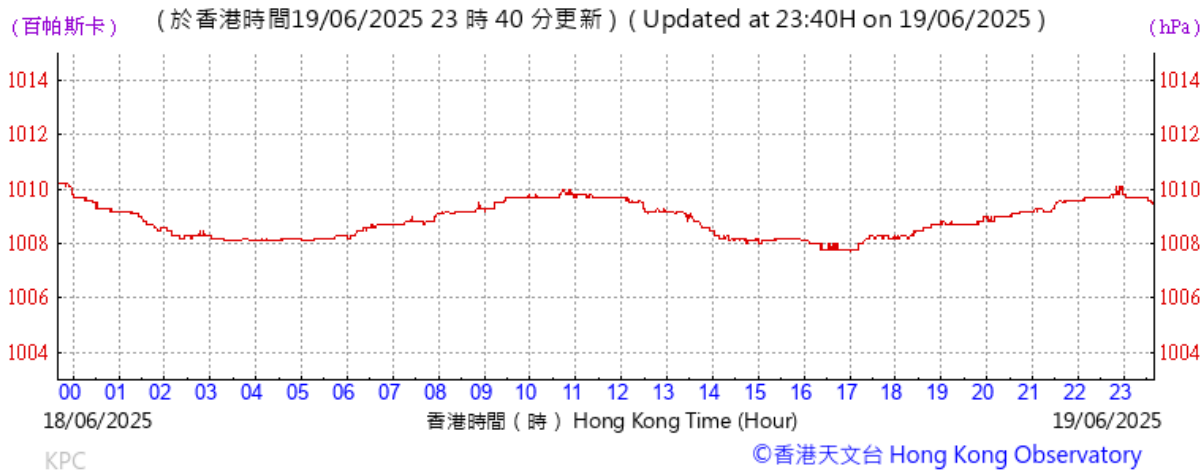




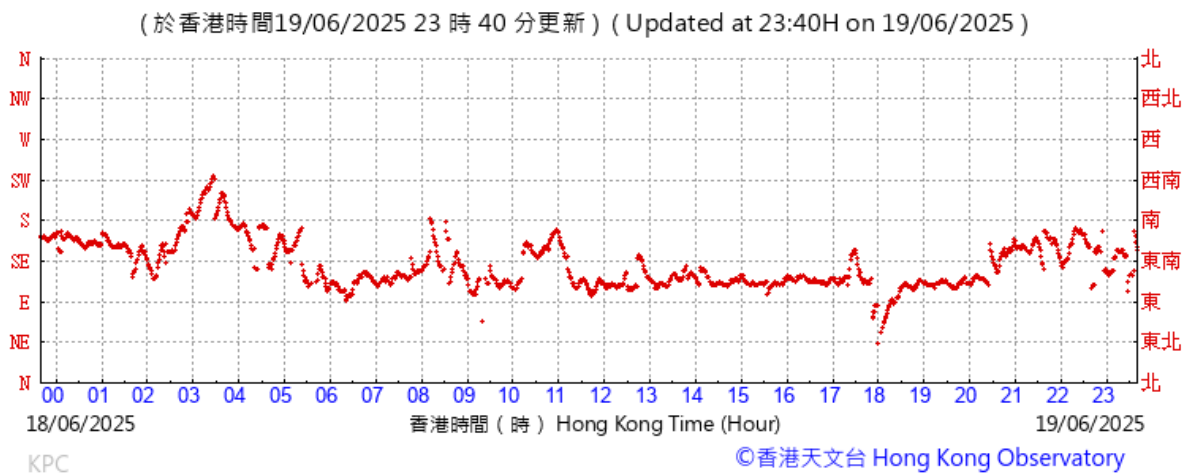
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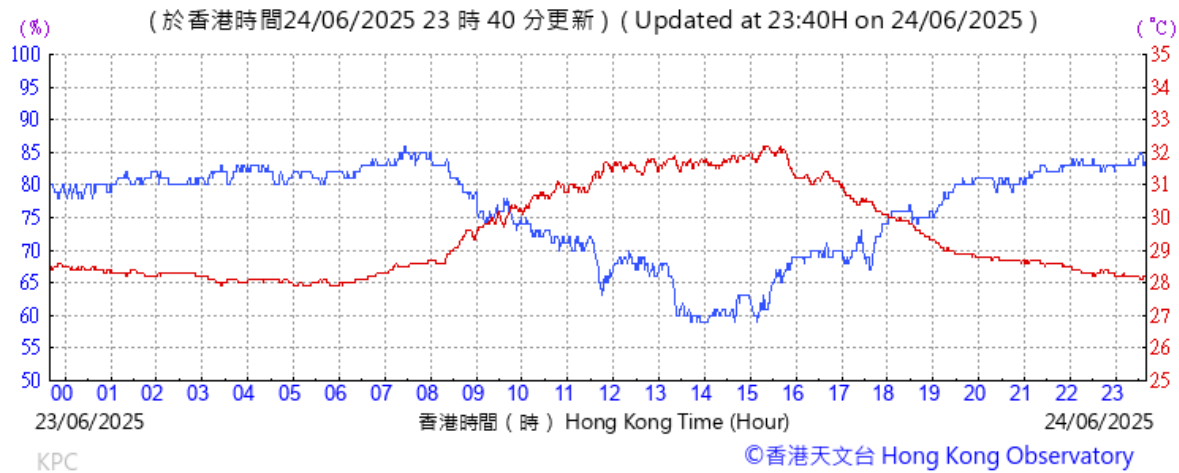
Wind Direction:



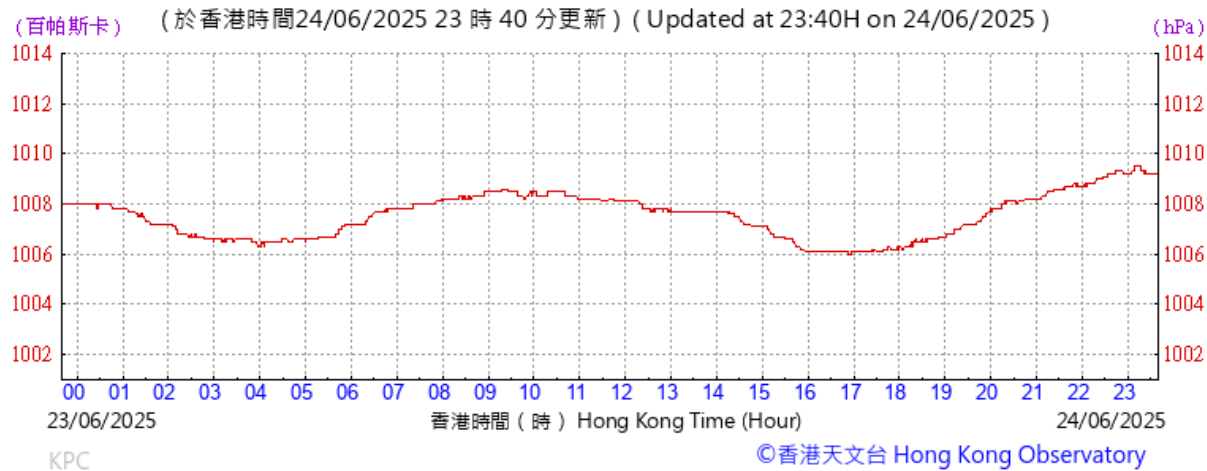
Wind Speed:



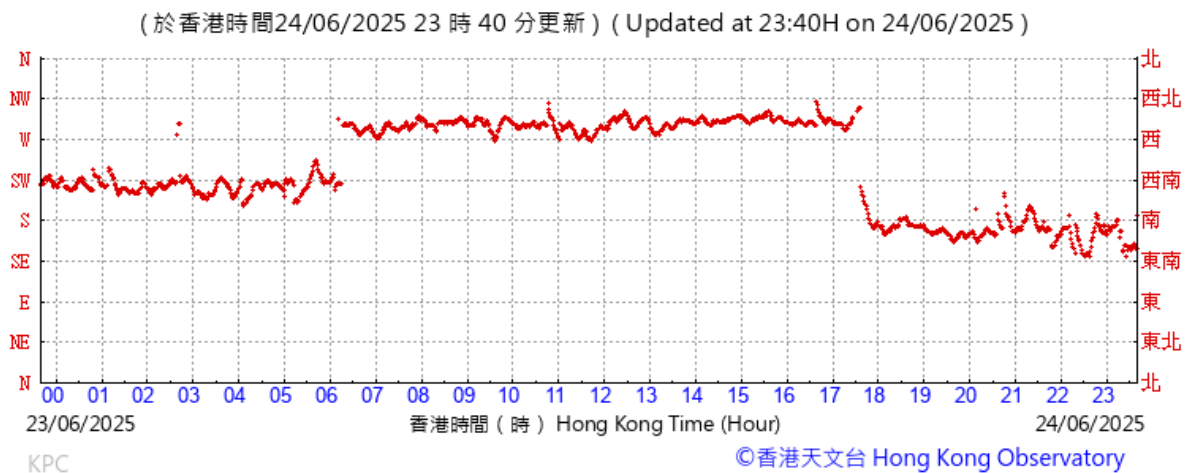
Temperature/Humidity:



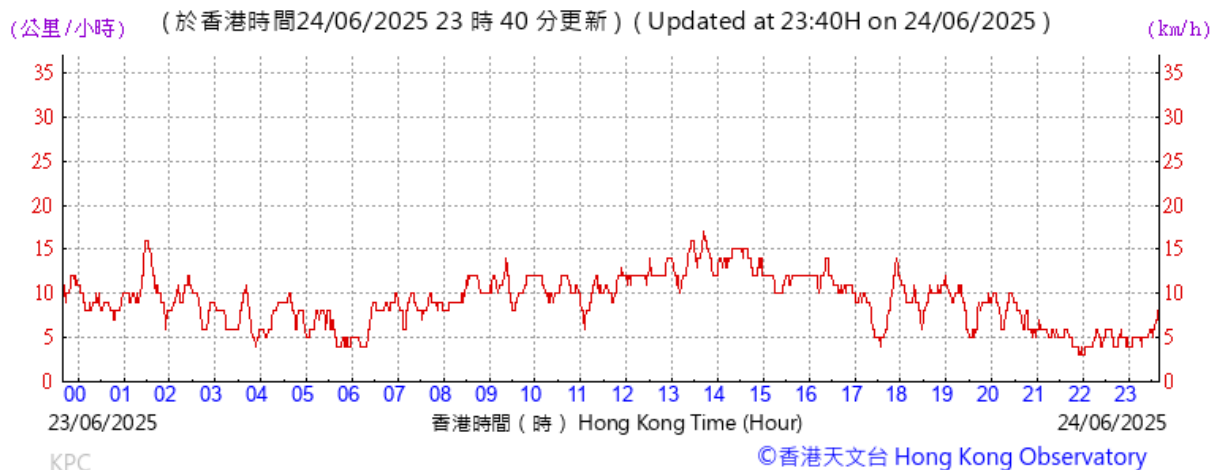
Pressure:



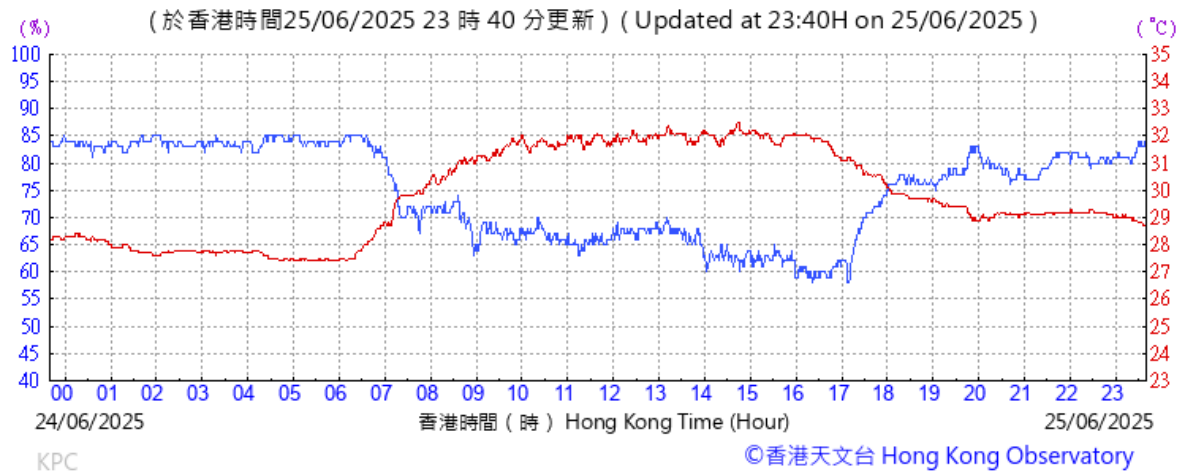
Wind Direction:



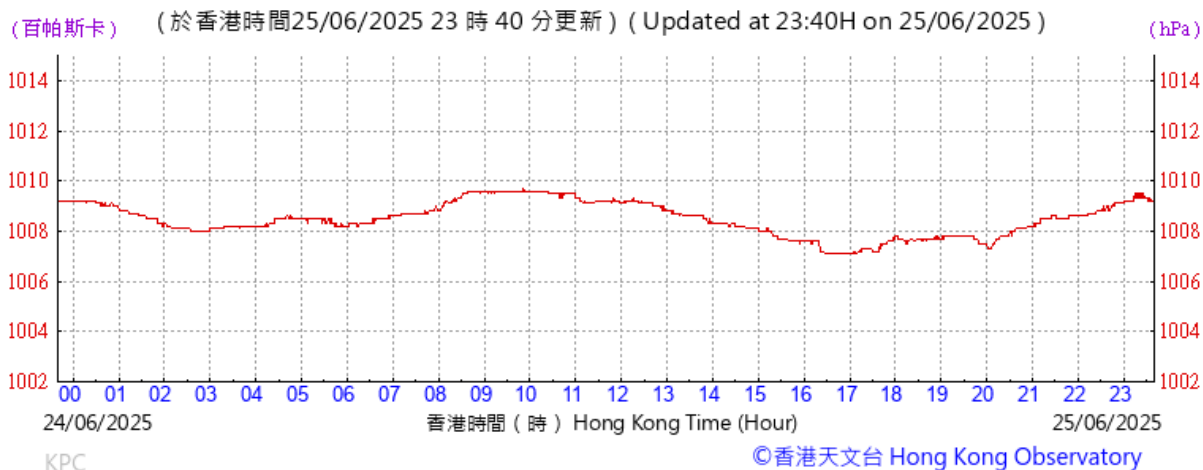
Wind Speed:



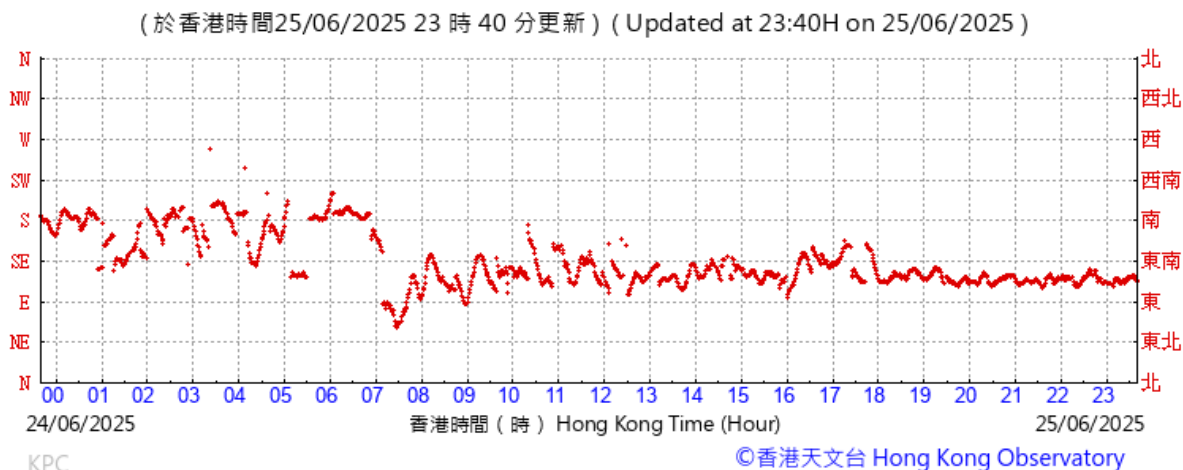
Tempearture/Humidity:



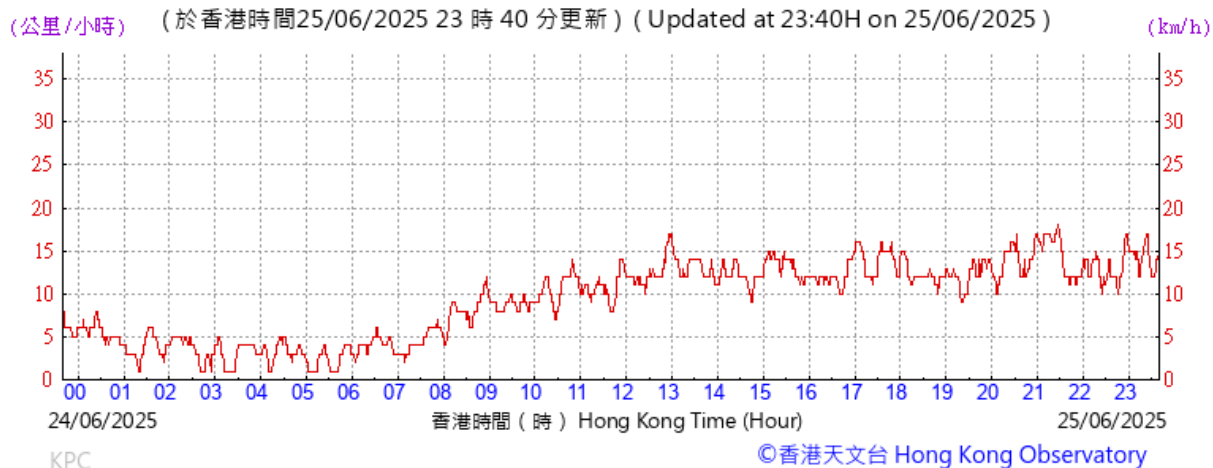
Pressure:



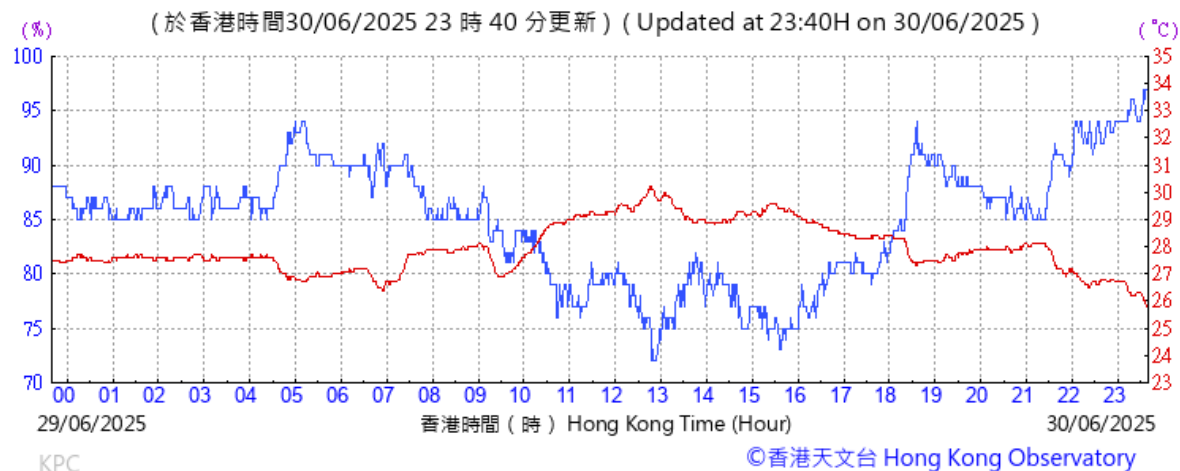
Wind Direction:



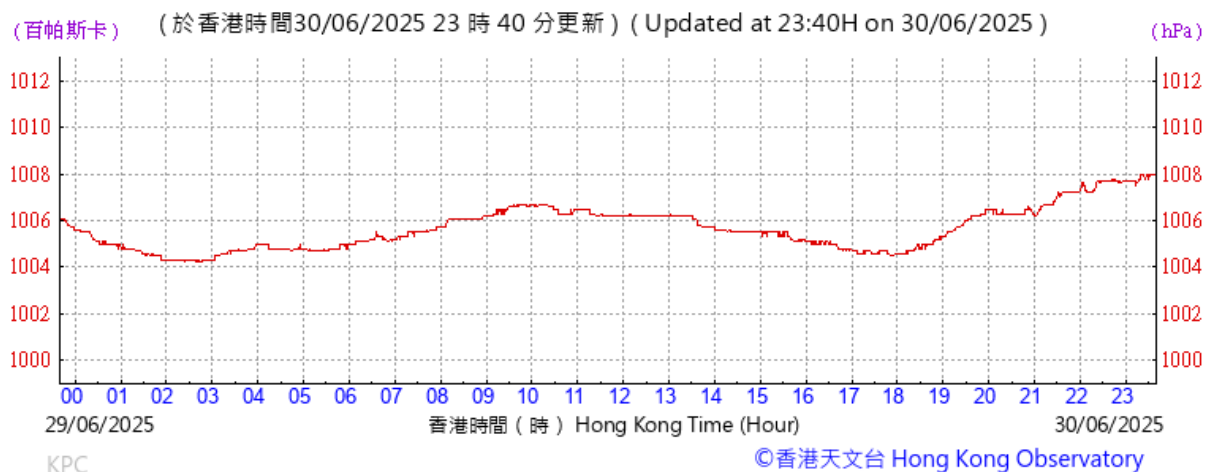
Wind Speed:



