

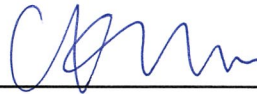
Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report
(November 2021 – January 2022)

February 2022

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:



CK WU

Environmental Team Leader (ETL)

West Kowloon Cultural District Authority

Date

03 March 2022

Verified by:



Claudine LEE

Independent Environmental Checker (IEC)

Meinhardt Infrastructure and Environment Ltd

Date

7 March 2022

This Report Consists of:

Part-1: EM&A at Lyric Theatre Complex

and

**Part-2: EM&A for Foundation Works in
Zones 2A, 2B & 2C**

Part-1: EM&A at Lyric Theatre Complex



Lyric Theatre Complex

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Executive summary

This Quarterly EM&A Report presents the monitoring works at Lyric Theatre Complex conducted from 1 November 2021 to 31 January 2022. 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 1,200-seat Lyric Theatre Complex will be Hong Kong's first world-class facility for dance performances, including ballet, contemporary and Chinese dance forms. In the run up to the opening of further major performing arts venues in the WKCD, it will also be used for a wide variety of performing arts events including drama, opera and musical performances. The Lyric Theatre Complex will act as a platform for Hong Kong's leading arts organisations and be a new major venue to show programmes from Asia and worldwide.

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 November 2021 to 31 January 2022. 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
 - Structure (Slab, wall, columns and beam)
 - Falsework and formwork erection
 - Reinforcement work
 - Concrete work
 - ABWF & MEP work
- ASDA and Lyric Theatre Promenade
 - Structure and BS works
- DSC cofferdam (Cofferdam A)
 - DCS related works
 - Backfilling
- Extended basement
 - ABWF & MEP work
 - RC Water Tank
 - RC Duct Slab (Forms/Rebar/Concrete)
 - Carpark area plaster and paint
- Underpass and Associated Area
 - RC Structure
 - ABWF & MEP work
- M+ Day 2 Works
 - Open excavation
 - Remove Plenum Block Wall & make good opening for Louvre
- P32 Interim Development
 - Structure works (Scaffold/forms/rebar concrete)

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 ³	260 µg/m ³
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 µg/m ³	500 µg/m ³
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 µg/m ³	260 µg/m ³
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 µg/m ³	500 µg/m ³
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	21	82	52
	AM2	30	95	59
24 hour TSP	AM1	11	75	37
	AM2	20	73	40
Construction Noise				
Leq(30min)	NM1A	67	69	68

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), 1134.8 tonnes, 42.5 tonnes and 182.4 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, while 1765.7 tonnes of general refuse were disposed of at SENT and WENT landfill. 102.8 tonnes of metals, 0.0 tonne 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 tonnes 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

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

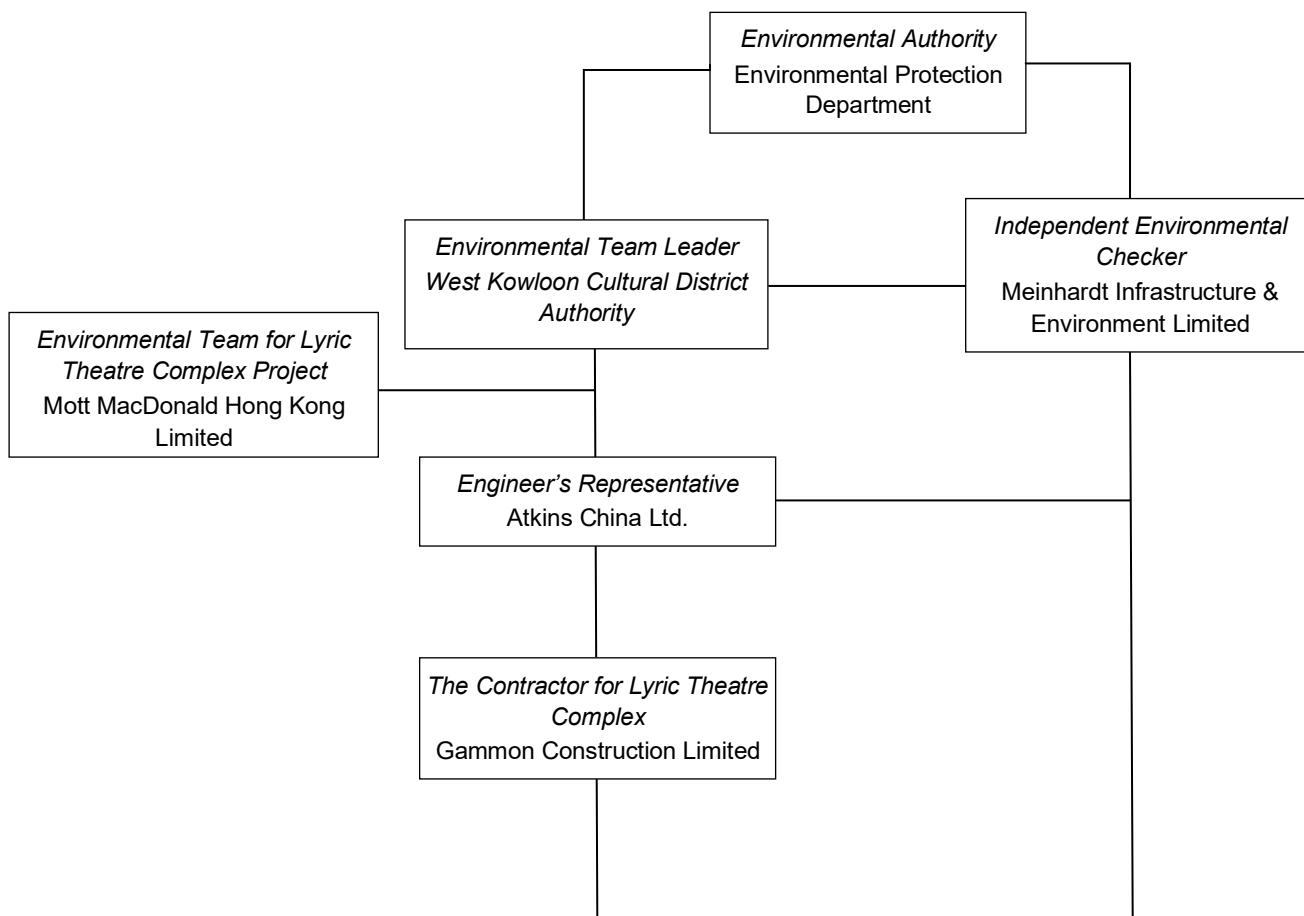


Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
Atkins China Ltd.	Resident Engineer	Ms. Gloria Lui	5506 6361	gloria.lui@atkinglobal.com
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	claudinelee@meinhardt.com.hk
Gammon Construction Limited (L2)	Environmental Manager	Mr. Ivan Chiu	9416 1664	ivan.chiu@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	Senior Project Manager (Safety, Health and Environment)	Mr. C.K. Wu	5506 9178	ck.wu@wkda.hk

B. Construction Programme

ID	Activity	RD	BL Start	BL Finish	Start	Finish	BL VAR	LM VAR	2020			2021				2022				2023				2024				025				
									Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
									J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
GENERAL & PRELIMINARIES																																
Contract Significant Dates																																
Commencement & Completion Dates																																
Section Keydates																																
KD05A	Complete Required Pedestrian Access Corridor and Floor Finishes at AURW	0		13-May-22		12-Nov-21 A	183	32																								
KD05B	Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed]	0		13-May-22		12-Nov-21 A	183	32																								
KD05	PC for HO of the Remaining Works for M+ Promenade South	0		21-Sep-21		31-Aug-22*	-344	-42																								
KD05C	PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed]	0		13-May-22		03-Sep-22*	-113	-264																								
KD08	PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instn Wrks	0		30-Oct-23		10-Sep-24*	-316	0																								
KD10	PC for HO of ASDA, Lyric Theatre Promenade South to Authority	0		30-Oct-23		10-Sep-24*	-316	0																								
KD09	PC for HO of RDE areas for Tenancy Fit-out Wrks	0		30-Oct-23		10-Sep-24*	-316	0																								
KD11	PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority	0		30-Dec-23		12-Nov-24*	-318	0																								
KD07	PRACTICAL COMPLETION for CWay 3A (M+ Day 2 Works)	0		27-Jan-24		09-Dec-24*	-317	0																								
KD13	PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & CWay 3B	0		27-Jan-24		09-Dec-24*	-317	0																								
Stage Keydates																																
KD01	Compl Dsgn Coord/Subm and obtn NNO for L1 Contr Bsmt constn wrks	0		20-Jul-19		20-Jul-19 A	0	0																								
KD06	PC for Fountain Related Plantroom(s)	0		30-Apr-22		09-Jun-22*	-40	0																								
KD03	OBTAIN OP for Lyric Theatre & Extended Basement	0		30-Oct-23		10-Sep-24*	-316	0																								
KD14	Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement	0		14-Nov-23		26-Sep-24*	-317	0																								
KD02	Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works	0		27-Dec-23		08-Nov-24*	-317	0																								
Summary Program - Level 1																																
SUM10	[LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete	31	02-May-20	24-May-21	06-May-20 A	08-Jan-22	-171	-6																								
SUM14	[LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works)	819	24-Nov-20	01-Nov-23	28-May-21 A	17-Sep-24	-257	0																								
SUM11	[LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete	438	08-Mar-21	26-Jul-22	02-Jul-21 A	12-Jul-23	-262	0																								
SUM15	[LoE] CC_B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.)	692	20-Mar-21	30-May-23	31-Dec-21	16-May-24	-282	0																								
SUM41	[LoE] CC_B Lyric Theatre - Structural Steel by CSD	479	05-Jun-21	01-Nov-22	08-Jan-22	20-Oct-23	-262	0																								
SUM12	[LoE] CC_B Lyric Theatre - EWS Weather Tight Type	371	03-Nov-21	30-Sep-22	25-Apr-22	09-Sep-23	-257	0																								
SUM17	[LoE] CC_B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning	557	21-Dec-21	27-Jan-24	16-Jan-23	07-Dec-24	-253	0																								
SUM13	[LoE] CC_B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3	290	27-May-22	29-Apr-23	04-Mar-23	25-Mar-24	-247	0																								
SUM16	[LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical)	126	07-Jan-23	04-Jul-23	05-Dec-23	16-May-24	-254	0																								
SUM18	[LoE] CC_B Lyric Theatre, EB, CWay 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP)	98	05-Jul-23	30-Oct-23	17-May-24	10-Sep-24	-254	0																								
SUM21	[LoE] CC_C - LT EVA1 & EVA2	752	27-Oct-20	09-Oct-23	12-Apr-21 A	09-Sep-24	-252	0																								
SUM23	[LoE] CC_C - Artist SQ. Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA)	706	11-Feb-21	27-Oct-23	21-Jun-21 A	08-Jul-24	-192	0																								
SUM22	[LoE] CC_C - HoR Development (P32-1, P29-1, P31-EVA)	656	02-Nov-22	27-Oct-23	03-Aug-21 A	27-Apr-24	-142	0																								
SUM20	[LoE] CC_C - LT Promenade & Pocket Square Bridge	716	08-May-21	07-Aug-23	10-Jan-22	02-Sep-24	-291	-18																								
SUM24	[LoE] CC_D - Remaining Works for M+ Promenade South	202	07-Nov-20	21-Sep-21	18-Feb-21 A	31-Aug-22	-256	-30																								
SUM25	[LoE] CC_E - DCS Cofferdam A Works & Obtain BA14	370	22-Jun-20	25-Apr-22	23-Jun-20 A	04-Apr-23	-259	-36																								
SUM42	[LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall)	519	11-Jul-22	08-Oct-22	08-Sep-21 A	02-Nov-23	-291	-18																								
SUM26	[LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps)	188	30-Nov-20	31-Aug-21	06-Dec-21	17-Aug-22	-261	-6																								
SUM27	[LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck)	646	24-Nov-20	17-Mar-23	15-May-21 A	17-Feb-24	-269	0																								
SUM28	[LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck)	628	04-Feb-21	24-Feb-23	17-May-21 A	20-Jan-24	-269	0																								
SUM29	[LoE] CC_G Extended Basement - T&C	374	13-May-22	17-Mar-23	05-Nov-22	17-Feb-24	-269	0																								
SUM30	[LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19)	0	02-May-20	29-Dec-20	09-May-20 A	10-Feb-21 A	-35	0																								
SUM31	[LoE] CC_I Carriageway 3B - ABWF Works	350	24-Nov-20	27-Oct-22	12-Aug-21 A	14-Feb-23	-85	-16																								
SUM32	[LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix)	288	14-May-21	02-Sep-22	07-Jan-22	29-Dec-22	-97	-24																								
SUM33	[LoE] CC_J Underpass 3B & Associated Area - T&C	149	08-Jul-22	12-Nov-22	11-Apr-23	07-Oct-23	-263	0																								
SUM35	[LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover)	749	23-Mar-21	03-Aug-23	03-Jun-21 A	25-Jun-24	-261	0																								
SUM38	[LoE] CC_J - M+ Day 2 FS Changeover in 3A SZ_1, Connections to M+, Integrated T&C	99	19-Jul-23	14-Nov-23	31-May-24	26-Sep-24	-254	0																								
SUM34	[LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14)	56	20-Oct-23	27-Dec-23	02-Sep-24	08-Nov-24	-254	0																								
SUM39	[LoE] CC_K - Water Main at Promenade	227	26-Apr-22	12-Jan-23	06-Apr-23	05-Feb-24	-291	-18																								
SUM40	[LoE] CC_N Lifts & Escalators	635	23-Aug-21	28-Apr-23	15-Dec-21	19-Feb-24	-238	0																								



	Base Line ACT		Current - MEP Works
	Base Line MS		Current - ABWF Works
	Milestone		Current - Facade Works
	Current - Other Works		Critical Works
	Current - Struct Works		Actual

L2 CMWP_R01_15 Approved 29Sep20 - 15th Update DD=30 Nov 2021

Date	Revision	Checked	Approved
06-Dec-21	CMWP Rev_1_15 - 15th Update DD 30Nov21	NS	IH

C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	Dec 2021	Jan 2022
Air Quality Impact (Construction)				
2.1 & 10.3.1	<p>General Dust Control Measures</p> <p>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)</p>	Rem	Obs	Obs
2.1 & 10.3.1	<p>Best Practice For Dust Control</p> <p>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:</p> <p><i>Good Site Management</i></p> <ul style="list-style-type: none"> • 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. <p><i>Disturbed Parts of the Roads</i></p> <ul style="list-style-type: none"> • Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. <p><i>Exposed Earth</i></p> <ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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. <p><i>Loading, Unloading or Transfer of Dusty Materials</i></p>	Obs	Obs	Obs
		✓	✓	✓
		✓	✓	✓
		N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	✓
	<i>Debris Handling</i>			
	<ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓	✓
	<ul style="list-style-type: none"> Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	✓	✓	✓
	<i>Transport of Dusty Materials</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Wheel washing</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Use of vehicles</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Site hoarding</i>			
	<ul style="list-style-type: none"> Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	✓	✓	✓
2.1 & 10.3.1	<p>Best Practicable Means for Cement Works (Concrete Batching Plant)</p> <p>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</p>			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection 	N/A	N/A	N/A
	<p>Emission Limits</p> <ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	N/A	N/A	N/A
	<p>Engineering Design/Technical Requirements</p> <ul style="list-style-type: none"> As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 	N/A	N/A	N/A
	<p>Non-Road Mobile Machinery (NRMM): All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.</p>	✓	✓	✓
Noise Impact (Construction)				
3.1 & 10.4.1	<p>Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:</p> <ul style="list-style-type: none"> only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	Obs
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓
	Adoption of Quieter PME			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
3.1 & 10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓	✓	✓
3.1 & 10.4.1	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓	✓	✓
3.1 & 10.4.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓	✓	✓
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, piling 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.	✓	Obs	Rem
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A	N/A
Water Quality Impact (Construction)				
Construction site runoff and drainage				

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
4.1 & 10.5.1	<p>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:</p> <ul style="list-style-type: none"> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓	✓	✓
		✓	✓	✓
		✓	Obs	✓
		✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A	N/A	N/A
	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p>			
	<ul style="list-style-type: none"> All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A	N/A
4.1 & 10.5.1	<p>Sewage effluent from construction workforce</p> <p>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.</p>	✓	✓	✓
4.1 & 10.5.1	<p>General construction activities</p> <ul style="list-style-type: none"> Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	<p>✓</p> <p>Obs</p>	<p>✓</p> <p>Obs</p>	<p>✓</p> <p>Obs</p>
Waste Management Implications (Construction)				
6.1 & 10.7.1	<p>Good Site Practices</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical handling procedures 	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Provision of sufficient waste disposal points and regular collection of waste 	Obs	Rem, Obs	✓
	<ul style="list-style-type: none"> Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	✓	✓	✓
	<ul style="list-style-type: none"> Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	✓	✓	✓
	<ul style="list-style-type: none"> Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓
6.1 & 10.7.1	<p>Waste Reduction Measures</p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force Proper site practices to minimise the potential for damage or contamination of inert C&D materials Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes 	✓	✓	✓
6.1 & 10.7.1	<p>Inert and Non-inert C&D Materials</p> <p>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.</p> <ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site. 	✓	✓	✓
6.1 & 10.7.1	<p>Chemical Waste</p> <ul style="list-style-type: none"> If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	✓	✓	✓
6.1 & 10.7.1	<p>General Refuse</p> <p>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.</p>	Obs	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	Dec 2021	Jan 2022
Land Contamination (Construction)				
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"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised; Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and 	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		
		Nov 2021	L2 Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A
Ecological Impact (Construction)				
No mitigation measure is required.				
Landscape and Visual Impact (Construction)				
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	✓	✓	✓
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

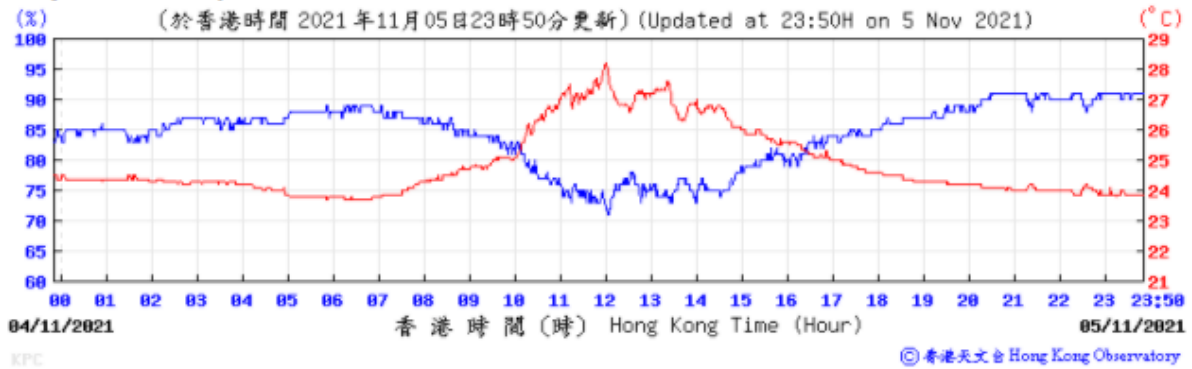
EM&A Ref.	Recommendation Measures	Implementation Stage		
		Nov 2021	L2 Dec 2021	Jan 2022
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary 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	✓	✓	✓
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

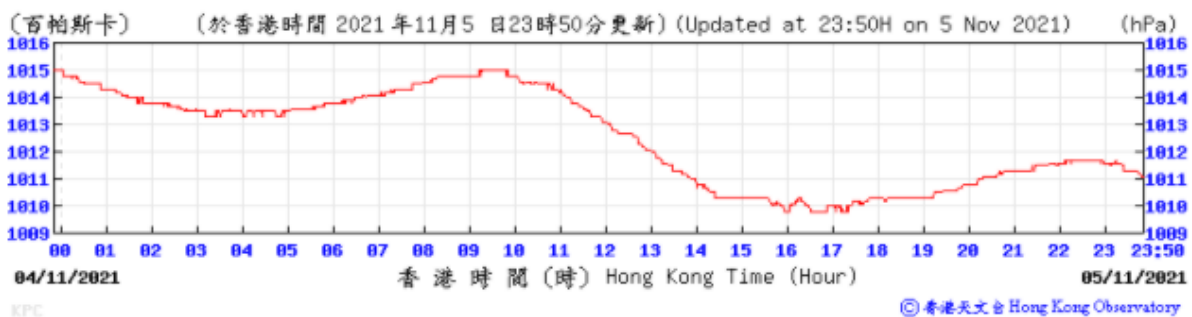
D. Meteorological Data Extracted from Hong Kong Observatory

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

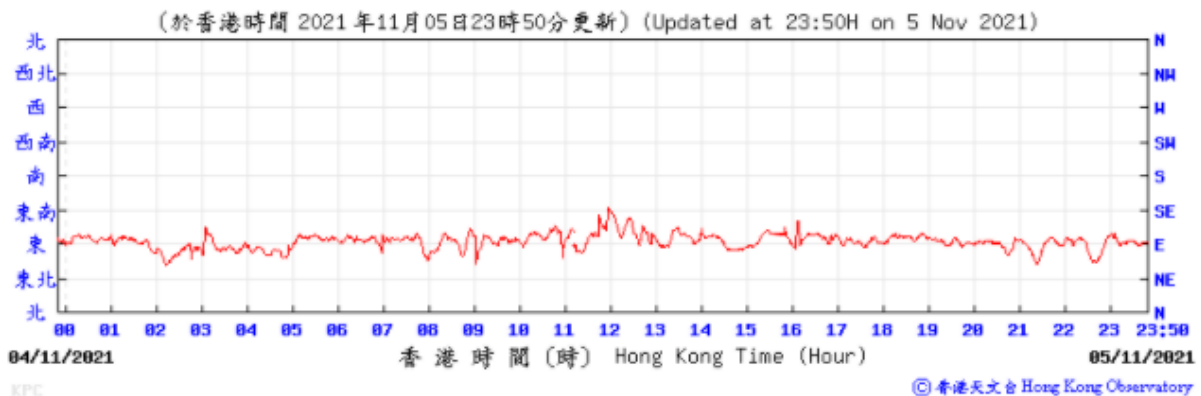
Temperature/Humidity:



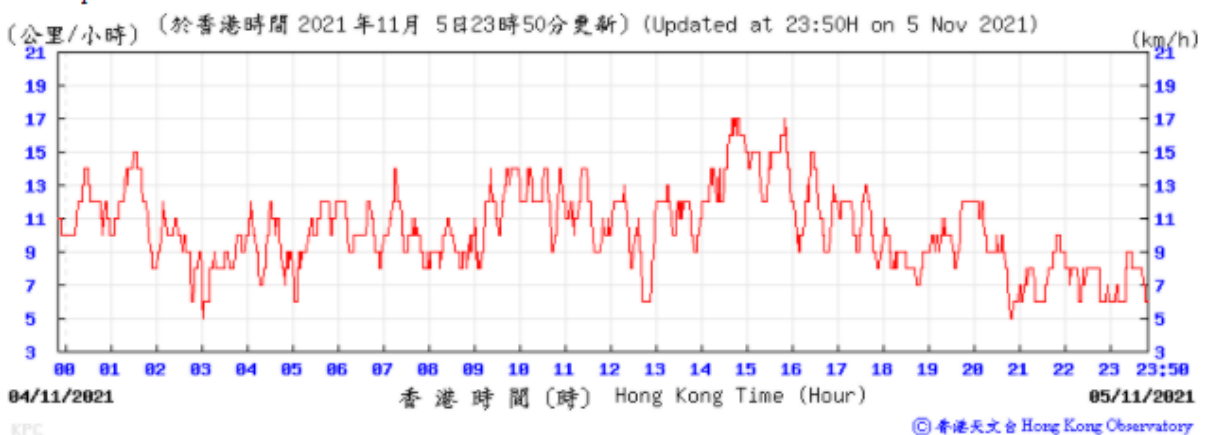
Pressure:



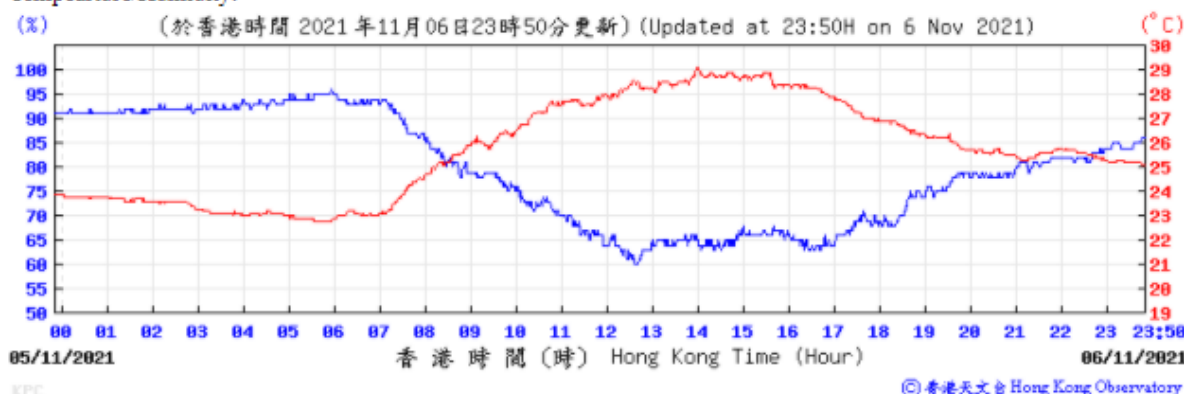
Wind Direction:



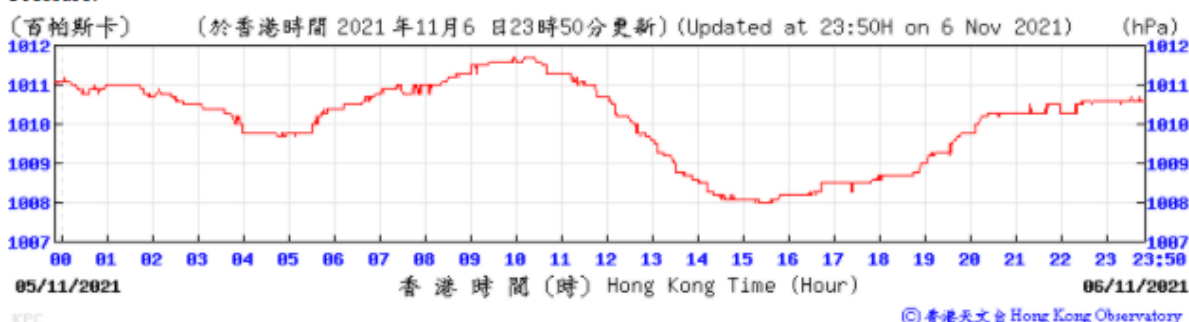
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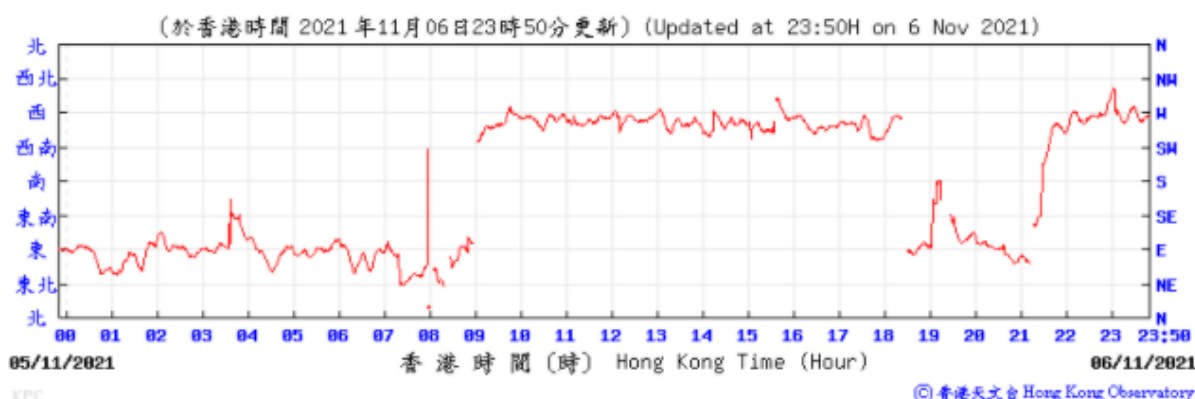
Temperature/Humidity:



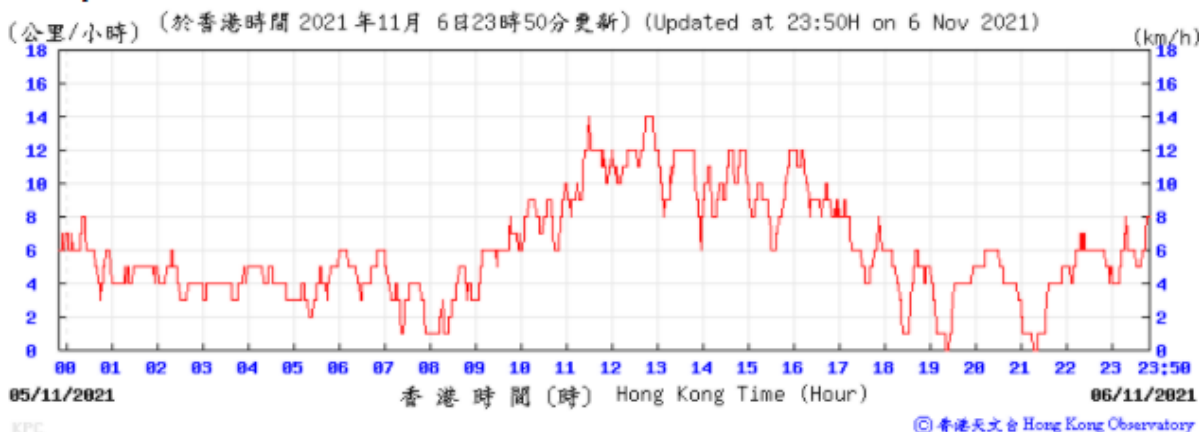
Pressure:



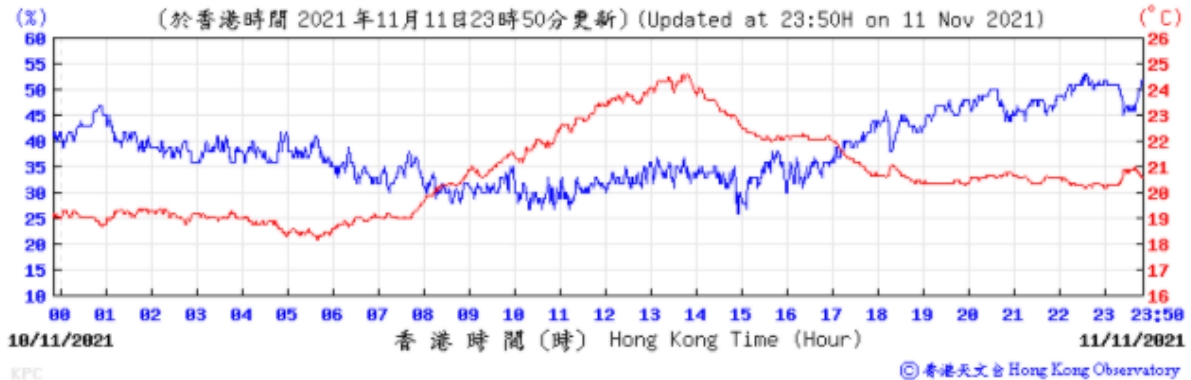
Wind Direction:



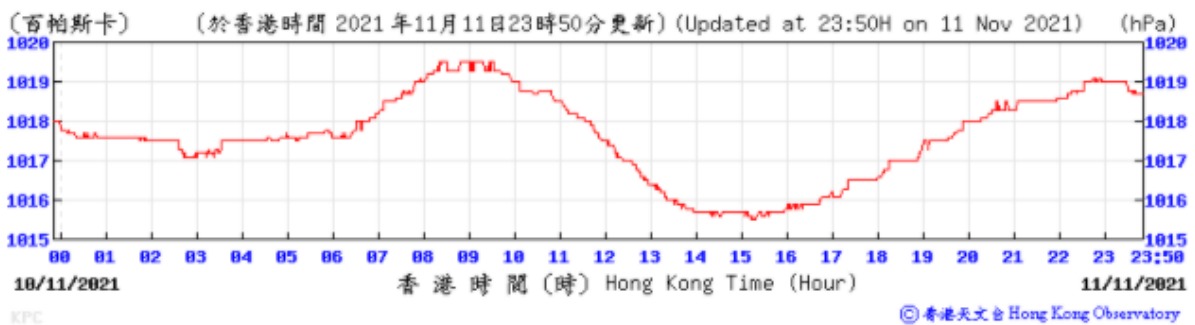
Wind Speed:



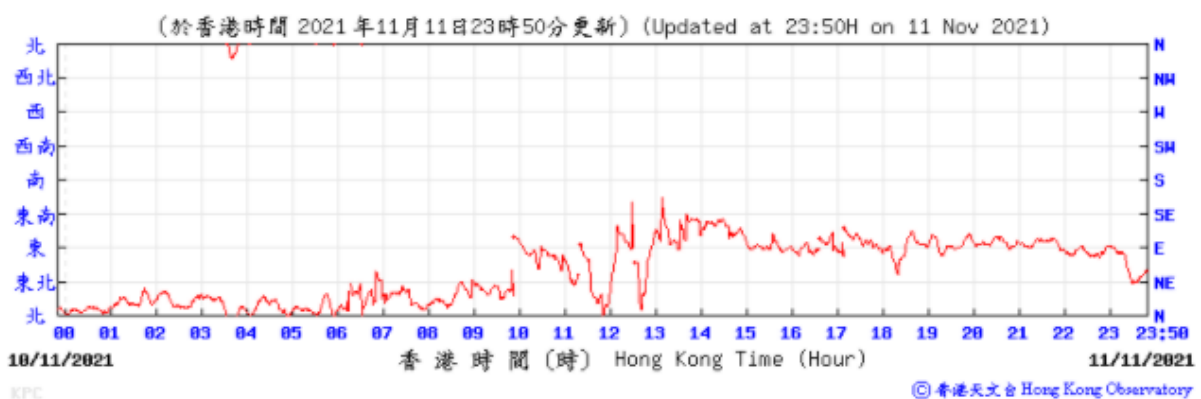
Temperature/Humidity:



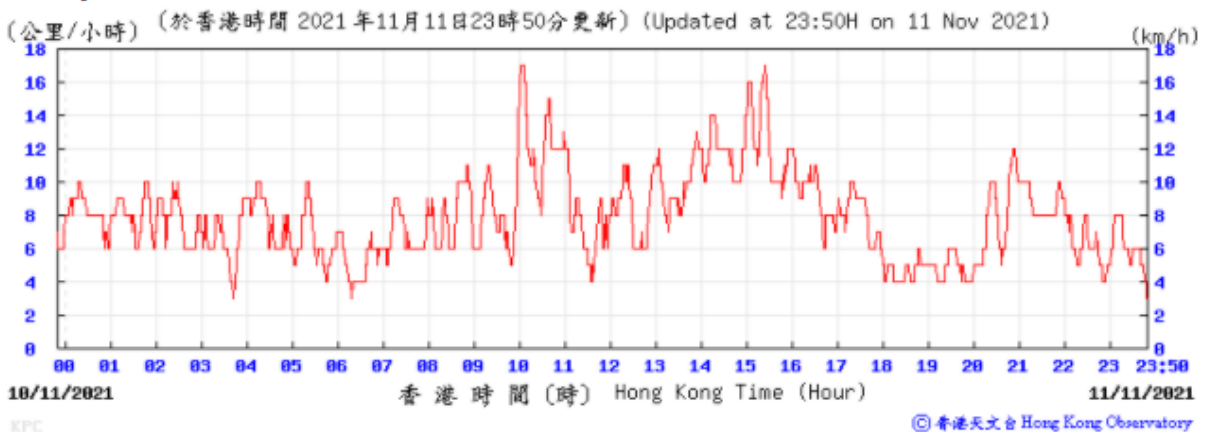
Pressure:



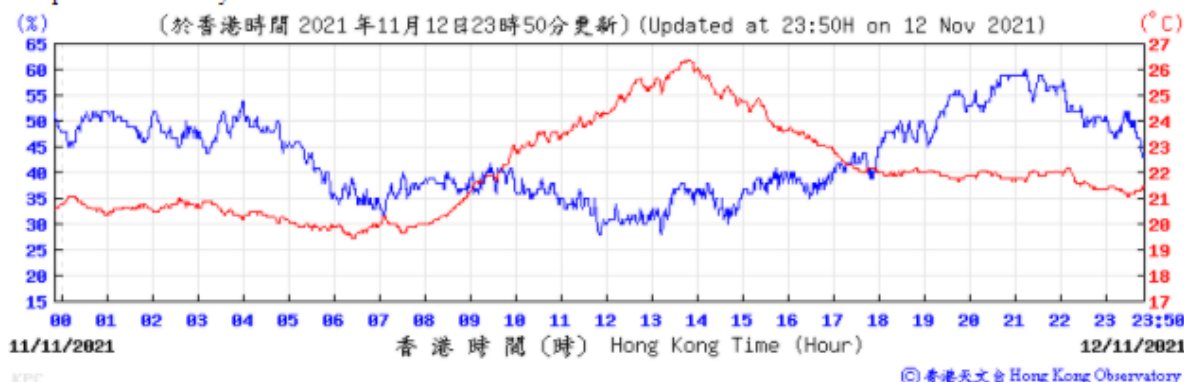
Wind Direction:



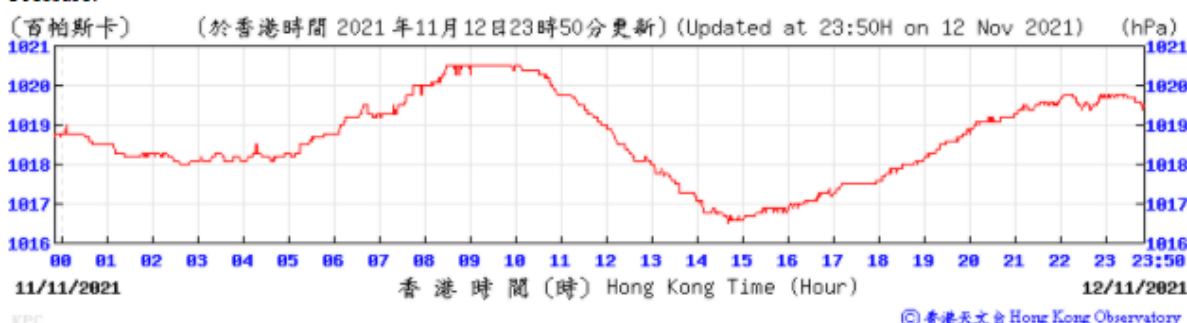
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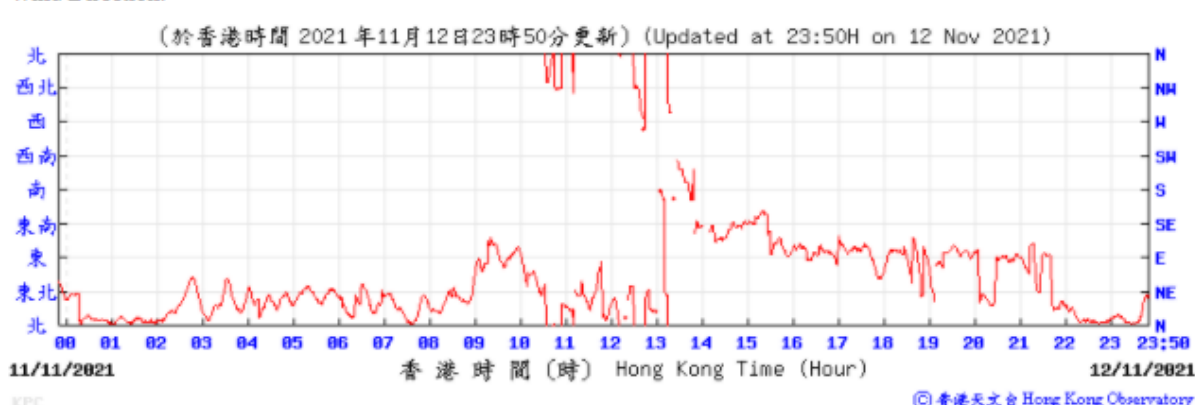
Temperature/Humidity:



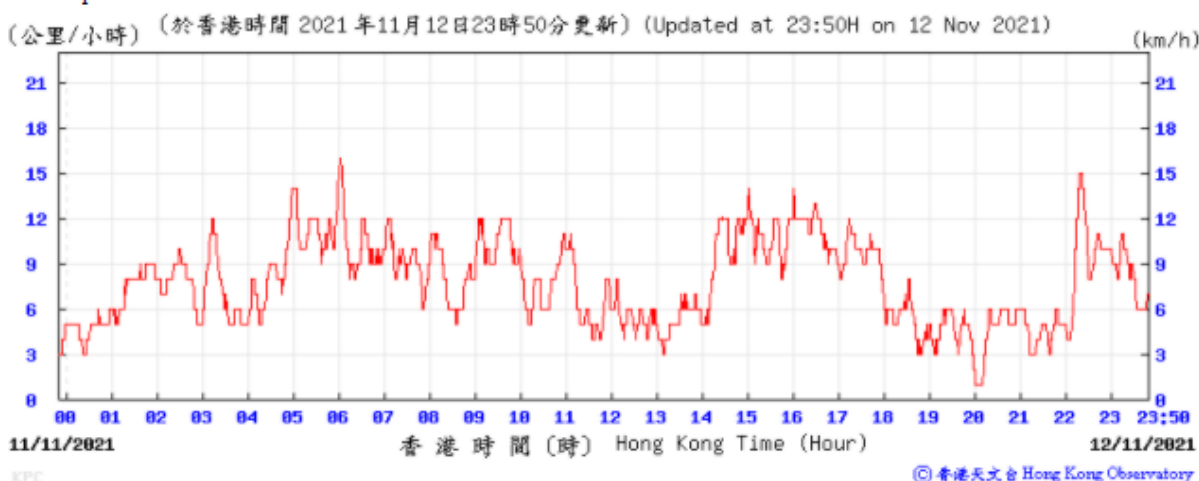
Pressure:



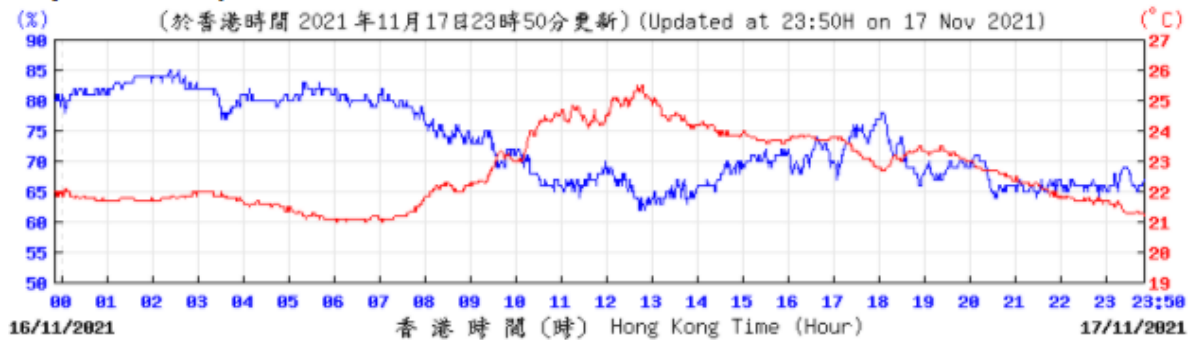
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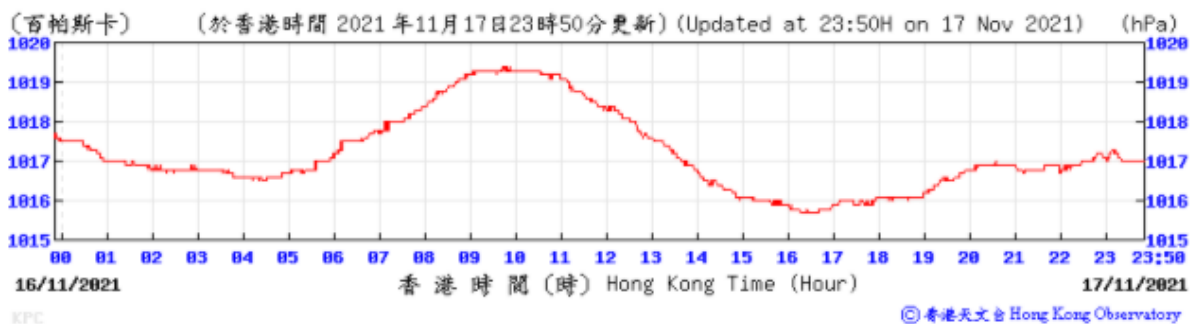
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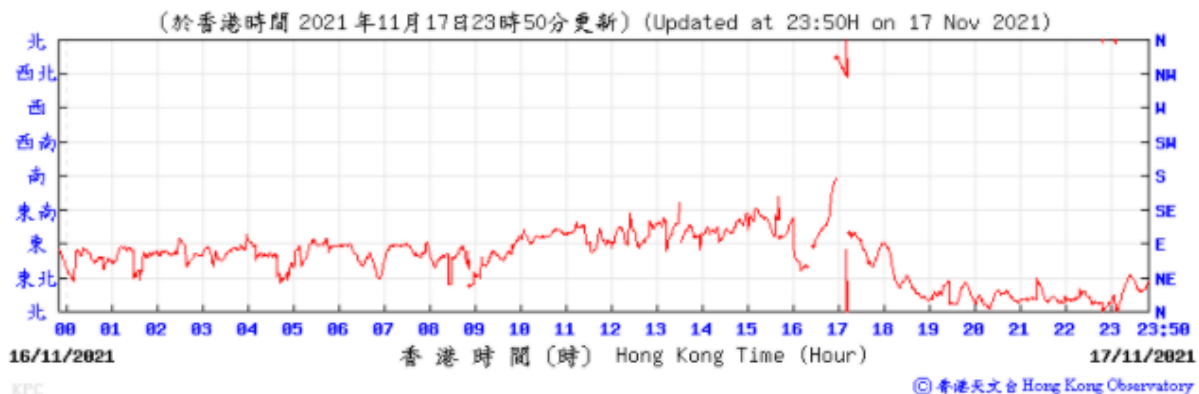
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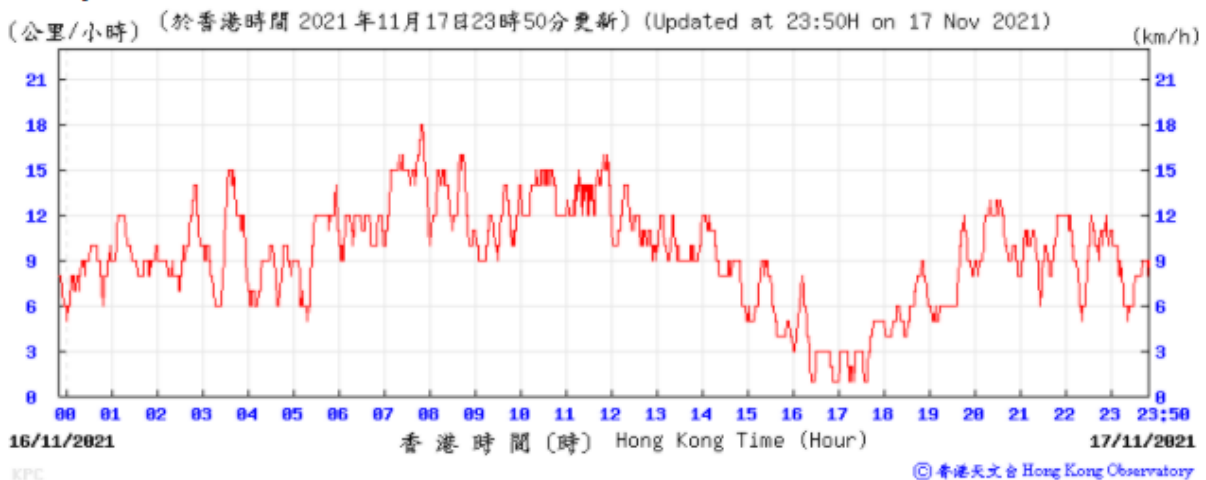
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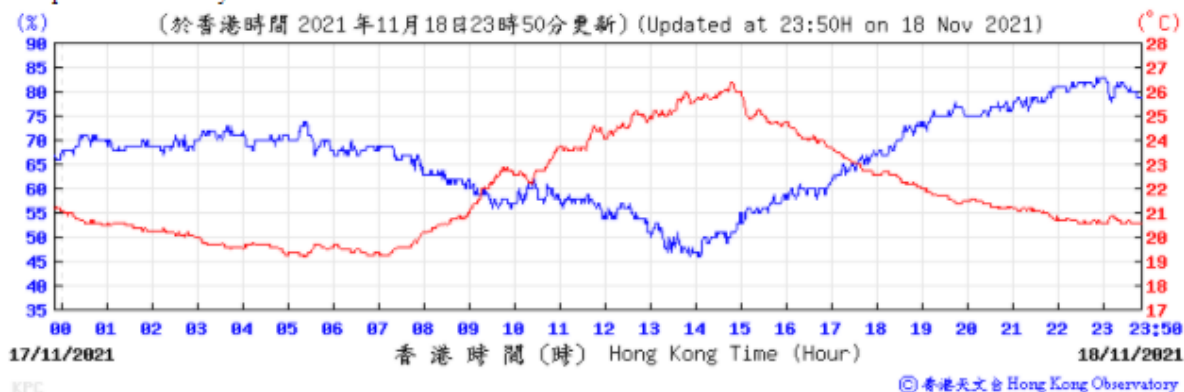
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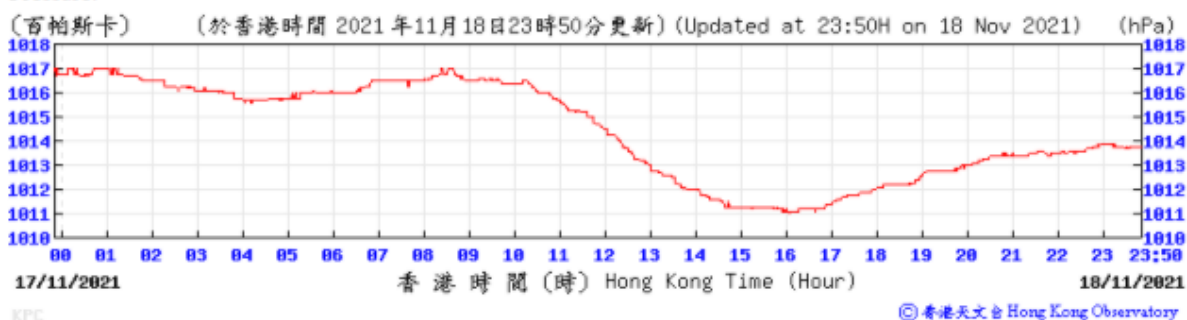
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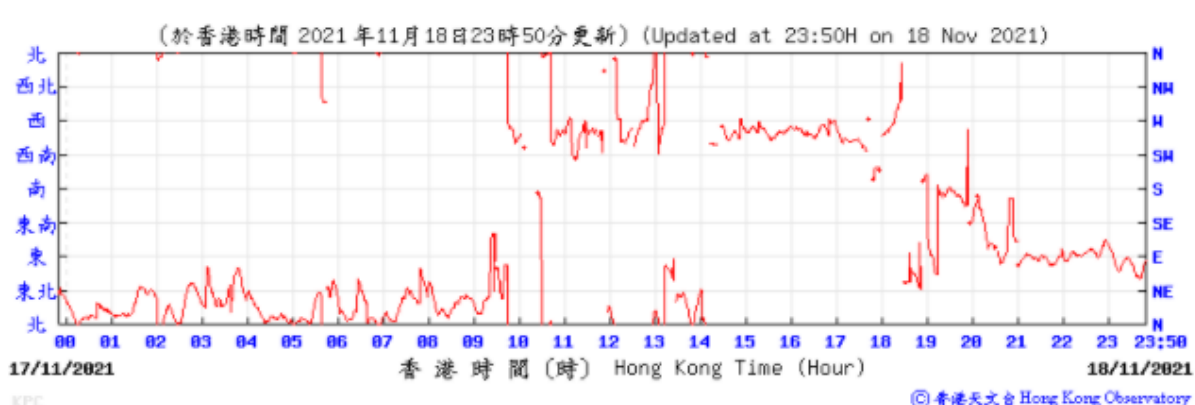
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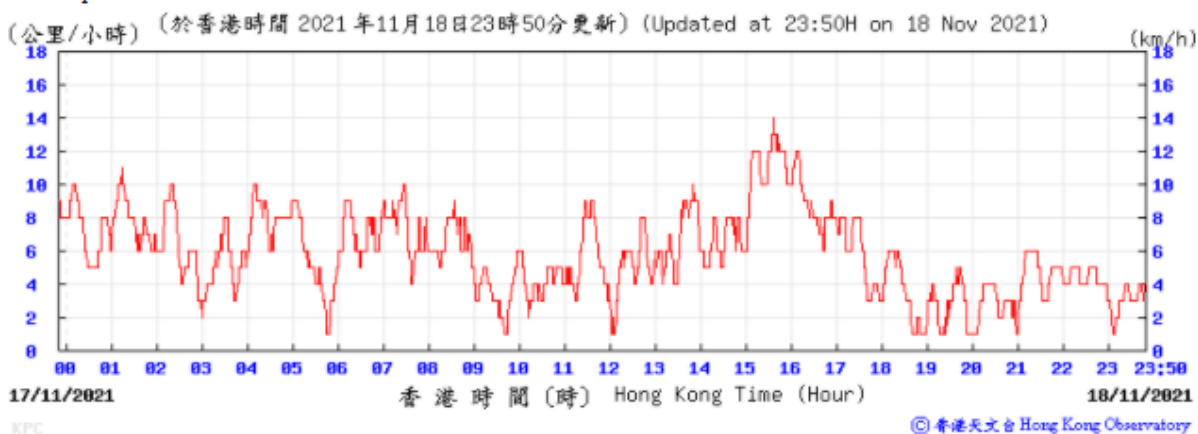
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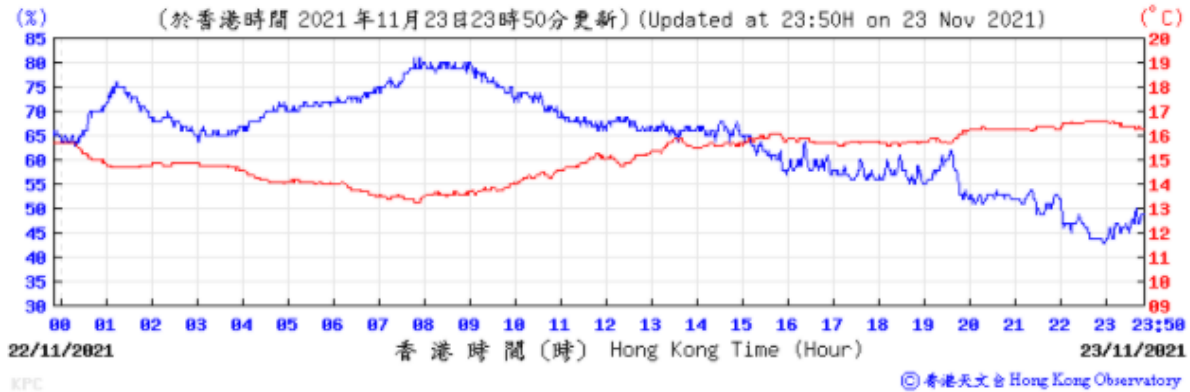
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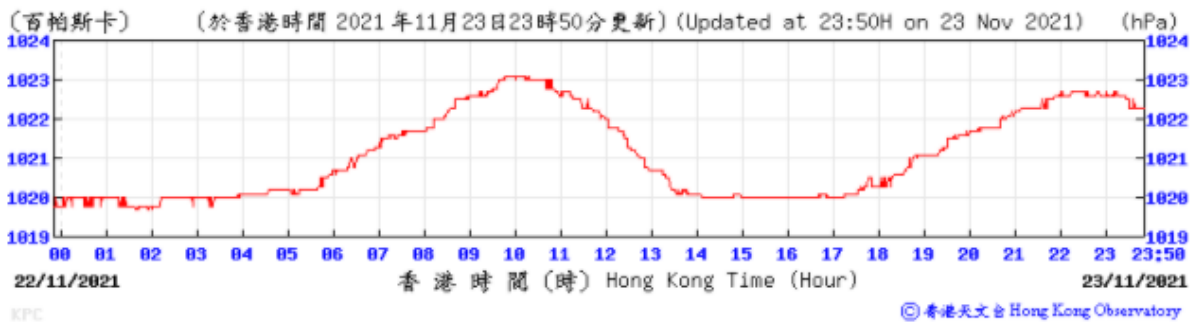
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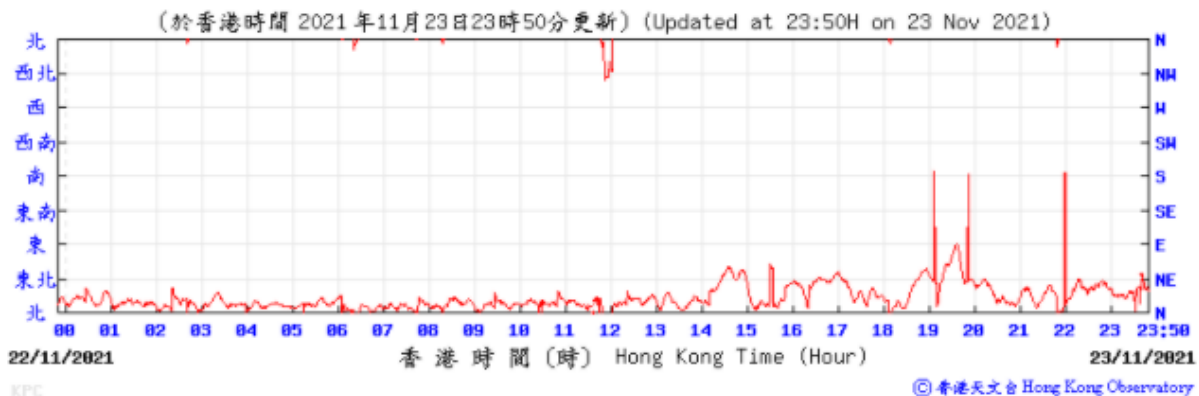
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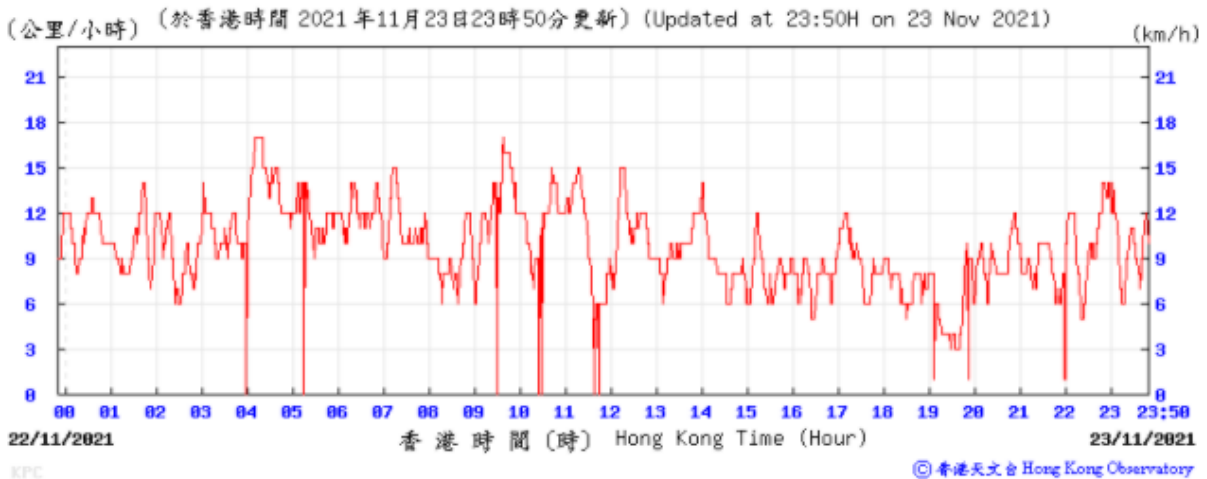
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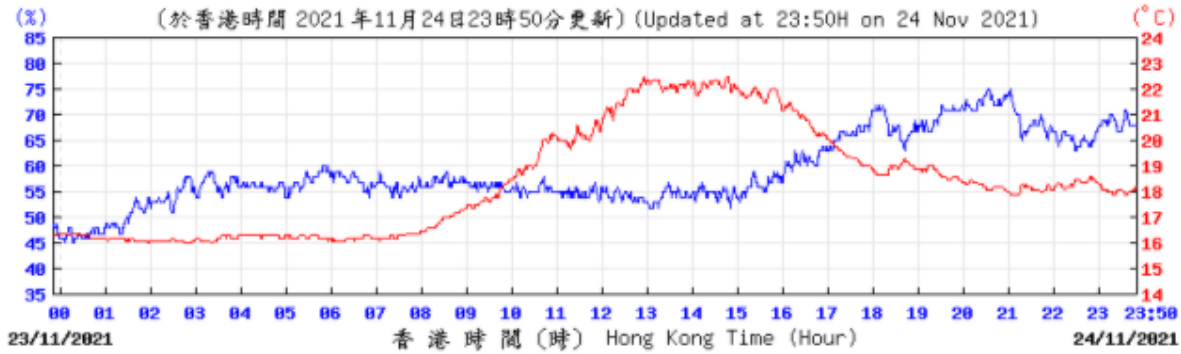
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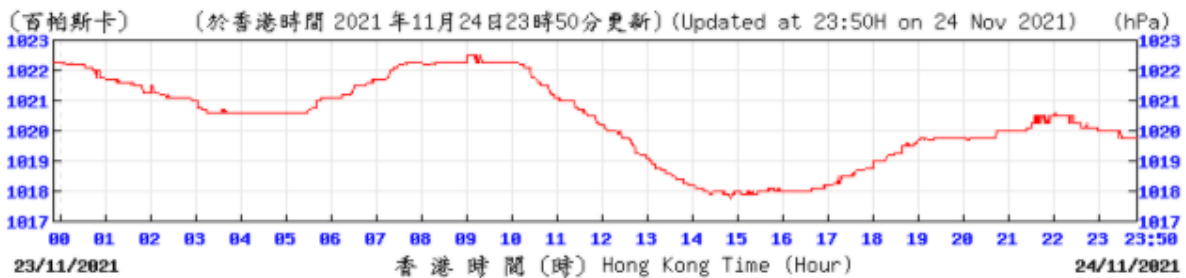


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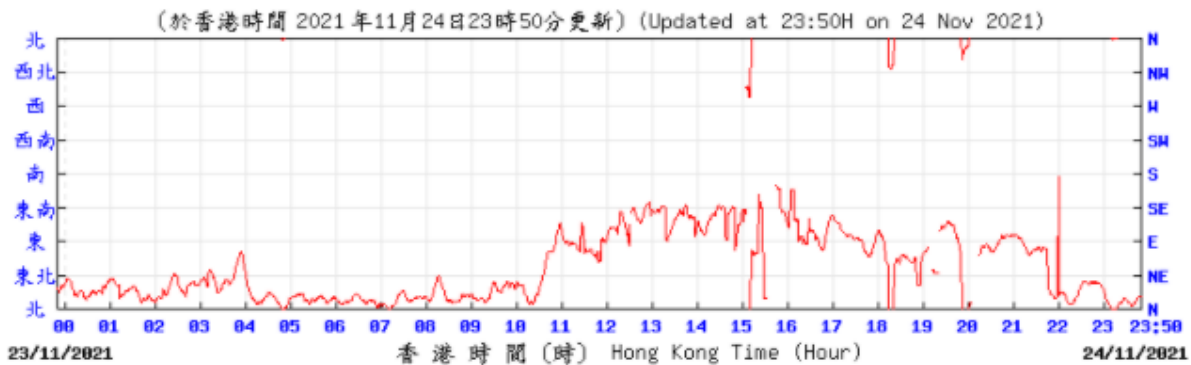
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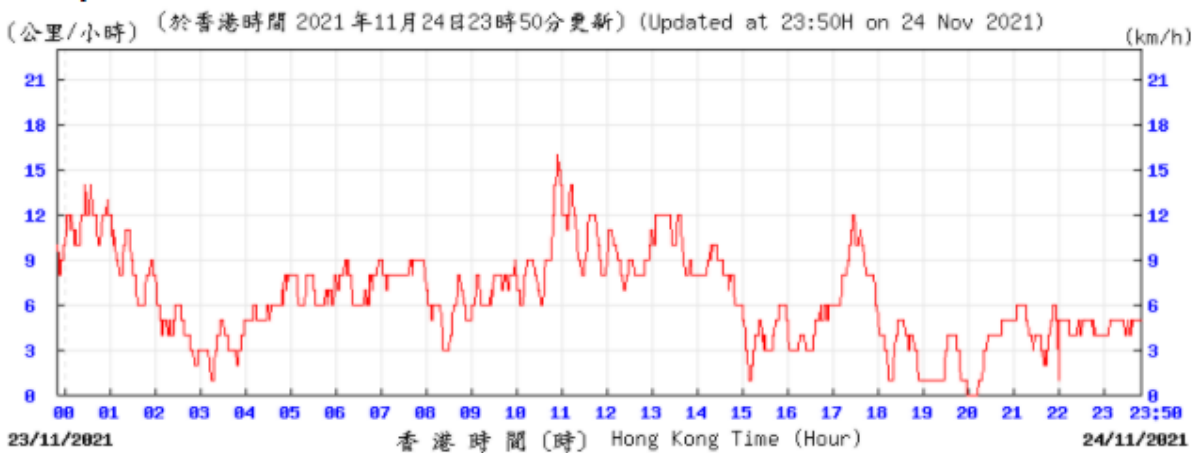
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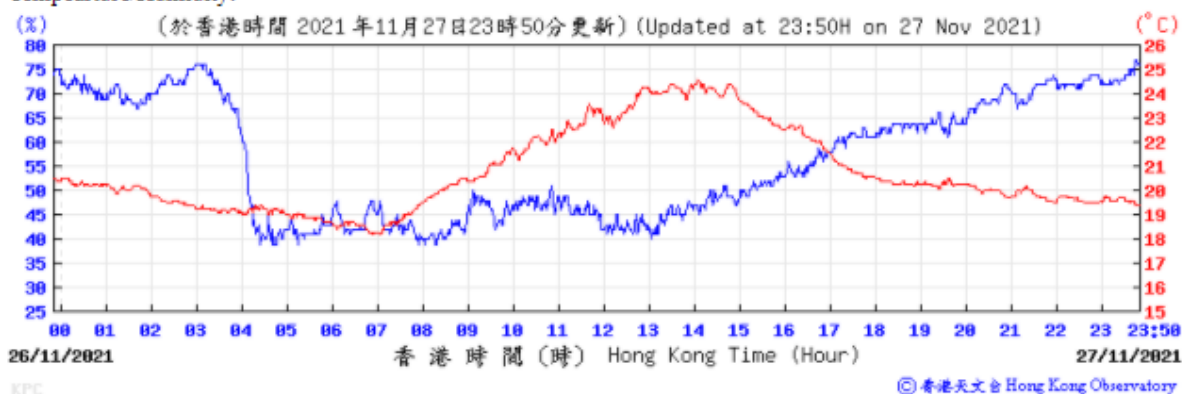
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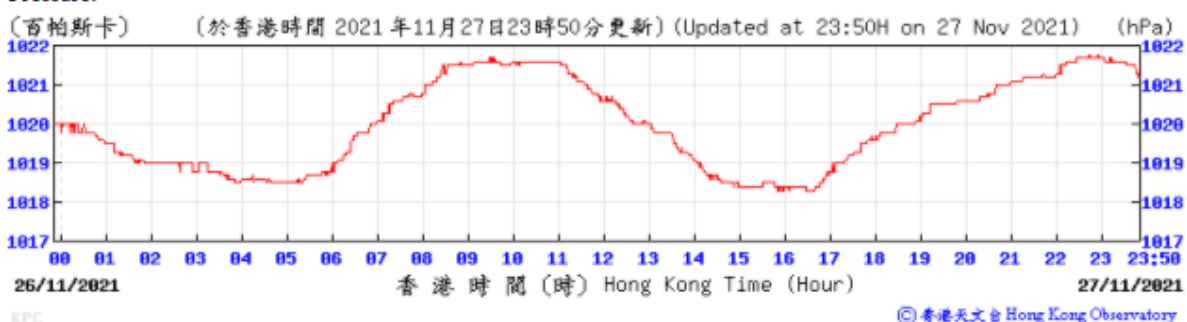