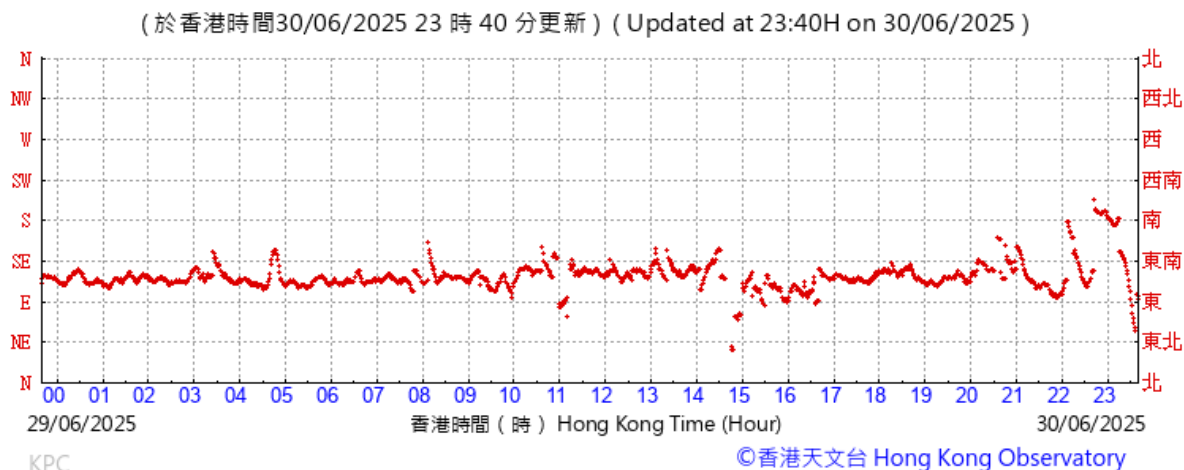
Temperature/Humidity:



Pressure:



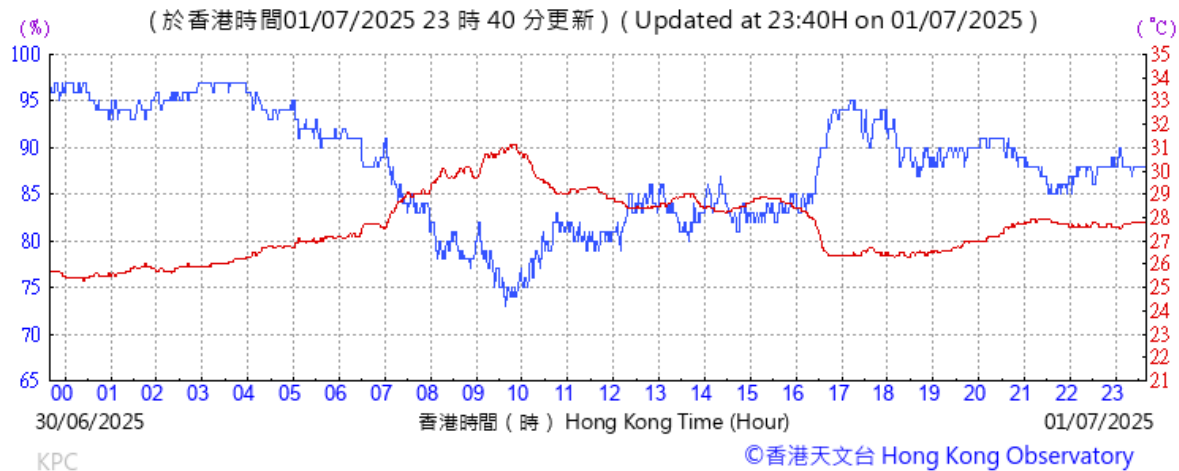
Wind Direction:



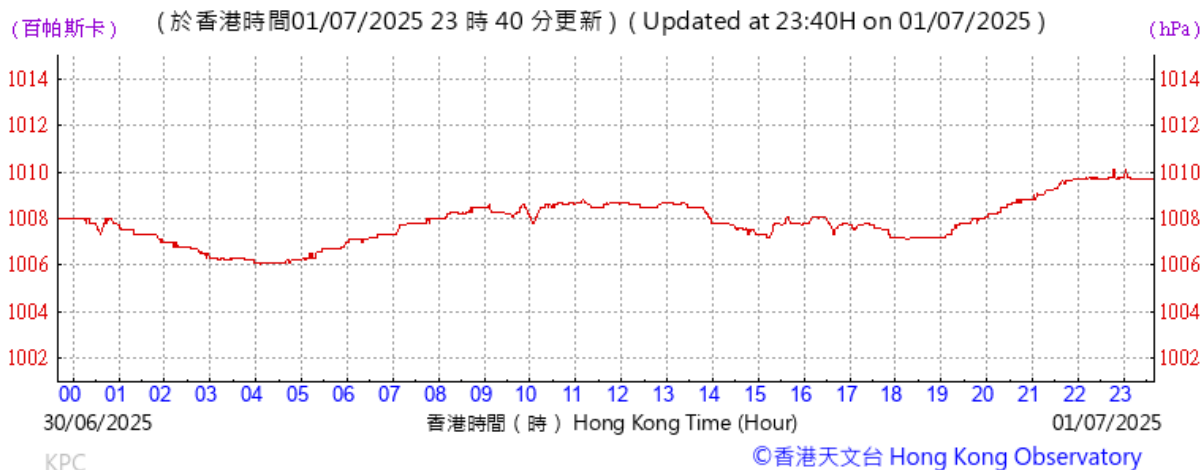
Wind Speed:



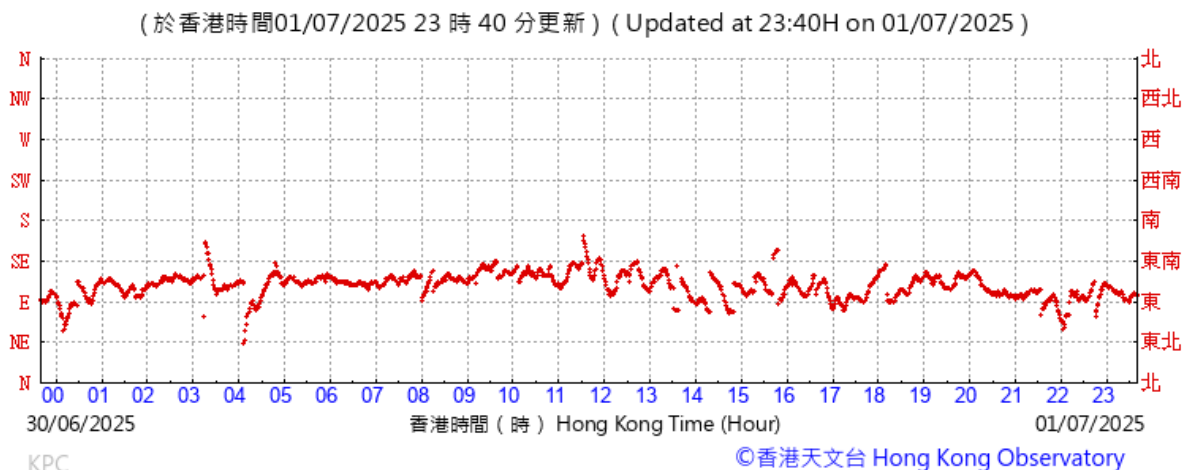
Tempearture/Humidity:



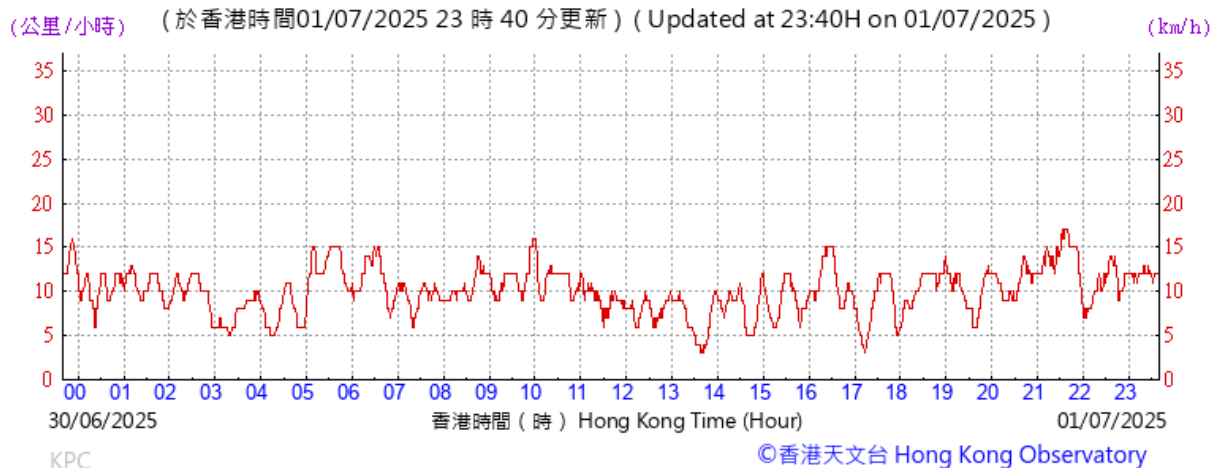
Pressure:



Wind Direction:

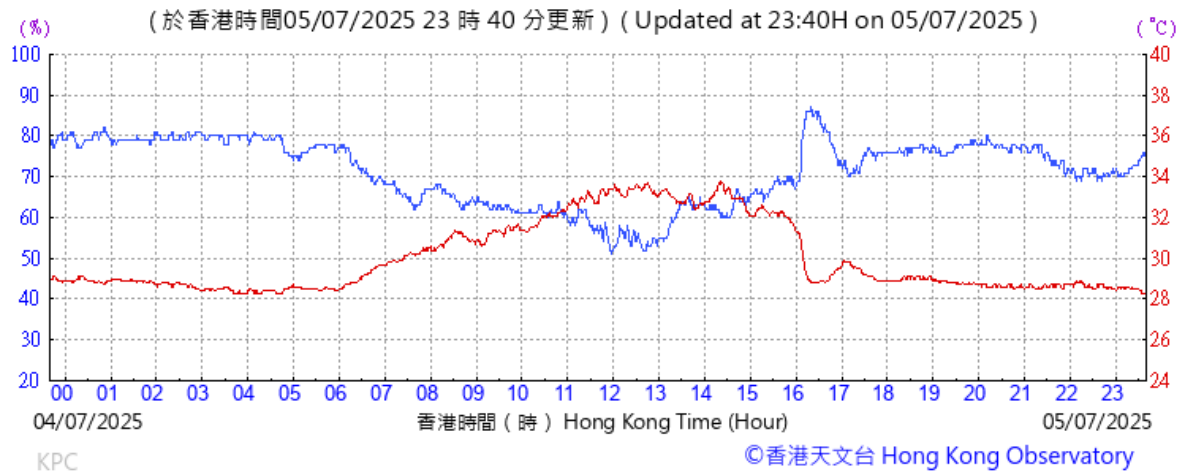


Wind Speed:

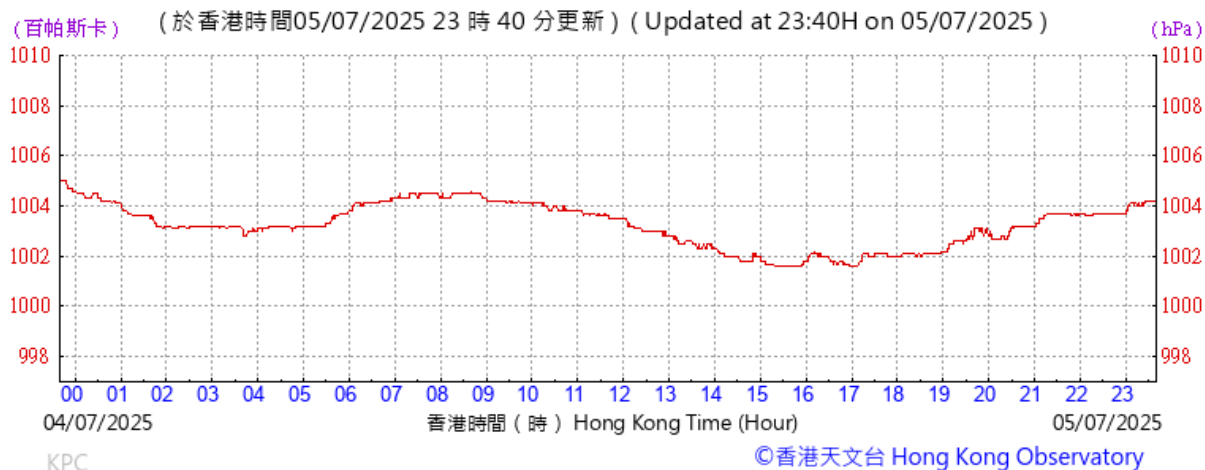




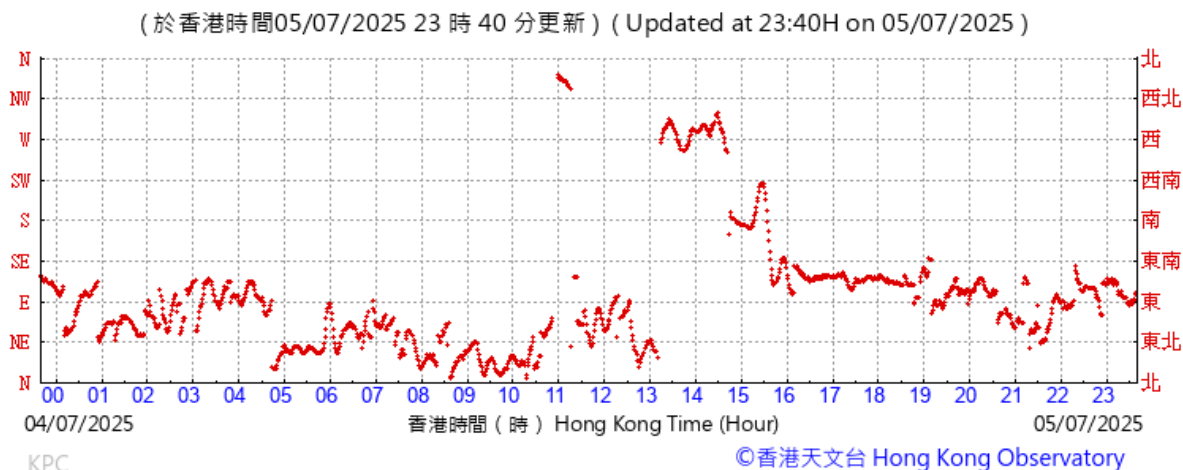
Tempearture/Humidity:



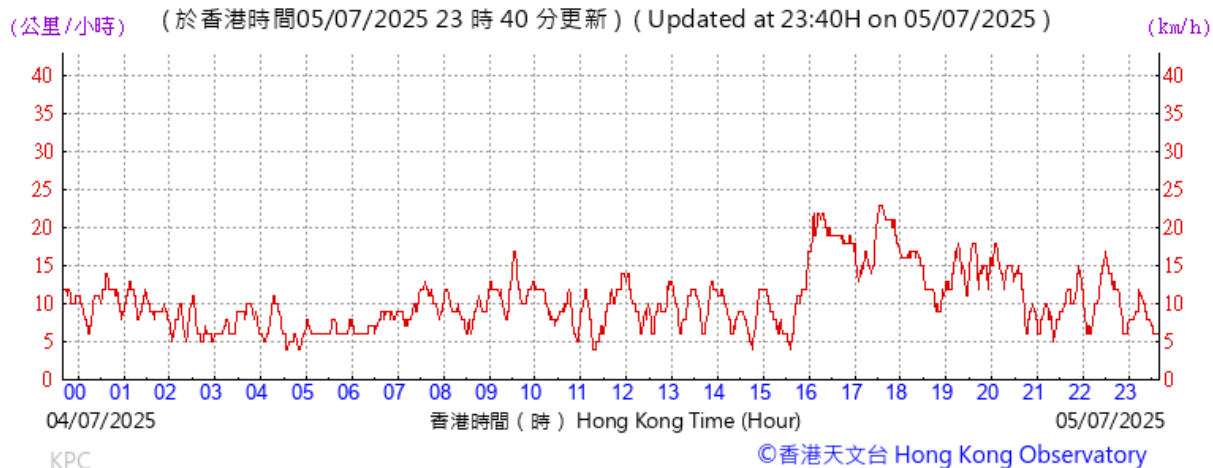
Pressure:



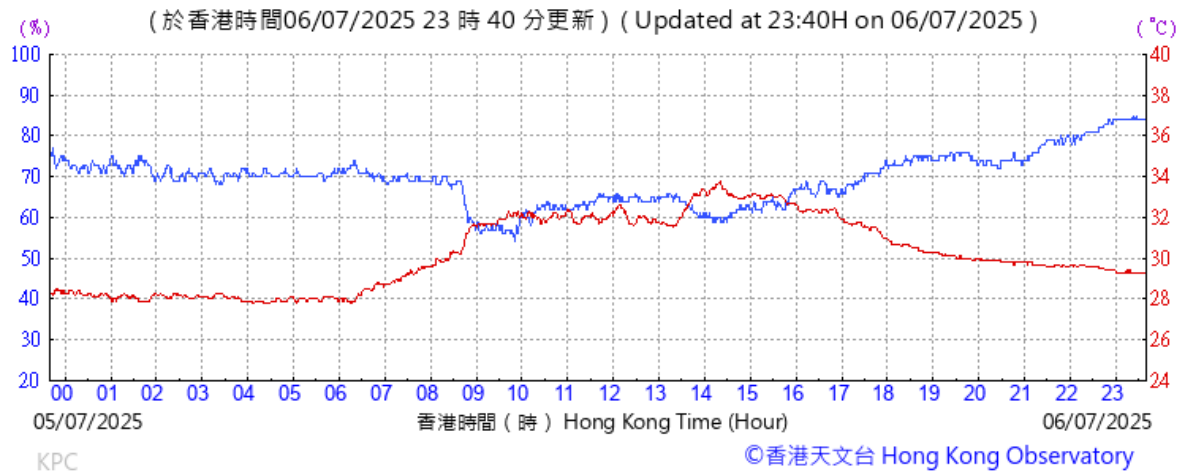
Wind Direction:



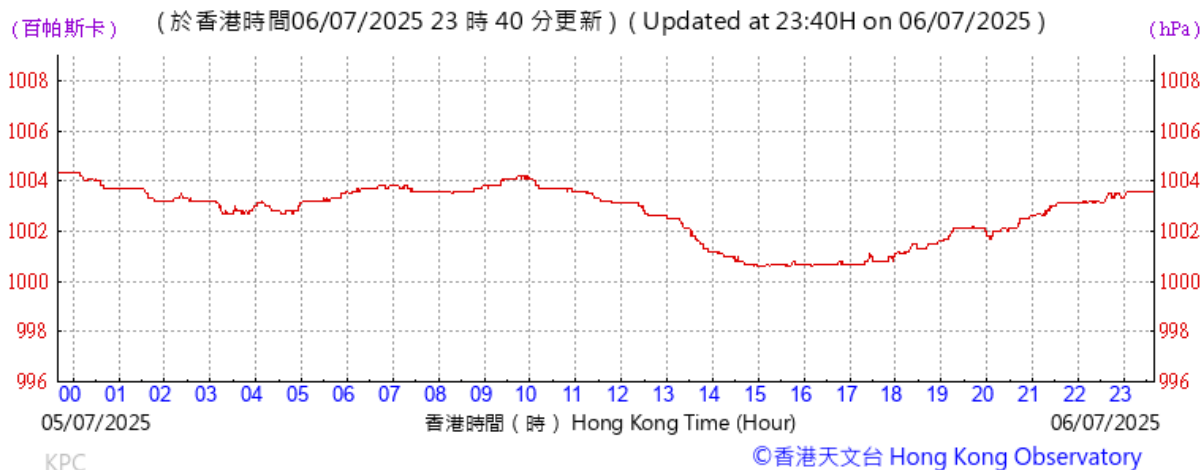
Wind Speed:



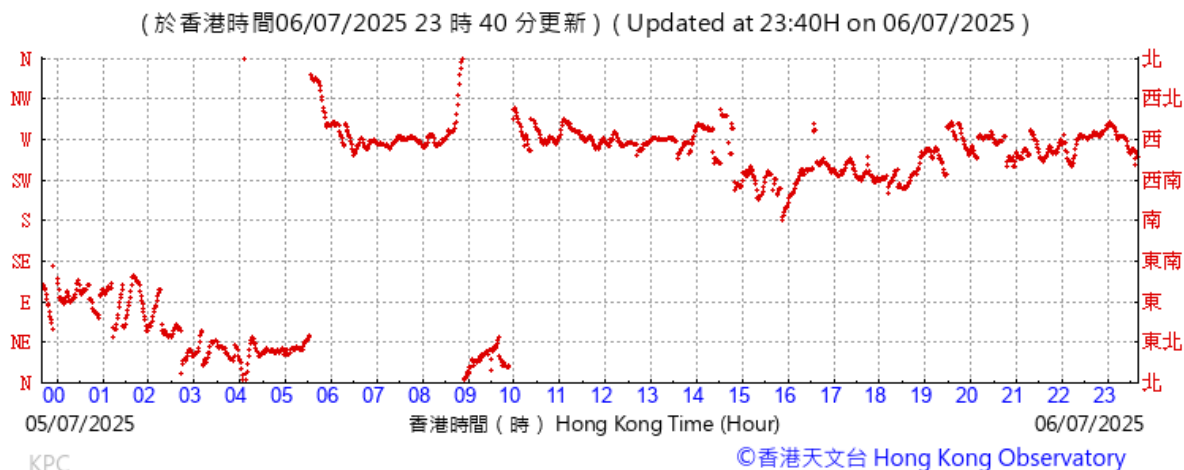
Temperature/Humidity:



Pressure:



Wind Direction:

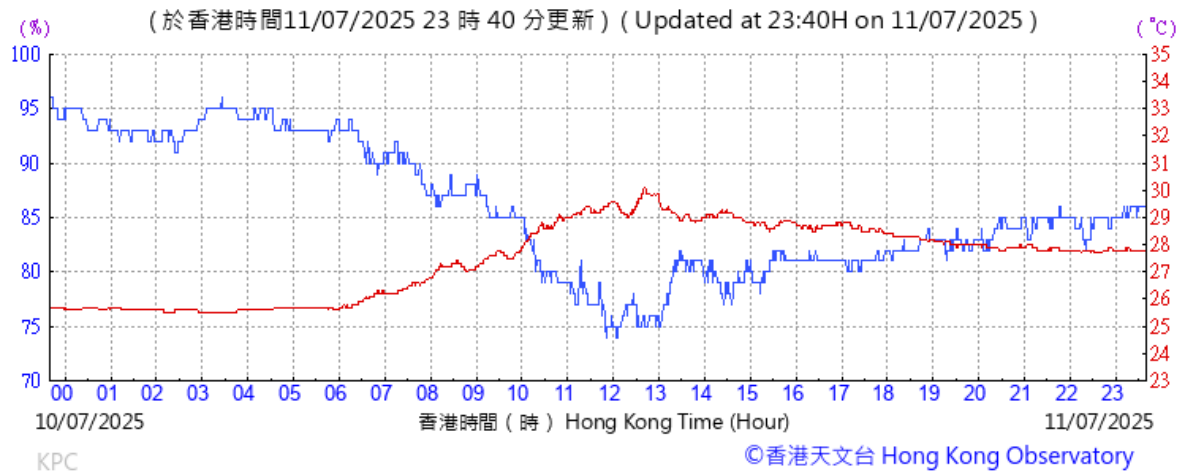


Wind Speed:

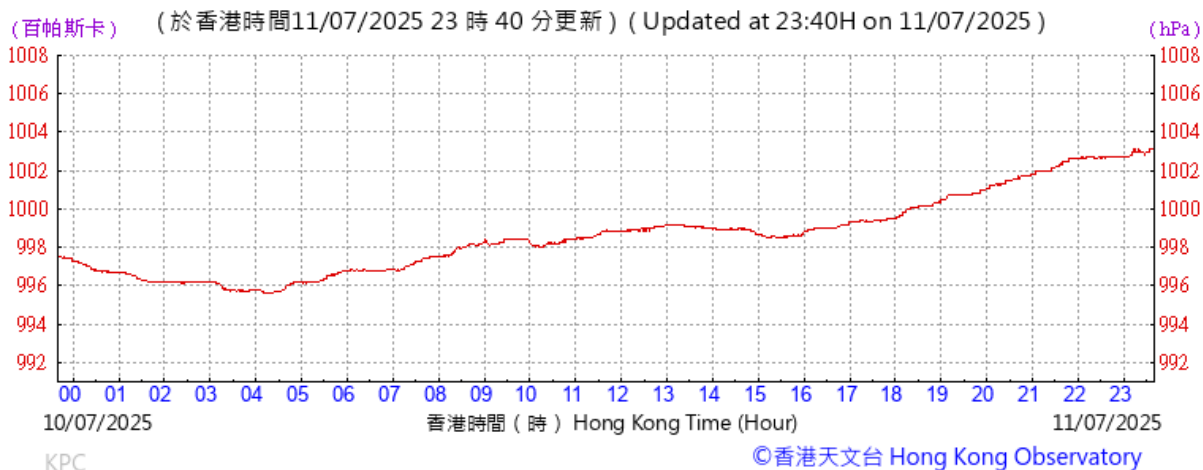




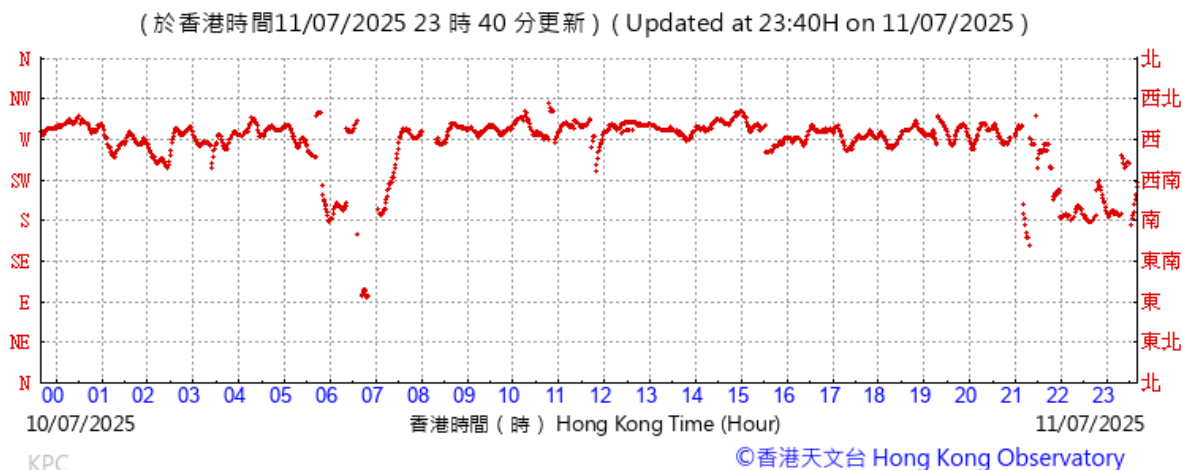
Temperature/Humidity:



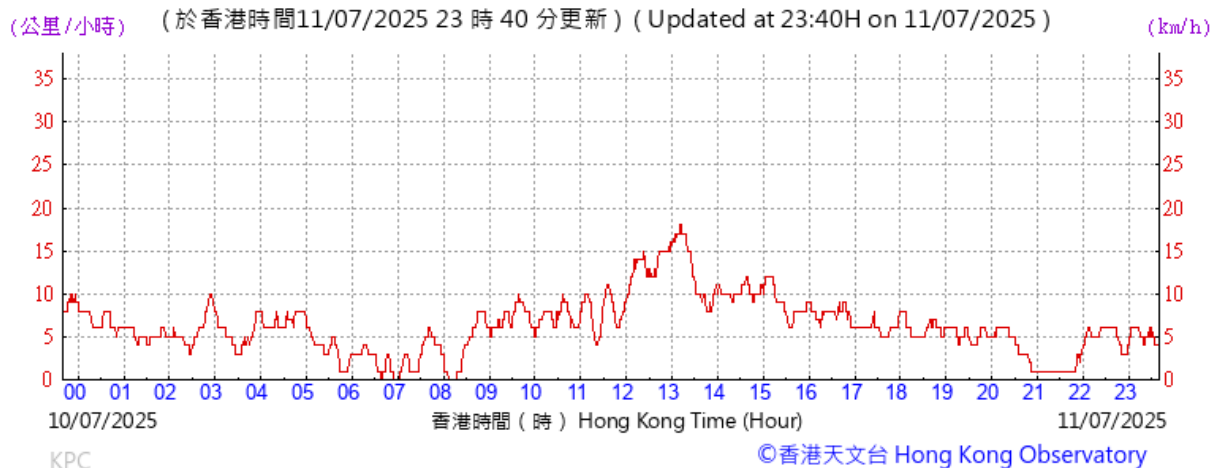
Pressure:



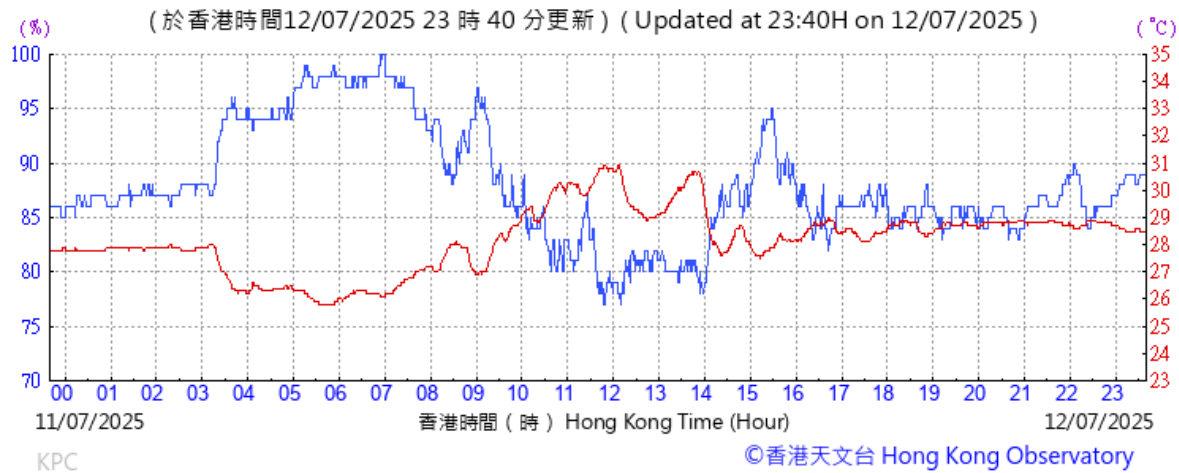
Wind Direction:



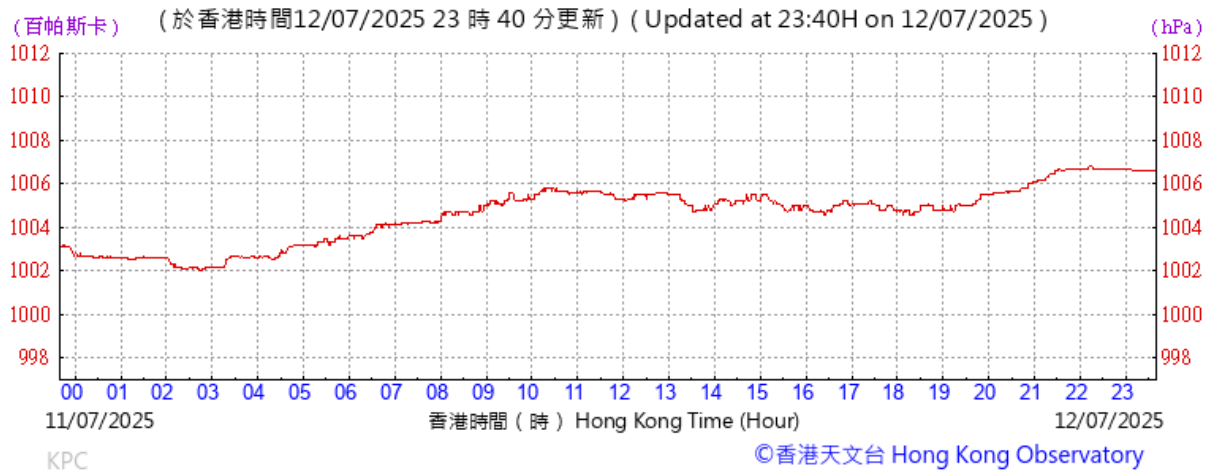
Wind Speed:



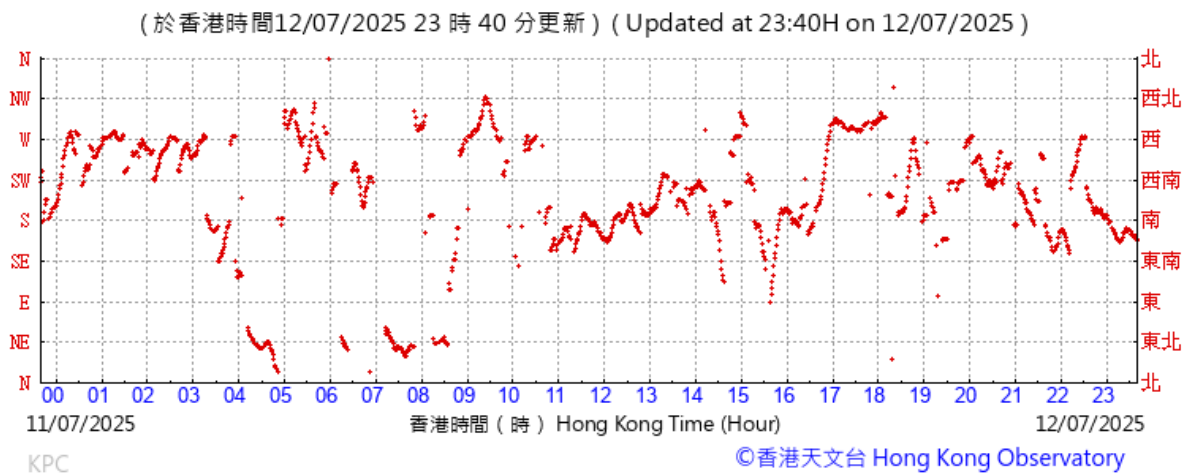
Temperature/Humidity:



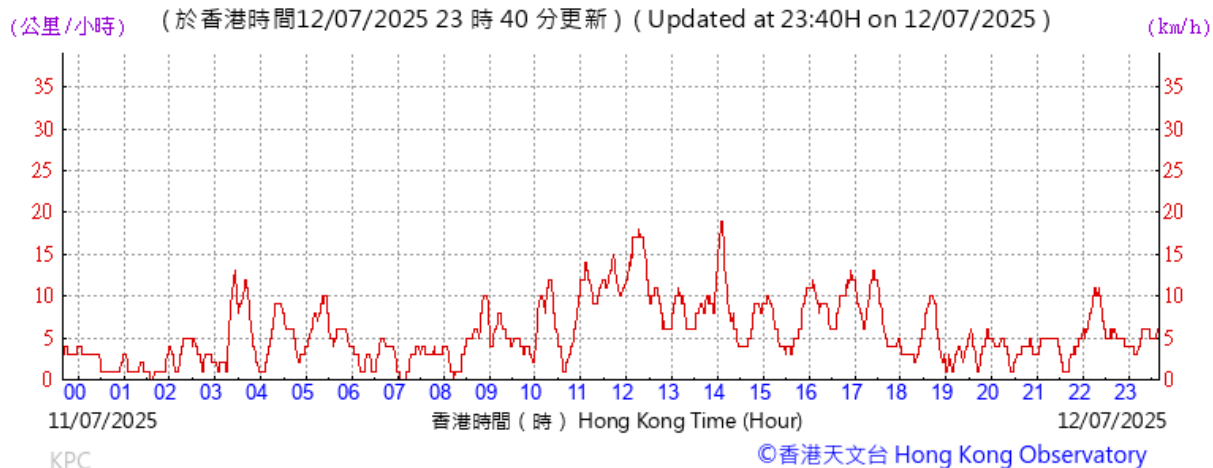
Pressure:



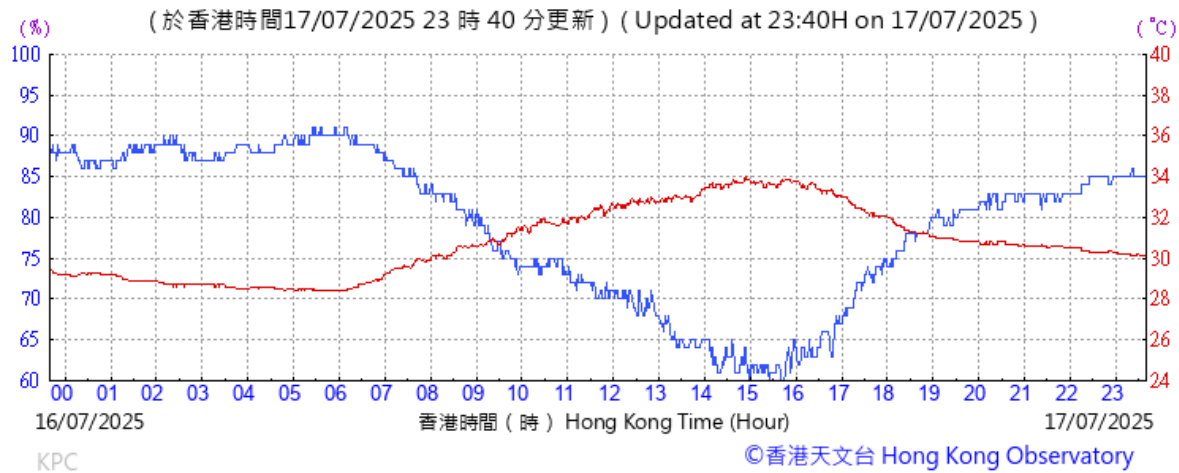
Wind Direction:



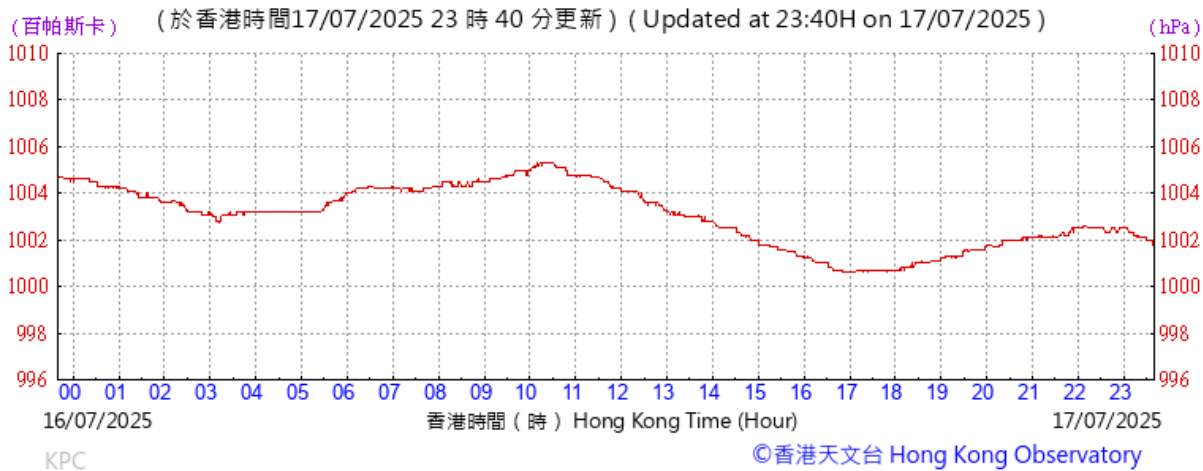
Wind Speed:



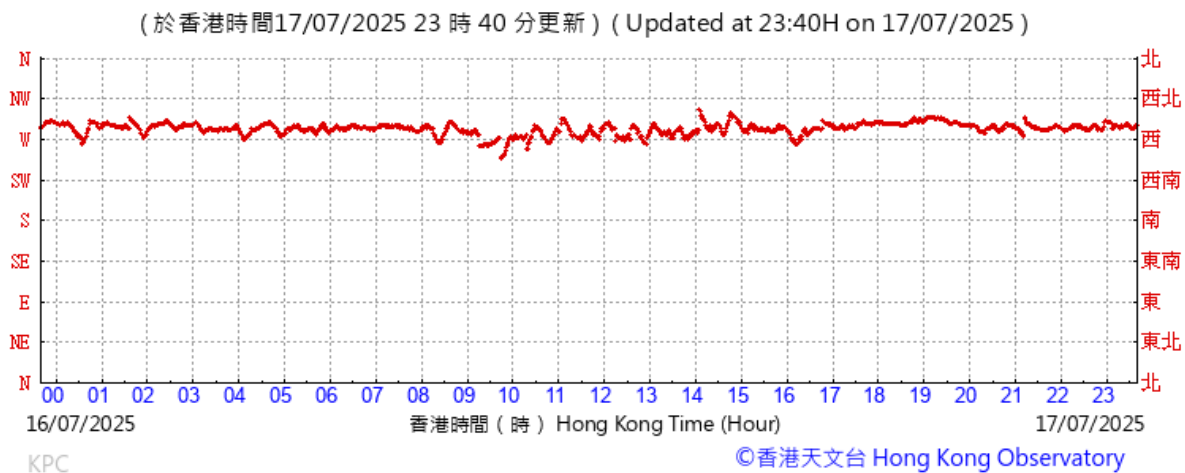
Tempearture/Humidity:



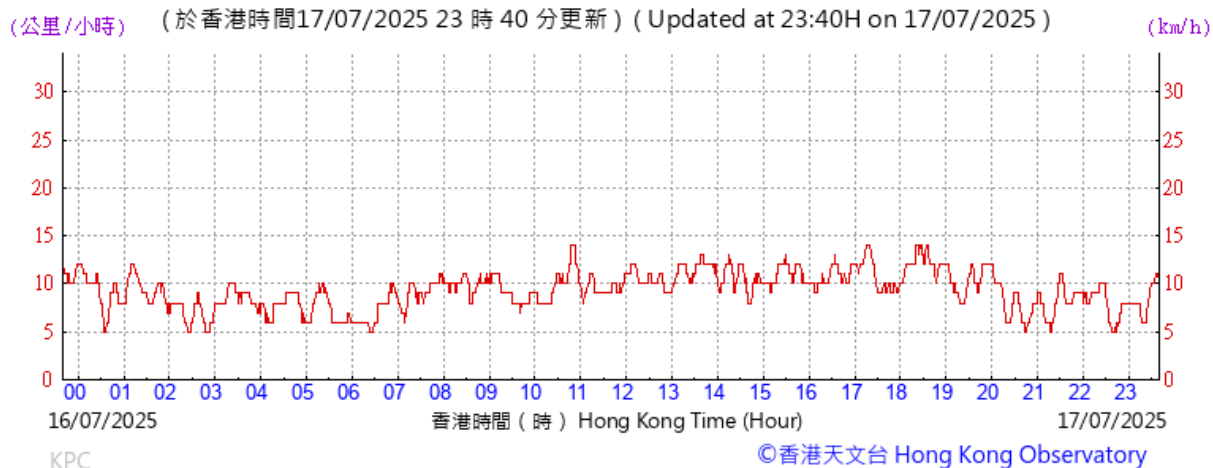
Pressure:



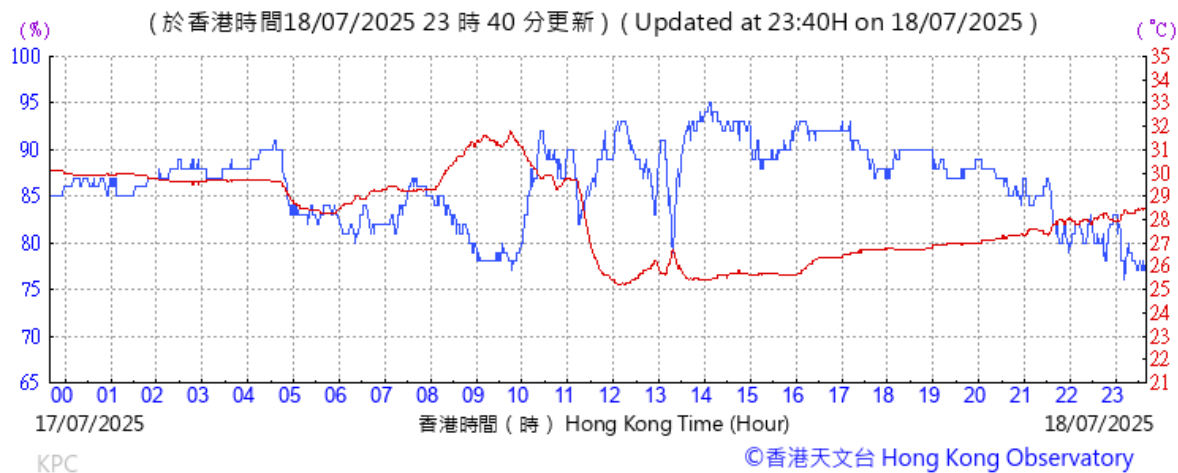
Wind Direction:



Wind Speed:



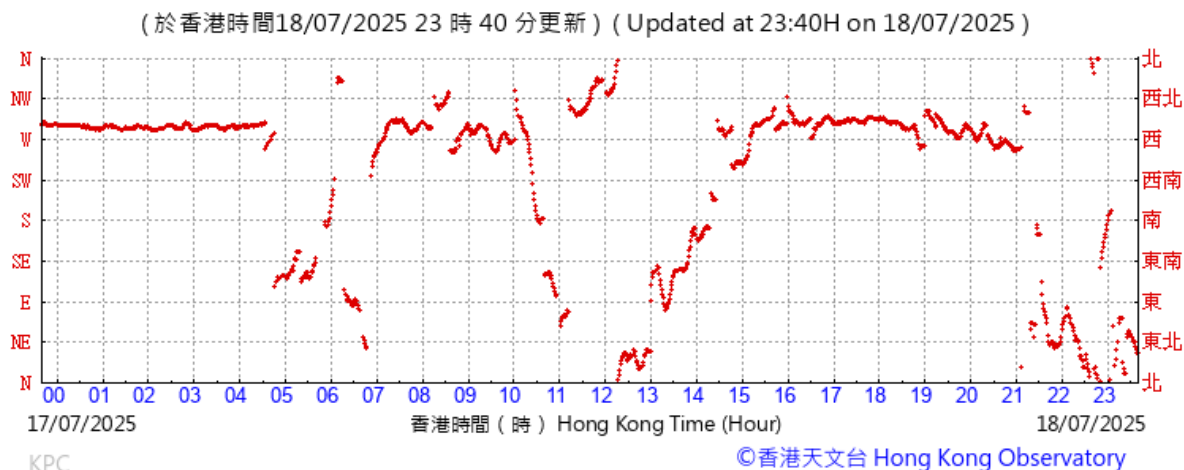
Temperature/Humidity:



Pressure:



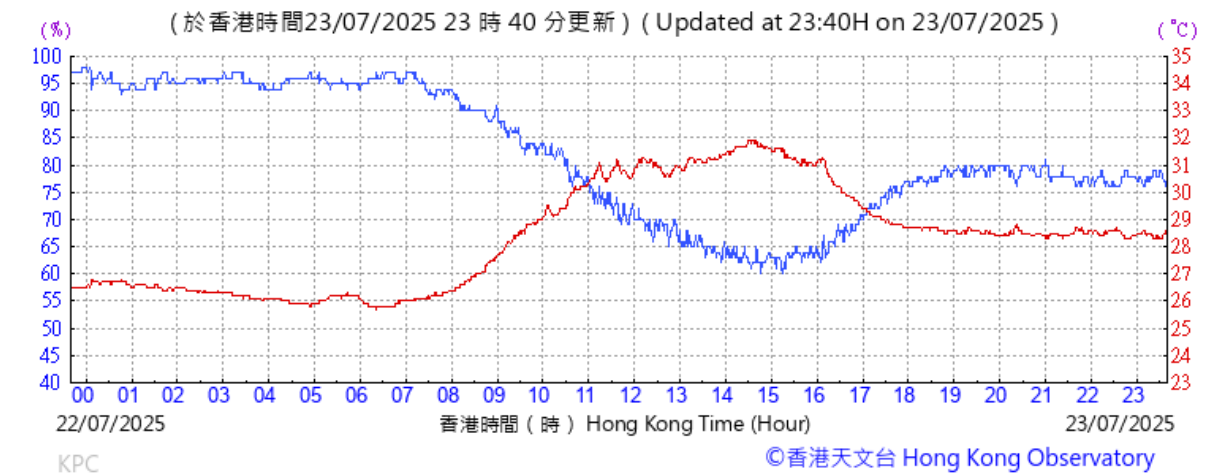
Wind Direction:



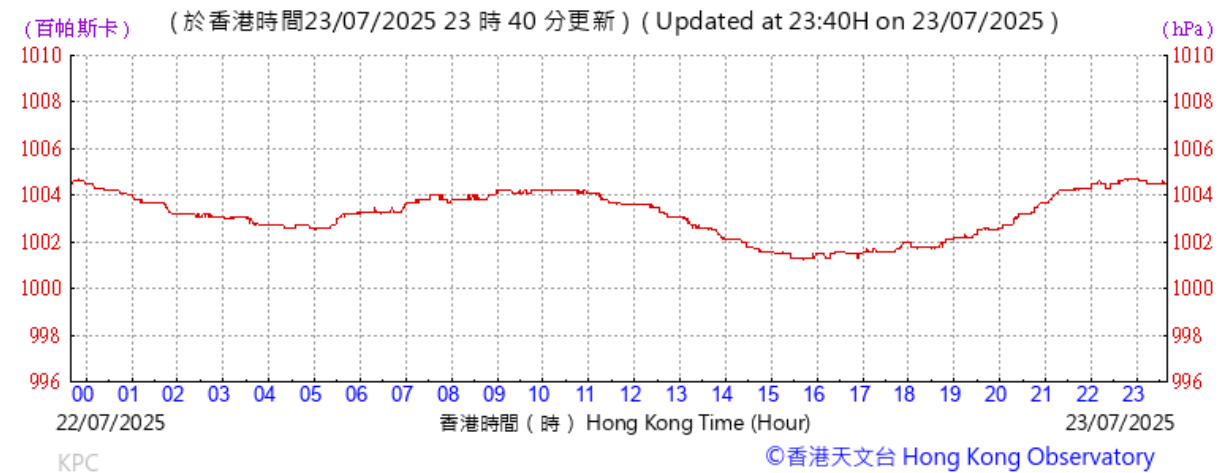
Wind Speed:



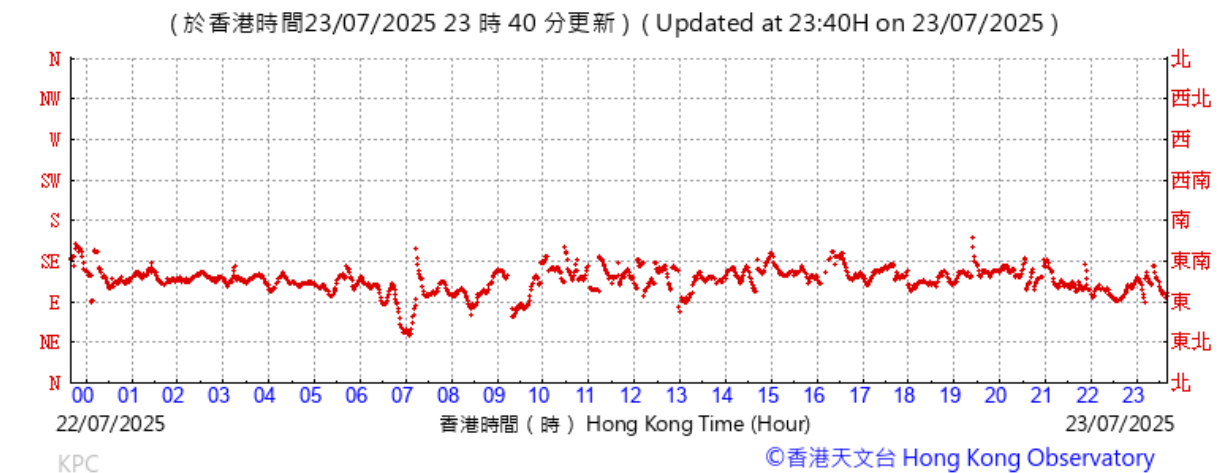
Tempearture/Humidity:



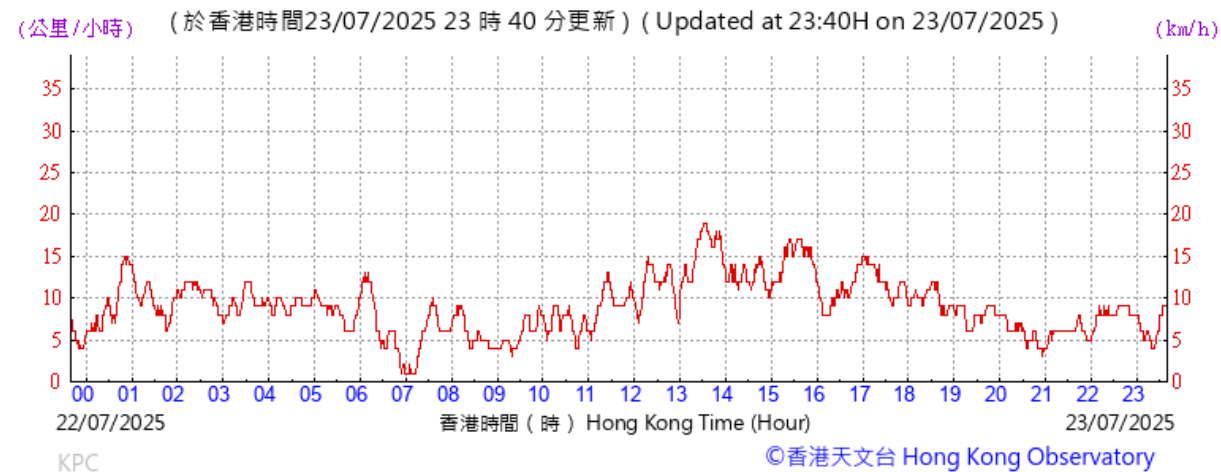
Pressure:



Wind Direction:

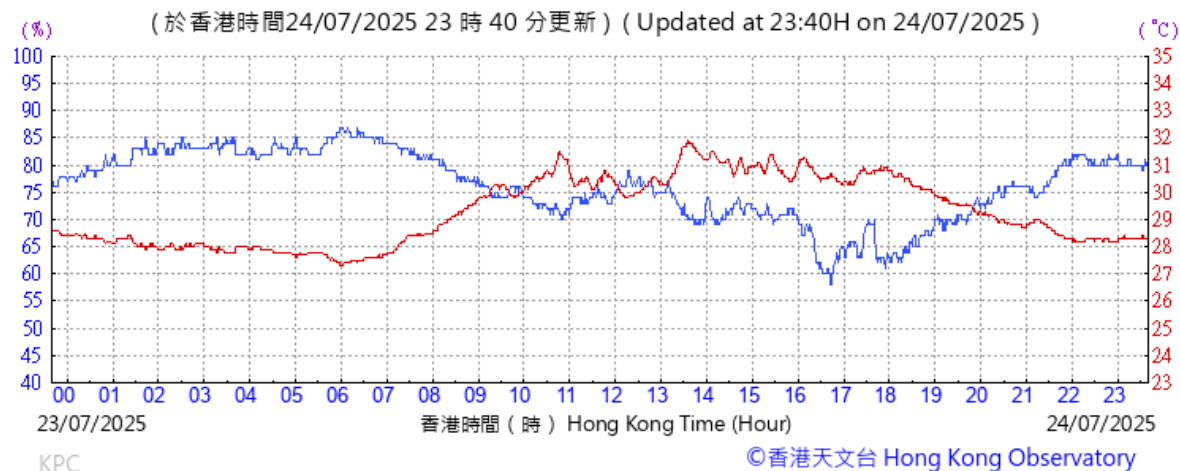


Wind Speed:

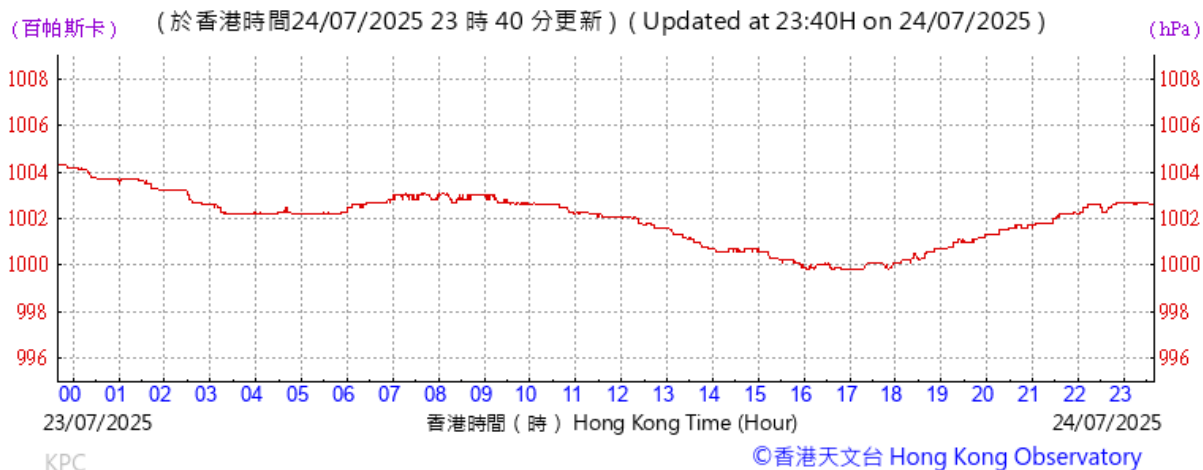




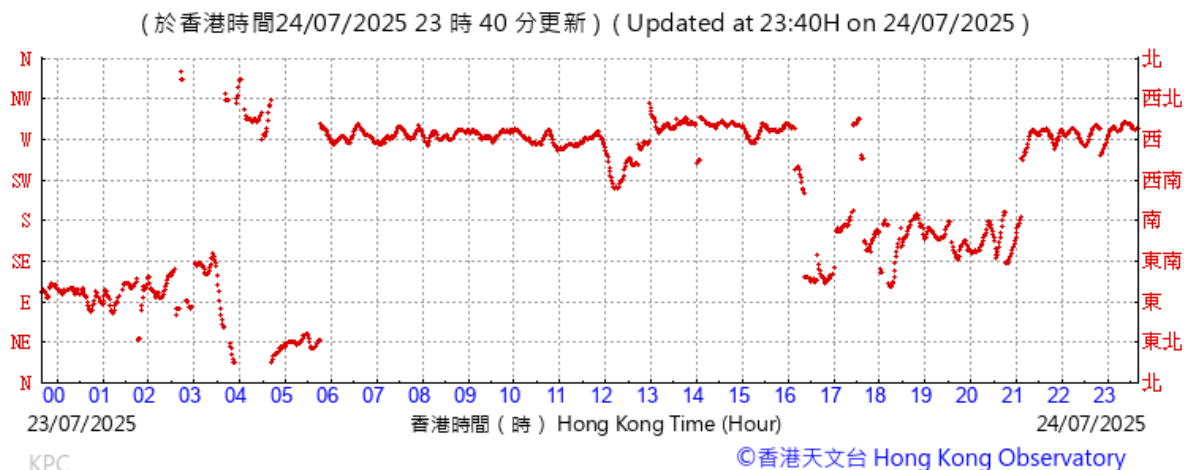
Temperature/Humidity:



Pressure:



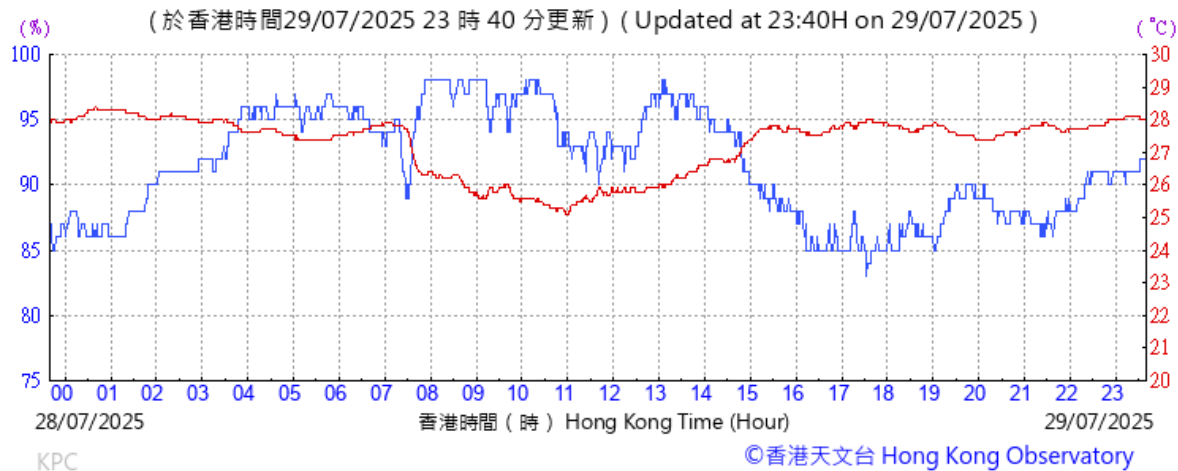
Wind Direction:



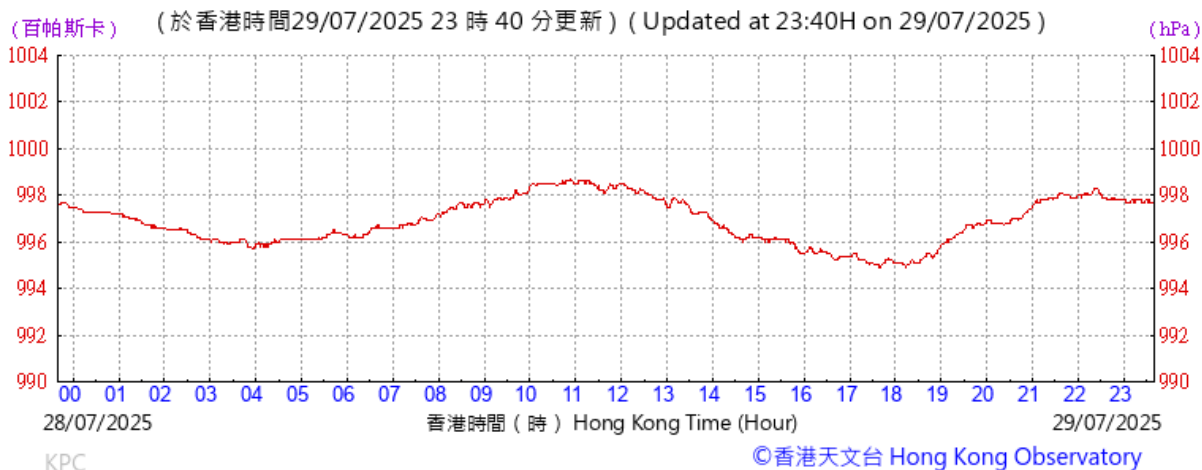
Wind Speed:



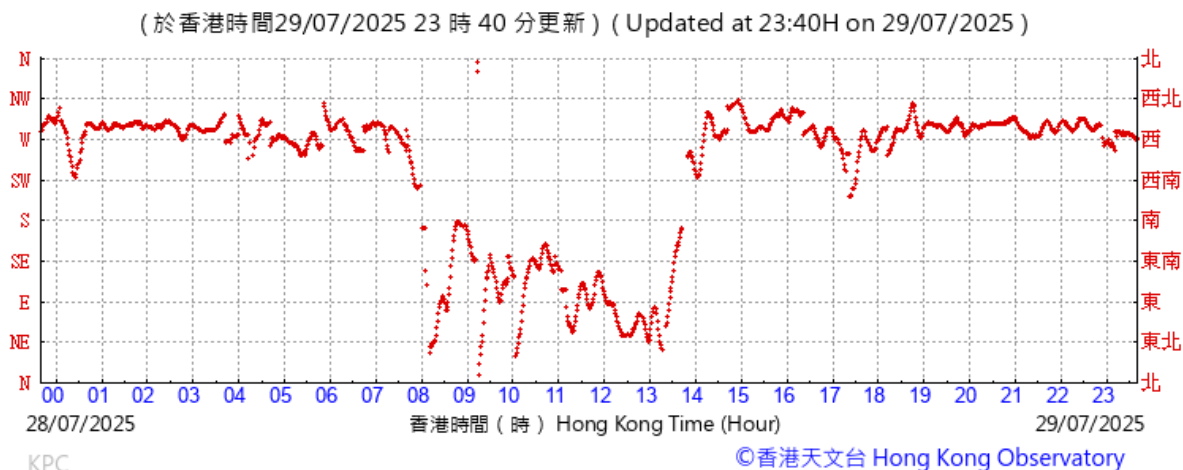
Temperature/Humidity:



Pressure:



Wind Direction:

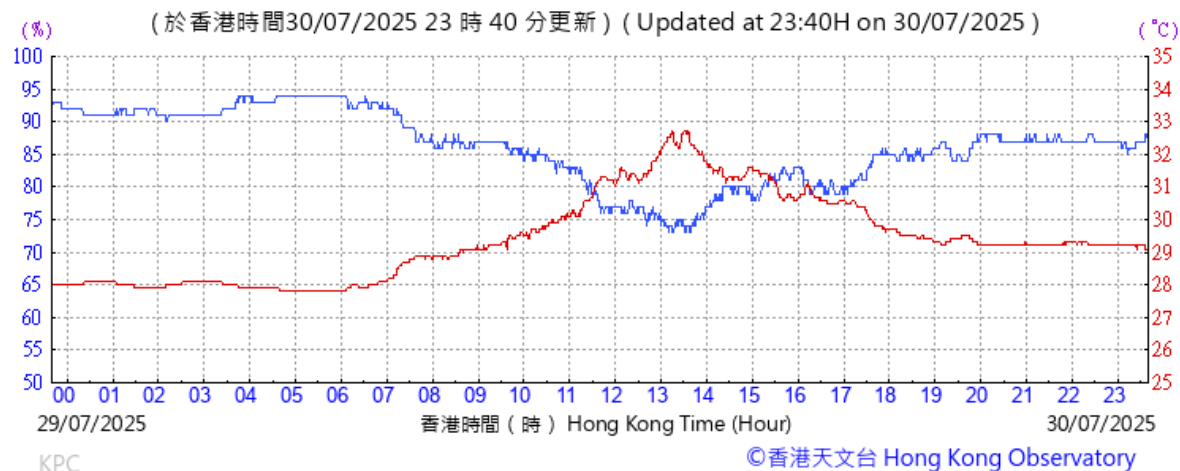


Wind Speed:

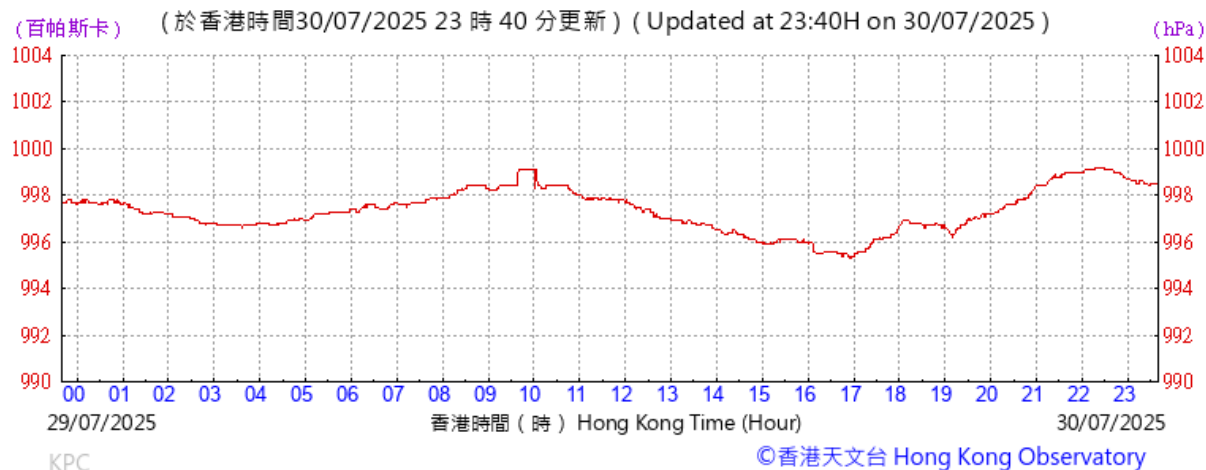




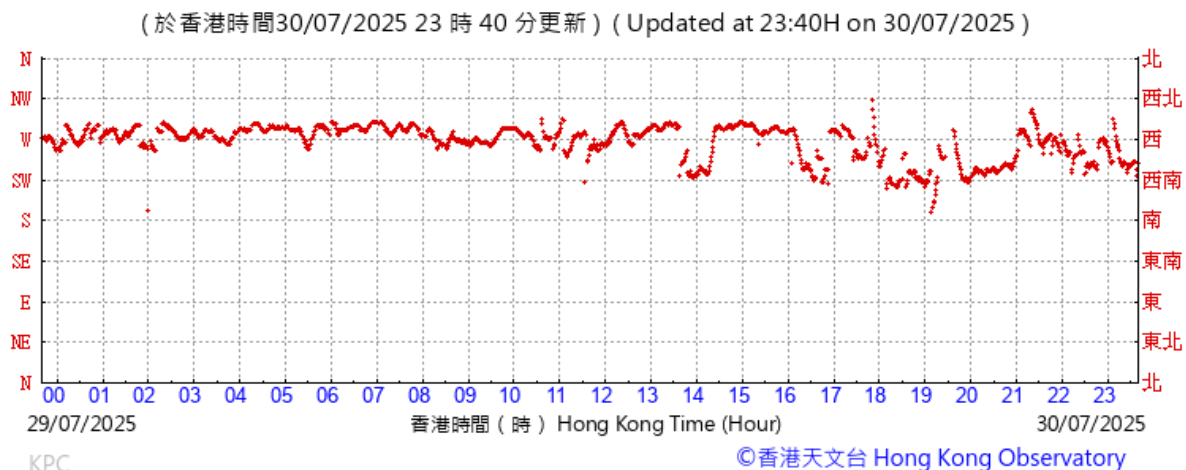
Temperature/Humidity:



Pressure:



Wind Direction:



Wind Speed:

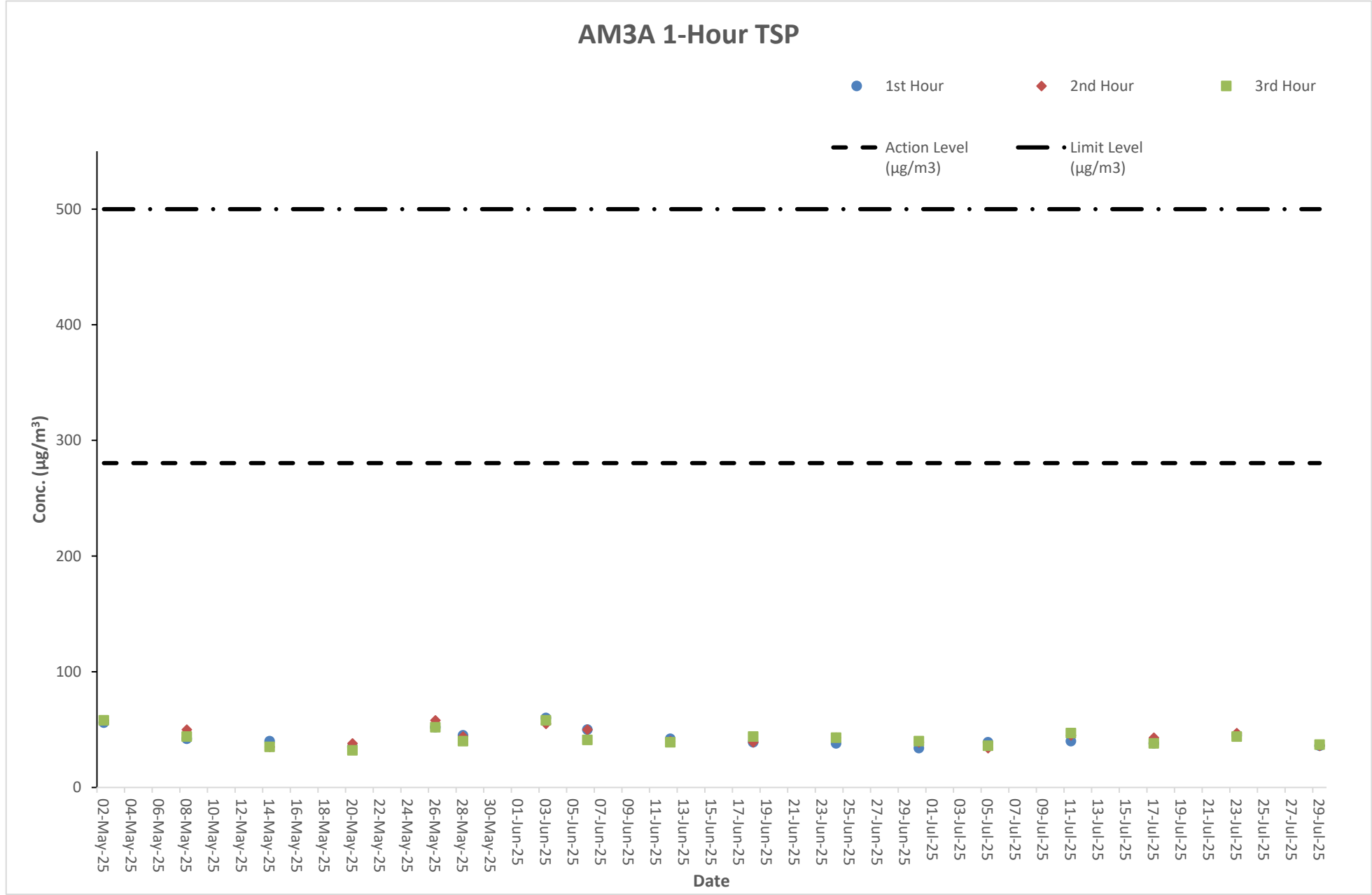


## **E. Graphical Plots of the Monitoring Results**

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

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
02-May-25	Fine	7:00 - 10:00	56	58	58	280.4	500
08-May-25	Cloudy	13:00 - 16:00	42	50	44	280.4	500
14-May-25	Cloudy	7:00 - 10:00	40	35	35	280.4	500
20-May-25	Fine	13:02 - 16:02	35	38	32	280.4	500
26-May-25	Fine	7:01 - 10:01	52	58	52	280.4	500
28-May-25	Cloudy	14:09 - 17:09	45	44	40	280.4	500
03-Jun-25	Cloudy	7:03 - 10:03	60	55	58	280.4	500
06-Jun-25	Cloudy	13:02 - 16:02	50	50	41	280.4	500
12-Jun-25	Cloudy	7:05 - 10:05	42	40	39	280.4	500
18-Jun-25	Cloudy	13:01 - 16:01	39	39	44	280.4	500
24-Jun-25	Cloudy	7:02 - 10:02	38	43	43	280.4	500
30-Jun-25	Cloudy	13:02 - 16:02	34	39	40	280.4	500
05-Jul-25	Cloudy	7:05 - 10:05	39	34	36	280.4	500
11-Jul-25	Cloudy	13:00 - 16:00	40	45	47	280.4	500
17-Jul-25	Cloudy	7:03 - 10:03	38	43	38	280.4	500
23-Jul-25	Cloudy	13:04 - 16:04	45	47	44	280.4	500
29-Jul-25	Cloudy	7:00 - 10:00	36	36	37	280.4	500

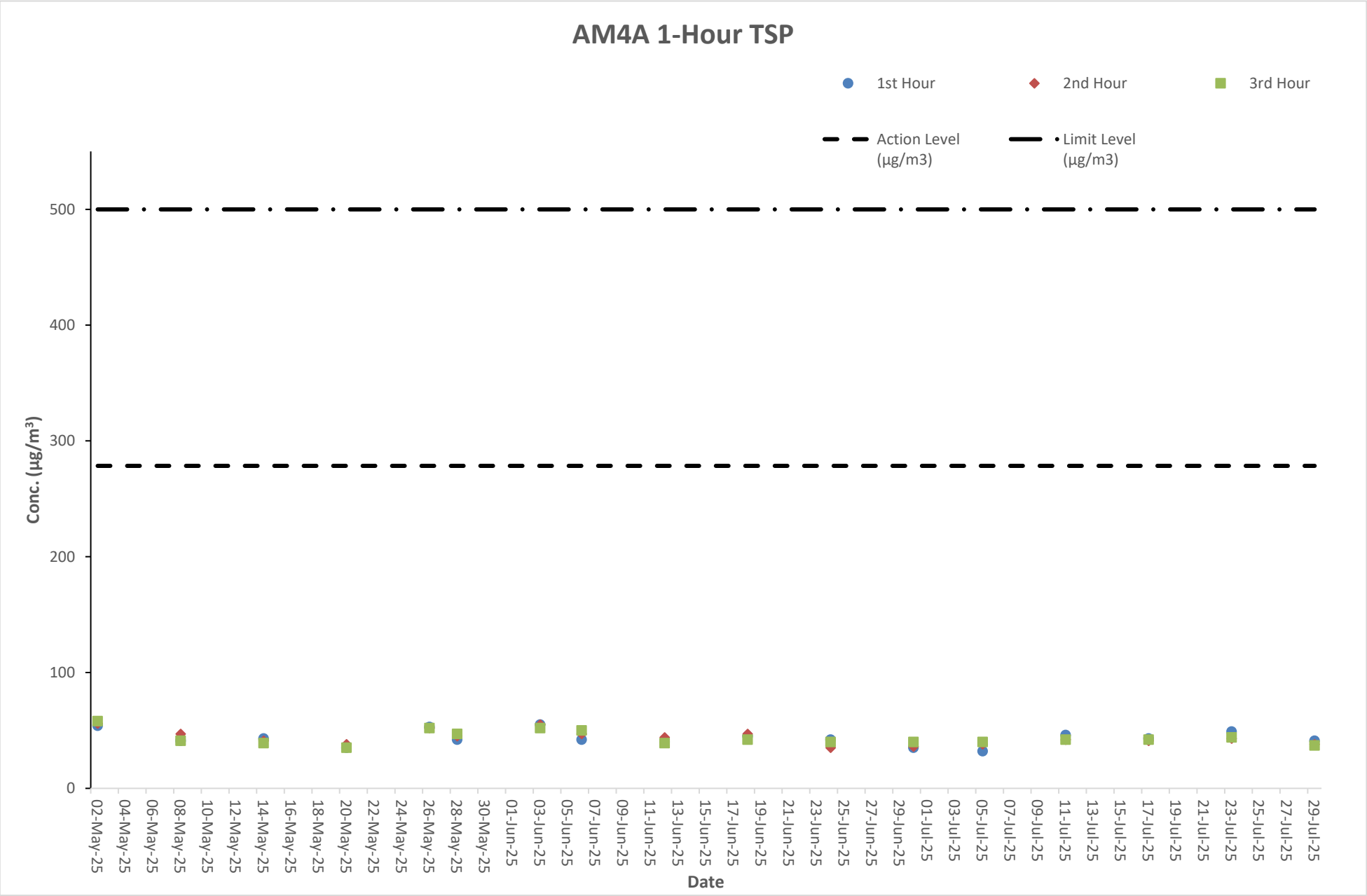
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



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

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
02-May-25	Fine	7:08 - 10:08	54	56	58	278.5	500
08-May-25	Cloudy	13:08 - 16:08	41	47	41	278.5	500
14-May-25	Cloudy	7:08 - 10:08	43	41	39	278.5	500
20-May-25	Fine	13:10 - 16:10	35	38	35	278.5	500
26-May-25	Fine	7:09 - 10:09	53	52	52	278.5	500
28-May-25	Cloudy	14:17 - 17:17	42	45	47	278.5	500
03-Jun-25	Cloudy	7:11 - 10:11	55	55	52	278.5	500
06-Jun-25	Cloudy	13:10 - 16:10	42	47	50	278.5	500
12-Jun-25	Cloudy	7:13 - 10:13	40	44	39	278.5	500
18-Jun-25	Cloudy	13:09 - 16:09	45	47	42	278.5	500
24-Jun-25	Cloudy	7:10 - 10:10	42	35	40	278.5	500
30-Jun-25	Cloudy	13:10 - 16:10	35	36	40	278.5	500
05-Jul-25	Cloudy	7:13 - 10:13	32	38	40	278.5	500
11-Jul-25	Cloudy	13:08 - 16:08	46	42	42	278.5	500
17-Jul-25	Cloudy	7:11 - 10:11	43	41	42	278.5	500
23-Jul-25	Cloudy	13:12 - 16:12	49	43	44	278.5	500
29-Jul-25	Cloudy	7:08 - 10:08	41	38	37	278.5	500