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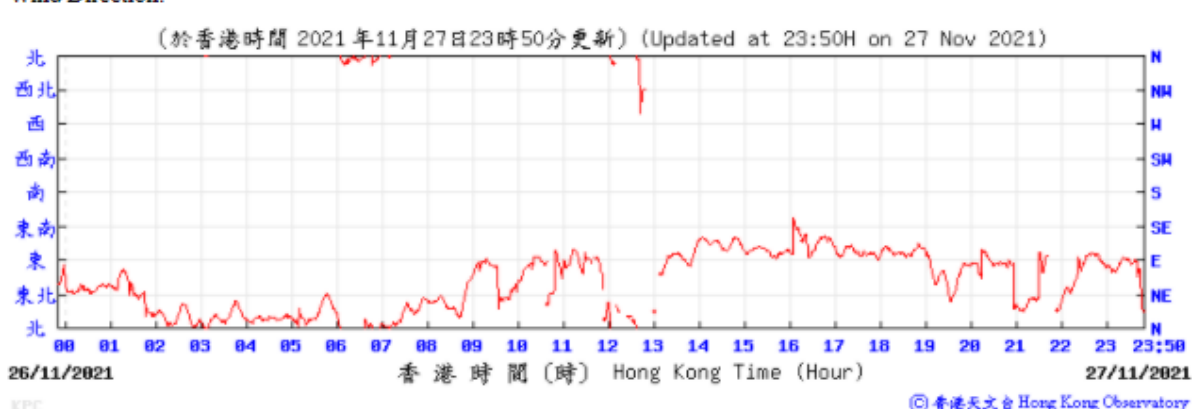
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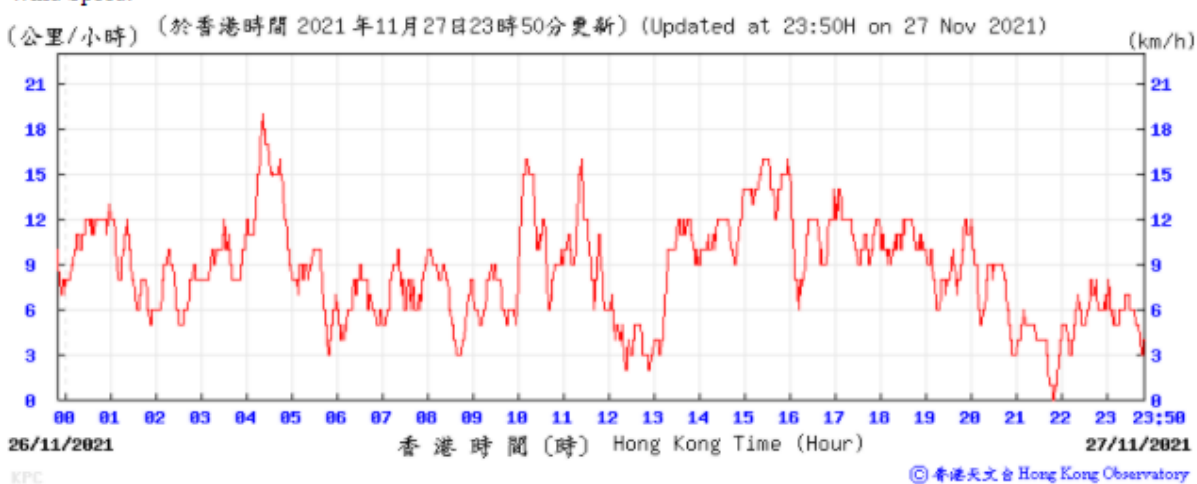
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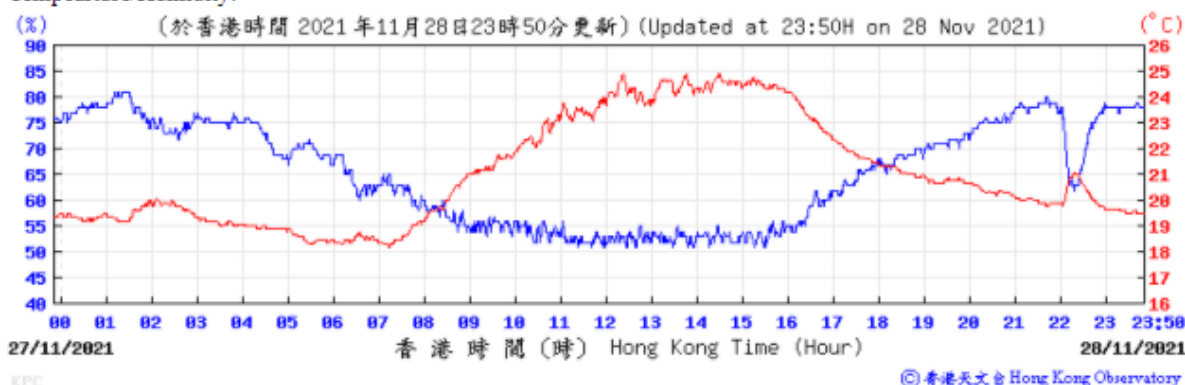
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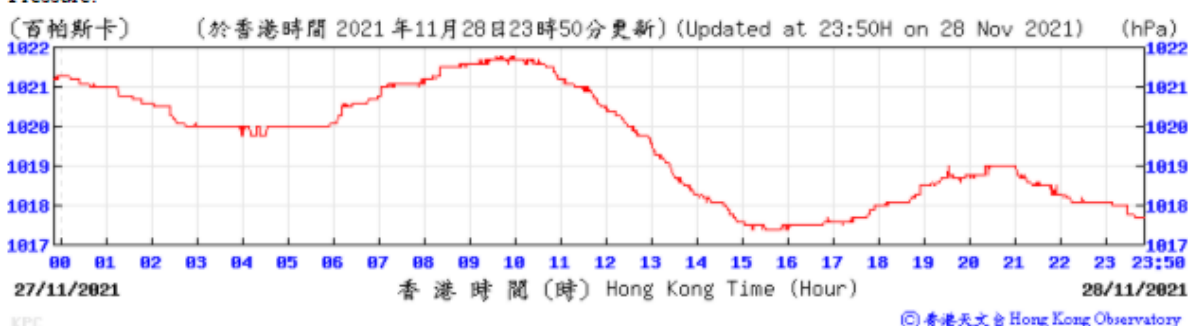
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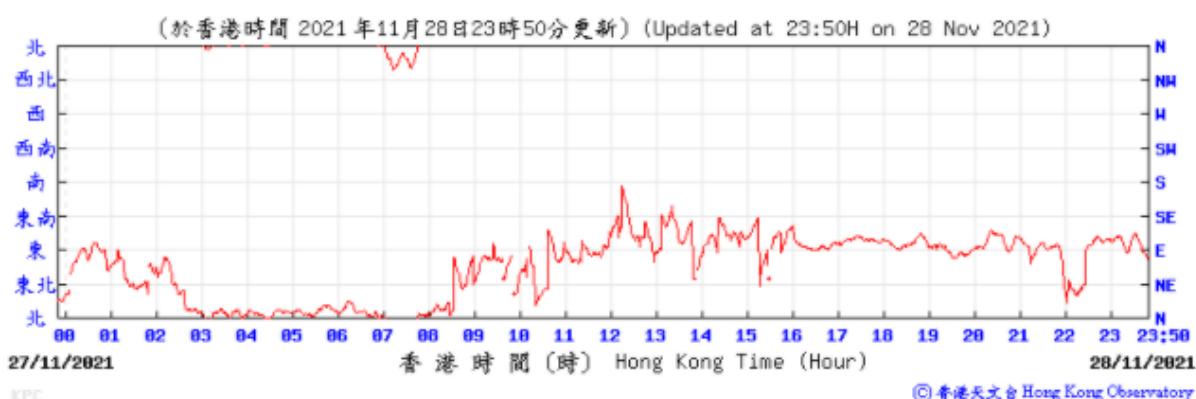
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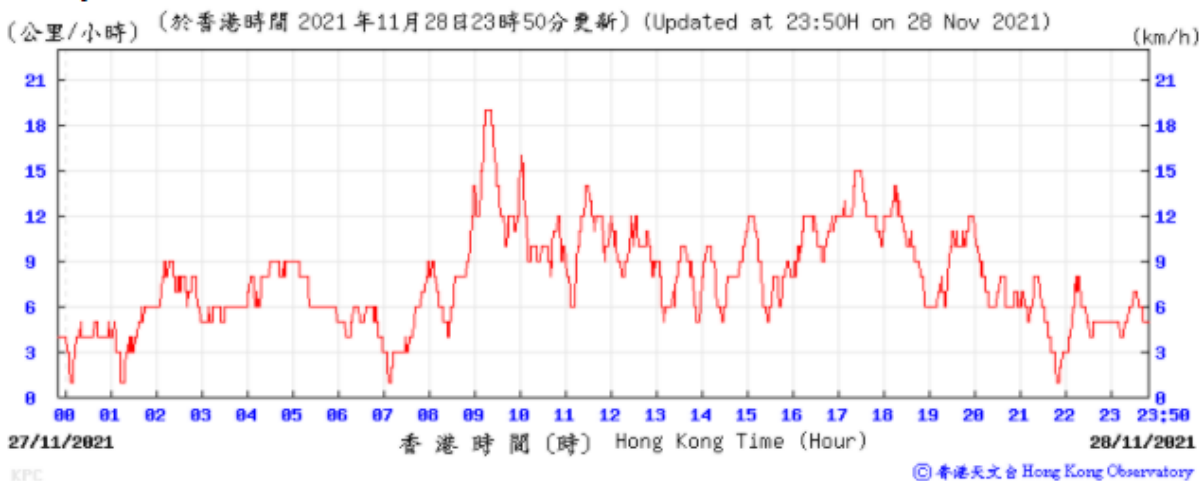
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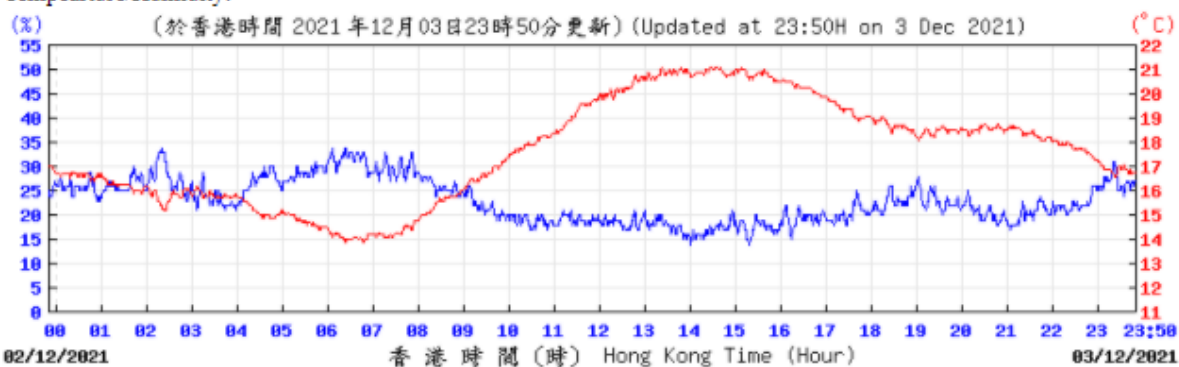
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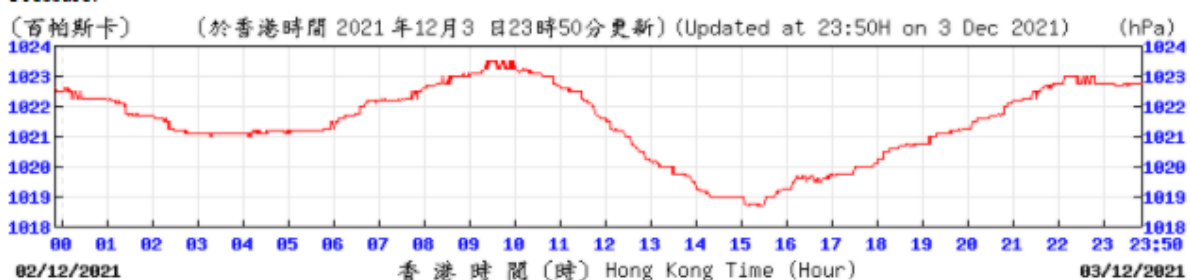
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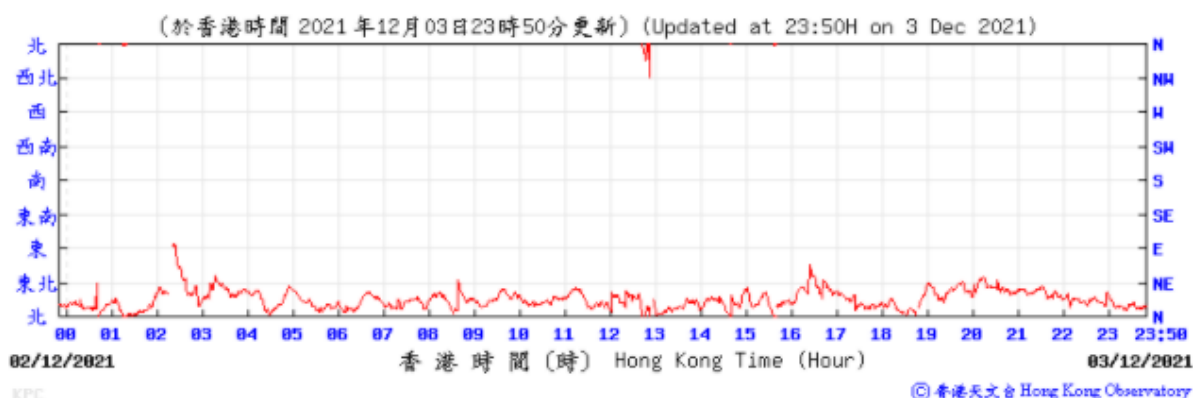
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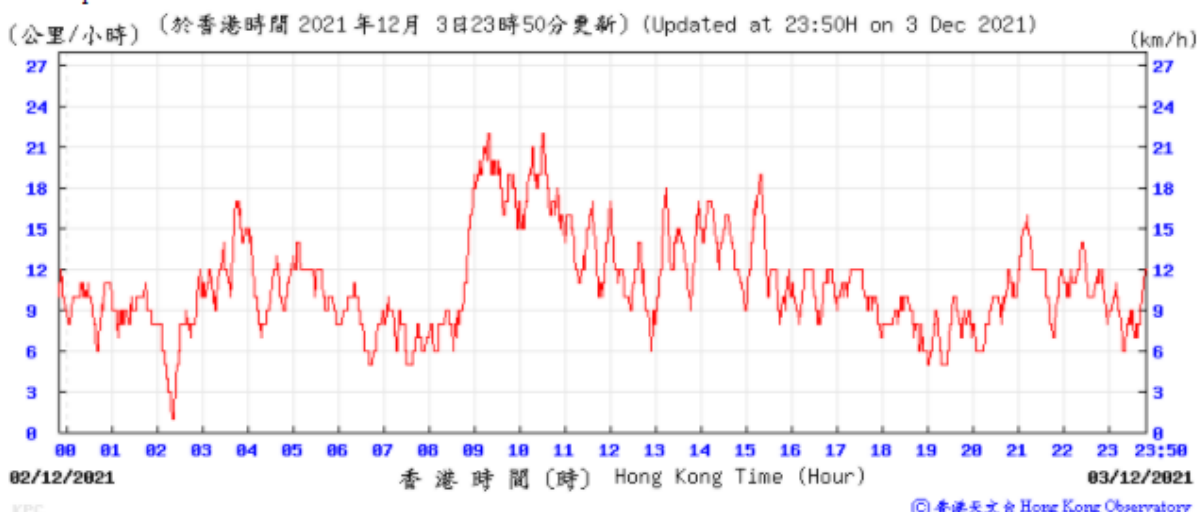
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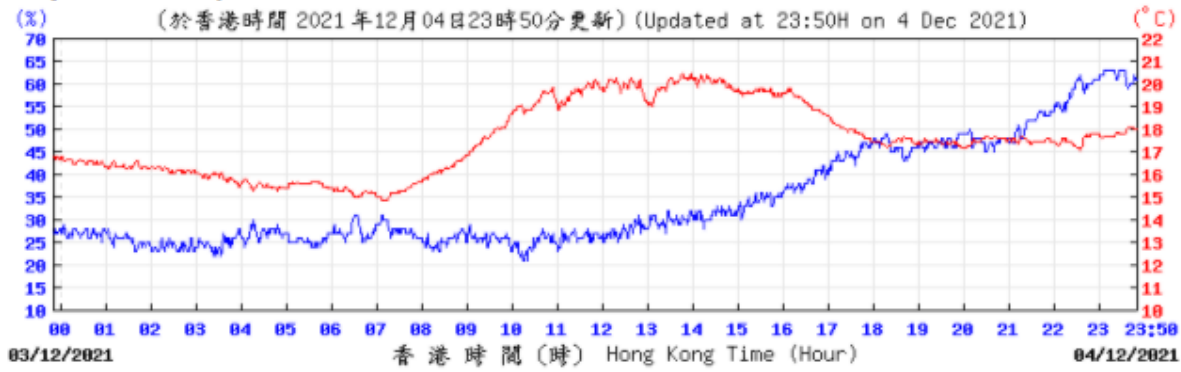
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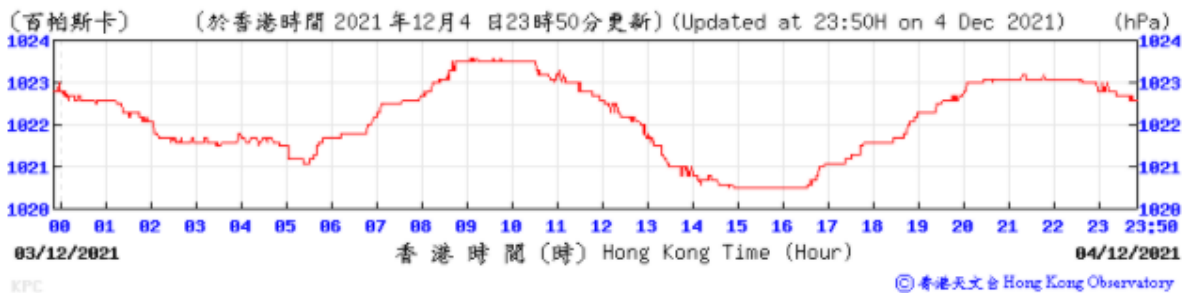
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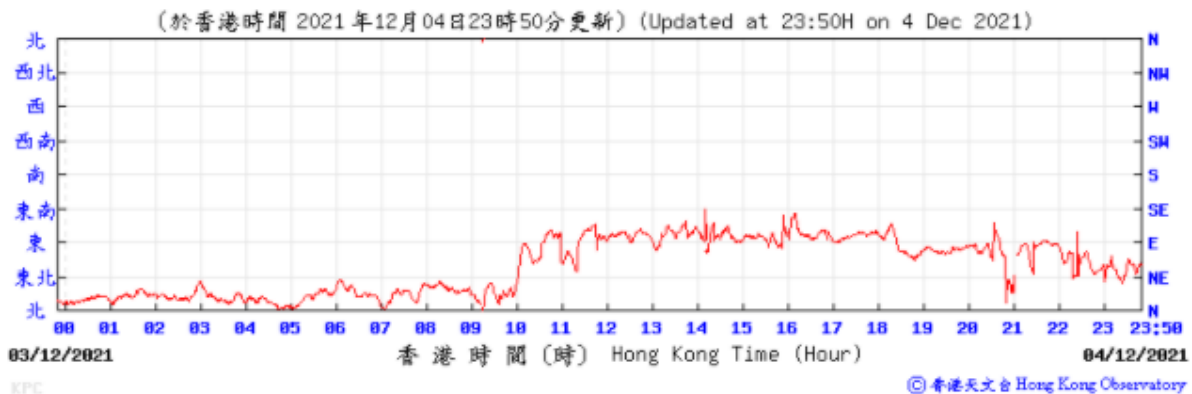
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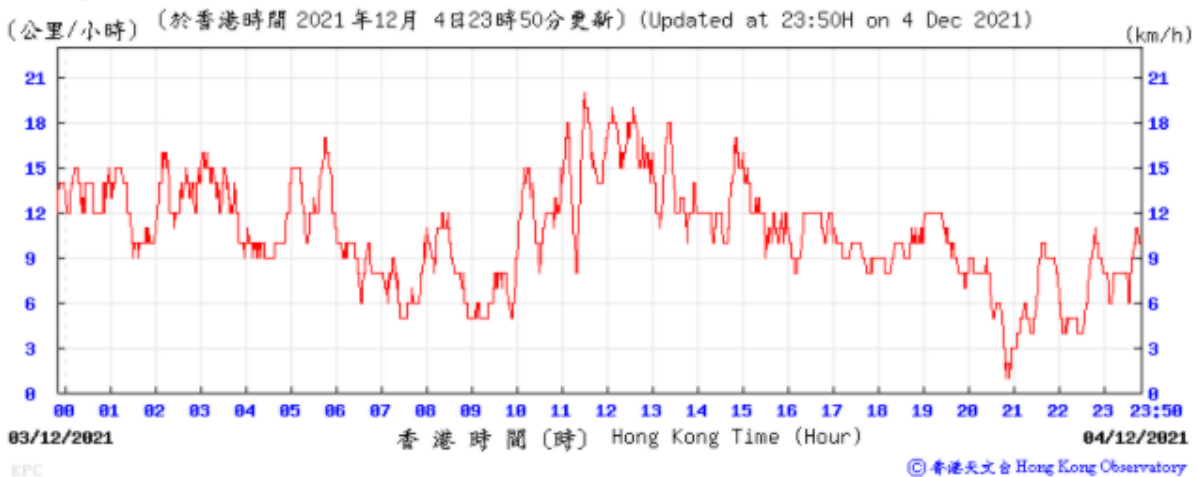
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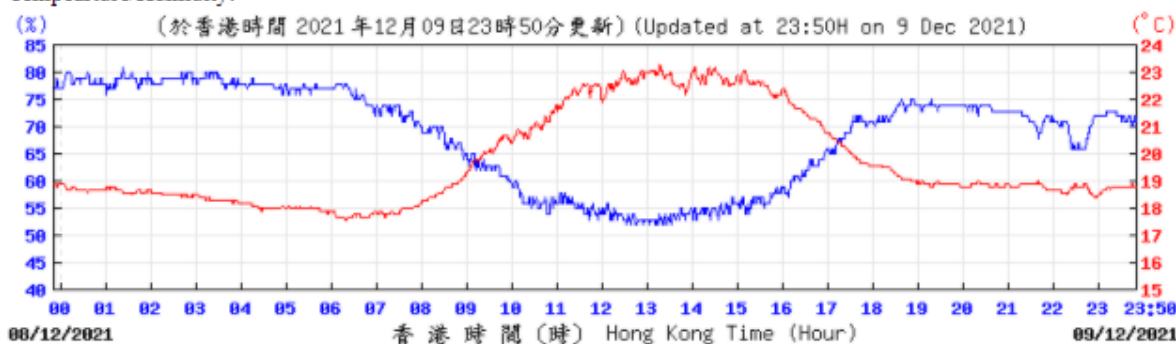
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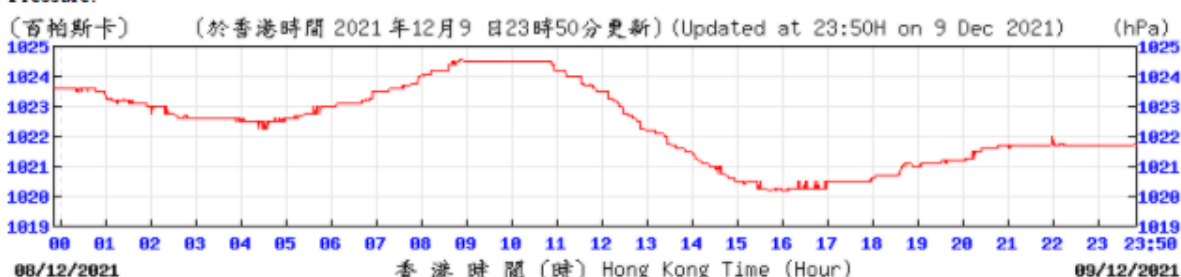


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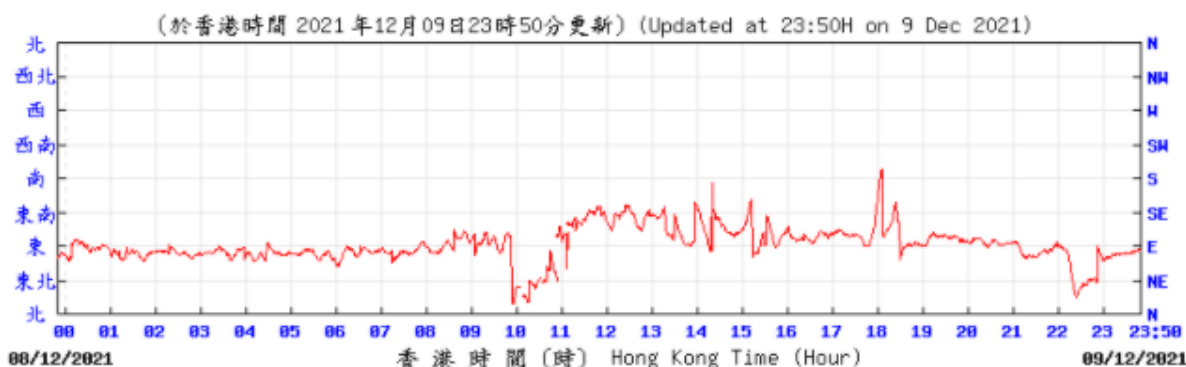
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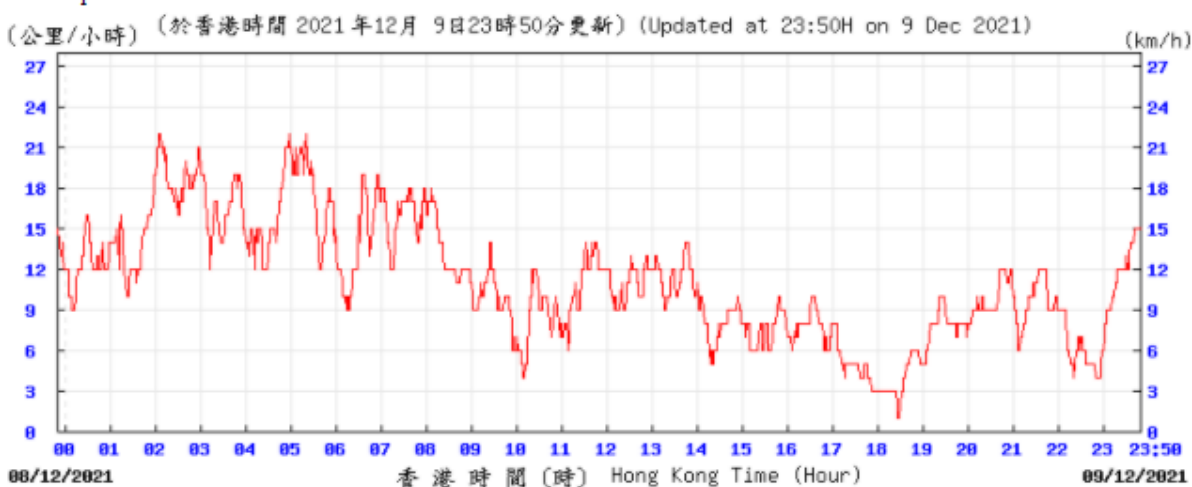
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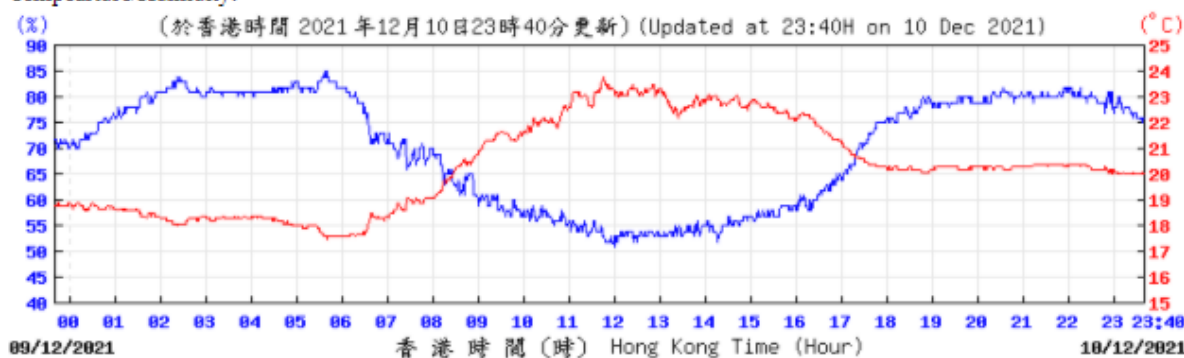
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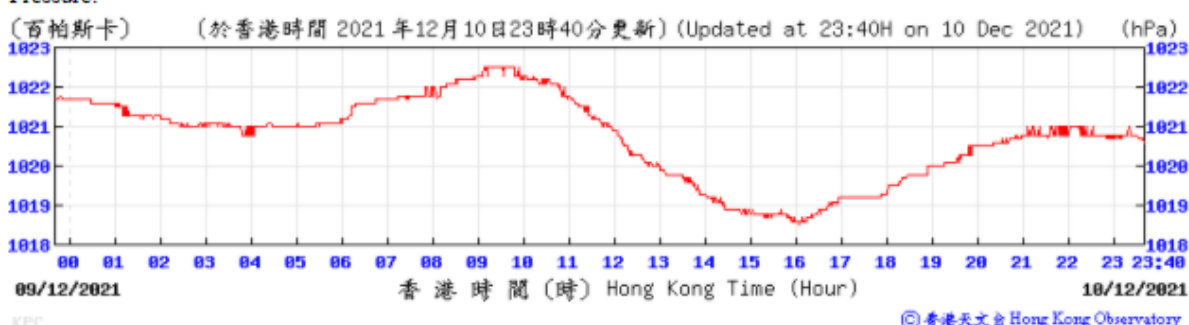


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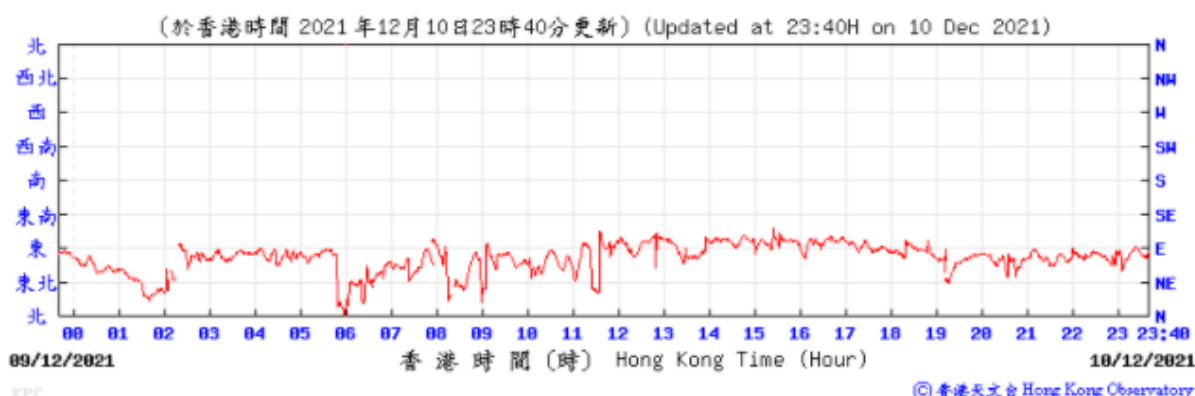
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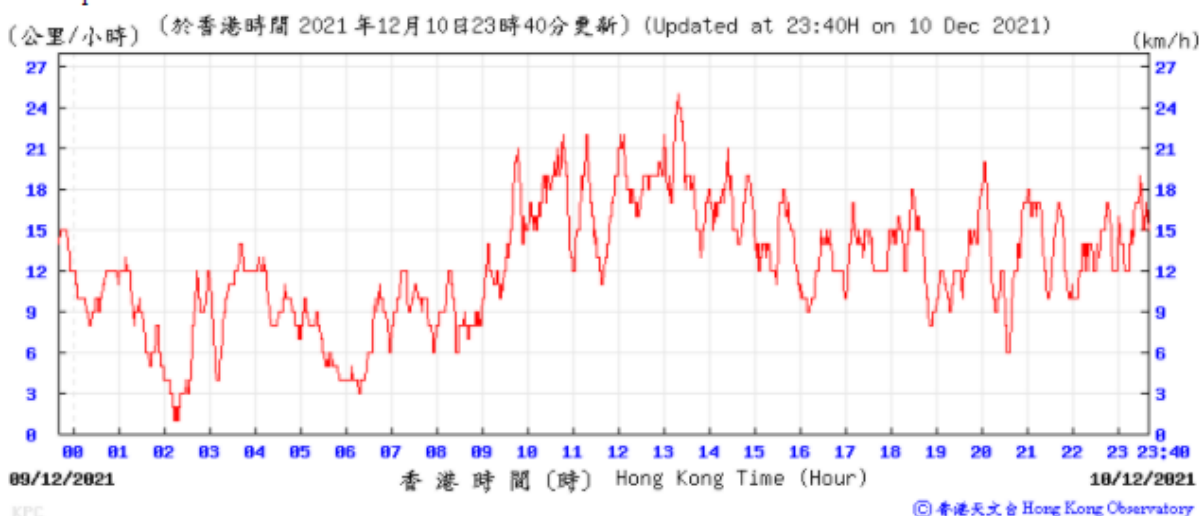
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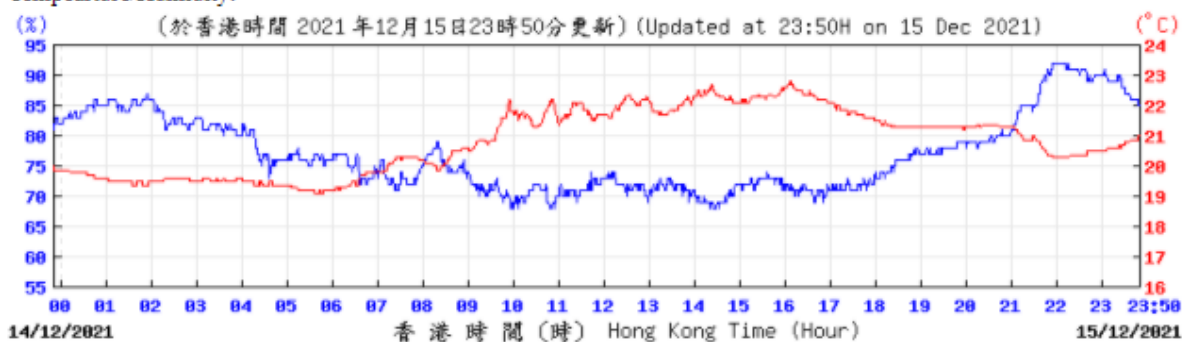
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Wind Speed:

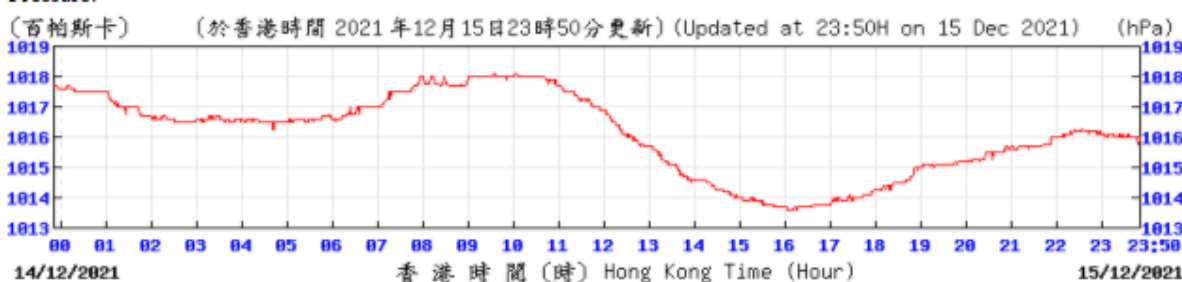


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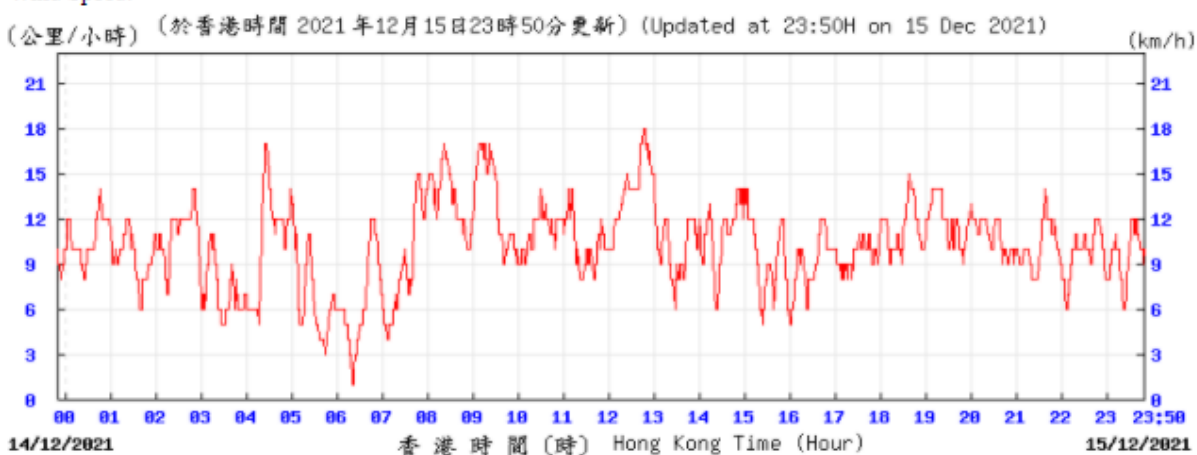
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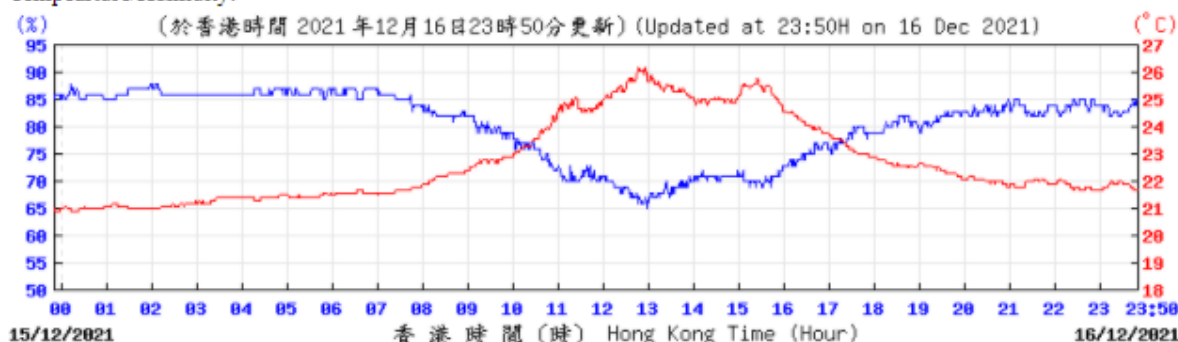
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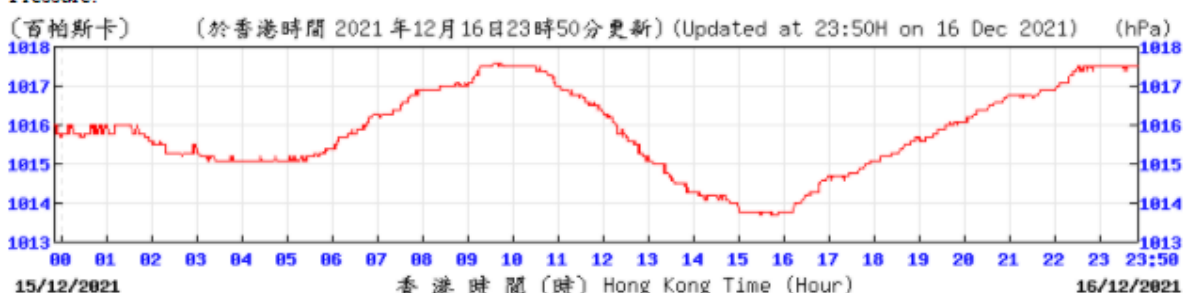
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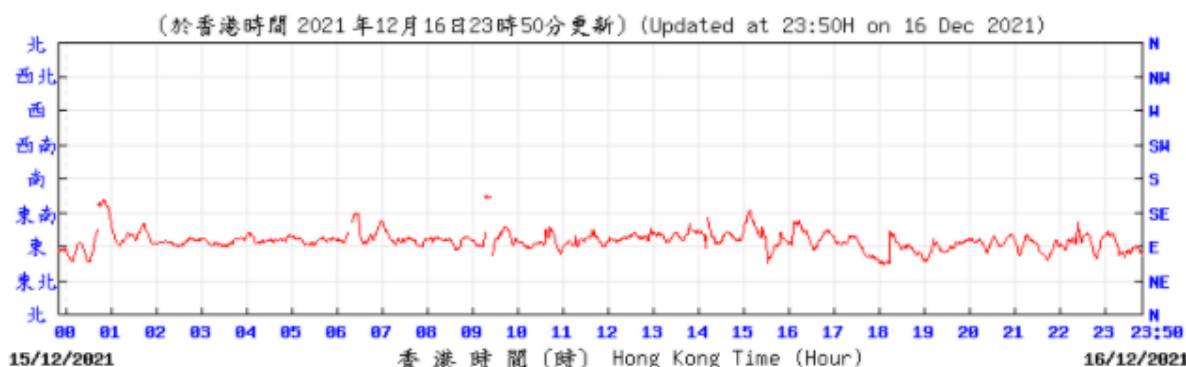
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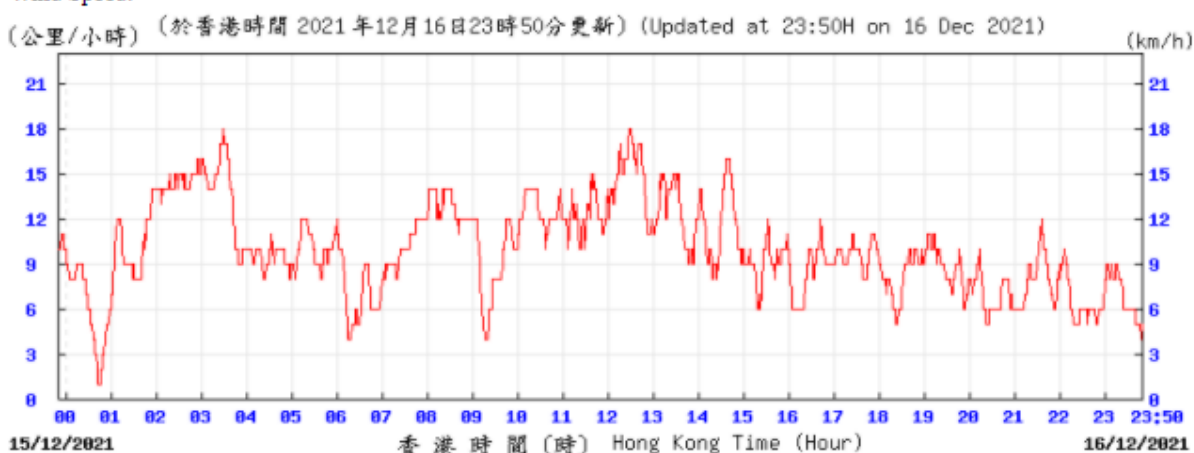
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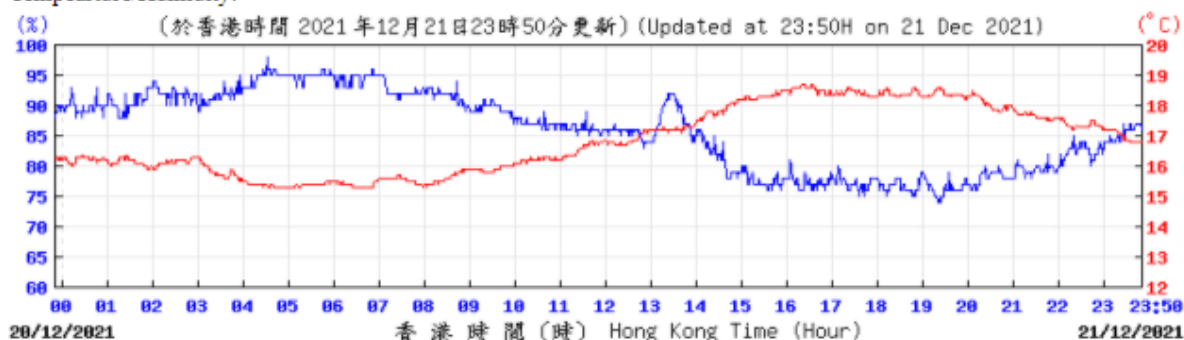
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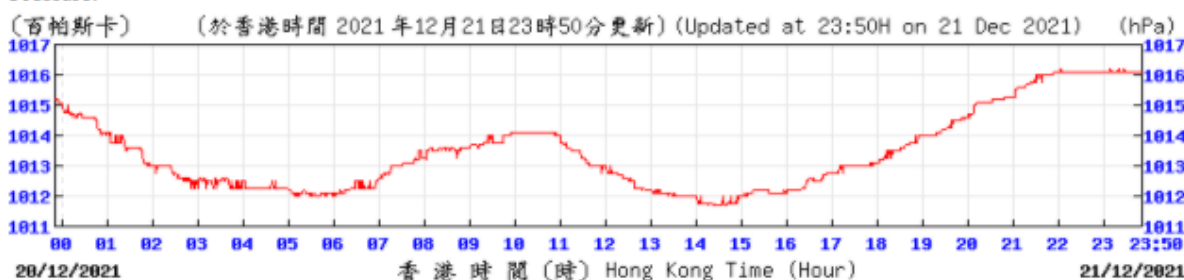
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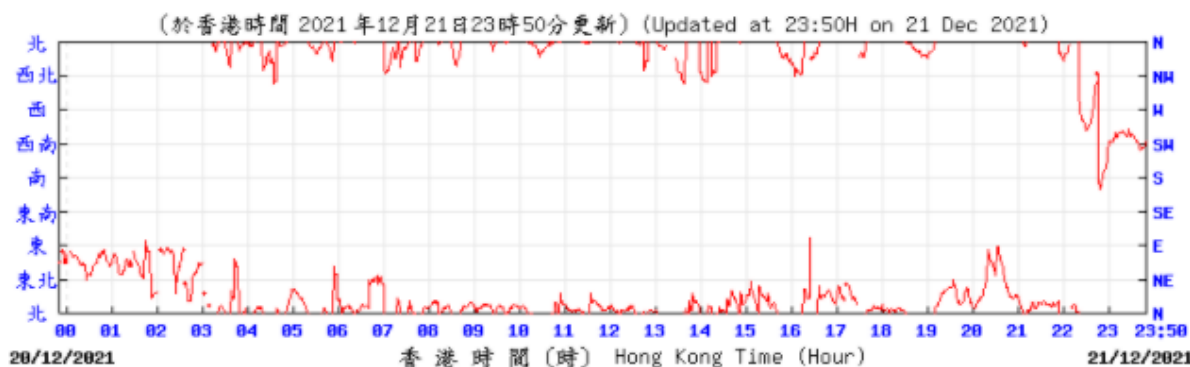
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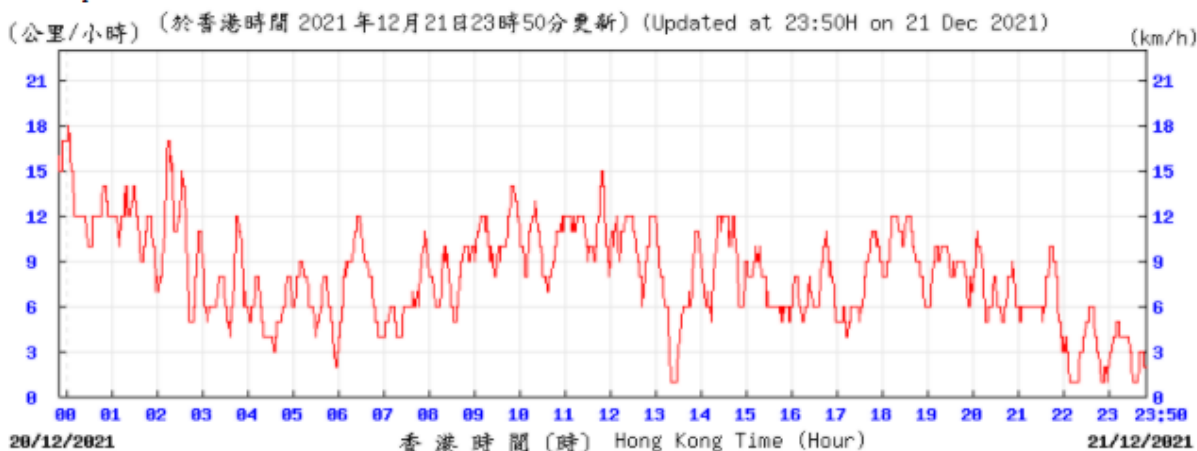
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Wind Direction:



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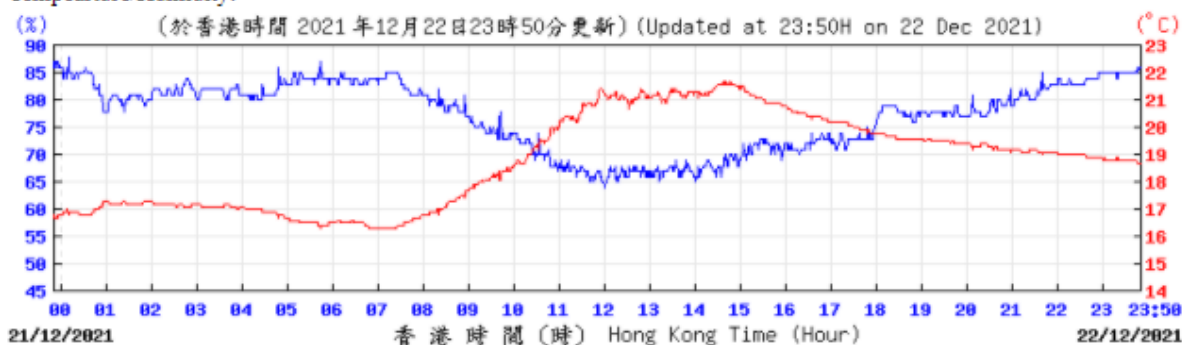
Wind Speed:



KPC

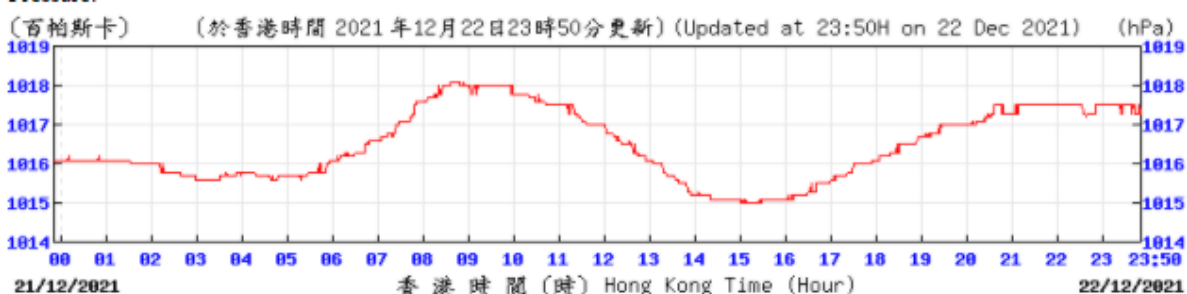
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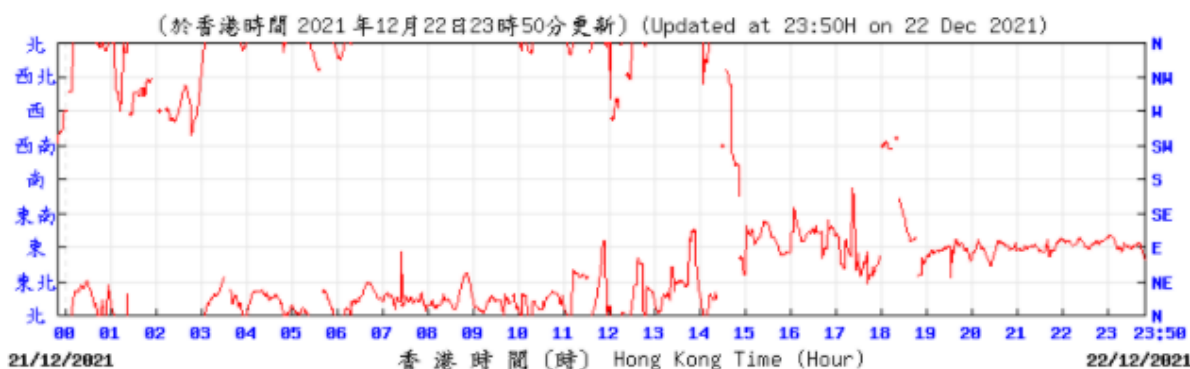
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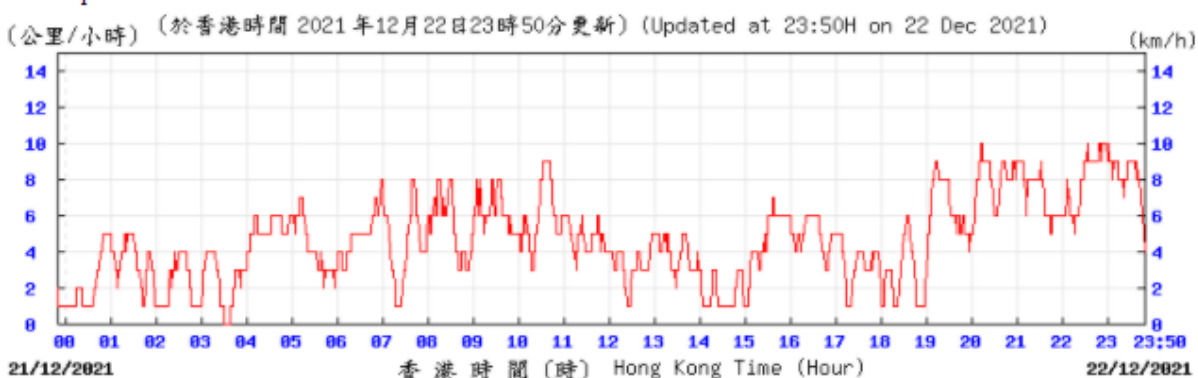
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Wind Direction:



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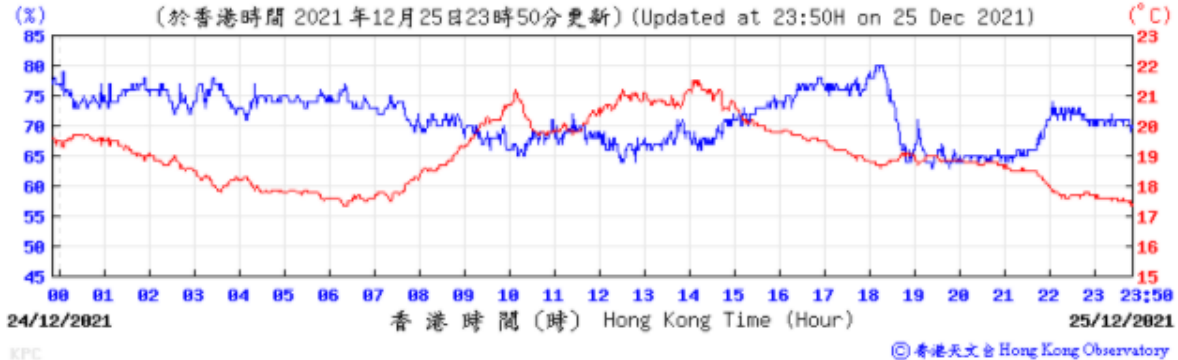
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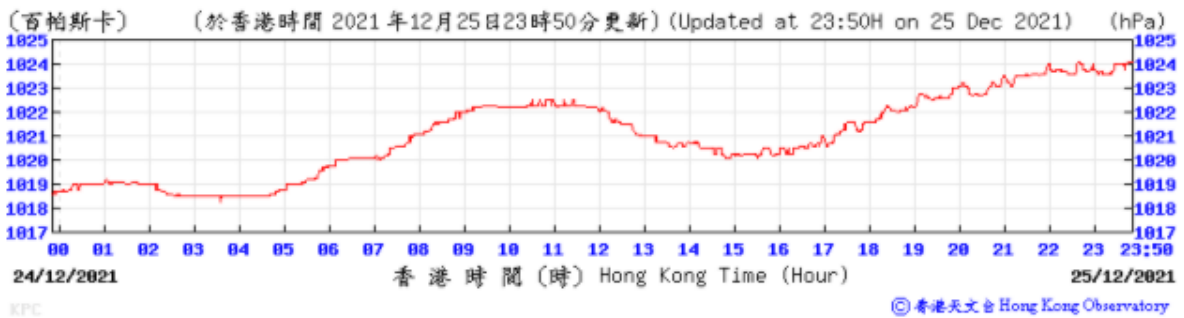
KPC

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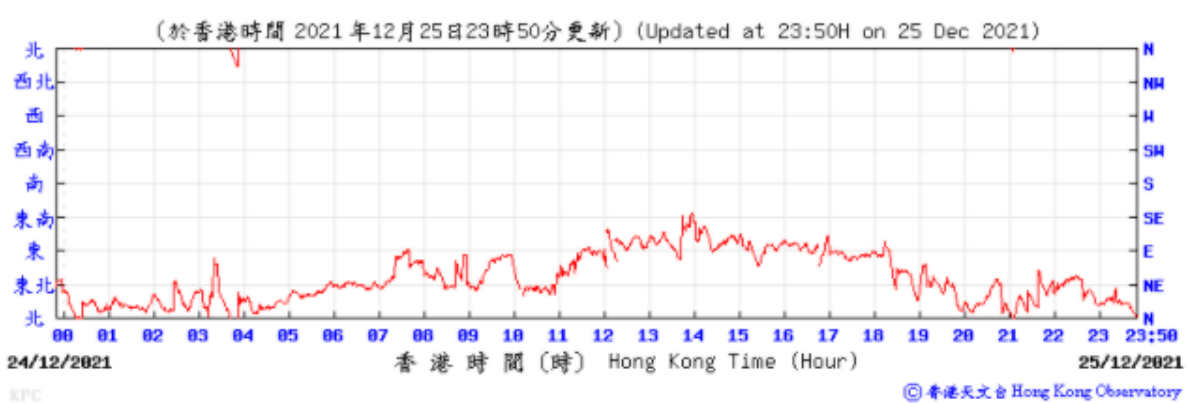
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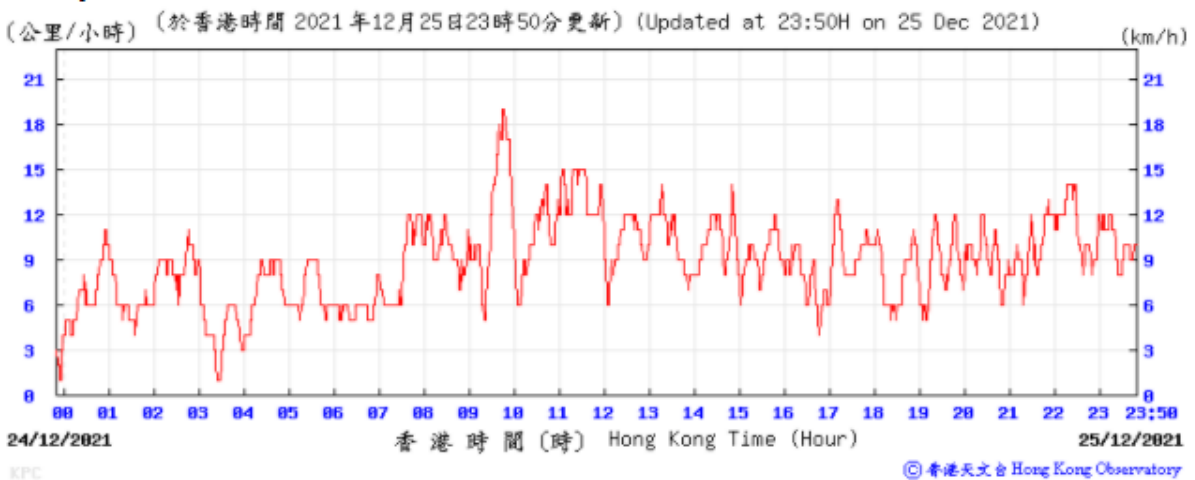
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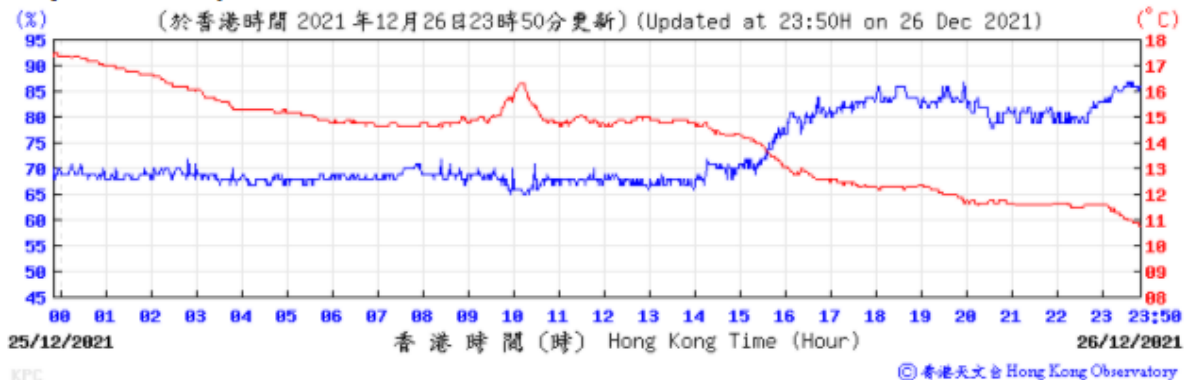
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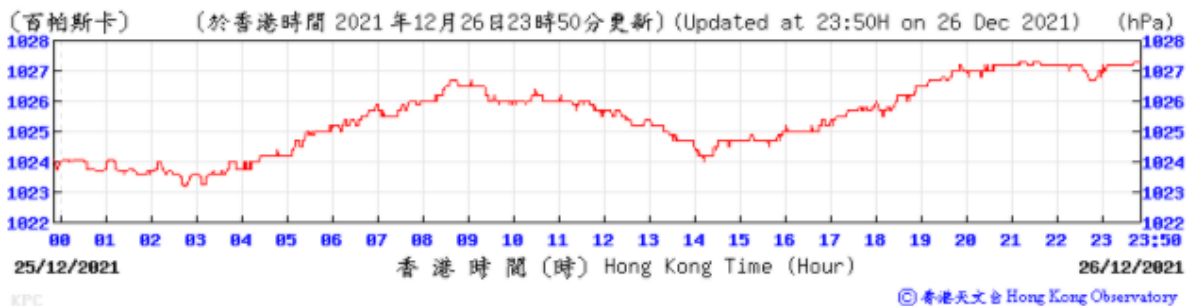
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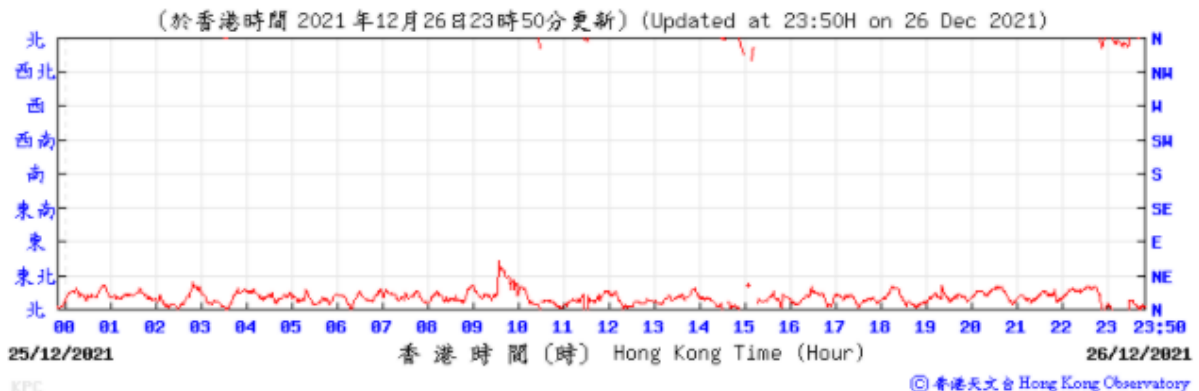
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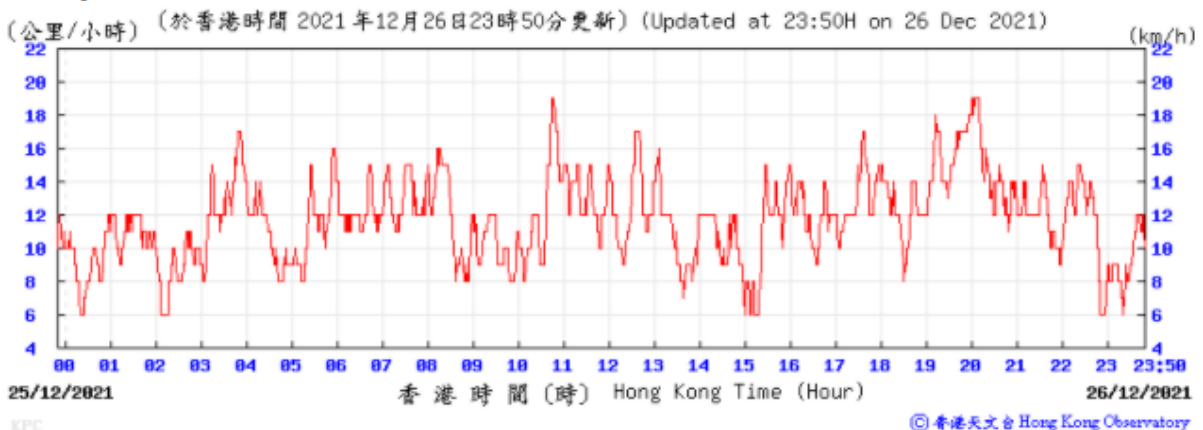
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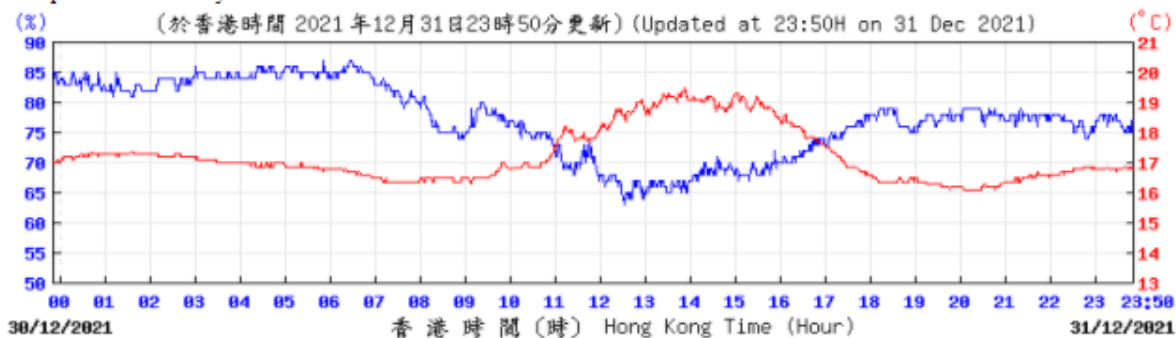
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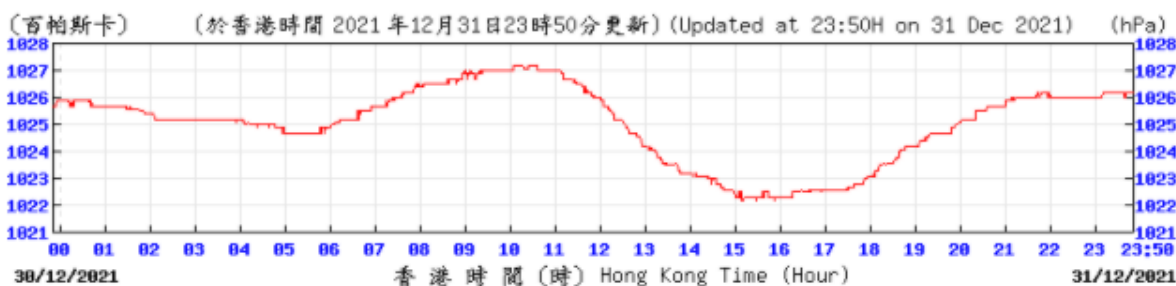


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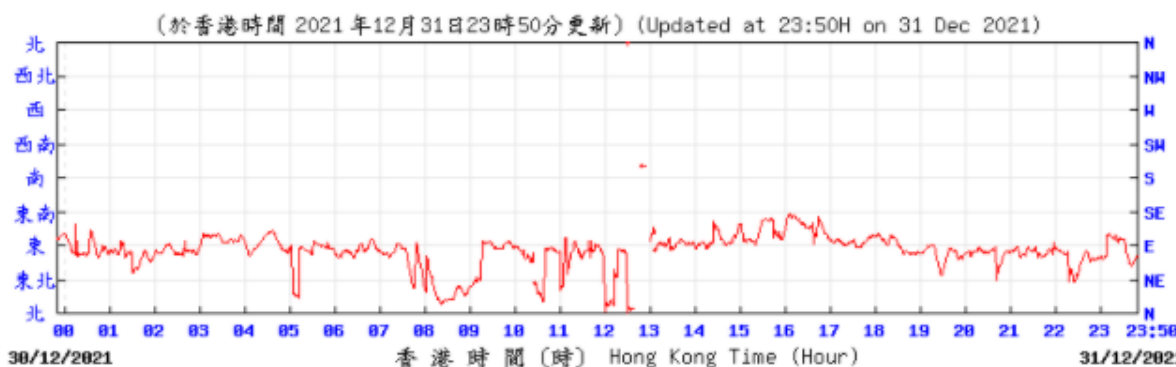
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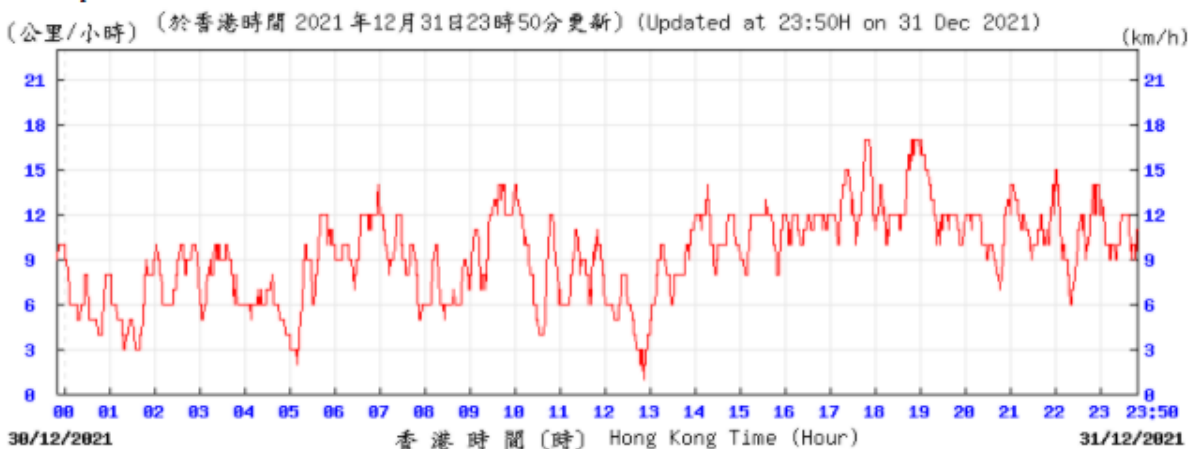
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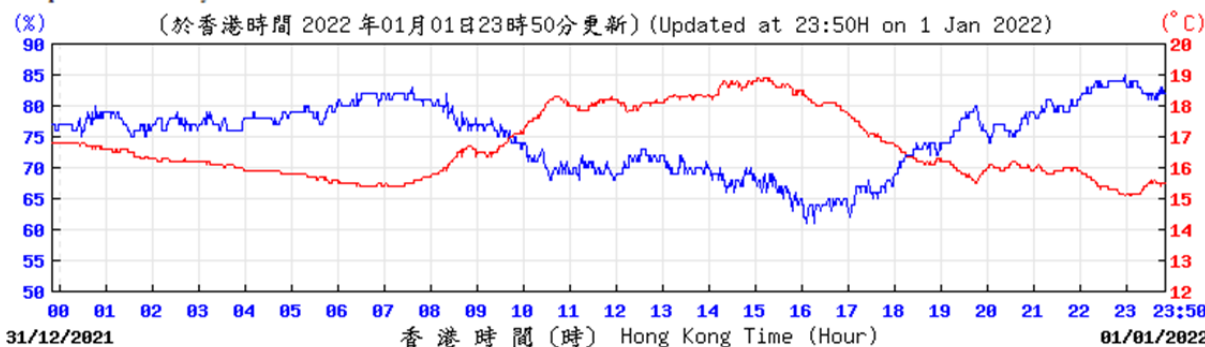
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Wind Speed:



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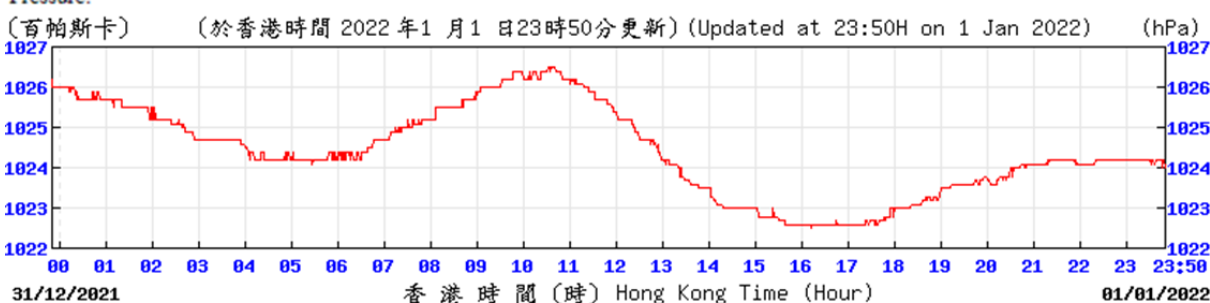
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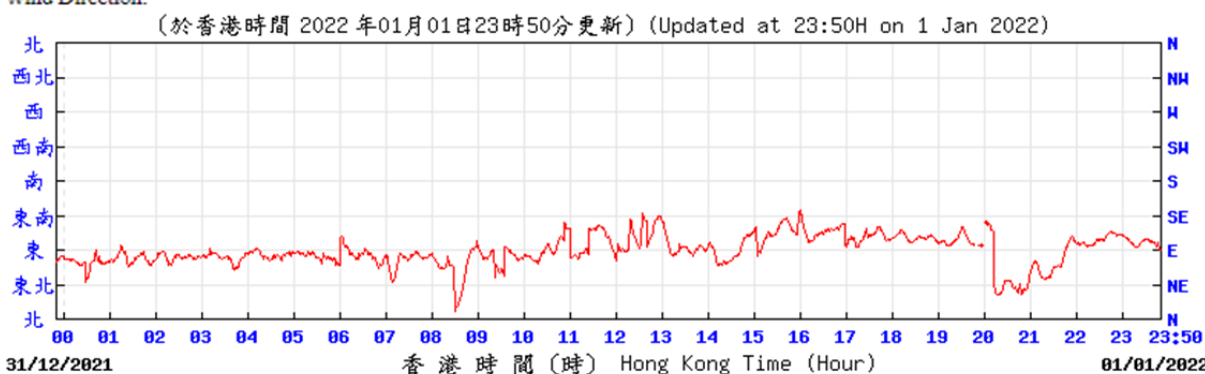
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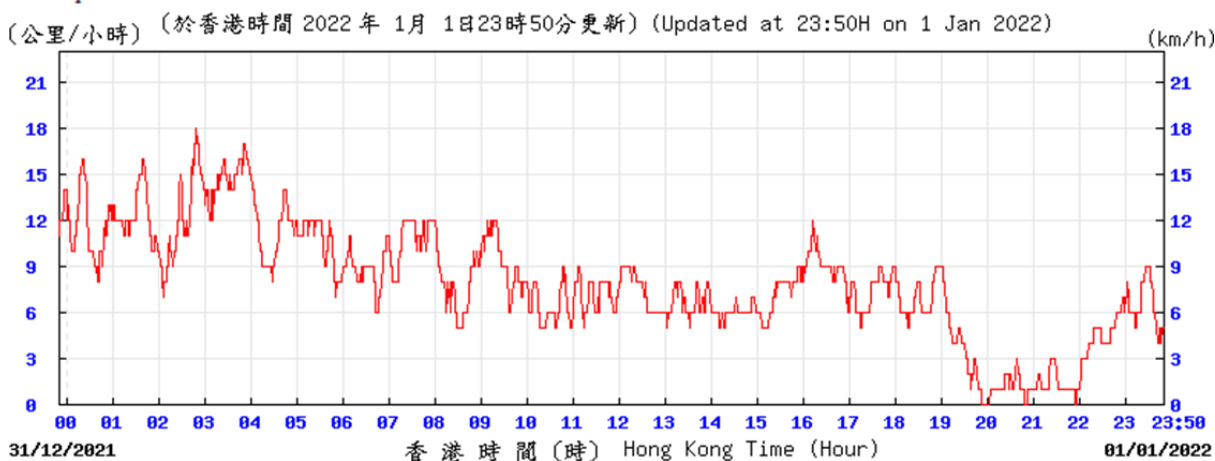
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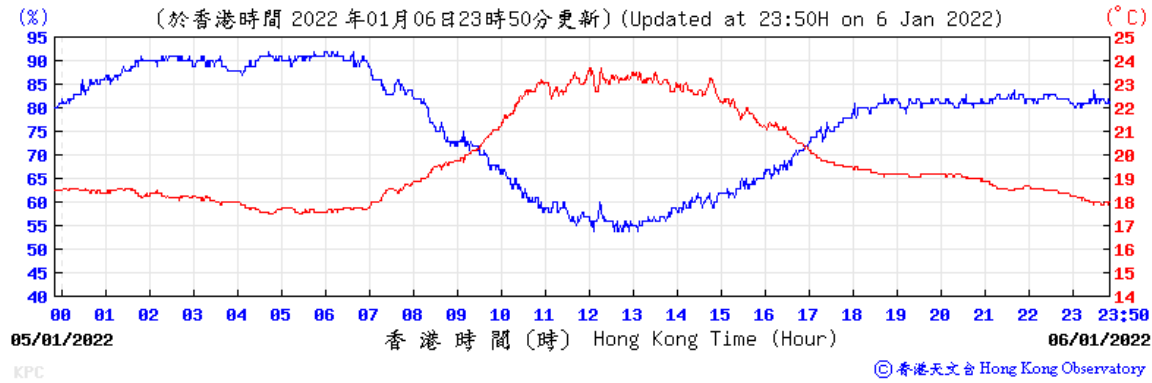
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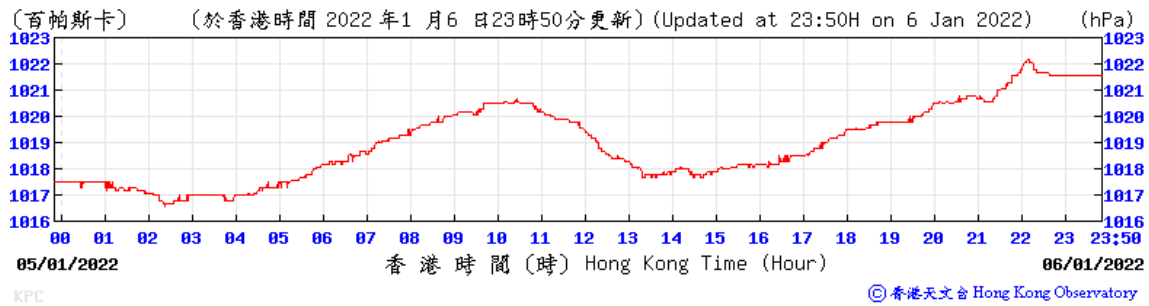
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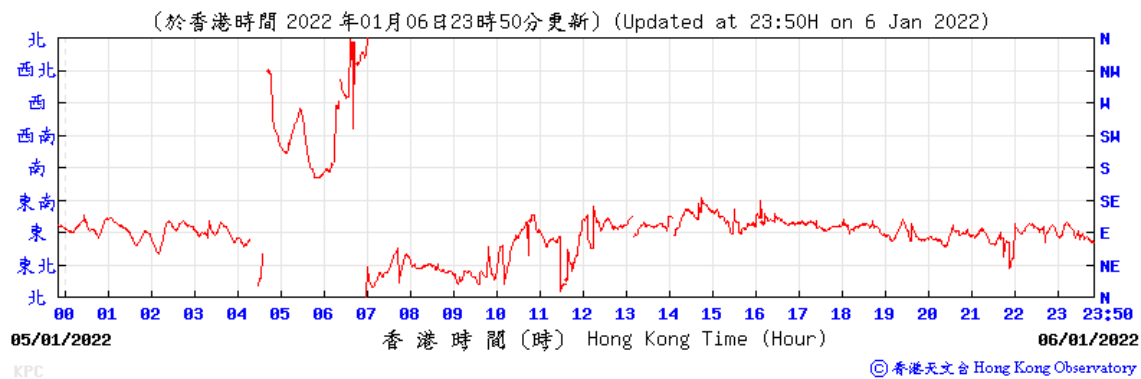
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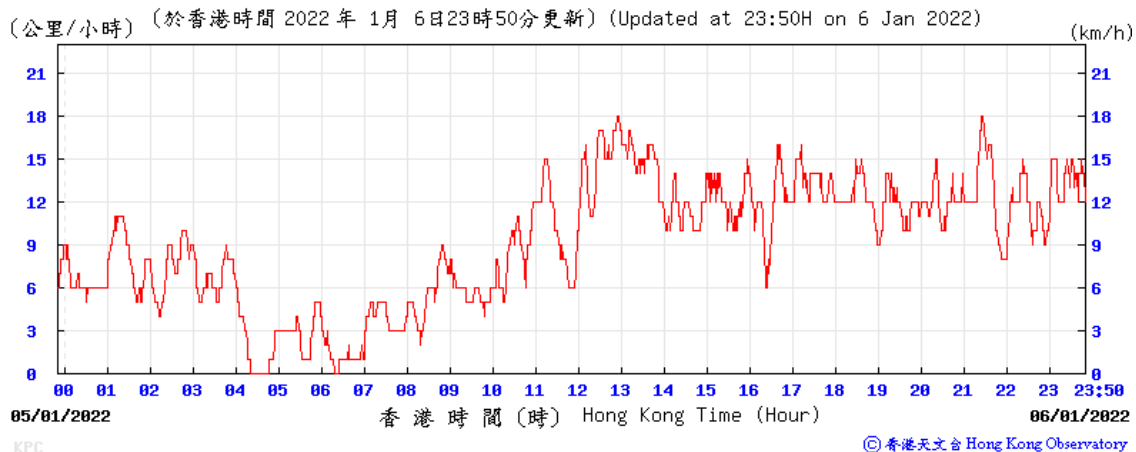
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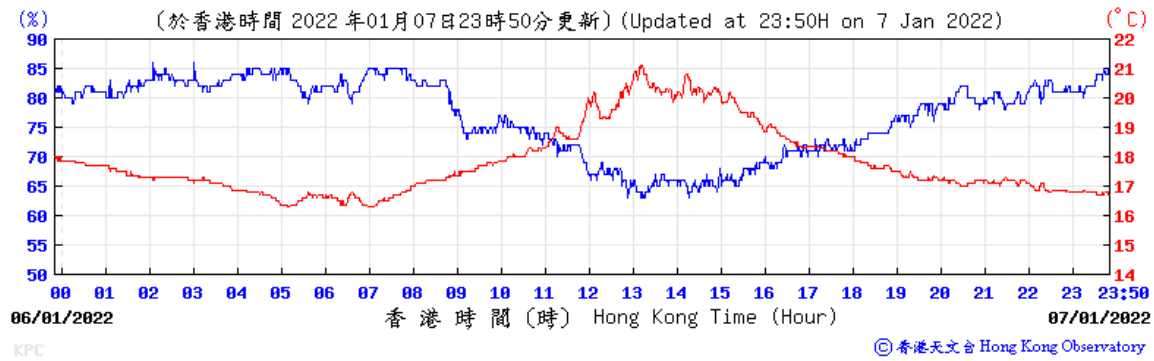
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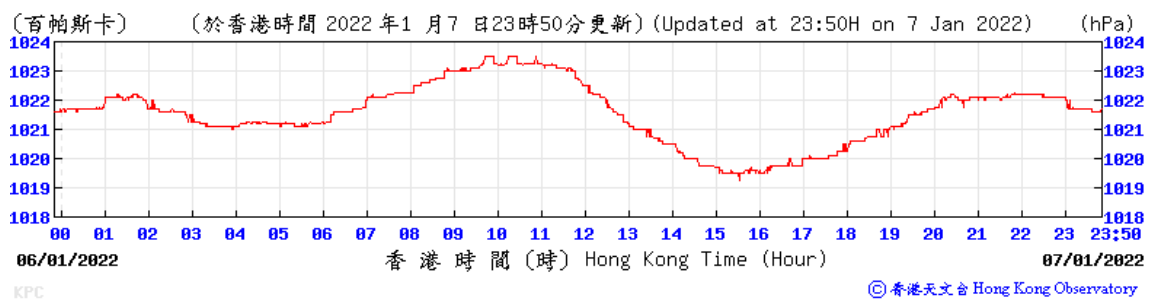
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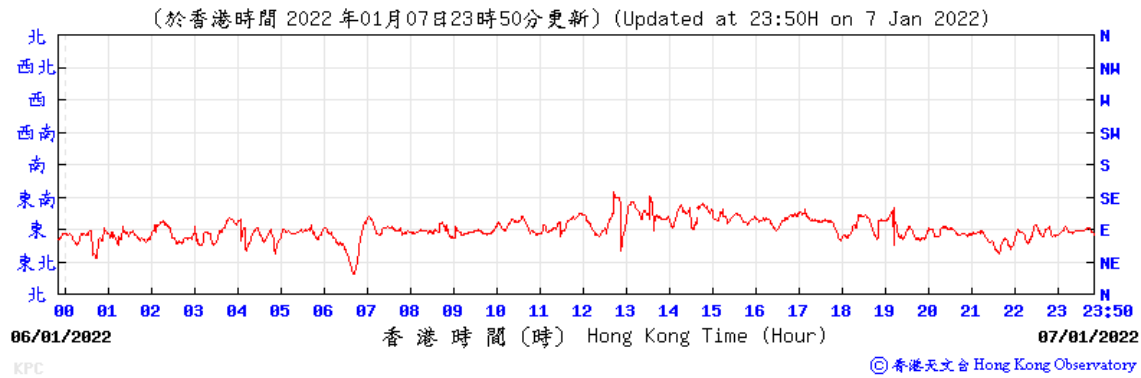
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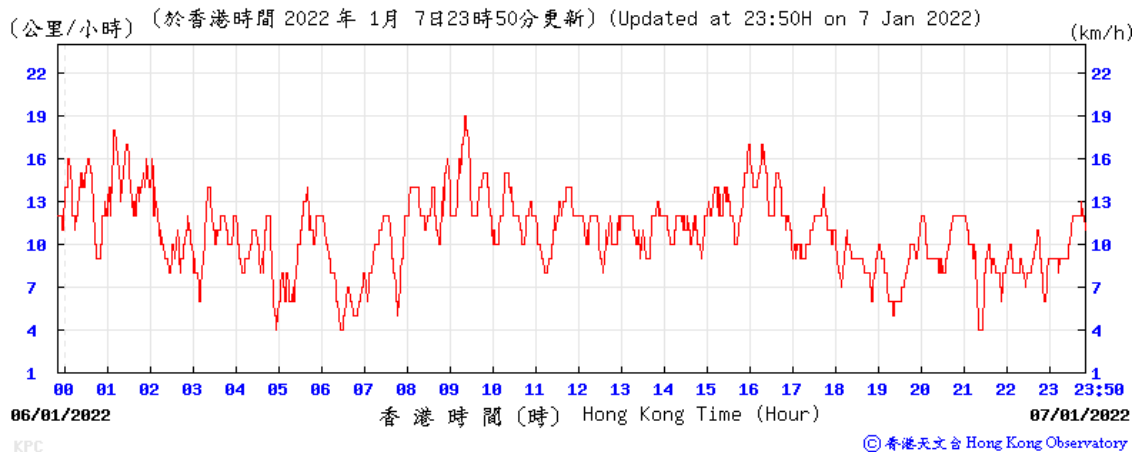
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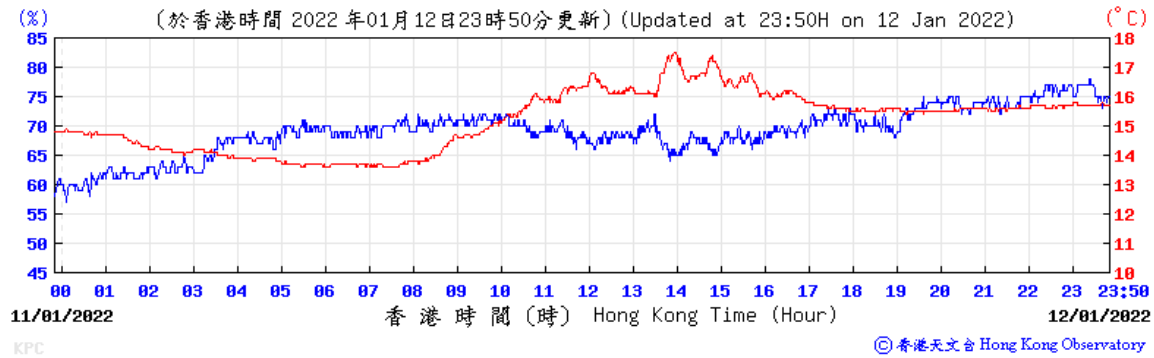
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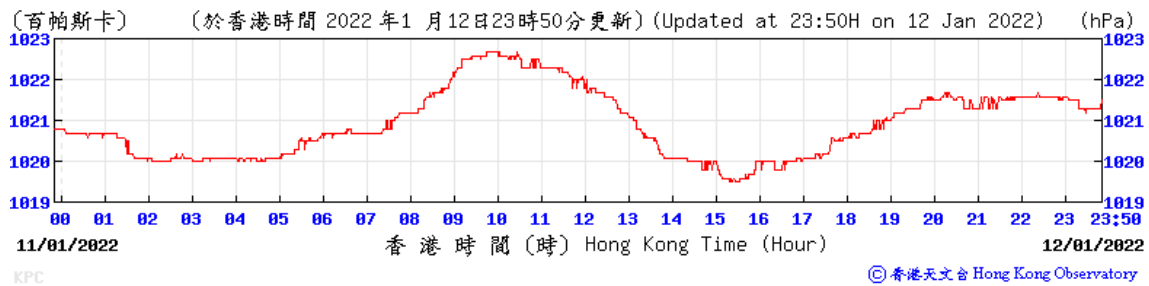
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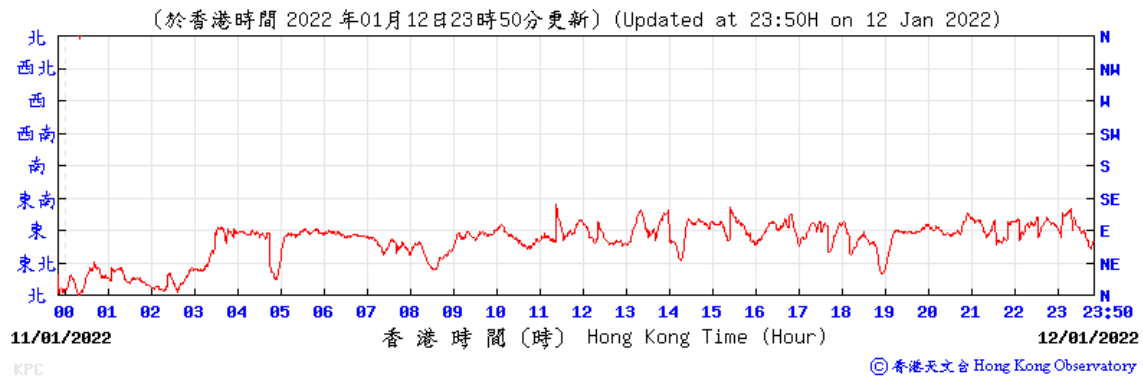
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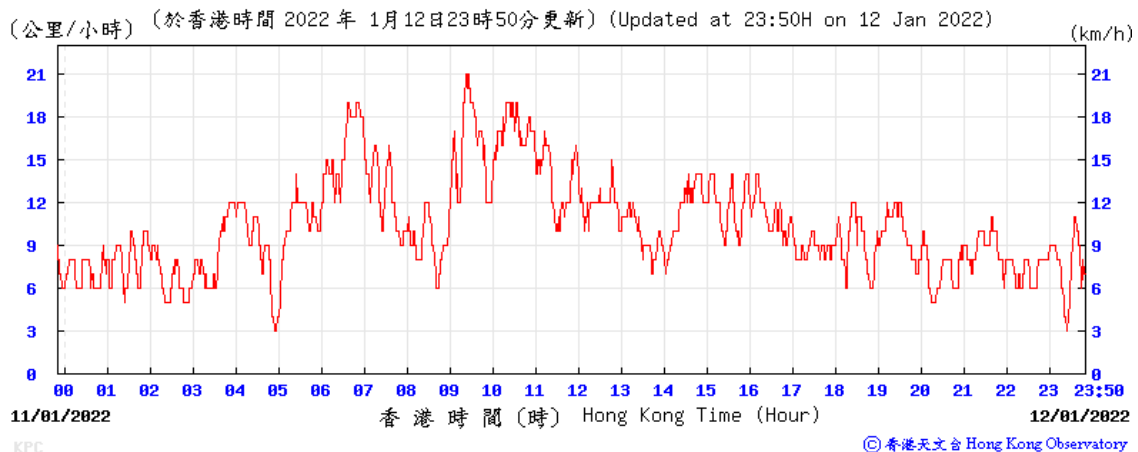
Pressure:



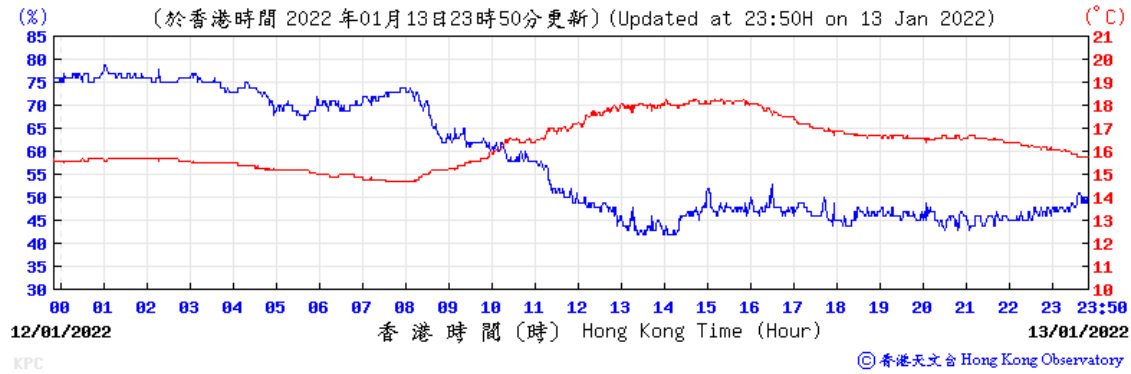
Wind Direction:



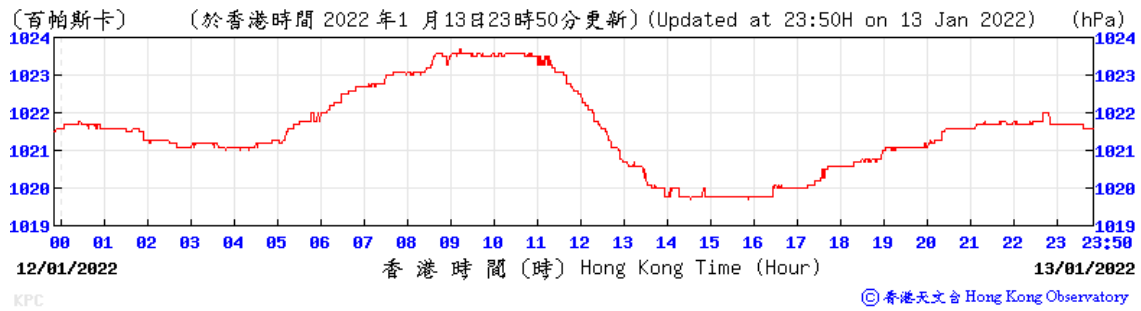
Wind Speed:



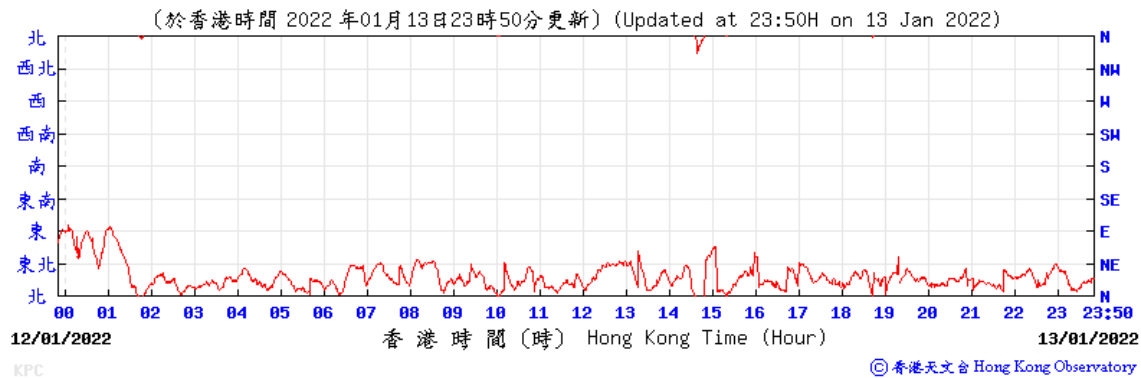
Temperature/Humidity:



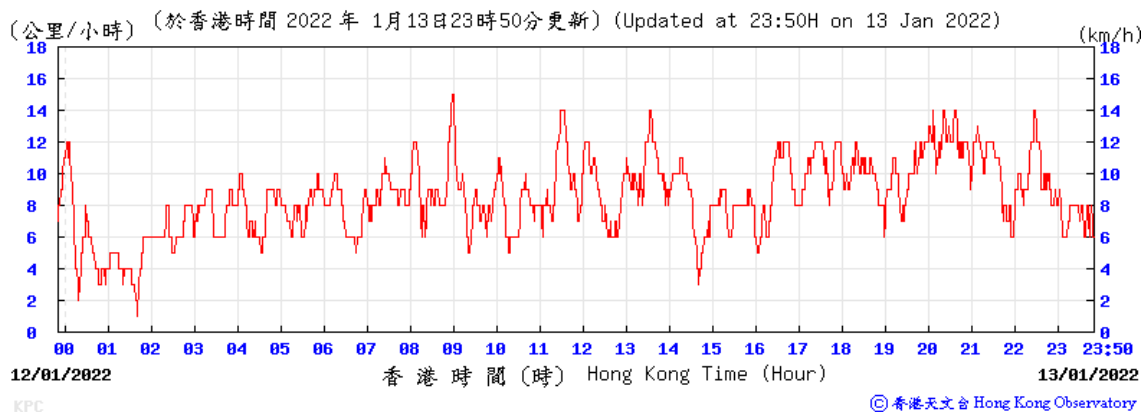
Pressure:



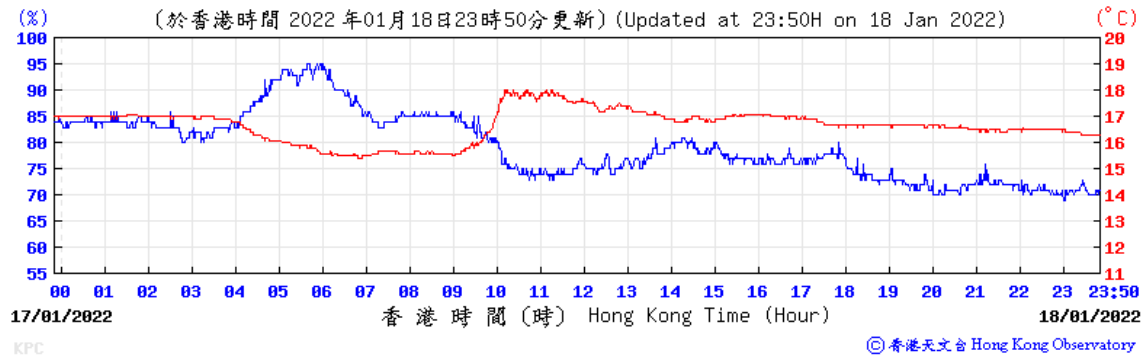
Wind Direction:



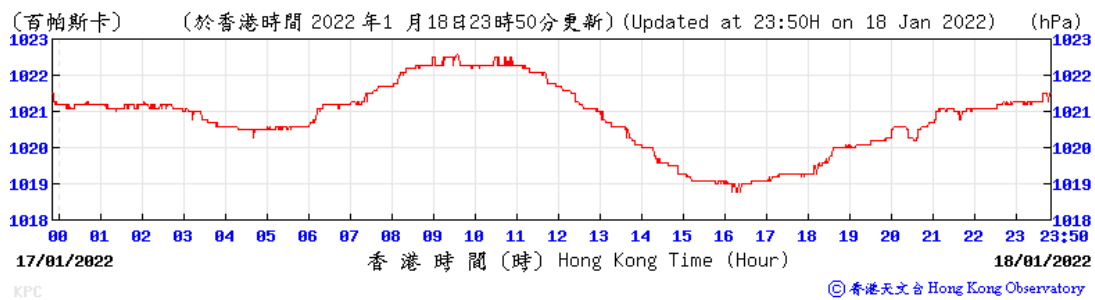
Wind Speed:



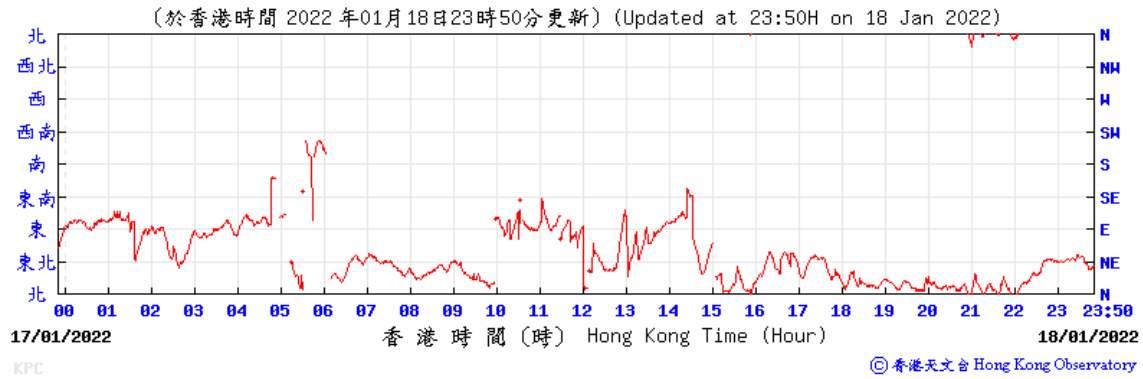
Temperature/Humidity:



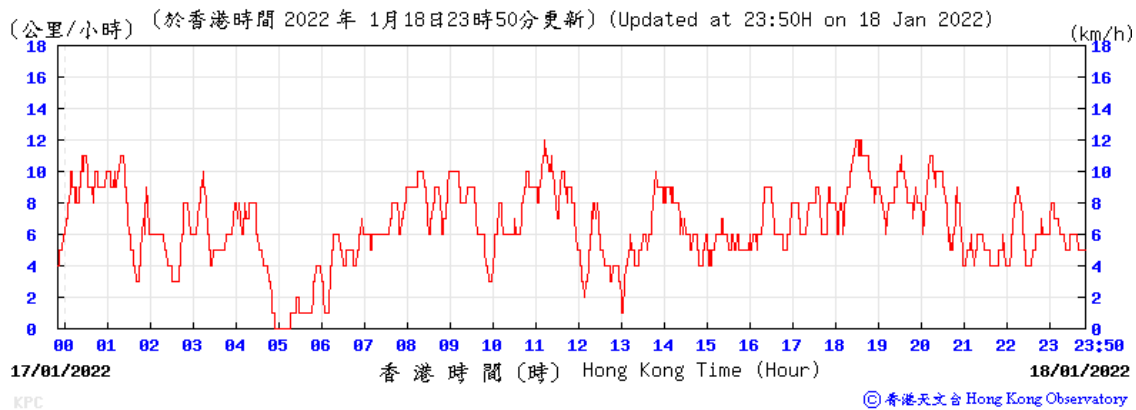
Pressure:



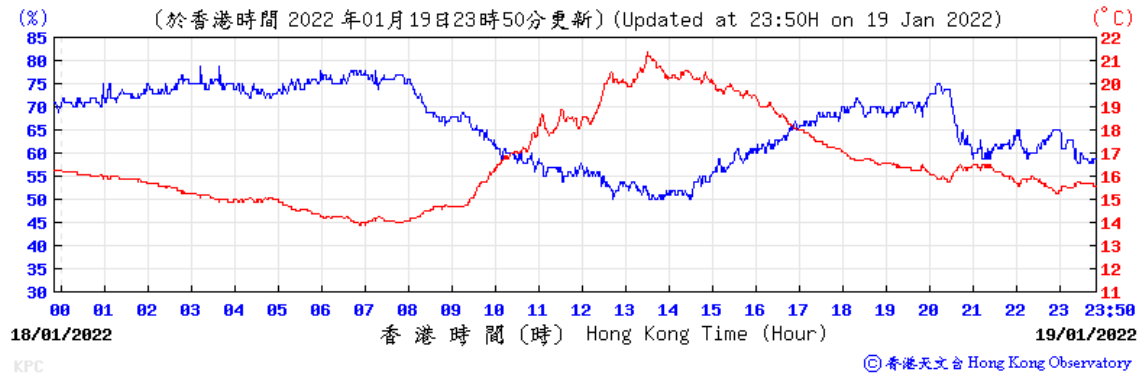
Wind Direction:



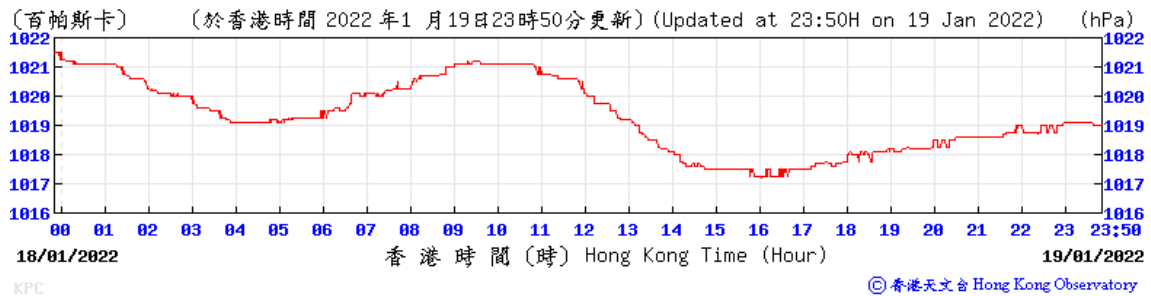
Wind Speed:



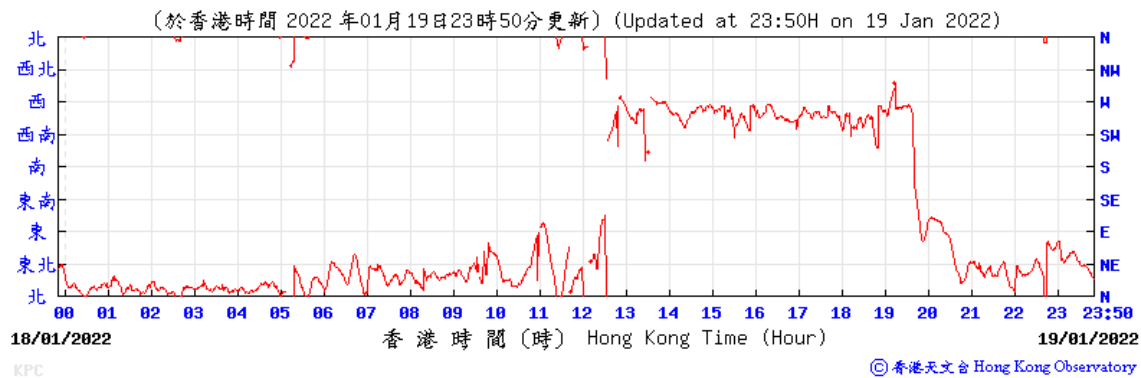
Temperature/Humidity:



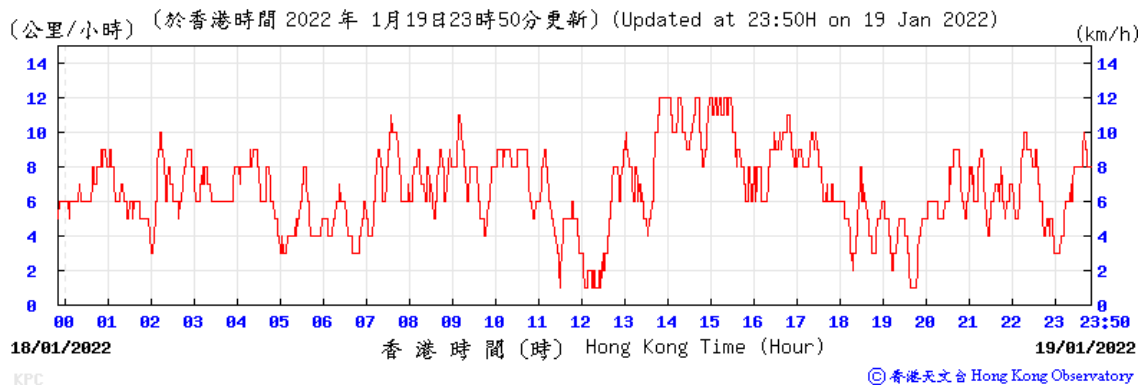
Pressure:



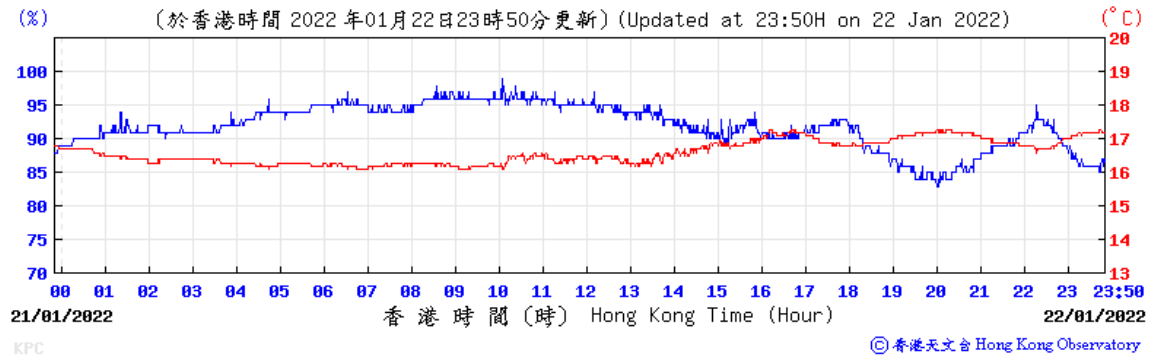
Wind Direction:



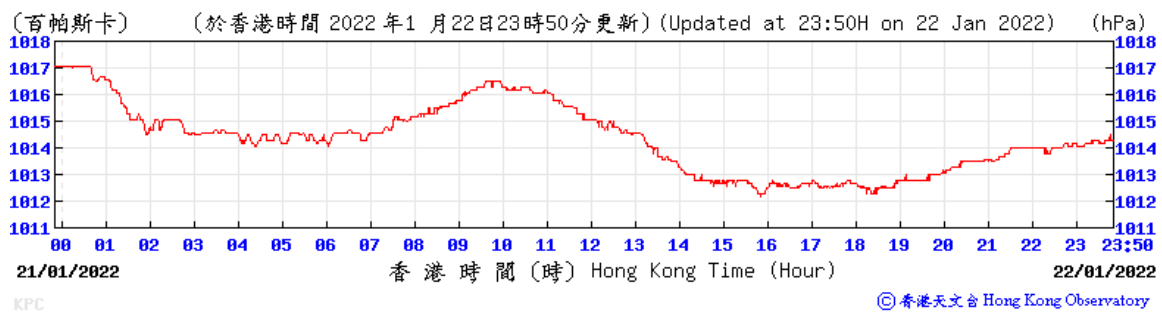
Wind Speed:



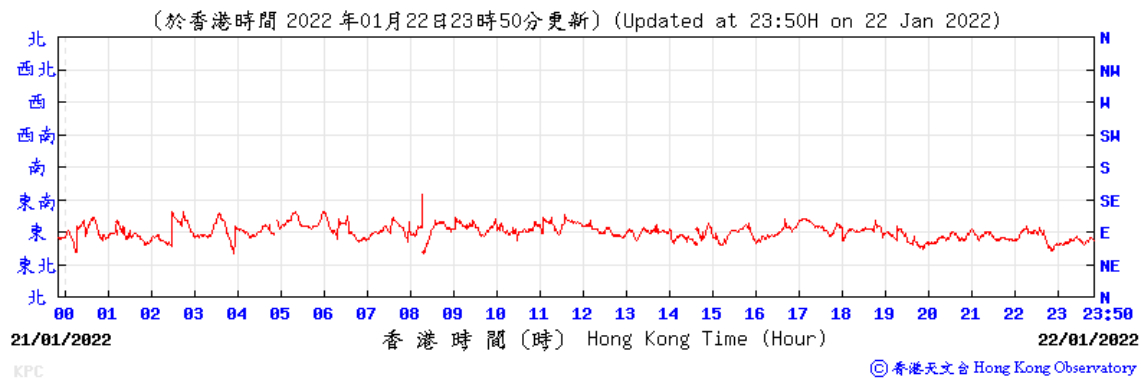
Temperature/Humidity:



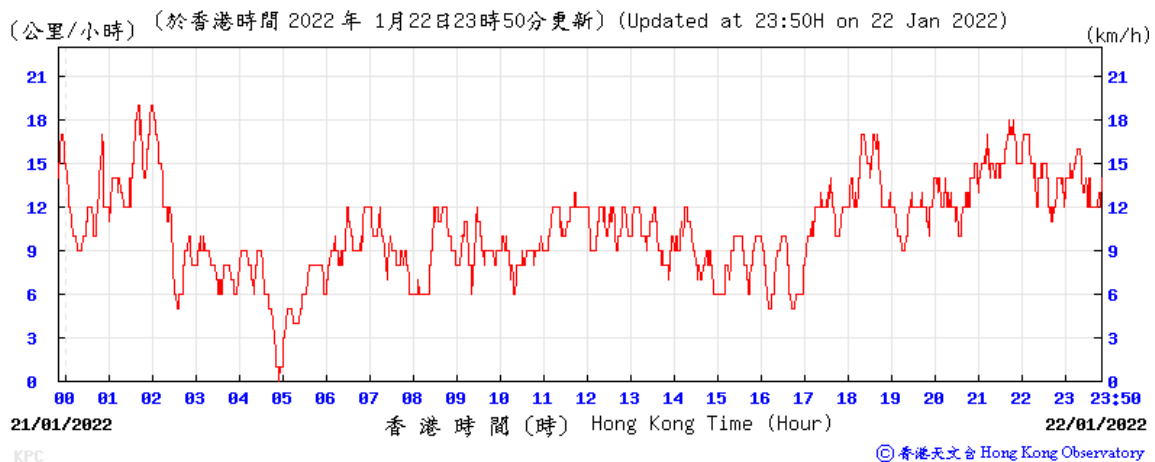
Pressure:



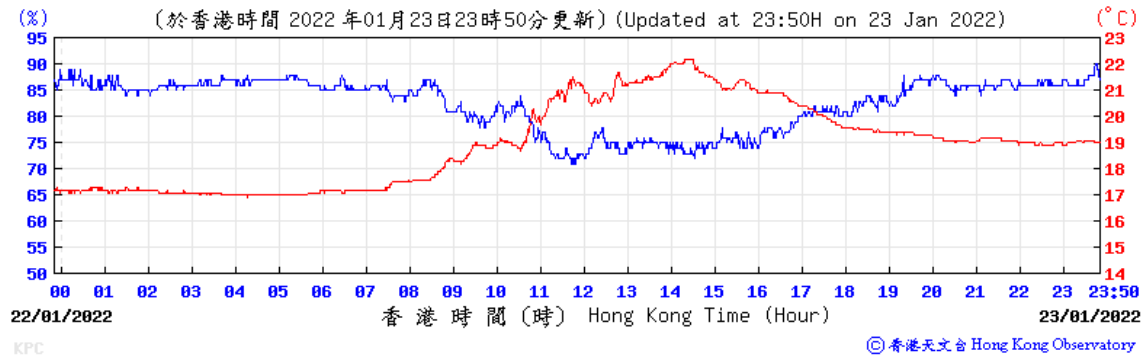
Wind Direction:



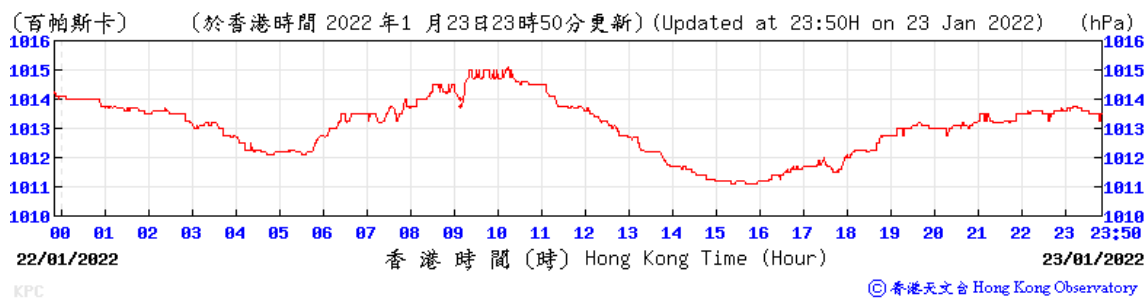
Wind Speed:



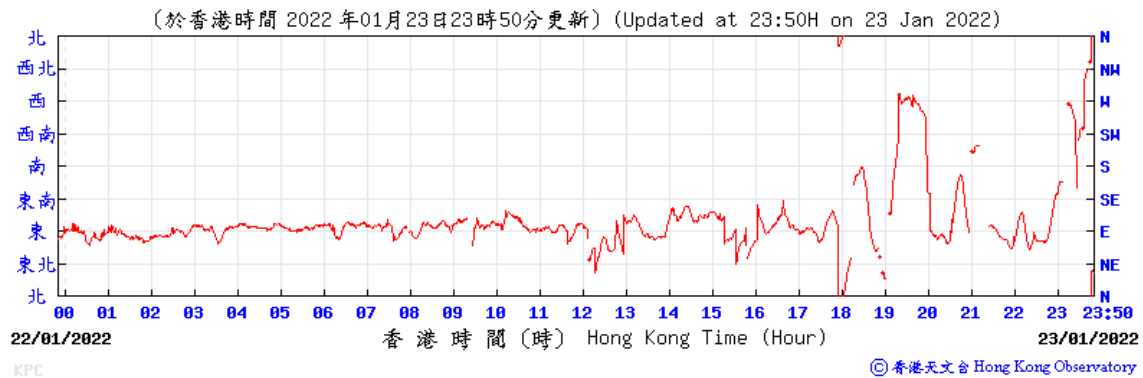
Temperature/Humidity:



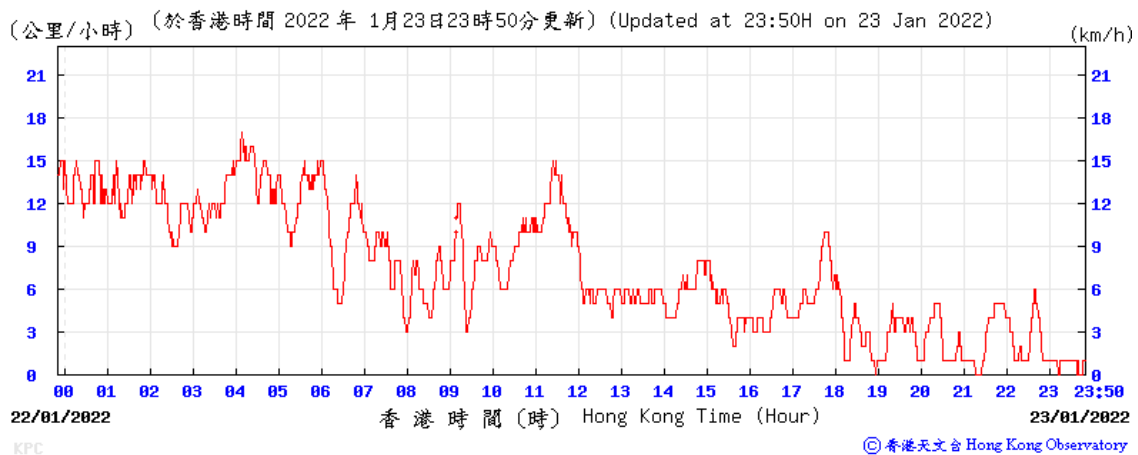
Pressure:



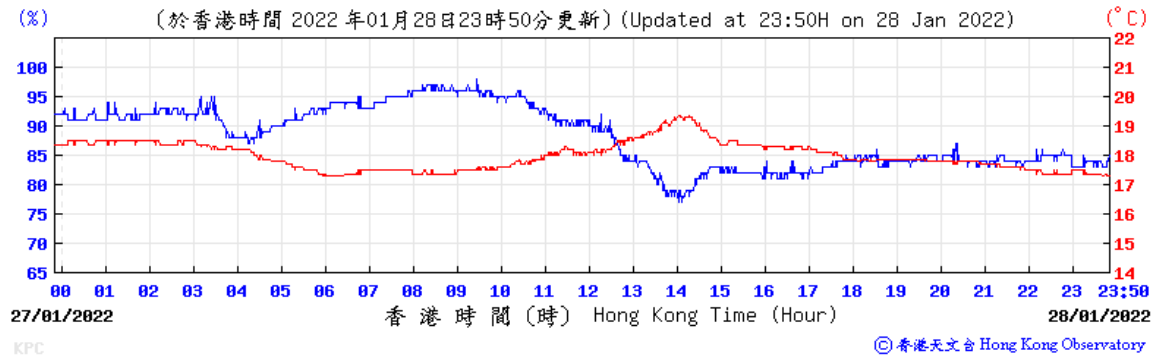
Wind Direction:



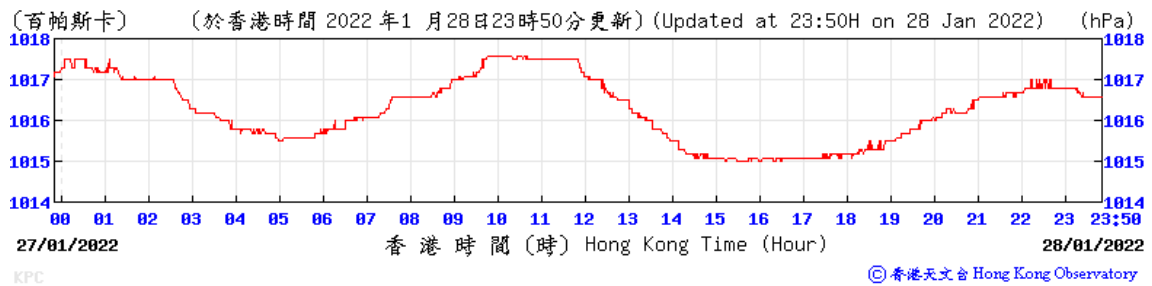
Wind Speed:



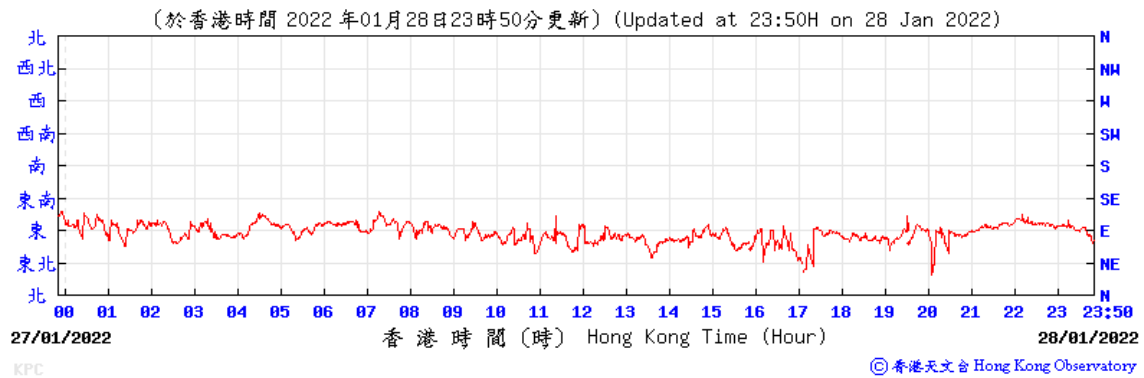
Temperature/Humidity:



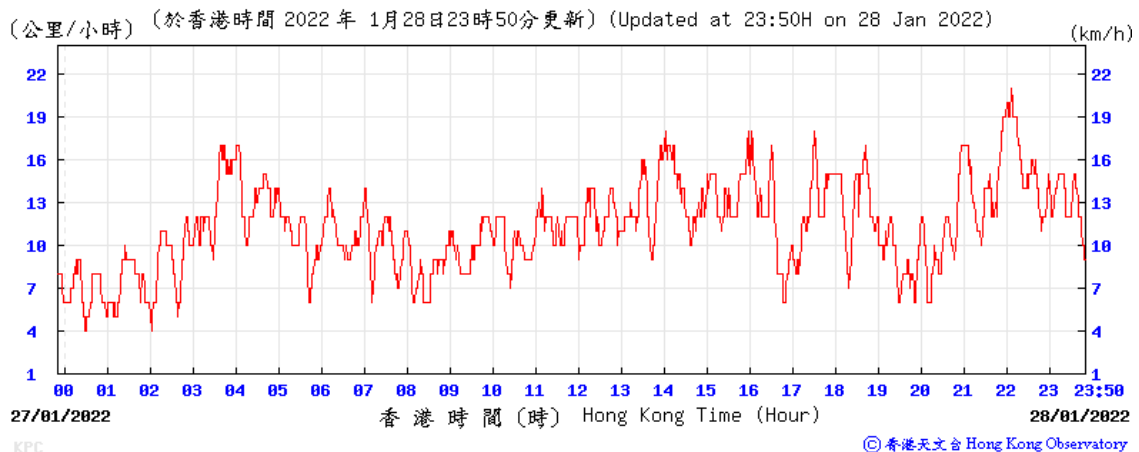
Pressure:



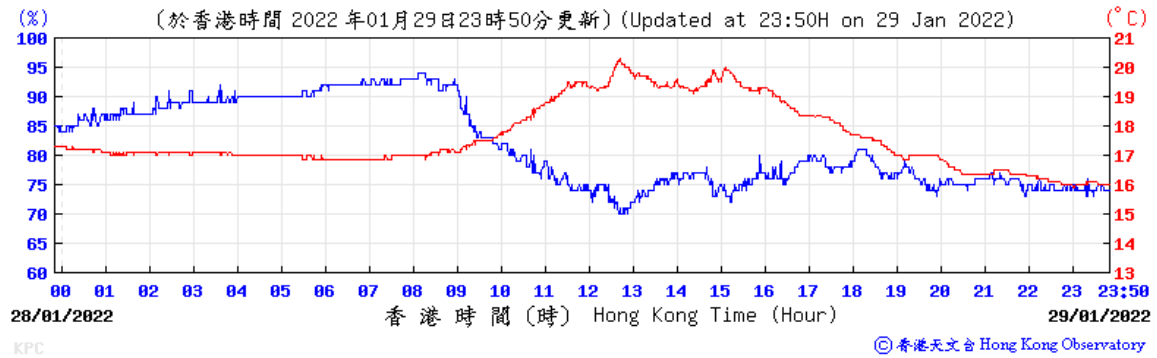
Wind Direction:



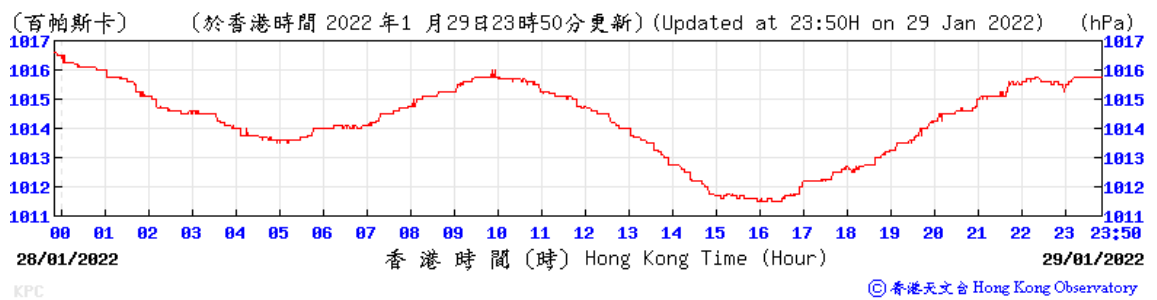
Wind Speed:



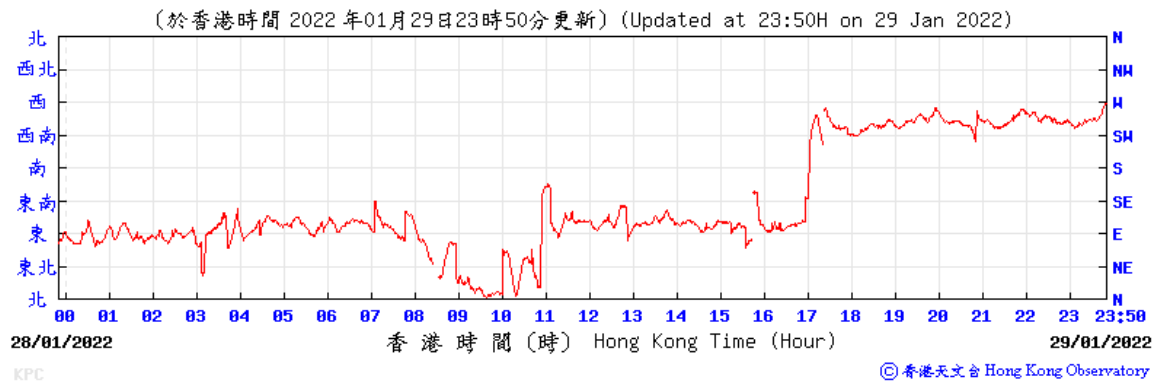
Temperature/Humidity:



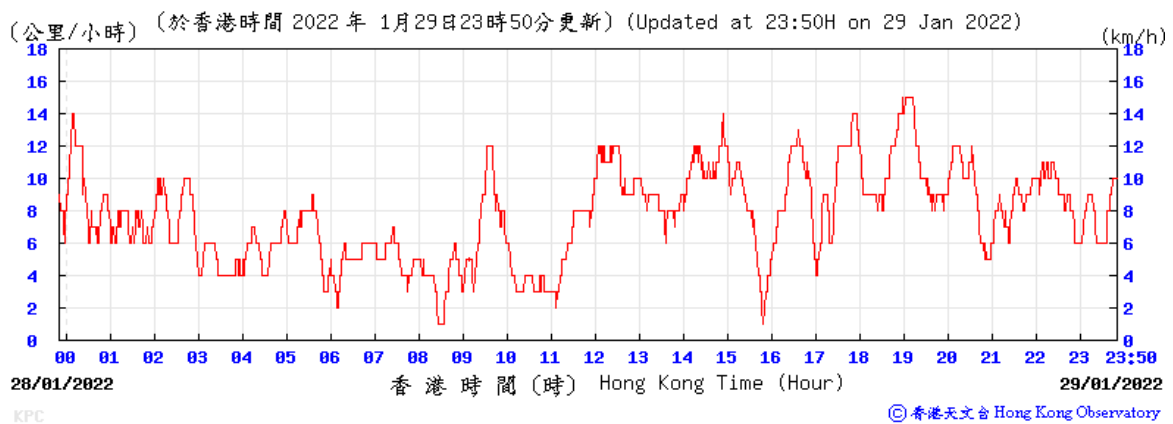
Pressure:



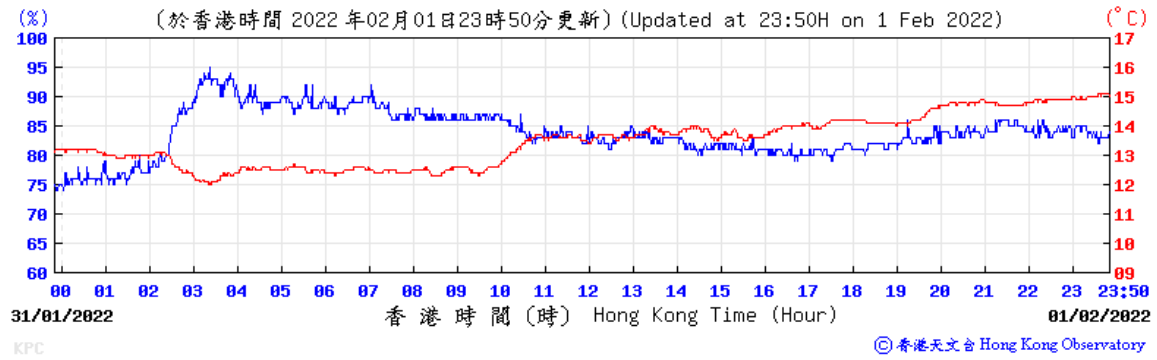
Wind Direction:



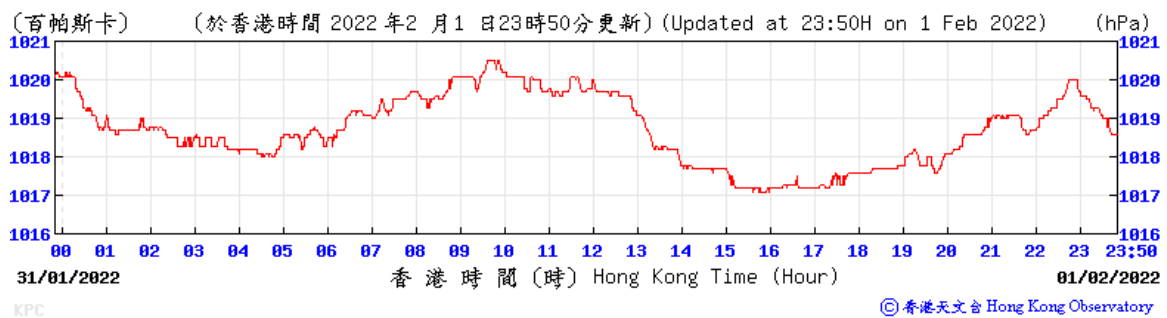
Wind Speed:



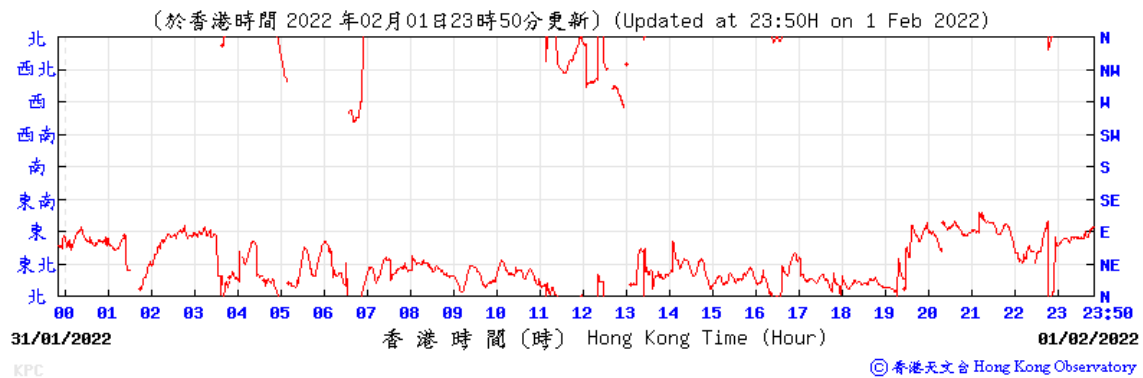
Temperature/Humidity:



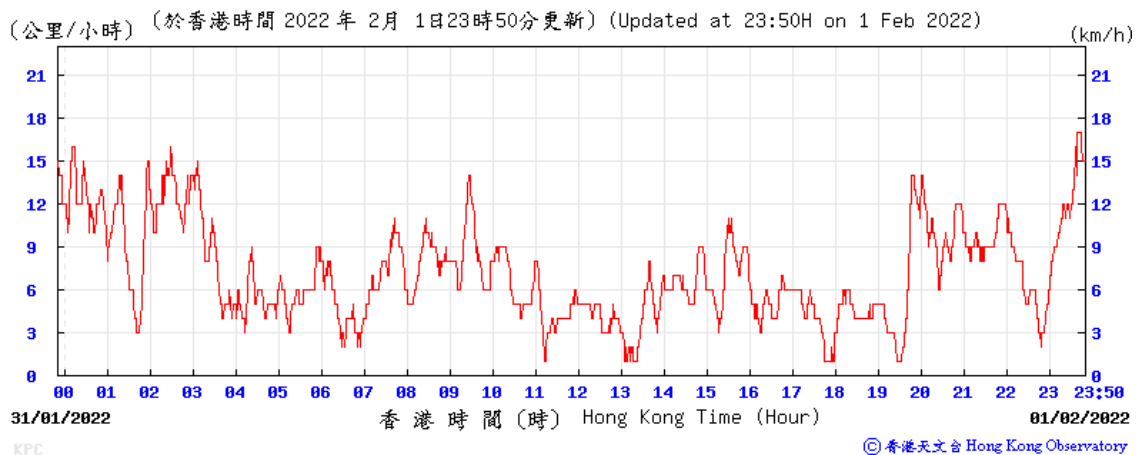
Pressure:



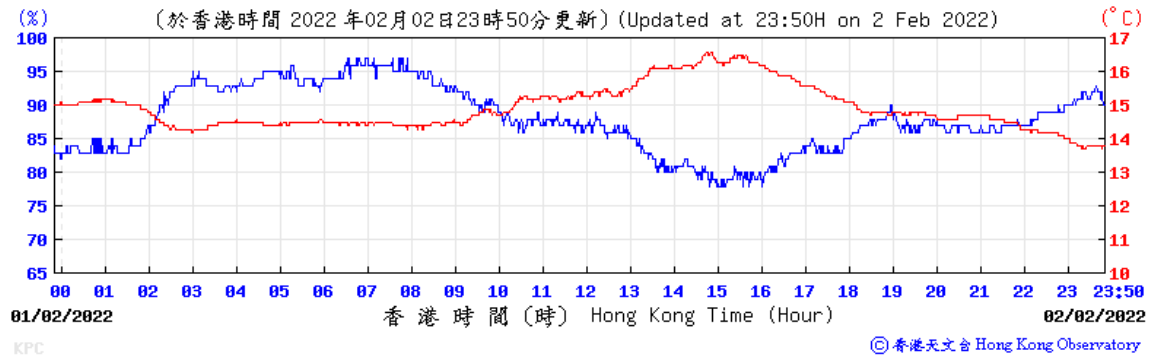
Wind Direction:



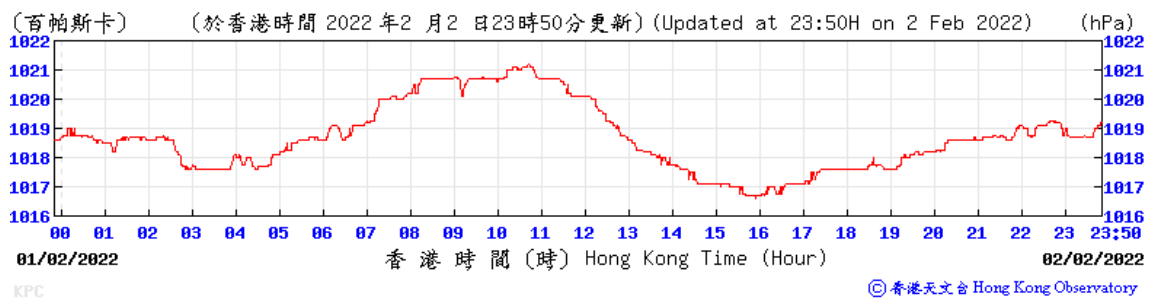
Wind Speed:



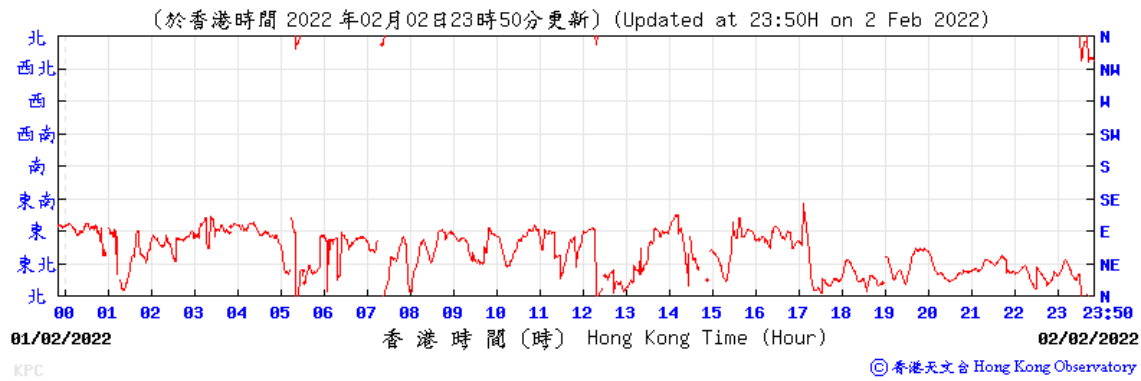
Temperature/Humidity:



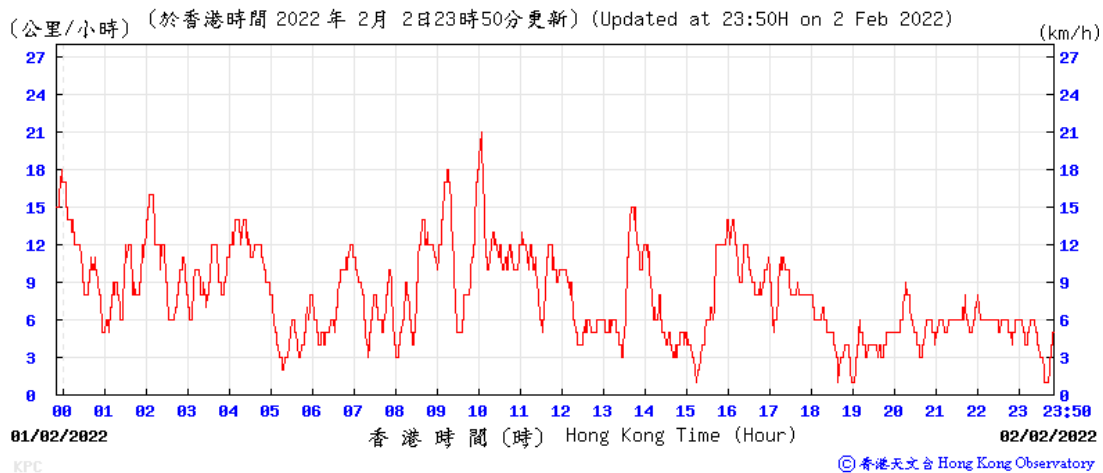
Pressure:



Wind Direction:



Wind Speed:

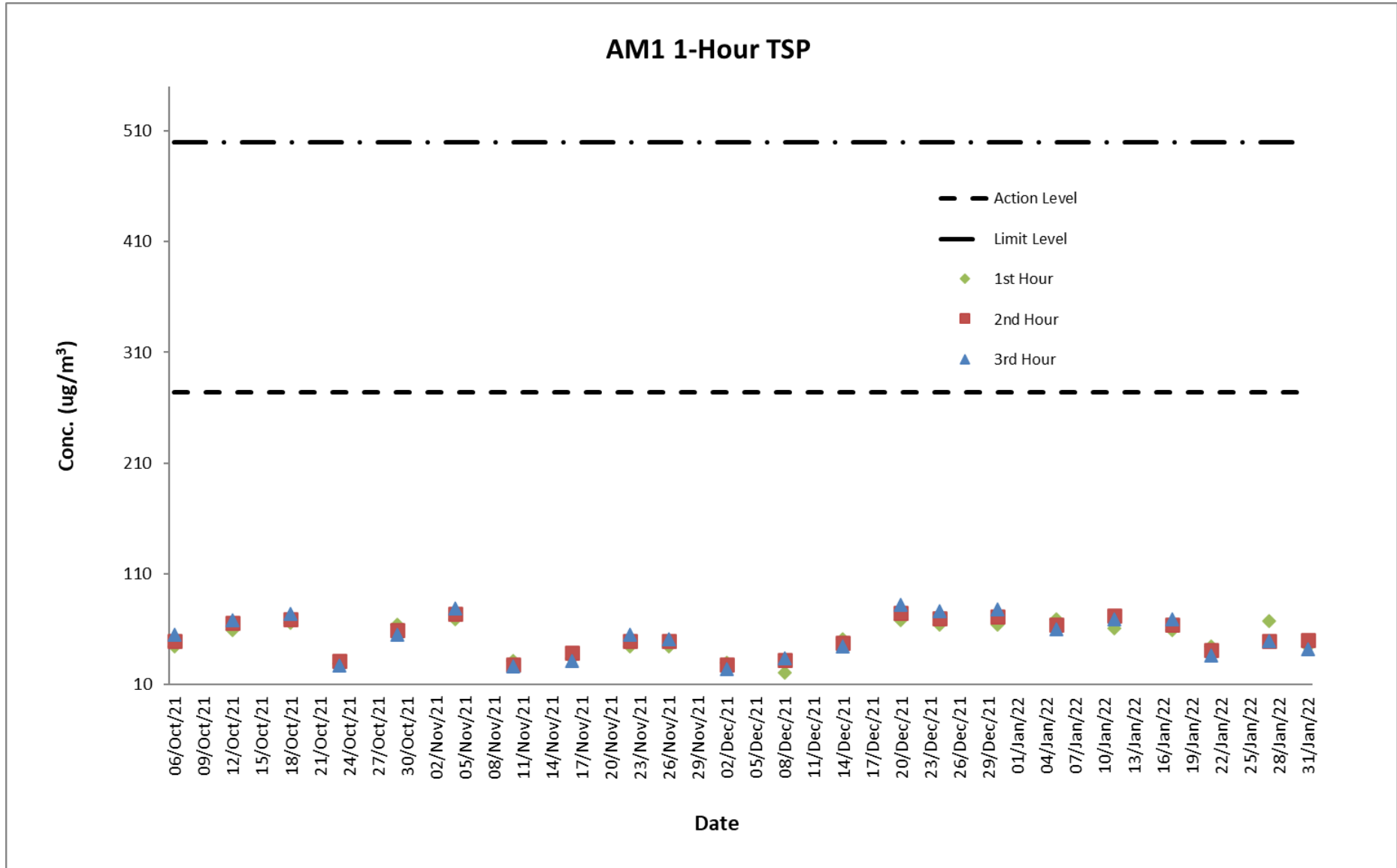


E. Graphical Plots of the Monitoring Results

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 st Hour	2 nd Hour	3 rd Hour		
04-Nov-21	Fine	8:18 - 11:18	69	74	79	273.7	500
10-Nov-21	Fine	8:23 - 11:23	31	28	26	273.7	500
16-Nov-21	Sunny	8:32 - 11:32	34	39	31	273.7	500
22-Nov-21	Cloudy	8:24 - 11:24	44	49	55	273.7	500
26-Nov-21	Sunny	8:33 - 11:33	44	49	51	273.7	500
02-Dec-21	Sunny	8:23 - 11:23	30	28	24	273.7	500
08-Dec-21	Sunny	8:23 - 11:23	21	32	34	273.7	500
14-Dec-21	Cloudy	8:23 - 11:23	51	48	44	273.7	500
20-Dec-21	Cloudy	8:25 - 11:25	68	75	82	273.7	500
24-Dec-21	Cloudy	8:23 - 11:23	64	70	76	273.7	500
30-Dec-21	Sunny	8:25 - 11:25	64	71	78	273.7	500
05-Jan-22	Cloudy	8:24 - 11:24	69	64	60	273.7	500
11-Jan-22	Sunny	8:29 - 11:29	61	72	69	273.7	500
17-Jan-22	Cloudy	8:28 - 11:28	59	64	69	273.7	500
21-Jan-22	Sunny	8:23 - 11:23	44	41	36	273.7	500
27-Jan-22	Cloudy	8:32 - 11:32	67	49	49	273.7	500
31-Jan-22	Cloudy	8:28 - 11:28	44	50	42	273.7	500

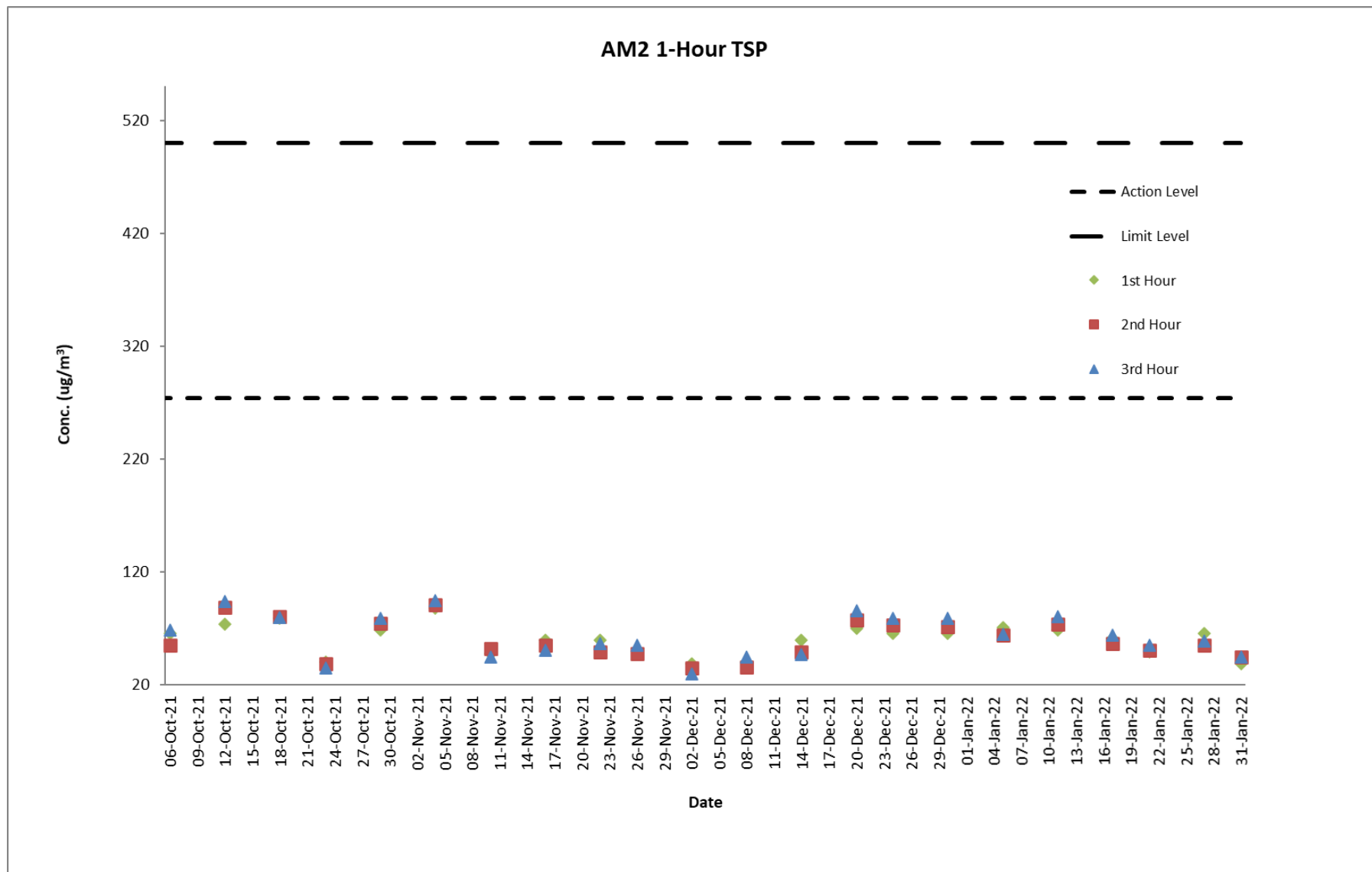
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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 st Hour	2 nd Hour	3 rd Hour		
04-Nov-21	Fine	8:33 - 11:33	88	91	95	274.2	500
10-Nov-21	Fine	8:39 - 11:39	48	52	45	274.2	500
16-Nov-21	Sunny	8:47 - 11:47	60	55	51	274.2	500
22-Nov-21	Cloudy	8:38 - 11:38	60	49	57	274.2	500
26-Nov-21	Sunny	8:48 - 11:48	50	48	55	274.2	500
02-Dec-21	Sunny	8:38 - 11:38	39	35	30	274.2	500
08-Dec-21	Sunny	8:37 - 11:37	40	36	45	274.2	500
14-Dec-21	Cloudy	8:39 - 11:39	60	49	47	274.2	500
20-Dec-21	Cloudy	8:39 - 11:39	70	78	86	274.2	500
24-Dec-21	Cloudy	8:38 - 11:38	66	73	79	274.2	500
30-Dec-21	Sunny	8:40 - 11:40	66	72	79	274.2	500
05-Jan-22	Cloudy	8:38 - 11:38	71	64	65	274.2	500
11-Jan-22	Sunny	8:45 - 11:45	69	74	81	274.2	500
17-Jan-22	Cloudy	8:42 - 11:42	61	57	64	274.2	500
21-Jan-22	Sunny	8:37 - 11:37	49	51	55	274.2	500
27-Jan-22	Cloudy	8:45 - 11:45	66	55	59	274.2	500
31-Jan-22	Cloudy	8:43 - 11:43	39	45	45	274.2	500

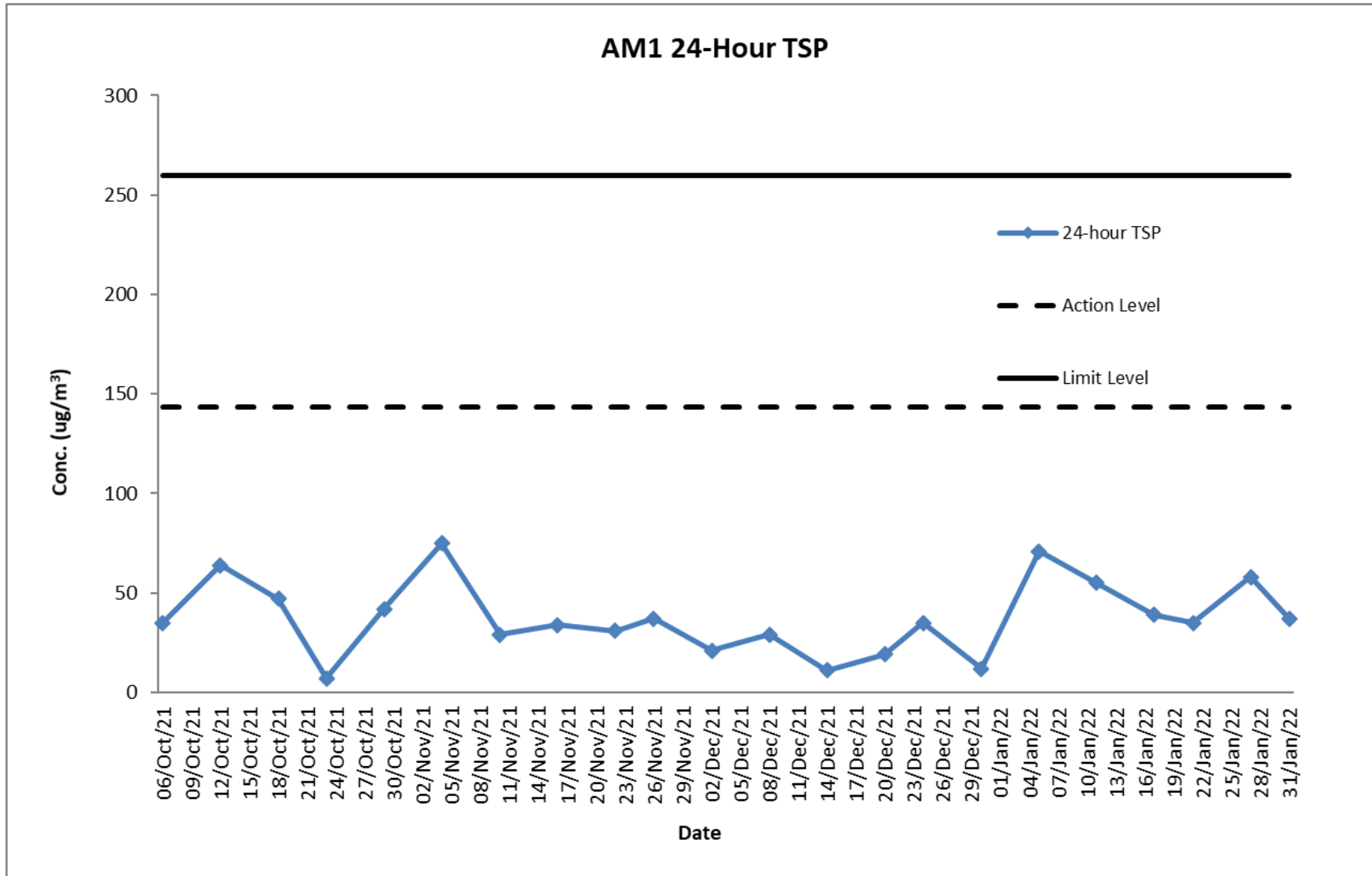
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
04-Nov-21	08:15	05-Nov-21	08:15	2.7263	2.8572	24104.38	24128.38	24	1.22	1.22	1.22	75	Fine	143.6	260
10-Nov-21	08:20	11-Nov-21	08:20	2.7443	2.796	24128.38	24152.38	24	1.22	1.22	1.22	29	Fine	143.6	260
16-Nov-21	08:30	17-Nov-21	08:30	2.7492	2.8117	24152.38	24176.38	24	1.26	1.26	1.26	34	Sunny	143.6	260
22-Nov-21	08:22	23-Nov-21	08:22	2.7501	2.8064	24176.38	24200.38	24	1.26	1.26	1.26	31	Cloudy	143.6	260
26-Nov-21	08:30	27-Nov-21	08:30	2.7515	2.8184	24200.38	24224.38	24	1.26	1.26	1.26	37	Sunny	143.6	260
02-Dec-21	08:20	03-Dec-21	08:20	2.7347	2.7726	24224.38	24248.38	24	1.26	1.26	1.26	21	Sunny	143.6	260
08-Dec-21	08:20	09-Dec-21	08:20	2.7220	2.7755	24248.38	24272.38	24	1.26	1.26	1.26	29	Sunny	143.6	260
14-Dec-21	08:20	15-Dec-21	08:20	2.7354	2.7556	24272.38	24296.38	24	1.26	1.26	1.26	11	Cloudy	143.6	260
20-Dec-21	08:22	21-Dec-21	08:22	2.7742	2.8079	24296.38	24320.38	24	1.26	1.26	1.26	19	Cloudy	143.6	260
24-Dec-21	08:20	25-Dec-21	08:20	2.8172	2.8806	24320.38	24344.38	24	1.26	1.26	1.26	35	Cloudy	143.6	260
30-Dec-21	08:22	31-Dec-21	08:22	2.8188	2.8410	24344.38	24368.38	24	1.26	1.26	1.26	12	Sunny	143.6	260
05-Jan-22	08:21	06-Jan-22	08:21	2.8175	2.9467	24368.38	24392.38	24	1.26	1.26	1.26	71	Cloudy	143.6	260
11-Jan-22	08:26	12-Jan-22	08:26	2.8119	2.912	24392.38	24416.38	24	1.26	1.26	1.26	55	Sunny	143.6	260
17-Jan-22	08:25	18-Jan-22	08:25	2.8067	2.8767	24416.38	24440.38	24	1.25	1.25	1.25	39	Cloudy	143.6	260
21-Jan-22	08:20	22-Jan-22	08:20	2.8054	2.8686	24440.38	24464.38	24	1.25	1.25	1.25	35	Sunny	143.6	260
27-Jan-22	08:29	28-Jan-22	08:29	2.7930	2.8980	24464.38	24488.38	24	1.25	1.25	1.25	58	Cloudy	143.6	260
31-Jan-22	08:25	01-Feb-22	08:25	2.7882	2.8546	24488.38	24512.38	24	1.25	1.25	1.25	37	Cloudy	143.6	260

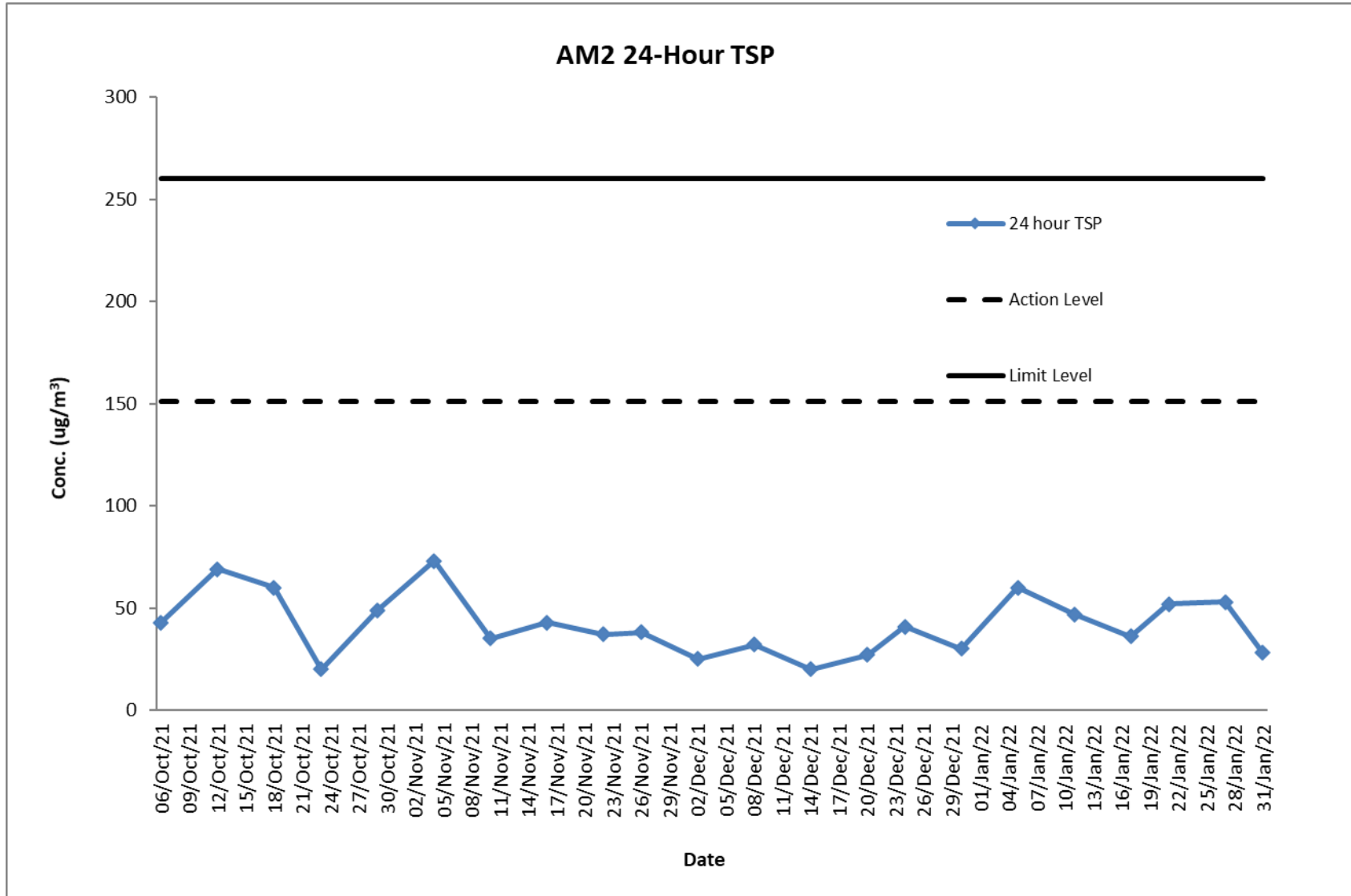
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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					
04-Nov-21	08:29	05-Nov-21	08:29	24	73	Fine	151.1	260
10-Nov-21	08:35	11-Nov-21	08:35	24	35	Fine	151.1	260
16-Nov-21	08:44	17-Nov-21	08:44	24	43	Sunny	151.1	260
22-Nov-21	08:35	23-Nov-21	08:35	24	37	Cloudy	151.1	260
26-Nov-21	08:45	27-Nov-21	08:45	24	38	Sunny	151.1	260
02-Dec-21	08:35	03-Dec-21	08:35	24	25	Sunny	151.1	260
08-Dec-21	08:34	09-Dec-21	08:34	24	32	Sunny	151.1	260
14-Dec-21	08:35	15-Dec-21	08:35	24	20	Cloudy	151.1	260
20-Dec-21	08:36	21-Dec-21	08:36	24	27	Cloudy	151.1	260
24-Dec-21	08:35	25-Dec-21	08:35	24	41	Cloudy	151.1	260
30-Dec-21	08:37	31-Dec-21	08:37	24	30	Sunny	151.1	260
05-Jan-22	08:35	06-Jan-22	08:35	24	60	Cloudy	151.1	260
11-Jan-22	08:42	12-Jan-22	08:42	24	47	Sunny	151.1	260
17-Jan-22	08:39	18-Jan-22	08:39	24	36	Cloudy	151.1	260
21-Jan-22	08:35	22-Jan-22	08:35	24	52	Sunny	151.1	260
27-Jan-22	08:42	28-Jan-22	08:42	24	53	Cloudy	151.1	260
31-Jan-22	08:40	01-Feb-22	08:40	24	28	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)
04-Nov-21	09:17	65.6	61.7	67
04-Nov-21	09:22	66.0	62.5	
04-Nov-21	09:27	65.2	61.6	
04-Nov-21	09:32	67.3	63.8	
04-Nov-21	09:37	67.9	63.1	
04-Nov-21	09:42	66.6	62.7	
10-Nov-21	09:23	66.0	62.1	68
10-Nov-21	09:28	67.2	63.4	
10-Nov-21	09:33	66.6	62.9	
10-Nov-21	09:38	66.4	62.3	
10-Nov-21	09:43	67.6	63.8	
10-Nov-21	09:48	66.5	62.6	69
16-Nov-21	09:32	66.0	62.8	
16-Nov-21	09:37	67.2	63.3	
16-Nov-21	09:42	68.4	64.6	
16-Nov-21	09:47	68.5	64.7	
16-Nov-21	09:52	67.5	63.1	
16-Nov-21	09:57	68.9	64.6	68
22-Nov-21	09:23	65.0	61.7	
22-Nov-21	09:28	66.1	62.9	
22-Nov-21	09:33	66.8	62.7	
22-Nov-21	09:38	67.5	63.6	
22-Nov-21	09:43	67.4	63.7	
22-Nov-21	09:48	66.6	62.7	68
02-Dec-21	09:21	66.0	62.8	
02-Dec-21	09:26	67.2	63.4	
02-Dec-21	09:31	68.6	64.5	
02-Dec-21	09:36	66.3	62.5	
02-Dec-21	09:41	66.1	62.8	
02-Dec-21	09:46	67.6	63.3	68
08-Dec-21	09:22	66.0	62.1	
08-Dec-21	09:27	67.8	63.9	
08-Dec-21	09:32	66.2	62.4	
08-Dec-21	09:37	67.7	63.6	
08-Dec-21	09:42	68.4	64.2	
08-Dec-21	09:47	67.0	63.3	68
14-Dec-21	09:23	66.7	62.0	
14-Dec-21	09:28	67.1	63.3	
14-Dec-21	09:33	67.6	63.5	
14-Dec-21	09:38	66.3	62.1	
14-Dec-21	09:43	68.7	64.8	
14-Dec-21	09:48	67.6	63.5	68
20-Dec-21	09:23	67.0	63.4	
20-Dec-21	09:28	66.8	62.1	
20-Dec-21	09:33	66.2	62.6	
20-Dec-21	09:38	68.7	64.1	
20-Dec-21	09:43	66.4	62.5	
20-Dec-21	09:48	67.6	63.4	68
30-Dec-21	09:25	66.4	62.0	
30-Dec-21	09:30	67.1	63.5	
30-Dec-21	09:35	66.3	62.4	
30-Dec-21	09:40	66.5	62.4	
30-Dec-21	09:45	67.7	63.8	
30-Dec-21	09:50	67.6	63.9	

05-Jan-22	09:22	67.0	63.7	68
05-Jan-22	09:27	66.8	62.4	
05-Jan-22	09:32	66.6	62.4	
05-Jan-22	09:37	68.1	64.4	
05-Jan-22	09:42	67.3	63.9	
05-Jan-22	09:47	67.1	63.2	
11-Jan-22	09:29	66.0	62.2	68
11-Jan-22	09:34	67.5	63.4	
11-Jan-22	09:39	66.2	62.6	
11-Jan-22	09:44	66.7	62.5	
11-Jan-22	09:49	68.4	64.2	
11-Jan-22	09:54	66.9	62.7	
17-Jan-22	09:25	66.7	62.0	68
17-Jan-22	09:30	67.1	63.8	
17-Jan-22	09:35	67.7	63.5	
17-Jan-22	09:40	66.3	62.5	
17-Jan-22	09:45	67.6	63.7	
17-Jan-22	09:50	66.2	62.9	
27-Jan-22	09:29	66.8	62.0	68
27-Jan-22	09:34	67.1	63.7	
27-Jan-22	09:39	66.1	62.6	
27-Jan-22	09:44	66.3	62.2	
27-Jan-22	09:49	67.6	63.7	
27-Jan-22	09:54	66.5	62.2	
31-Jan-22	09:27	66.0	62.1	68
31-Jan-22	09:32	67.6	63.2	
31-Jan-22	09:37	67.3	63.7	
31-Jan-22	09:42	66.9	62.5	
31-Jan-22	09:47	67.6	63.7	
31-Jan-22	09:52	67.8	63.5	

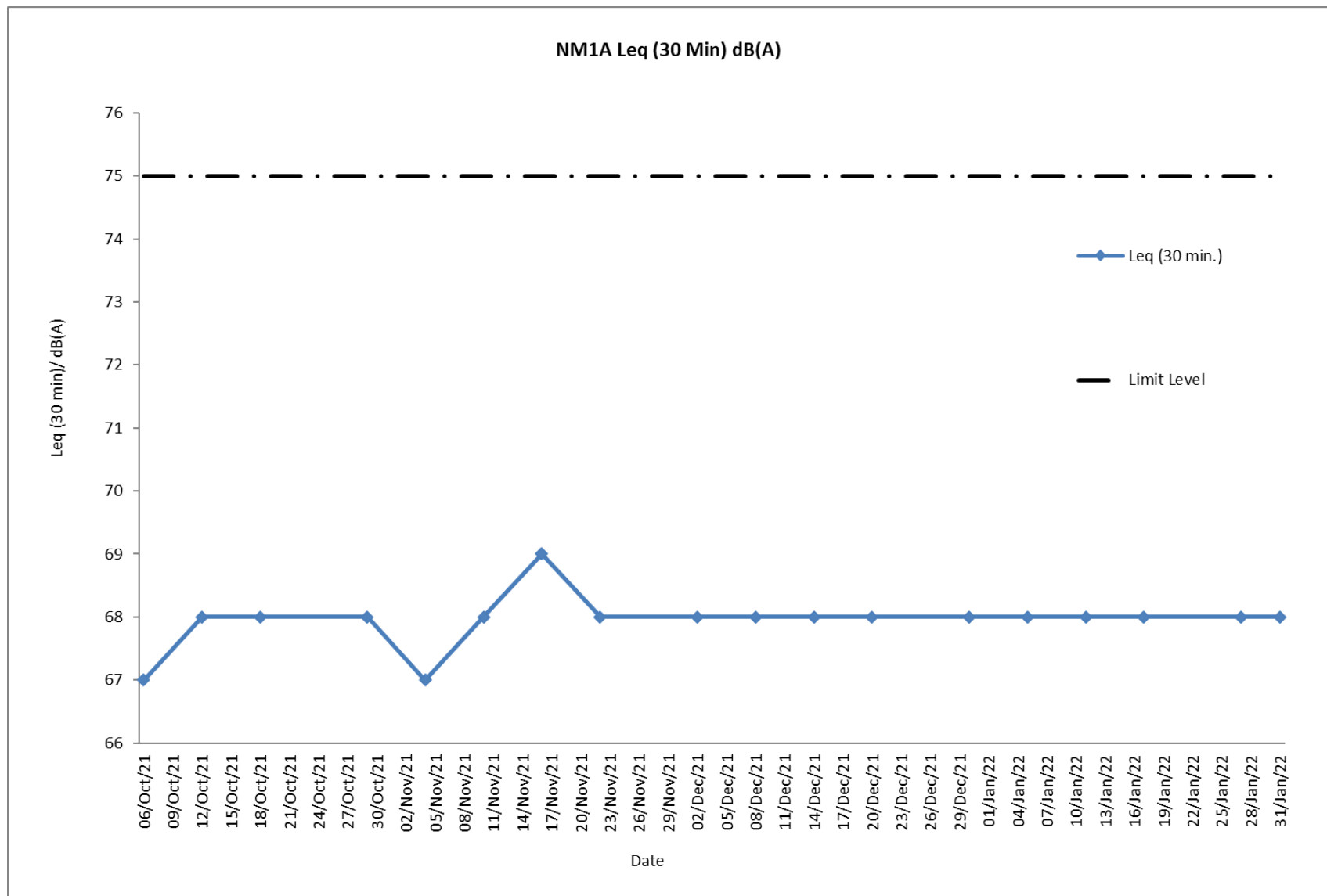
Remarks:

+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)
2016													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8600.8	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	36.9	0.2	1.5	0.0	0.0	15.2
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.5	0.4	1.5	0.0	7.6	191.6
2017													
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0
Jun	476.0	0.0	0.0	341.0	129.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Jul	3419.0	0.0	0.0	804.0	2615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Aug	3730.9	0.0	0.0	1377.5	2353.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Sep	2108.2	0.0	0.0	1133.5	974.7	0.0	0.0	34.6	0.2	0.0	0.0	0.0	10.8
Oct	9159.0	0.0	0.0	7868.0	1291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.3
Nov	5095.4	0.0	0.0	4352.0	725.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	38.8
Dec	3856.2	0.0	0.0	3076.0	780.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	8.4
Sub-total (2017)	63093.1	0.0	0.0	19051.0	44018.7	23.4	0.0	187.1	0.7	0.0	0.0	3.8	137.3

Table 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)
2018													
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4924.3	0.0	0.0	4641.2	196.1	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19099.9	0.0	0.0	11301.0	7642.8	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104168.0	0.0	0.0	79811.6	24351.0	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62989.9	0.0	0.0	51284.4	11699.9	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449702.6	0.0	0.0	368984.8	80463.7	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
2019													
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.9	0.0	0.0	8569.9	10742.0	0.0	337.8	61.5	0.0	0.0	0.0	0.0	36.3
Apr	28559.9	0.0	0.0	21280.3	7279.6	0.0	0.0	32.6	0.0	0.8	0.0	0.0	24.9
May	45418.0	0.0	0.0	11200.6	34217.4	0.0	0.0	27.4	0.2	0.5	0.0	0.0	33.7
Jun	66633.4	0.0	0.0	23874.5	42748.0	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36619.6	0.0	0.0	1632.7	34960.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2526.8	0.0	0.0	0.0	2499.0	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4117.6	0.0	0.0	0.0	4088.7	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6974.2	0.0	0.0	0.0	6948.1	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5334.4	0.0	0.0	0.0	5304.1	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Dec	6236.8	0.0	0.0	0.0	6236.8	0.0	0.0	70.6	0.0	0.0	0.0	0.0	98.9
Sub-total (2019)	318181.6	0.0	0.0	153531.3	164500.1	150.1	938.9	785.8	0.6	4.6	0.0	0.6	959.0

Table 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)
2020													
Jan	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	10.6	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	232.2	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	1123.9	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	406.5	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	262.6	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	458.5	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	340.8	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	750.7	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	717.9	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	473.6	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	478.3	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	5318.7	3.7	2.0	0.0	0.0	2746.8
2021													
Jan	881.4	0.0	0.0	0.0	881.4	0.0	0.0	835.1	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	100.5	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	455.8	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	429.9	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	355.1	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	98.4	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	43.9	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	161.5	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	62.9	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	85.9	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	65.9	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	13.4	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	2708.2	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)
2022													
Jan	579.3	0.0	0.0	0.0	579.3	0.0	0.0	23.5	0.0	0.0	0.0	0.0	565.5
Sub-total (2022)	579.3	0.0	0.0	0.0	579.3	0.0	0.0	23.5	0.0	0.0	0.0	0.0	565.5
Total	995181.2	0.0	0.0	543635.2	450553.2	992.7	2301.1	10027.3	10.2	10.5	0.0	12.9	11859.8

Note:

- 1134.8, 42.5 and 182.4 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.