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

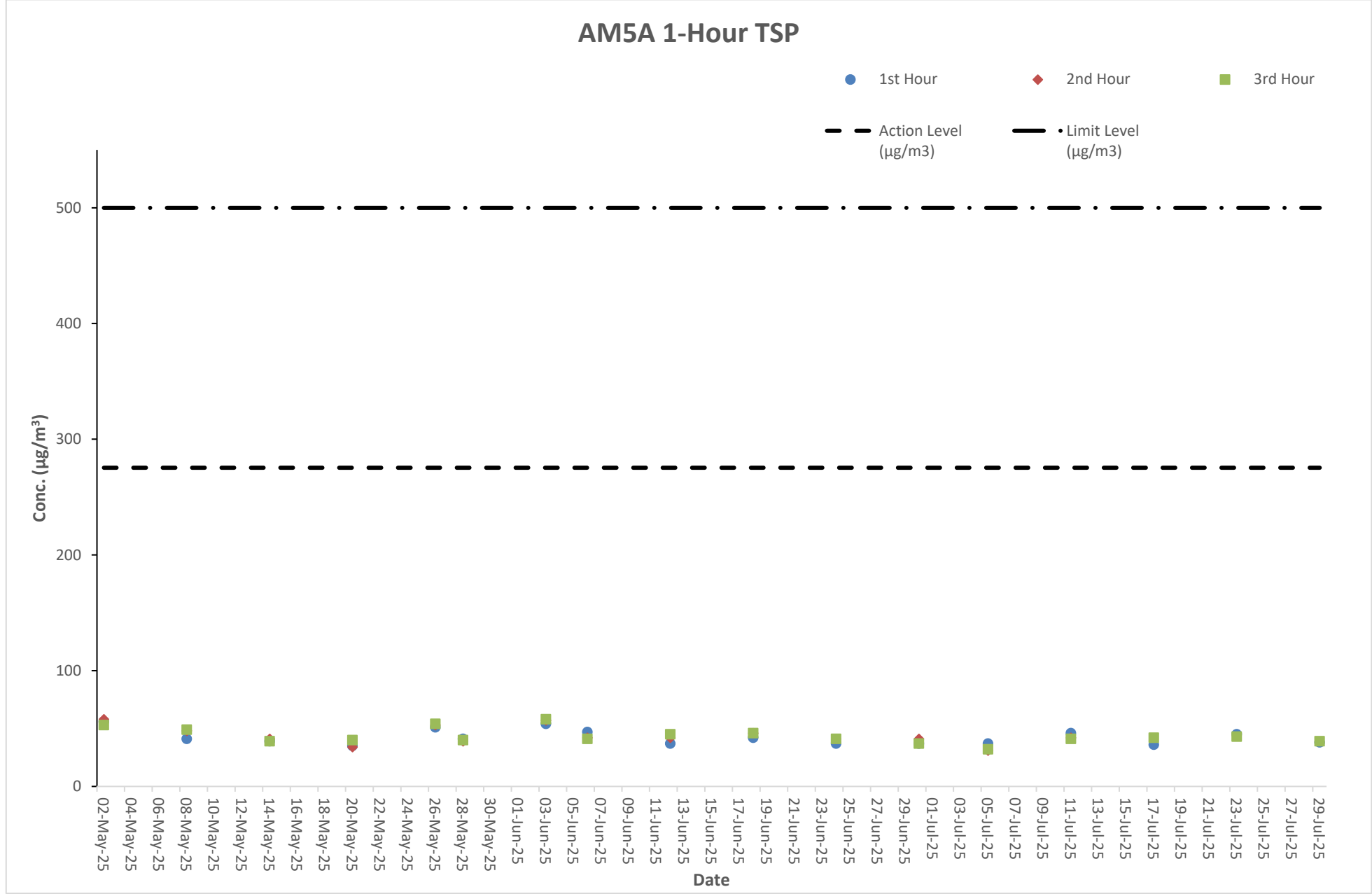


**Air Quality Monitoring Result at Station AM5A (1-hour TSP)**

Date	Weather Condition	Time	Conc. ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
02-May-25	Fine	8:24 - 11:24	56	58	53	275.4	500
08-May-25	Cloudy	14:28 - 17:28	41	48	49	275.4	500
14-May-25	Cloudy	8:23 - 11:23	39	41	39	275.4	500
20-May-25	Fine	14:30 - 17:30	35	34	40	275.4	500
26-May-25	Fine	8:30 - 11:30	51	53	54	275.4	500
28-May-25	Cloudy	14:34 - 17:34	41	39	40	275.4	500
03-Jun-25	Cloudy	7:26 - 10:26	54	57	58	275.4	500
06-Jun-25	Cloudy	13:27 - 16:27	47	42	41	275.4	500
12-Jun-25	Cloudy	7:28 - 10:28	37	42	45	275.4	500
18-Jun-25	Cloudy	13:26 - 16:26	42	46	46	275.4	500
24-Jun-25	Cloudy	7:25 - 10:25	37	41	41	275.4	500
30-Jun-25	Cloudy	13:27 - 16:27	37	41	37	275.4	500
05-Jul-25	Cloudy	7:28 - 10:28	37	31	32	275.4	500
11-Jul-25	Cloudy	13:25 - 16:25	46	42	41	275.4	500
17-Jul-25	Cloudy	7:26 - 10:26	36	36	42	275.4	500
23-Jul-25	Cloudy	13:29 - 16:29	45	41	43	275.4	500
29-Jul-25	Cloudy	7:23 - 10:23	38	34	39	275.4	500



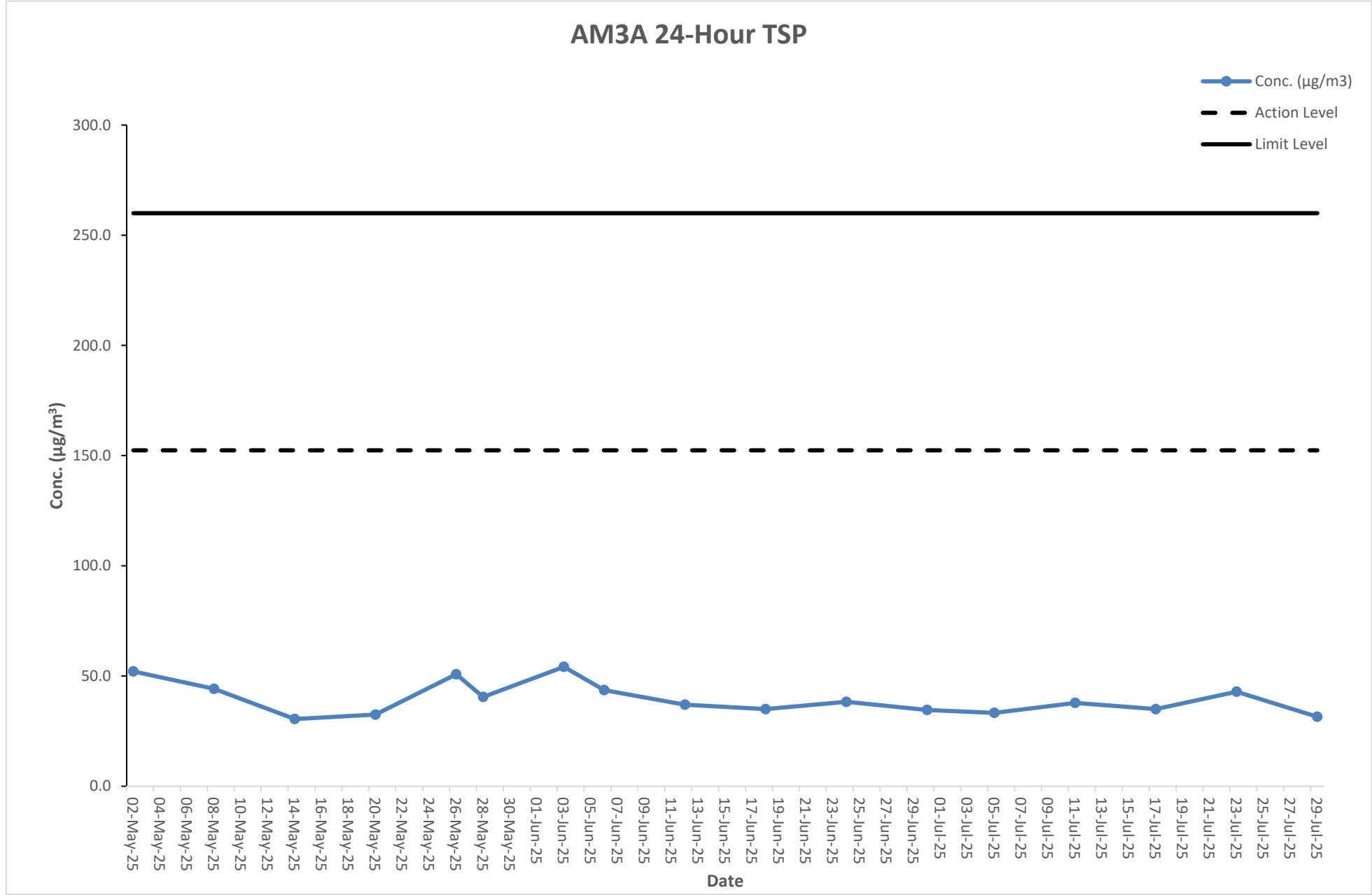
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-May-25	10:00AM	03-May-25	10:00AM	2.8066	2.8904	8301.8	8325.8	24	1.12	1.12	1.12	52.1	Cloudy	152.4	260
08-May-25	10:00AM	09-May-25	10:00AM	2.8089	2.8801	8325.8	8349.8	24	1.12	1.12	1.12	44.2	Rainy	152.4	260
14-May-25	10:00AM	15-May-25	10:00AM	2.8012	2.8502	8349.8	8373.8	24	1.12	1.12	1.12	30.5	Cloudy	152.4	260
20-May-25	10:00AM	21-May-25	10:00AM	2.8035	2.8558	8373.8	8397.8	24	1.12	1.12	1.12	32.5	Cloudy	152.4	260
26-May-25	10:00AM	27-May-25	10:00AM	2.8073	2.8891	8397.8	8421.8	24	1.12	1.12	1.12	50.8	Sunny	152.4	260
28-May-25	10:00AM	29-May-25	10:00AM	2.8043	2.8695	8421.8	8445.8	24	1.12	1.12	1.12	40.5	Cloudy	152.4	260
03-Jun-25	10:00AM	04-Jun-25	10:00AM	2.8066	2.8904	8301.8	8325.8	24	1.12	1.12	1.12	54.2	Cloudy	152.4	260
06-Jun-25	10:00AM	07-Jun-25	10:00AM	2.8089	2.8801	8325.8	8349.8	24	1.12	1.12	1.12	43.6	Cloudy	152.4	260
12-Jun-25	10:00AM	13-Jun-25	10:00AM	2.8012	2.8502	8349.8	8373.8	24	1.12	1.12	1.12	37.0	Rainy	152.4	260
18-Jun-25	10:00AM	19-Jun-25	10:00AM	2.8035	2.8558	8373.8	8397.8	24	1.12	1.12	1.12	35.0	Rainy	152.4	260
24-Jun-25	10:00AM	25-Jun-25	10:00AM	2.8073	2.8891	8397.8	8421.8	24	1.12	1.12	1.12	38.3	Cloudy	152.4	260
30-Jun-25	10:00AM	01-Jul-25	10:00AM	2.8043	2.8695	8421.8	8445.8	24	1.12	1.12	1.12	34.6	Rainy	152.4	260
05-Jul-25	10:00AM	06-Jul-25	10:00AM	2.8046	2.8581	8589.8	8613.8	24	1.12	1.12	1.12	33.3	Rainy	152.4	260
11-Jul-25	10:00AM	12-Jul-25	10:00AM	2.8056	2.8665	8613.8	8637.8	24	1.12	1.12	1.12	37.8	Cloudy	152.4	260
17-Jul-25	10:00AM	18-Jul-25	10:00AM	2.8022	2.8585	8637.8	8661.8	24	1.12	1.12	1.12	35.0	Sunny	152.4	260
23-Jul-25	10:00AM	24-Jul-25	10:00AM	2.8026	2.8716	8661.8	8685.8	24	1.12	1.12	1.12	42.9	Rainy	152.4	260
29-Jul-25	10:00AM	30-Jul-25	10:00AM	2.8081	2.8588	8685.8	8709.8	24	1.12	1.12	1.12	31.5	Rainy	152.4	260

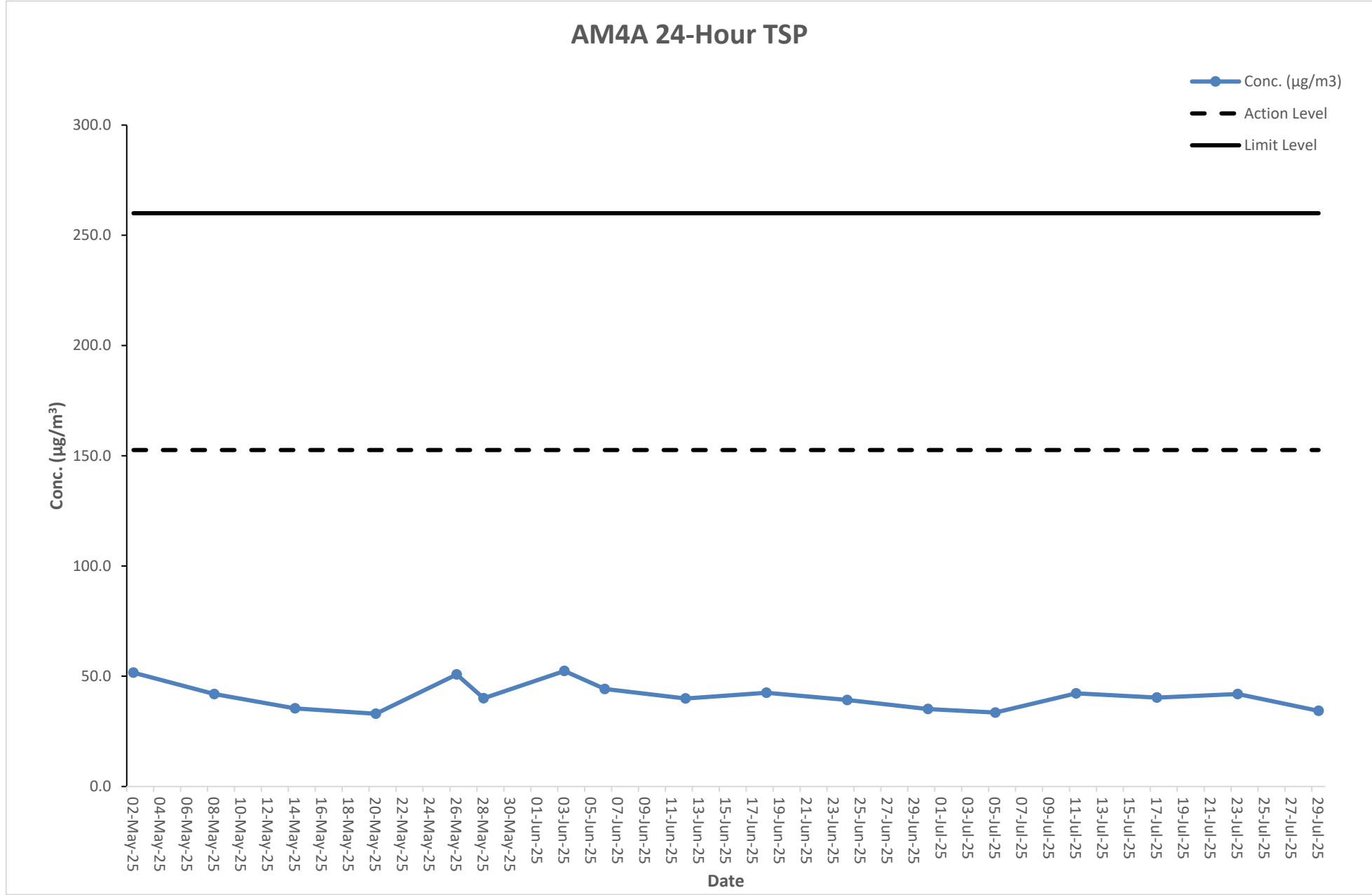
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-May-25	10:00AM	03-May-25	10:00AM	2.8050	2.8881	8721.4	8745.4	24	1.12	1.12	1.12	51.6	Cloudy	152.6	260
08-May-25	10:00AM	09-May-25	10:00AM	2.8070	2.8743	8745.4	8769.4	24	1.12	1.12	1.12	41.9	Rainy	152.6	260
14-May-25	10:00AM	15-May-25	10:00AM	2.8018	2.8587	8769.4	8793.4	24	1.12	1.12	1.12	35.4	Cloudy	152.6	260
20-May-25	10:00AM	21-May-25	10:00AM	2.8063	2.8595	8793.4	8817.4	24	1.12	1.12	1.12	33.0	Cloudy	152.6	260
26-May-25	10:00AM	27-May-25	10:00AM	2.8037	2.8855	8817.4	8841.4	24	1.12	1.12	1.12	50.8	Sunny	152.6	260
28-May-25	10:00AM	29-May-25	10:00AM	2.8033	2.8677	8841.4	8865.4	24	1.12	1.12	1.12	40.0	Cloudy	152.6	260
03-Jun-25	10:00AM	04-Jun-25	10:00AM	2.8050	2.8881	8721.4	8745.4	24	1.12	1.12	1.12	52.4	Cloudy	152.6	260
06-Jun-25	10:00AM	07-Jun-25	10:00AM	2.8070	2.8743	8745.4	8769.4	24	1.12	1.12	1.12	44.2	Cloudy	152.6	260
12-Jun-25	10:00AM	13-Jun-25	10:00AM	2.8018	2.8587	8769.4	8793.4	24	1.12	1.12	1.12	39.9	Rainy	152.6	260
18-Jun-25	10:00AM	19-Jun-25	10:00AM	2.8063	2.8595	8793.4	8817.4	24	1.12	1.12	1.12	42.5	Rainy	152.6	260
24-Jun-25	10:00AM	25-Jun-25	10:00AM	2.8037	2.8855	8817.4	8841.4	24	1.12	1.12	1.12	39.2	Cloudy	152.6	260
30-Jun-25	10:00AM	01-Jul-25	10:00AM	2.8033	2.8677	8841.4	8865.4	24	1.12	1.12	1.12	35.1	Rainy	152.6	260
05-Jul-25	10:00AM	06-Jul-25	10:00AM	2.8020	2.8559	9009.4	9033.4	24	1.12	1.12	1.12	33.5	Rainy	152.6	260
11-Jul-25	10:00AM	12-Jul-25	10:00AM	2.8061	2.8741	9033.4	9057.4	24	1.12	1.12	1.12	42.2	Cloudy	152.6	260
17-Jul-25	10:00AM	18-Jul-25	10:00AM	2.8082	2.8731	9057.4	9081.4	24	1.12	1.12	1.12	40.3	Sunny	152.6	260
23-Jul-25	10:00AM	24-Jul-25	10:00AM	2.8061	2.8736	9081.4	9105.4	24	1.12	1.12	1.12	41.9	Rainy	152.6	260
29-Jul-25	10:00AM	30-Jul-25	10:00AM	2.8011	2.8563	9105.4	9129.4	24	1.12	1.12	1.12	34.3	Rainy	152.6	260

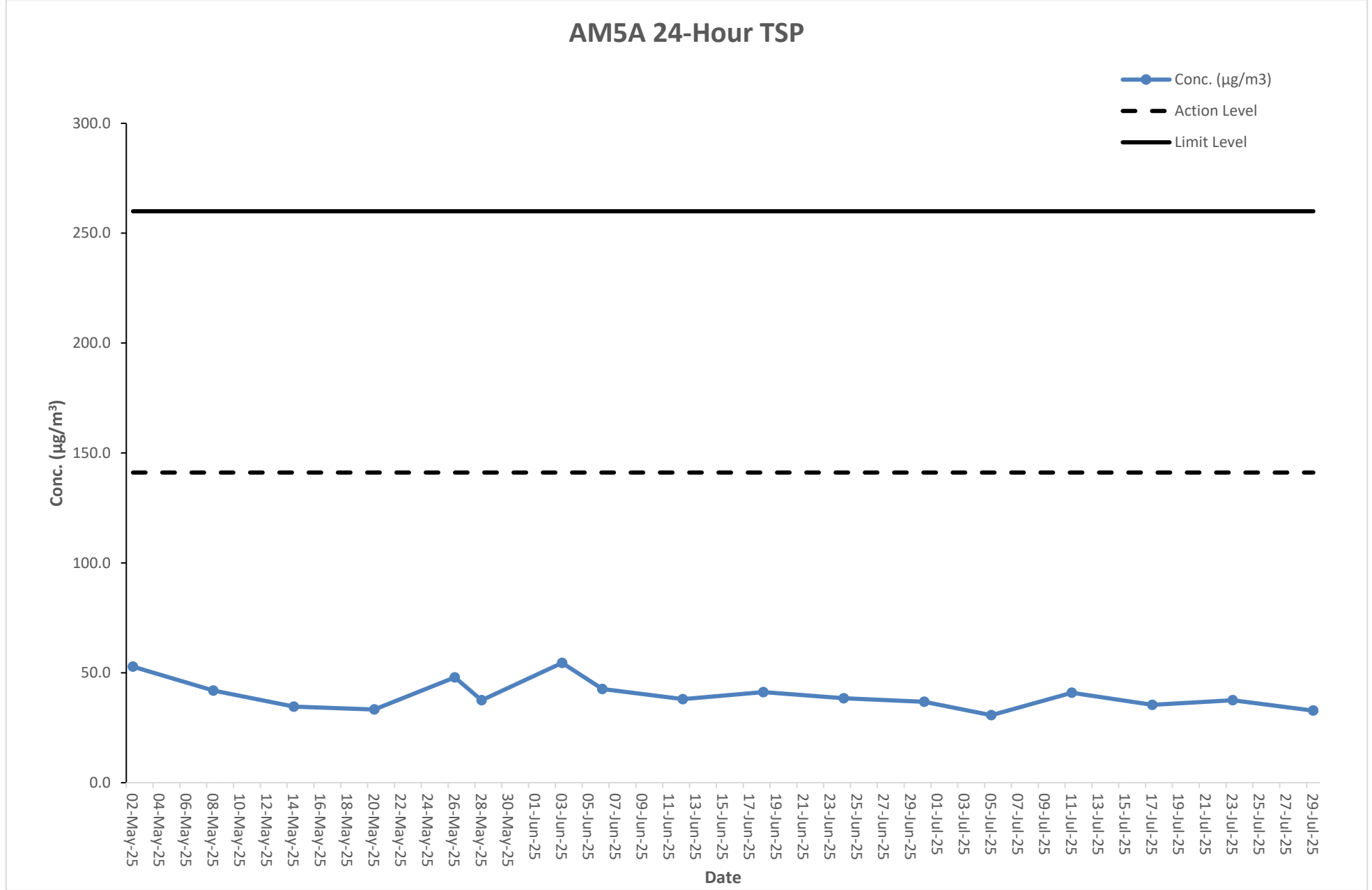
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m <sup>3</sup> /min)			Conc. (µg/m <sup>3</sup> )	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-May-25	10:00AM	03-May-25	10:00AM	2.8075	2.8925	8859.6	8883.6	24	1.12	1.12	1.12	52.8	Cloudy	141.1	260
08-May-25	10:00AM	09-May-25	10:00AM	2.8046	2.8721	8883.6	8907.6	24	1.12	1.12	1.12	41.9	Rainy	141.1	260
14-May-25	10:00AM	15-May-25	10:00AM	2.8060	2.8616	8907.6	8931.6	24	1.12	1.12	1.12	34.6	Cloudy	141.1	260
20-May-25	10:00AM	21-May-25	10:00AM	2.8040	2.8576	8931.6	8955.6	24	1.12	1.12	1.12	33.3	Cloudy	141.1	260
26-May-25	10:00AM	27-May-25	10:00AM	2.8077	2.8847	8955.6	8979.6	24	1.12	1.12	1.12	47.9	Sunny	141.1	260
28-May-25	10:00AM	29-May-25	10:00AM	2.8022	2.8626	8979.6	9003.6	24	1.12	1.12	1.12	37.5	Cloudy	141.1	260
03-Jun-25	10:00AM	04-Jun-25	10:00AM	2.8075	2.8925	8859.6	8883.6	24	1.12	1.12	1.12	54.5	Cloudy	141.1	260
06-Jun-25	10:00AM	07-Jun-25	10:00AM	2.8046	2.8721	8883.6	8907.6	24	1.12	1.12	1.12	42.6	Cloudy	141.1	260
12-Jun-25	10:00AM	13-Jun-25	10:00AM	2.8060	2.8616	8907.6	8931.6	24	1.12	1.12	1.12	38.0	Rainy	141.1	260
18-Jun-25	10:00AM	19-Jun-25	10:00AM	2.8040	2.8576	8931.6	8955.6	24	1.12	1.12	1.12	41.2	Rainy	141.1	260
24-Jun-25	10:00AM	25-Jun-25	10:00AM	2.8077	2.8847	8955.6	8979.6	24	1.12	1.12	1.12	38.4	Cloudy	141.1	260
30-Jun-25	10:00AM	01-Jul-25	10:00AM	2.8022	2.8626	8979.6	9003.6	24	1.12	1.12	1.12	36.8	Rainy	141.1	260
05-Jul-25	10:00AM	06-Jul-25	10:00AM	2.8030	2.8524	9147.6	9171.6	24	1.12	1.12	1.12	30.7	Rainy	141.1	260
11-Jul-25	10:00AM	12-Jul-25	10:00AM	2.8084	2.8743	9171.6	9195.6	24	1.12	1.12	1.12	40.9	Cloudy	141.1	260
17-Jul-25	10:00AM	18-Jul-25	10:00AM	2.8032	2.8601	9195.6	9219.6	24	1.12	1.12	1.12	35.4	Sunny	141.1	260
23-Jul-25	10:00AM	24-Jul-25	10:00AM	2.8048	2.8652	9219.6	9243.6	24	1.12	1.12	1.12	37.5	Rainy	141.1	260
29-Jul-25	10:00AM	30-Jul-25	10:00AM	2.8024	2.8551	9243.6	9267.6	24	1.12	1.12	1.12	32.8	Rainy	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-May-25	7:00	63.7	61.0	62.7
02-May-25	7:05	63.7	61.5	
02-May-25	7:10	64.5	60.8	
02-May-25	7:15	64.9	60.6	
02-May-25	7:20	64.2	61.1	
02-May-25	7:25	64.6	61.2	62.9
08-May-25	14:00	64.7	60.8	
08-May-25	14:05	64.2	61.2	
08-May-25	14:10	65.0	61.1	
08-May-25	14:15	65.0	60.5	
08-May-25	14:20	64.8	60.4	
08-May-25	14:25	63.8	61.4	
14-May-25	7:00	64.2	60.4	62.6
14-May-25	7:05	64.6	60.7	
14-May-25	7:10	63.8	61.5	
14-May-25	7:15	64.0	60.2	
14-May-25	7:20	64.4	61.6	
14-May-25	7:25	64.5	61.6	
20-May-25	14:00	64.0	60.4	62.7
20-May-25	14:05	63.7	61.6	
20-May-25	14:10	64.7	60.2	
20-May-25	14:15	64.2	60.8	
20-May-25	14:20	64.0	61.6	
20-May-25	14:25	64.2	60.2	
26-May-25	7:01	64.4	61.1	62.9
26-May-25	7:06	64.0	61.0	
26-May-25	7:11	64.5	60.2	
26-May-25	7:16	63.6	60.2	
26-May-25	7:21	64.1	61.6	
26-May-25	7:26	64.3	61.0	
28-May-25	14:00	64.0	60.3	62.7
28-May-25	14:05	64.3	61.2	
28-May-25	14:10	64.9	60.5	
28-May-25	14:15	64.5	61.6	
28-May-25	14:20	65.0	61.0	
28-May-25	14:25	64.6	60.9	
03-Jun-25	7:03	64.3	60.6	62.5
03-Jun-25	7:08	64.8	61.2	
03-Jun-25	7:13	64.8	60.8	
03-Jun-25	7:18	64.7	60.9	
03-Jun-25	7:23	63.9	60.4	
03-Jun-25	7:28	64.0	61.2	
06-Jun-25	14:02	64.6	61.1	62.7
06-Jun-25	14:07	64.8	60.2	
06-Jun-25	14:12	64.4	60.3	
06-Jun-25	14:17	65.0	60.7	
06-Jun-25	14:22	63.7	61.0	
06-Jun-25	14:27	64.8	61.4	
12-Jun-25	7:05	63.6	60.9	62.5
12-Jun-25	7:10	63.8	61.1	
12-Jun-25	7:15	63.9	60.2	
12-Jun-25	7:20	64.6	61.6	
12-Jun-25	7:25	65.0	61.0	
12-Jun-25	7:30	64.7	60.6	
18-Jun-25	13:59	64.2	61.0	62.8
18-Jun-25	14:04	64.3	61.5	
18-Jun-25	14:09	63.7	60.9	
18-Jun-25	14:14	64.9	61.6	
18-Jun-25	14:19	64.4	61.4	
18-Jun-25	14:24	64.2	60.2	
24-Jun-25	7:02	63.9	61.1	62.8
24-Jun-25	7:07	63.8	61.5	
24-Jun-25	7:12	64.7	61.4	
24-Jun-25	7:17	63.7	60.8	
24-Jun-25	7:22	64.7	61.6	
24-Jun-25	7:27	64.2	60.4	

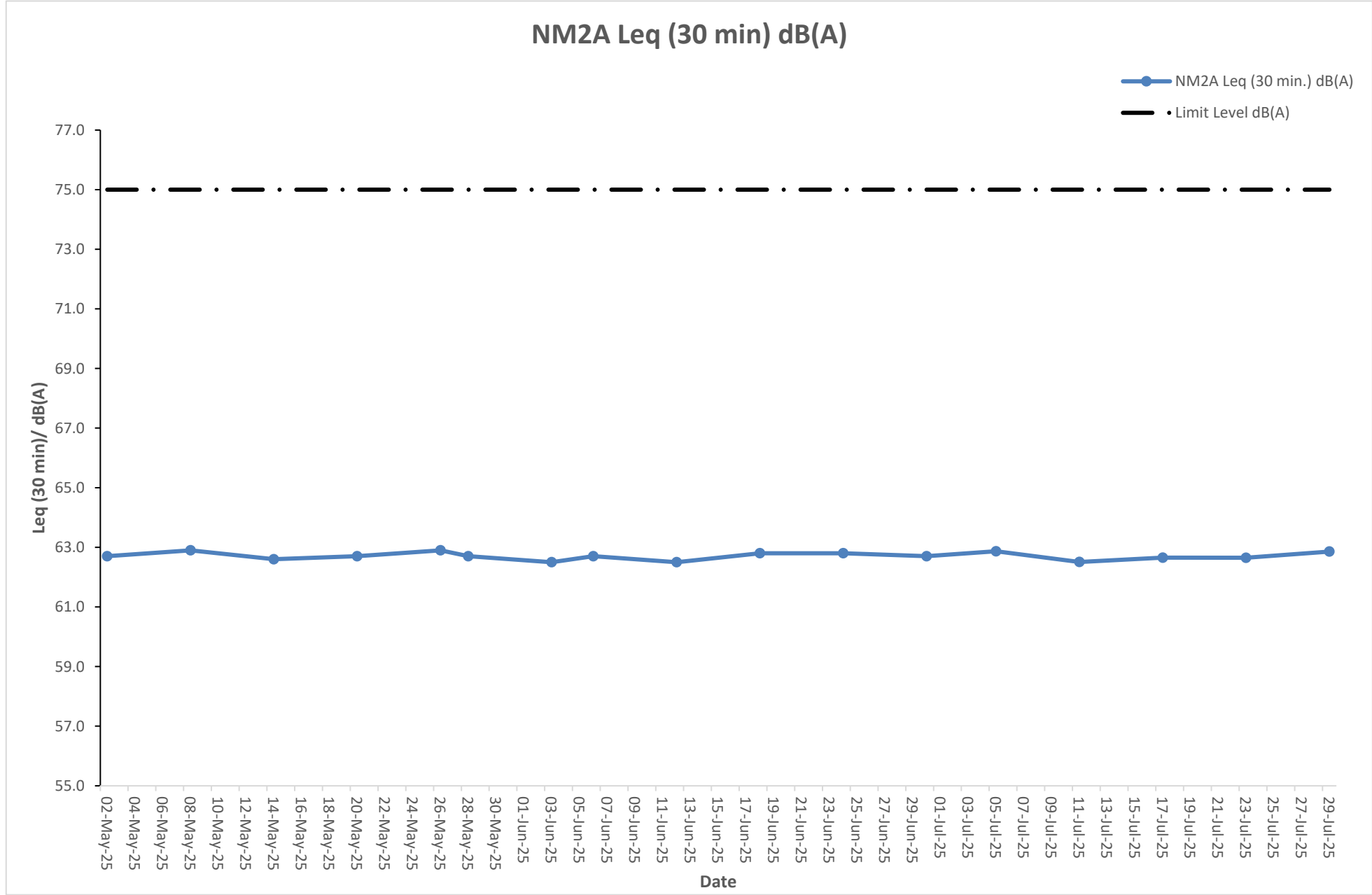
# Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Jun-25	14:01	63.9	60.4	62.7
30-Jun-25	14:06	64.4	60.8	
30-Jun-25	14:11	64.4	61.1	
30-Jun-25	14:16	64.7	60.3	
30-Jun-25	14:21	63.8	60.3	
30-Jun-25	14:26	64.9	61.4	62.9
05-Jul-25	7:05	64.5	61.6	
05-Jul-25	7:10	63.7	61.2	
05-Jul-25	7:15	64.3	60.6	
05-Jul-25	7:20	64.7	60.3	
05-Jul-25	7:25	64.1	61.1	62.5
05-Jul-25	7:30	64.6	60.8	
11-Jul-25	14:00	64.1	61.2	
11-Jul-25	14:05	63.7	60.3	
11-Jul-25	14:10	64.5	60.5	
11-Jul-25	14:15	64.4	60.7	62.7
11-Jul-25	14:20	63.6	61.5	
11-Jul-25	14:25	63.7	60.4	
17-Jul-25	7:03	64.1	60.8	
17-Jul-25	7:08	63.9	61.2	
17-Jul-25	7:13	63.9	61.4	62.6
17-Jul-25	7:18	64.9	61.4	
17-Jul-25	7:23	65.0	61.6	
17-Jul-25	7:28	64.7	60.9	
23-Jul-25	14:02	64.4	60.3	
23-Jul-25	14:07	64.8	61.4	62.9
23-Jul-25	14:12	64.4	60.8	
23-Jul-25	14:17	63.7	60.6	
23-Jul-25	14:22	64.5	60.6	
23-Jul-25	14:27	65.0	60.7	62.9
29-Jul-25	7:00	64.7	61.5	
29-Jul-25	7:05	65.0	61.3	
29-Jul-25	7:10	64.9	60.3	
29-Jul-25	7:15	63.6	61.6	
29-Jul-25	7:20	63.6	61.5	
29-Jul-25	7:25	64.0	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-May-25	8:30	61.9	57.8	60.7
02-May-25	8:35	62.1	57.8	
02-May-25	8:40	62.2	57.7	
02-May-25	8:45	62.1	57.3	
02-May-25	8:50	63.3	57.3	
02-May-25	8:55	62.4	56.6	60.9
08-May-25	15:21	62.5	57.2	
08-May-25	15:26	63.5	56.4	
08-May-25	15:31	63.5	56.0	
08-May-25	15:36	62.6	57.8	
08-May-25	15:41	62.6	56.1	
08-May-25	15:46	62.7	57.3	60.5
14-May-25	8:30	63.2	56.6	
14-May-25	8:35	63.0	57.8	
14-May-25	8:40	63.4	57.3	
14-May-25	8:45	63.4	57.3	
14-May-25	8:50	63.6	56.5	
14-May-25	8:55	62.9	56.0	60.4
20-May-25	15:25	63.4	55.9	
20-May-25	15:30	63.2	56.8	
20-May-25	15:35	62.7	56.8	
20-May-25	15:40	63.0	57.8	
20-May-25	15:45	62.4	57.7	61.2
20-May-25	15:50	62.5	56.9	
26-May-25	8:40	63.4	56.2	
26-May-25	8:45	63.6	57.3	
26-May-25	8:50	61.9	56.3	
26-May-25	8:55	62.6	56.8	60.9
26-May-25	9:00	63.8	57.2	
26-May-25	9:05	62.6	57.6	
28-May-25	15:25	62.3	57.7	
28-May-25	15:30	63.2	56.6	
28-May-25	15:35	63.7	57.8	60.7
28-May-25	15:40	62.0	57.0	
28-May-25	15:45	62.4	57.7	
28-May-25	15:50	62.4	57.8	
03-Jun-25	8:33	63.5	57.6	
03-Jun-25	8:38	62.8	56.4	60.5
03-Jun-25	8:43	63.4	56.4	
03-Jun-25	8:48	62.2	56.2	
03-Jun-25	8:53	63.2	56.4	
03-Jun-25	8:58	63.8	56.4	
06-Jun-25	15:23	63.0	56.8	61.0
06-Jun-25	15:28	62.8	57.6	
06-Jun-25	15:33	62.2	56.4	
06-Jun-25	15:38	63.0	56.6	
06-Jun-25	15:43	62.5	55.9	
06-Jun-25	15:48	63.2	57.5	60.6
12-Jun-25	8:35	62.1	56.9	
12-Jun-25	8:40	62.1	57.2	
12-Jun-25	8:45	63.1	56.2	
12-Jun-25	8:50	62.3	56.8	
12-Jun-25	8:55	62.5	56.1	61.2
12-Jun-25	9:00	62.3	57.1	
18-Jun-25	15:24	63.5	56.7	
18-Jun-25	15:29	62.0	56.9	
18-Jun-25	15:34	62.3	57.6	
18-Jun-25	15:39	62.1	56.2	61.2
18-Jun-25	15:44	63.2	57.3	
18-Jun-25	15:49	62.5	56.6	
24-Jun-25	8:41	63.8	57.5	
24-Jun-25	8:46	62.4	56.1	
24-Jun-25	8:51	62.9	57.8	61.2
24-Jun-25	8:56	62.7	55.9	
24-Jun-25	9:01	63.4	57.7	
24-Jun-25	9:06	62.1	55.9	

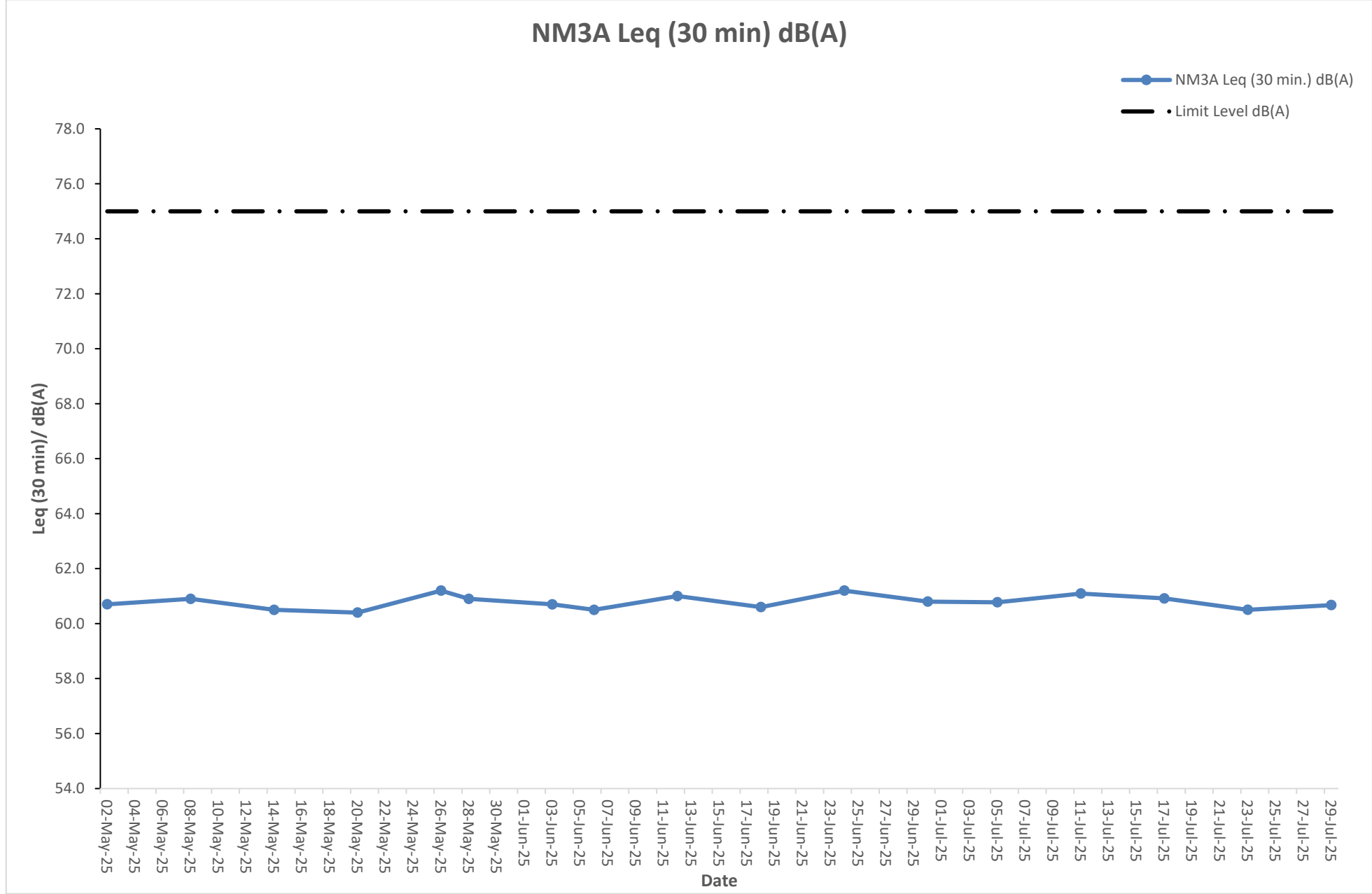
# Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Jun-25	15:26	63.7	57.2	60.8
30-Jun-25	15:31	61.9	56.0	
30-Jun-25	15:36	62.6	57.4	
30-Jun-25	15:41	63.5	56.6	
30-Jun-25	15:46	63.6	56.9	
30-Jun-25	15:51	63.6	56.4	
05-Jul-25	8:35	62.0	56.9	60.8
05-Jul-25	8:40	63.5	56.6	
05-Jul-25	8:45	63.6	57.0	
05-Jul-25	8:50	63.2	57.0	
05-Jul-25	8:55	62.8	56.9	
05-Jul-25	9:00	62.5	56.6	
11-Jul-25	15:21	63.3	55.9	61.1
11-Jul-25	15:26	61.9	57.3	
11-Jul-25	15:31	63.0	56.0	
11-Jul-25	15:36	62.2	57.6	
11-Jul-25	15:41	62.3	56.6	
11-Jul-25	15:46	62.9	56.7	
17-Jul-25	8:33	62.8	56.0	60.9
17-Jul-25	8:38	62.4	56.0	
17-Jul-25	8:43	63.7	57.3	
17-Jul-25	8:48	62.4	56.8	
17-Jul-25	8:53	63.0	57.5	
17-Jul-25	8:58	63.7	55.9	
23-Jul-25	15:27	63.5	56.5	60.5
23-Jul-25	15:32	62.9	55.9	
23-Jul-25	15:37	63.2	56.5	
23-Jul-25	15:42	63.2	56.9	
23-Jul-25	15:47	62.6	57.2	
23-Jul-25	15:52	63.4	57.1	
29-Jul-25	8:39	62.9	57.0	60.7
29-Jul-25	8:44	63.1	56.2	
29-Jul-25	8:49	62.8	57.4	
29-Jul-25	8:54	63.1	57.5	
29-Jul-25	8:59	63.1	56.9	
29-Jul-25	9:04	62.0	56.8	



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-May-25	10:35	59.6	56.9	58.3
02-May-25	10:40	60.3	57.0	
02-May-25	10:45	59.8	56.1	
02-May-25	10:50	59.5	55.9	
02-May-25	10:55	60.3	56.9	
02-May-25	11:00	60.4	55.7	58.3
08-May-25	15:56	59.5	57.1	
08-May-25	16:01	59.9	56.9	
08-May-25	16:06	59.3	55.9	
08-May-25	16:11	59.6	55.7	
08-May-25	16:16	59.4	56.0	58.3
08-May-25	16:21	60.4	55.8	
14-May-25	10:35	59.6	56.8	
14-May-25	10:40	59.7	56.8	
14-May-25	10:45	59.2	56.1	
14-May-25	10:50	59.2	55.9	58.5
14-May-25	10:55	59.2	56.4	
14-May-25	11:00	59.5	56.0	
20-May-25	16:00	59.4	56.2	
20-May-25	16:05	59.6	56.1	
20-May-25	16:10	59.2	56.4	58.3
20-May-25	16:15	59.2	57.0	
20-May-25	16:20	59.8	56.3	
20-May-25	16:25	59.4	55.9	
26-May-25	10:45	59.4	56.8	
26-May-25	10:50	59.3	56.7	58.4
26-May-25	10:55	59.2	56.3	
26-May-25	11:00	60.6	55.8	
26-May-25	11:05	59.6	56.1	
26-May-25	11:10	59.6	55.8	
28-May-25	16:00	60.2	56.4	58.7
28-May-25	16:05	59.3	56.8	
28-May-25	16:10	60.1	56.6	
28-May-25	16:15	60.6	56.3	
28-May-25	16:20	59.6	57.0	
28-May-25	16:25	60.6	56.0	58.6
03-Jun-25	10:38	60.6	56.0	
03-Jun-25	10:43	59.8	56.1	
03-Jun-25	10:48	59.7	57.1	
03-Jun-25	10:53	60.2	56.7	
03-Jun-25	10:58	60.1	57.0	58.3
03-Jun-25	11:03	59.9	56.4	
06-Jun-25	15:58	60.6	56.3	
06-Jun-25	16:03	60.3	55.8	
06-Jun-25	16:08	59.9	56.0	
06-Jun-25	16:13	60.3	55.7	58.4
06-Jun-25	16:18	59.3	55.7	
06-Jun-25	16:23	60.4	55.8	
12-Jun-25	10:40	59.8	56.4	
12-Jun-25	10:45	60.1	56.2	
12-Jun-25	10:50	60.4	56.4	58.2
12-Jun-25	10:55	60.1	55.8	
12-Jun-25	11:00	59.8	56.9	
12-Jun-25	11:05	60.4	56.9	
18-Jun-25	15:59	60.6	56.1	
18-Jun-25	16:04	59.5	57.0	58.4
18-Jun-25	16:09	59.2	55.8	
18-Jun-25	16:14	60.0	57.1	
18-Jun-25	16:19	60.1	56.1	
18-Jun-25	16:24	60.6	55.9	58.2
24-Jun-25	10:46	60.0	57.0	
24-Jun-25	10:51	59.7	56.9	
24-Jun-25	10:56	59.8	56.1	
24-Jun-25	11:01	59.6	57.1	
24-Jun-25	11:06	59.5	56.4	
24-Jun-25	11:11	60.3	56.4	



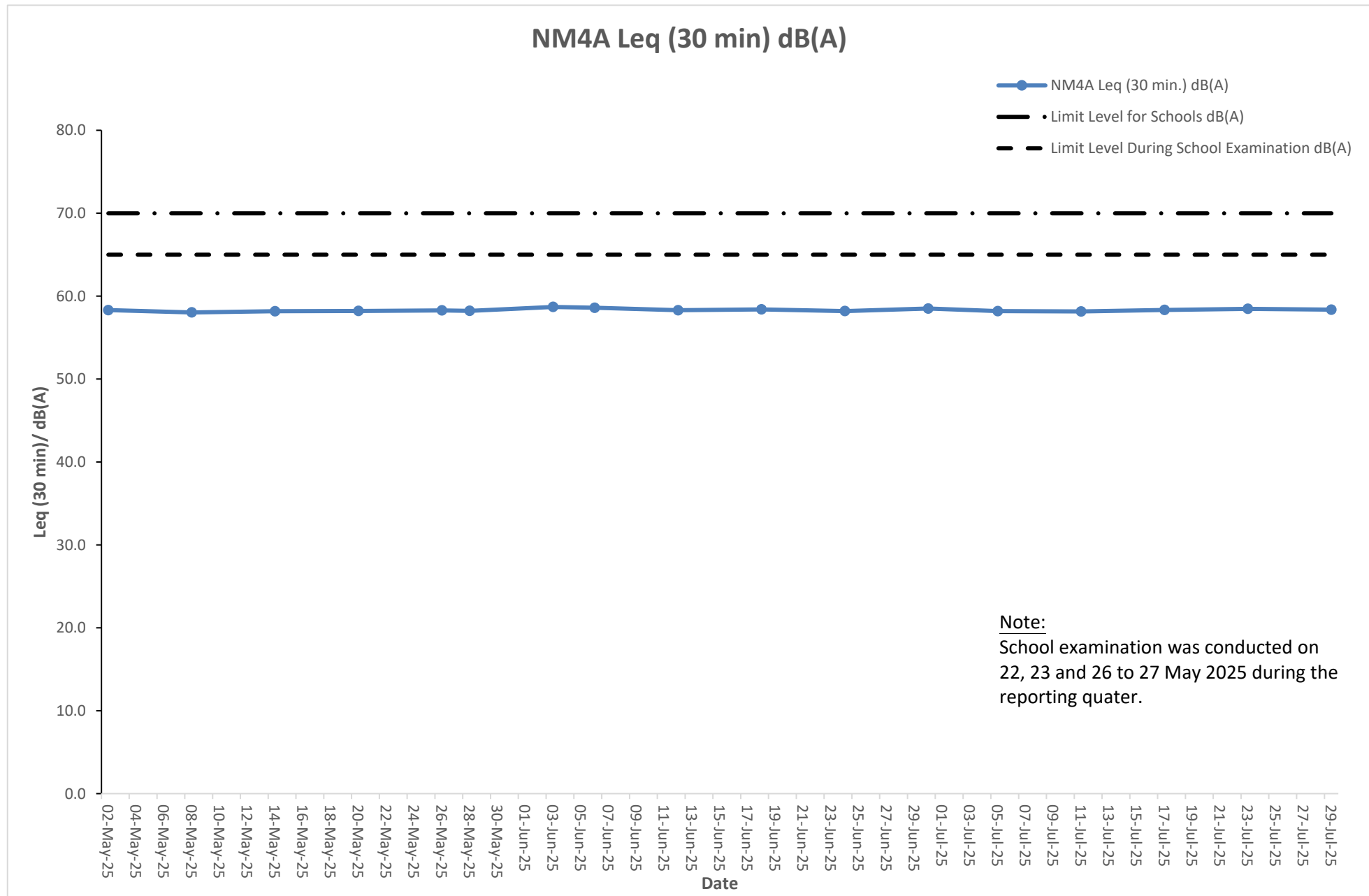
# Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Jun-25	16:01	60.4	57.1	58.5
30-Jun-25	16:06	60.3	56.0	
30-Jun-25	16:11	60.4	56.1	
30-Jun-25	16:16	60.5	56.5	
30-Jun-25	16:21	60.3	56.8	
30-Jun-25	16:26	59.5	57.0	
05-Jul-25	10:40	59.9	56.1	58.2
05-Jul-25	10:45	59.4	56.8	
05-Jul-25	10:50	59.2	56.9	
05-Jul-25	10:55	59.3	56.8	
05-Jul-25	11:00	60.0	57.1	
05-Jul-25	11:05	59.9	56.0	
11-Jul-25	15:56	59.2	56.6	58.2
11-Jul-25	16:01	59.9	55.9	
11-Jul-25	16:06	59.8	56.5	
11-Jul-25	16:11	59.3	56.6	
11-Jul-25	16:16	59.5	56.0	
11-Jul-25	16:21	59.2	56.6	
17-Jul-25	10:38	60.6	56.6	58.3
17-Jul-25	10:43	60.2	56.0	
17-Jul-25	10:48	60.6	55.9	
17-Jul-25	10:53	60.3	55.9	
17-Jul-25	10:58	60.4	56.0	
17-Jul-25	11:03	59.8	55.7	
23-Jul-25	16:02	59.2	56.1	58.5
23-Jul-25	16:07	59.5	57.0	
23-Jul-25	16:12	59.3	56.7	
23-Jul-25	16:17	59.7	57.1	
23-Jul-25	16:22	59.5	56.2	
23-Jul-25	16:27	59.3	56.4	
29-Jul-25	10:44	59.3	55.9	58.4
29-Jul-25	10:49	59.6	56.1	
29-Jul-25	10:54	60.1	56.5	
29-Jul-25	10:59	60.2	56.3	
29-Jul-25	11:04	60.5	55.9	
29-Jul-25	11:09	59.7	56.5	



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-May-25	7:50	61.5	57.8	60.4	63.4
02-May-25	7:55	62.3	57.4		
02-May-25	8:00	61.5	58.5		
02-May-25	8:05	61.6	57.6		
02-May-25	8:10	62.6	57.8		
02-May-25	8:15	61.4	57.5	60.1	63.1
08-May-25	14:40	62.0	58.8		
08-May-25	14:45	62.6	57.8		
08-May-25	14:50	62.1	57.8		
08-May-25	14:55	62.4	57.8		
08-May-25	15:00	61.5	59.0	60.5	63.5
08-May-25	15:05	62.1	58.3		
14-May-25	7:50	62.3	58.3		
14-May-25	7:55	62.3	58.4		
14-May-25	8:00	61.5	59.2		
14-May-25	8:05	62.8	57.7	60.7	63.7
14-May-25	8:10	62.2	58.7		
14-May-25	8:15	62.4	59.1		
20-May-25	14:38	61.5	59.3		
20-May-25	14:52	61.4	58.5		
20-May-25	14:57	61.6	58.7	60.8	63.8
20-May-25	15:02	61.4	58.5		
20-May-25	15:07	62.3	58.2		
20-May-25	15:12	61.7	58.2		
26-May-25	7:51	62.2	59.1		
26-May-25	8:05	62.1	57.6	60.3	63.3
26-May-25	8:10	62.0	58.9		
26-May-25	8:15	61.7	58.1		
26-May-25	8:20	62.5	58.6		
26-May-25	8:25	61.9	57.8		
28-May-25	14:38	61.6	59.0	60.8	63.8
28-May-25	14:52	62.2	58.9		
28-May-25	14:57	62.8	59.2		
28-May-25	15:02	62.3	58.5		
28-May-25	15:07	61.7	57.5		
03-Jun-25	7:53	62.1	58.4	60.3	63.3
03-Jun-25	7:58	62.8	59.2		
03-Jun-25	8:03	62.0	57.4		
03-Jun-25	8:08	61.5	57.9		
03-Jun-25	8:13	61.9	58.1		
03-Jun-25	8:18	62.6	57.7	60.3	63.3
06-Jun-25	14:42	62.5	58.3		
06-Jun-25	14:47	62.5	57.4		
06-Jun-25	14:52	62.7	58.5		
06-Jun-25	14:57	62.5	58.8		
06-Jun-25	15:02	62.1	58.1	60.4	63.4
06-Jun-25	15:07	61.5	58.7		
12-Jun-25	7:55	62.6	57.5		
12-Jun-25	8:00	62.8	58.7		
12-Jun-25	8:05	62.6	58.7		
12-Jun-25	8:10	62.5	58.0	60.3	63.3
12-Jun-25	8:15	62.2	59.3		
12-Jun-25	8:20	62.0	57.5		
18-Jun-25	14:37	62.3	57.6		
18-Jun-25	14:51	62.3	59.0		
18-Jun-25	14:56	62.2	58.8	60.5	63.5
18-Jun-25	15:01	61.5	58.4		
18-Jun-25	15:06	61.6	58.5		
18-Jun-25	15:11	62.0	59.1		
24-Jun-25	7:52	62.1	57.7		
24-Jun-25	8:06	62.2	59.0	60.5	63.5
24-Jun-25	8:11	62.1	57.4		
24-Jun-25	8:16	62.5	59.2		
24-Jun-25	8:21	61.7	58.1		
24-Jun-25	8:26	61.7	57.6		

# 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)
30-Jun-25	14:39	61.7	57.8	60.3	63.3
30-Jun-25	14:53	62.8	58.5		
30-Jun-25	14:58	62.5	57.8		
30-Jun-25	15:03	61.9	58.1		
30-Jun-25	15:08	62.2	58.3		
30-Jun-25	15:13	62.7	58.0	60.5	63.5
05-Jul-25	7:55	62.6	58.2		
05-Jul-25	8:00	61.7	58.3		
05-Jul-25	8:05	61.8	58.7		
05-Jul-25	8:10	62.0	57.8		
05-Jul-25	8:15	61.7	57.8	60.7	63.7
05-Jul-25	8:20	61.7	57.8		
11-Jul-25	14:40	62.0	57.9		
11-Jul-25	14:45	61.4	58.8		
11-Jul-25	14:50	61.7	57.8		
11-Jul-25	14:55	61.9	57.5	60.6	63.6
11-Jul-25	15:00	62.2	57.6		
11-Jul-25	15:05	62.6	58.5		
17-Jul-25	7:53	61.9	57.7		
17-Jul-25	7:58	61.8	59.0		
17-Jul-25	8:03	62.6	58.5	60.6	63.6
17-Jul-25	8:08	62.5	57.9		
17-Jul-25	8:13	61.7	58.6		
17-Jul-25	8:18	62.5	58.2		
23-Jul-25	14:40	62.5	58.3	60.6	63.6
23-Jul-25	14:54	62.0	58.2		
23-Jul-25	14:59	61.4	57.6		
23-Jul-25	15:04	61.4	58.0		
23-Jul-25	15:09	62.8	58.1	60.9	63.9
23-Jul-25	15:14	61.9	58.6		
29-Jul-25	7:50	62.3	58.9		
29-Jul-25	8:04	62.3	59.2		
29-Jul-25	8:09	62.6	58.1		
29-Jul-25	8:14	61.5	58.8	60.9	63.9
29-Jul-25	8:19	62.7	59.0		
29-Jul-25	8:24	62.5	58.8		

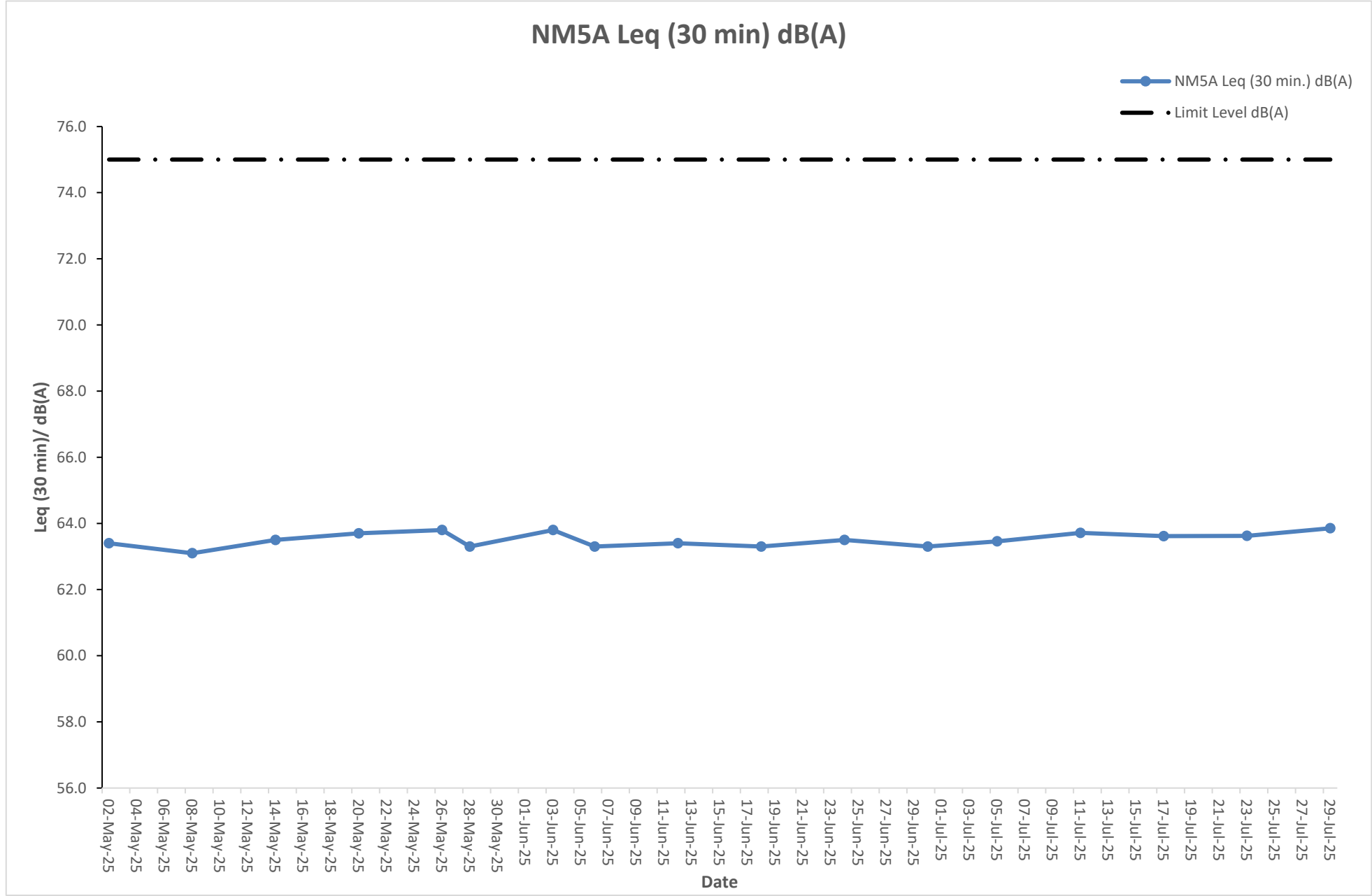
## Remarks:

+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



## F. 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 Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
<b>2024</b>													
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	0.00	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	0.00	214.34
<b>2025</b>													
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	0.00	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	11906.78	0.00	0.00	3799.18	8107.60	0.00	0.00	4.19	0.00	0.00	0.00	0.00	76.61
Aug													
Sep													
Oct													
Nov													
Dec													
Sub-total (2025)	40907.96	0.00	0.00	8892.22	31990.63	25.11	0.00	266.71	0.00	0.00	0.00	0.00	285.12
<b>Total</b>	<b>52421.58</b>	<b>0.00</b>	<b>0.00</b>	<b>16314.67</b>	<b>36071.62</b>	<b>35.29</b>	<b>0.00</b>	<b>418.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>499.46</b>

Note:

- Record for Public Fill and General Refuse updated to 27 Jul 25 according to the record on EPD's website.
- Chemical waste records on December 24 and April 25 are supplemented.



## **G. 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. 30 September 2021 for Zone 2B & 2C (Contract No.: CC/2020/2B/088); 05 July 2024 for Zones 2A, 2B & 2C (Contract No.: CC/2023/2B/095)) to the end of the reporting quarter and are summarized in the **Table G-1** and **Table G-2** below respectively.

**Table G-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 quarter (May 25 – Jul 25)	0	0	0
From 05 July 2024 to end of the reporting quarter	3	0	0