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 (Nov 21 – Jan 22)	0	0	0
From 1 March 2016 to end of the reporting quarter	30	0	0

END OF PART-1

Part-2: EM&A for Foundation Works in Zones 2A, 2B & 2C

Foundation Works 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

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Executive summary

This Quarterly EM&A Report presents the monitoring works conducted at Zone 2A and Zone 2B & 2C from 1 November 2021 to 31 January 2022.

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 the 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 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

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) ; and Zone 2B & 2C consisting of Piling Works for Integrated Basement and Underground Road (Contract No.: CC/2020/2B/088) at WKCD. The major construction works and EM&A programme for Zone 2A and Zone 2B & 2C commenced on 3 October 2020 and 30 September 2021 respectively.

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 Zone 2A and Zone 2B & 2C is to reserve for Integrated Basement (IB) and Underground Road (UR). The Zone 2A construction activities involve the foundation, excavation and lateral support (ELS) works, road works, drainage diversion works, and temporary car parking. The Zone 2B & 2C construction activities involve the piling works.

The 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 at Zone 2A and Zone 2B & 2C from 1 November 2021 to 31 January 2022. 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 Zone 2A undertaken include:

Zone 2A-1

- ELS (Stage 1) – Grouting / Pipe Pile Works
 - King Post & Erection of Steel Column for Working Platform
- Socketed H-Pile Works
 - Remaining Socketed H-Pile Works

- Bored Pile Works
 - Bored Pile Construction

Zone 2A-2

- Bored Pile Works
 - Additional Bored Pile Construction
- ELS (Stage 1) – Grouting / Pipe Pile Works
 - King Post
 - Stage 1a & 1b Grouting
 - Pipe Pile Construction

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

Stage (4-1)

KD01 (Stage 1-1)

- Bored Pile Works
 - Predrilling, Airlifting, Cage Installation & Concreting and Excavation

KD02 (Stage 5-1), KD05 (Section 1), KD06 (Section 2), KD08 (Section 4)

- Bored Pile Works
 - Predrilling, RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation

KD03 (Stage 3-1), KD07 (Section 3)

- Bored Pile Works
 - Predrilling and Excavation

KD04 (Stage 4-1)

- Bored Pile Works
 - Predrilling

KD09 (Section 5)

- Bored Pile Works
 - Predrilling, RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation
- Socket Steel H Pile Works
 - Predrilling

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 ³	260 µg/m ³
	1-Hour TSP	AM3 - The Victoria Towers Tower 1	At least 3 times every 6 days	280.4 µg/m ³	500 µg/m ³
	24-Hour TSP	AM4 - Canton Road Government Primary School	At least once every 6 days	152.6 µg/m ³	260 µg/m ³
	1-Hour TSP	AM4 - Canton Road Government Primary School	At least 3 times every 6 days	278.5 µg/m ³	500 µg/m ³
	24-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least once every 6 days	141.1 µg/m ³	260 µg/m ³
	1-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days	275.4 µg/m ³	500 µg/m ³
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) [^]
	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:

[^]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 2A0. 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 are presented in **Table 3.1**.

Table 3.1: Summary of Monitoring Data

Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	AM3A	44	102	67
1 hour TSP	AM4A	43	103	67
1 hour TSP	AM5A	43	101	67
24 hour TSP	AM3A	42	96	63
24 hour TSP	AM4A	42	95	62
24 hour TSP	AM5A	41	97	62
Construction Noise				
Leq(30min)	NM2A	57	59	58
Leq(30min)	NM3A	66	71	70
Leq(30min)	NM4A	63	68	67
Leq(30min)	NM5A	65	66	66

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 Zone 2A

As advised by the Contractor, 44.85 tonnes, 336.22 tonnes, 7459.48 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter, while 49.55 tonnes of general refuse were disposed of at SENT landfill. 0.0 tonne of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 144.00 tonnes of inert C&D materials were reused on site. 0.0 tonne of fill materials were 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 was disposed to sorting facility and 1.00 tonnes of chemical wastes was collected by licensed contractors in the reporting quarter.

4.2 Zone 2B & 2C

As advised by the Zone 2B & 2C Contractor, 22001.83 tonnes and 6445.94 tonnes of inert C&D material were disposed of at Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill in the reporting quarter, while 46.07 tonnes of general refuse were disposed of at SENT landfill. 0.0 tonne of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber was collected by recycling contractors in the reporting quarter. 3258.42 tonnes of inert C&D material were reused on site. 0.0 tonne of inert C&D material was imported for reuse at site and 0.0 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 Zone 2A and Zone 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 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

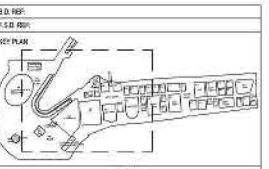
The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works of Zone 2A and Zone 2B & 2C commenced on 3 October 2020 and 30 September 2021 respectively.

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.

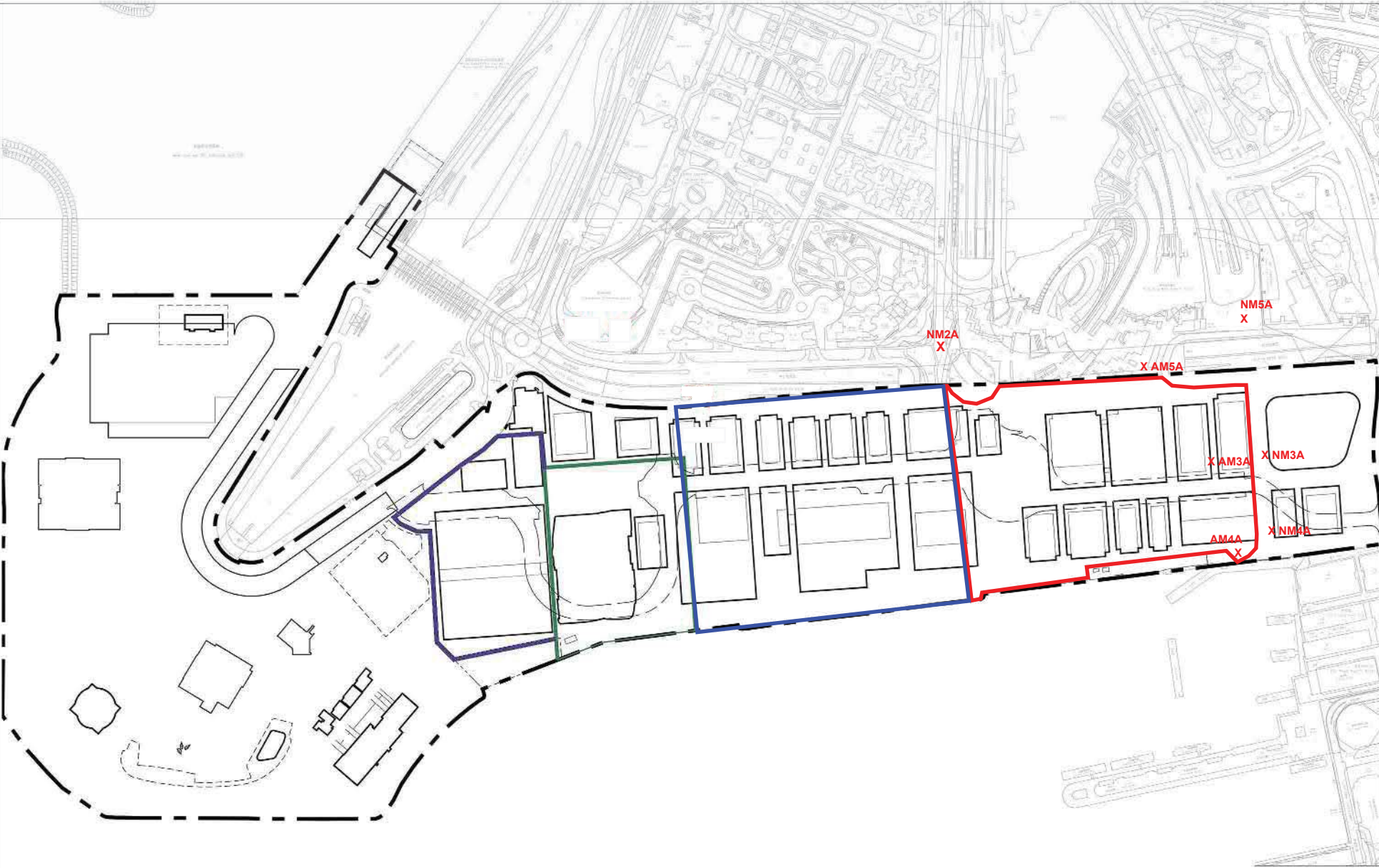
Figure 1 Site Layout Plan and Monitoring Stations



- NOTES**
- WKCD BOUNDARY
 - M+ MUSEUM BOUNDARY
 - LYRIC THEATRE BOUNDARY
 - BOUNDARY OF UNDERPASS ROAD SERVING THE PLANNED WKCD
 - X CONSTRUCTION AIR/NOISE MONITORING STATION

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

- Zone 2A Boundary
- Zone 2B & 2C Boundary



REV.	DATE	DESCRIPTION	INITIAL

J23 1111 DEVELOPMENT AT WEST KOWLOON CULTURAL DISTRICT

DRAWING TITLE: SITE LAYOUT PLAN AND MONITORING STATIONS

SCALE: 1:50 PRINTED: A1

CHECKED: DATE

APPROVED: DATE

DRAWN: TY DATE: 15-05-2016

CONTRACT NO: -

DRAWING NO: **FIGURE 1** REV: **XX**

CAD REF NAME: X0001_A11_P115_DWG_P10_L001_0001_000.dwg

AUTHORITY

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

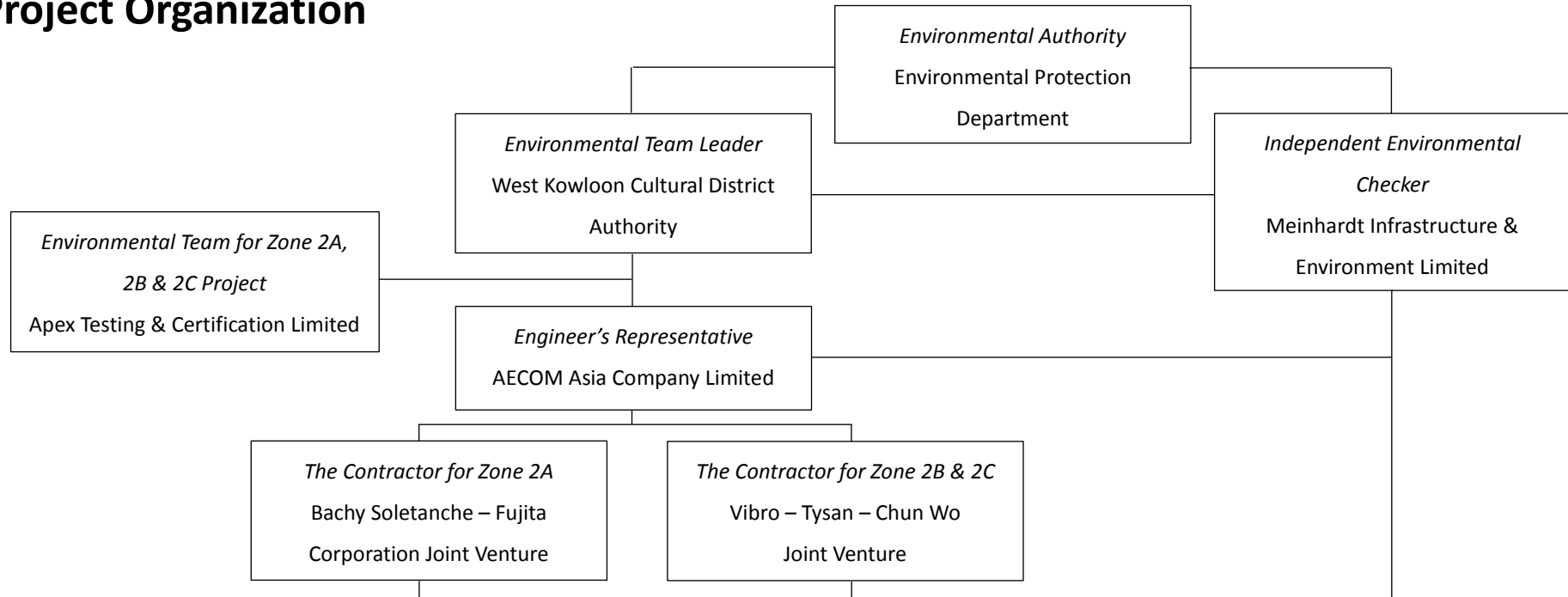


Table A-1: Contract Information

Company Name	Role	Name	Telephone	Email
West Kowloon Cultural District Authority	WKCDCA Representative & Project ETL	Mr. C.K. WU	5506 9178	ck.wu@wkcd.a.hk
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine LEE	2859 5409	caludinelee@meinhardt.com.hk
AECOM Asia Company Limited	Resident Engineer	Mr. Alex GBAGUIDI	3619 6287	alex.gbaguidi@aecom.com
Bachy Soletanche – Fujita Corporation Joint Venture	Interface & Environmental Manager	Mr. Philip CHAN	9668 8403	philip.chan@soletanche-bachy.com
Bachy Soletanche – Fujita Corporation Joint Venture	Environmental Engineer	Mr. William CHAN	54083045	william-hou.chan@soletanche-bachy.com
Vibro – Tysan – Chun Wo Joint Venture	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

Zone 2A

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2021					2022										
				November				December					January						
				6	12	19	26	3	10	17	24	31	7	14	21	28			
W78	W79	W80	W81	W82	W83	W84	W85	W86	W87	W88	W89	W90							
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)																			
ELS (Stage 1) - Grouting / Pipe Pile Works																			
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (11/41 Nos completed)	300	15-May-21	10-Mar-22																
Socketed H-Pile Works																			
Remaining Socketed H-Pile Works (27/53 Nos completed)	174	16-Jun-21	18-Dec-21																
Bored Pile Works																			
Bored Pile Construction (Total 32 Nos. 2~4 Workfront)																			
BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1, BP35J1, BP35K1, BP33D, BP32E, BP34E, BP33E, BP35C1 (30 Nos. Cast; 1 Nos. completed RCD; 1 Nos. RCD in progress)	365	9-Nov-20	8-Nov-21																
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)																			
Bored Pile Works																			
Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA, BP12K, BP13W, BP12P, BP12JA, BP12E (14 Nos. Cast; 0 Nos. completed RCD; 1 Nos. RCD in progress)	299	23-Mar-21	15-Jan-22																
ELS (Stage 1) - Grouting / Pipe Pile Works																			
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	194	20-Nov-21	1-Jun-22																
Stage 1a & 1b grouting (860/1058 Nos Completed)	561	22-Oct-20	5-May-22																
Pipe Pile Construction (374/523 Nos Completed)	547	17-Nov-20	17-May-22																

- - Actual
- - Remaining Works
- - Critical Remaining Works

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2021				2022							
				December				January				February			
				10	17	24	31	7	14	21	28	4	11	18	25
W83	W84	W85	W86	W87	W88	W89	W90	W91	W92	W93	W94				
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)															
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (13/41 Nos completed)	342	15-May-21	21-Apr-22												
Socketed H-Pile Works															
Remaining Socketed H-Pile Works (27/53 Nos completed)	218	16-Jun-21	19-Jan-22												
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)															
Bored Pile Works															
Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA, BP12K, BP13W, BP12P, BP12JA, BP12E, BP17Y (14 Nos. Cast; 1 Nos. completed RCD)	290	23-Mar-21	6-Jan-22												
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	208	18-Dec-21	13-Jul-22												
Stage 1a & 1b grouting (915/940 Nos Completed)	478	22-Oct-20	11-Feb-22												
Pipe Pile Construction (411/457 Nos Completed)	591	17-Nov-20	30-Jun-22												

- Actual
- Remaining Works
- Critical Remaining Works

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2022											
				January				February				March			
				7	14	21	28	4	11	18	25	4	11	18	25
W87	W88	W89	W90	W91	W92	W93	W94	W95	W96	W97	W98				
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)															
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (13/41 Nos completed)	356	15-May-21	5-May-22												
Socketed H-Pile Works															
Remaining Socketed H-Pile Works (53/53 Nos completed)	210	16-Jun-21	11-Jan-22												
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)															
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	193	15-Jan-22	26-Jul-22												
Stage 1a & 1b grouting (930/940 Nos Completed)	490	22-Oct-20	23-Feb-22												
Pipe Pile Construction (412/457 Nos Completed)	543	17-Nov-20	13-May-22												

- Actual
- Remaining Works
- Critical Remaining Works

Zone 2B & 2C

Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November				December				January				February			
									1				2				3				4			
									7	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30

Piling for Integrated Basement and U/G Road in Zone 2B & 2C

Contract Dates

Access Dates of Site Portion

Activity ID	Access Description	Start	Duration	Finish	Total Float	Activity % Complete
ACD90	Access within 90 days after Commencement (20 Oct 2021)	20-Oct-21	0	20-Oct-21 A		100%
ACD60	Access within 60 days after Commencement (20 Sep 2021)	20-Sep-21	0	09-Nov-21 A		100%
ACD120	Access within 120 days after Commencement (19 Nov 2021)	19-Nov-21	0	20-Nov-21	3	0%
ACD150	Access within 150 days after Commencement (19 Dec 2021)	19-Dec-21	0	19-Dec-21	0	0%

60 days after Commencement

ACB36	Access to Site Portion B36	20-Sep-21	0	09-Nov-21 A		100%
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90 days after Commencement

ACB22	Access to Site Portion B22	20-Oct-21	0	20-Oct-21 A		100%
ACB23	Access to Site Portion B23	20-Oct-21	0	20-Oct-21 A		100%

120 days after Commencement

ACB02	Access to Site Portion B02	19-Nov-21	0	20-Nov-21	3	0%
ACB03	Access to Site Portion B03	19-Nov-21	0	20-Nov-21	3	0%
ACB08	Access to Site Portion B08	19-Nov-21	0	20-Nov-21	3	0%
ACB09	Access to Site Portion B09	19-Nov-21	0	20-Nov-21	3	0%
ACB10	Access to Site Portion B10	19-Nov-21	0	20-Nov-21	3	0%
ACB17	Access to Site Portion B17	19-Nov-21	0	20-Nov-21	3	0%
ACB33	Access to Site Portion B33	19-Nov-21	0	20-Nov-21	3	0%
ACB37	Access to Site Portion B37	19-Nov-21	0	20-Nov-21	3	0%

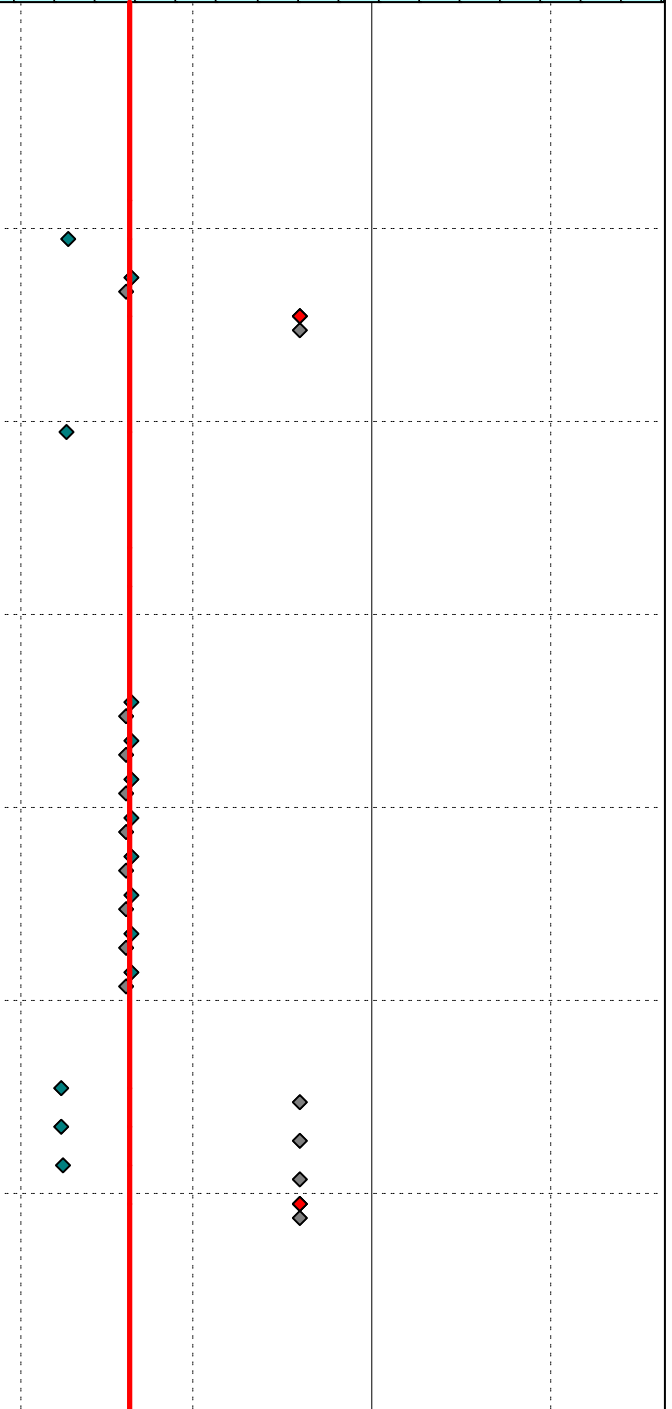
150 days after Commencement

ACB24	Access to Site Portion B24	19-Dec-21	0	08-Nov-21 A		100%
ACB26	Access to Site Portion B26	19-Dec-21	0	08-Nov-21 A		100%
ACB25	Access to Site Portion B25	19-Dec-21	0	08-Nov-21 A		100%
ACB34	Access to Site Portion B34	19-Dec-21	0	19-Dec-21	0	0%

Mobilization Stage

Site Mobilization Works

Pre-Construction Works before Piling Commencement



	Planned Bar		Critical MS
	Critical Bar		Summary
	Milestone		BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 19 Nov 2021
Based on CMWP 3rd Draft

	Date	Revision	Checked	Approved
	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
	08-Nov-21	3rd Draft	KL	

Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November				December				January				February	
									7	24	31	07	14	21	28	05	12	19	26	02	09	16
MOBP.10.1180	Installation of Monitoring Check Points (Stage 1) [35 nos.]	27-Sep-21	16-Oct-21	25	27-Sep-21 A	22-Oct-21 A		100%														
MOBP.10.1240	Erection of Hoardings (Stage 1)	02-Oct-21	23-Oct-21	35	27-Sep-21 A	01-Nov-21 A		100%														
MOBP.10.1200	Installation of Monitoring Check Points (Stage 2)	20-Nov-21	08-Dec-21	19	20-Nov-21	08-Dec-21	121	0%														
MOBP.10.1220	Installation of Monitoring Check Points (Extensometer)	11-Oct-21	13-Nov-21	34	20-Nov-21	23-Dec-21	106	0%														
MOBP.10.1260	Erection of Hoardings (Stage 2)	20-Dec-21	31-Jan-22	43	20-Dec-21	31-Jan-22	127	0%														

Construction Stage

Pile Construction

Predrilling

PD.1160	Predrilling for BP KD09	30-Sep-21	30-Mar-22	148	30-Sep-21 A	29-Mar-22	165	26%
PD.1080	Predrilling for BP KD05	30-Sep-21	30-Mar-22	148	30-Sep-21 A	30-Mar-22	37	35%
PD.1100	Predrilling for BP KD06	30-Sep-21	23-May-22	188	30-Sep-21 A	24-May-22	125	24%
PD.1120	Predrilling for BP KD07	30-Sep-21	23-May-22	188	30-Sep-21 A	24-May-22	117	24%
PD.1140	Predrilling for BP KD08	30-Sep-21	30-Mar-22	148	30-Sep-21 A	31-Mar-22	149	22%
PD.1060	Predrilling for BP KD04	30-Sep-21	30-Mar-22	148	30-Sep-21 A	07-Apr-22	108	35%
PD.1000	Predrilling for BP KD01	30-Sep-21	30-Mar-22	101	12-Nov-21 A	30-Mar-22	36	0%
PD.1040	Predrilling for BP KD03	20-Oct-21	06-May-22	140	20-Nov-21	16-May-22	86	0%
PD.1170	Predrilling for SSHP	30-Sep-21	26-Nov-21	18	20-Nov-21	24-Dec-21	72	0%
PD.1020	Predrilling for BP KD02	20-Dec-21	26-Jan-22	30	20-Dec-21	26-Jan-22	7	0%

KD01 (Stage 1-1)

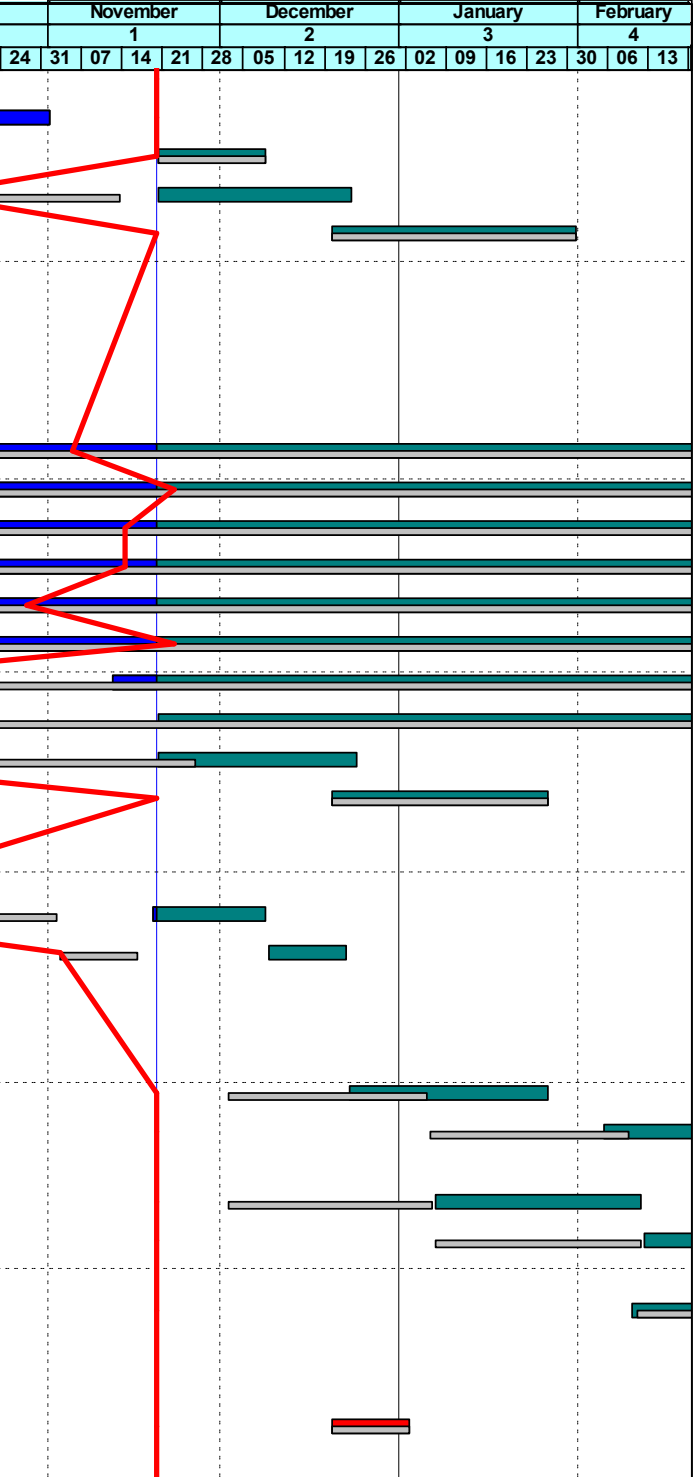
KD01.BP.0000	G.I. / Predrilling Works for 1st Bored Pile	30-Sep-21	02-Nov-21	5	19-Nov-21 A	08-Dec-21	1	0%
KD01.BP.0020	Review and Confirmation of Rockhead and Founding Level of Pile by CA	03-Nov-21	16-Nov-21	14	09-Dec-21	22-Dec-21	1	0%

Bored Piles

CBA-BP01	Bored Piling	02-Dec-21	05-Jan-22	27	23-Dec-21	26-Jan-22	1	0%
CBA-BP02	Bored Piling	06-Jan-22	09-Feb-22	27	05-Feb-22	08-Mar-22	1	0%
P17-BP03	Bored Piling	02-Dec-21	06-Jan-22	28	07-Jan-22	11-Feb-22	20	0%
P17-BP08	Bored Piling	07-Jan-22	11-Feb-22	28	12-Feb-22	16-Mar-22	20	0%
CBA-BPC38K	Bored Piling	11-Feb-22	07-Mar-22	21	10-Feb-22	05-Mar-22	1	0%

KD02 (Stage 5-1)

KD02.BP.0040	Review and Confirmation of Rockhead and Founding Level of Pile by CA	20-Dec-21	02-Jan-22	14	20-Dec-21	02-Jan-22	0	0%
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■ Planned Bar ◆ Critical MS
■ Critical Bar ▶ Summary
◆ Milestone ■ BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 19 Nov 2021
Based on CMWP 3rd Draft

Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
08-Nov-21	3rd Draft	KL	

Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November				December				January				February			
									1				2				3				4			
									7	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30

KD02.BP.0020	G.I. / Predrilling Works for 1st Bored Pile	20-Dec-21	14-Jan-22	20	20-Dec-21	14-Jan-22	0	0%
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Bored Piles									
P18-BP54	Bored Piling	24-Dec-21	07-Feb-22	33	24-Dec-21	07-Feb-22	0	0%	
P18-BP60	Bored Piling	24-Dec-21	07-Feb-22	33	24-Dec-21	07-Feb-22	0	0%	
P18-BP64	Bored Piling	24-Dec-21	07-Feb-22	33	24-Dec-21	07-Feb-22	0	0%	
P18-BP15	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP16	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP23	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP29	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP35	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP36	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP42	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP48	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	
P18-BP22	Bored Piling	03-Jan-22	07-Feb-22	28	03-Jan-22	07-Feb-22	0	0%	

KD03 (Stage 3-1)

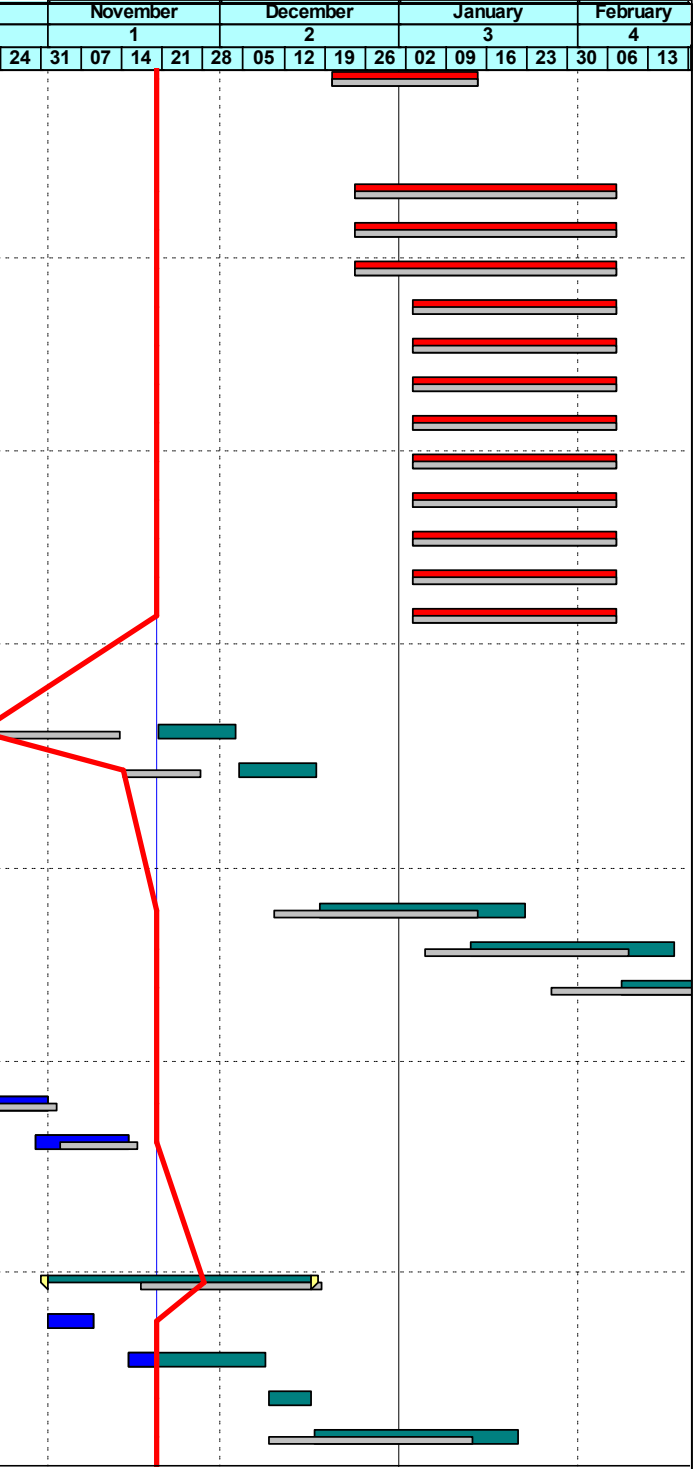
KD03.BP.0020	G.I. / Predrilling Works for 1st Bored Pile	20-Oct-21	13-Nov-21	12	20-Nov-21	03-Dec-21	13	0%
KD03.BP.0040	Review and Confirmation of Rockhead and Founding Level of Pile by CA	14-Nov-21	27-Nov-21	14	04-Dec-21	17-Dec-21	15	0%

Bored Piles									
P28&P29-BP01	Bored Piling	10-Dec-21	14-Jan-22	28	18-Dec-21	22-Jan-22	24	0%	
P28&P29-BP06	Bored Piling	05-Jan-22	09-Feb-22	28	13-Jan-22	17-Feb-22	24	0%	
P28&P29-BP09	Bored Piling	27-Jan-22	09-Mar-22	33	08-Feb-22	17-Mar-22	24	0%	

KD04 (Stage 4-1)

KD04.BP.0020	G.I. / Predrilling Works for 1st Bored Pile	30-Sep-21	02-Nov-21	25	30-Sep-21 A	01-Nov-21 A		0%
KD04.BP.0040	Review and Confirmation of Rockhead and Founding Level of Pile by CA	03-Nov-21	16-Nov-21	16	30-Oct-21 A	15-Nov-21 A		0%

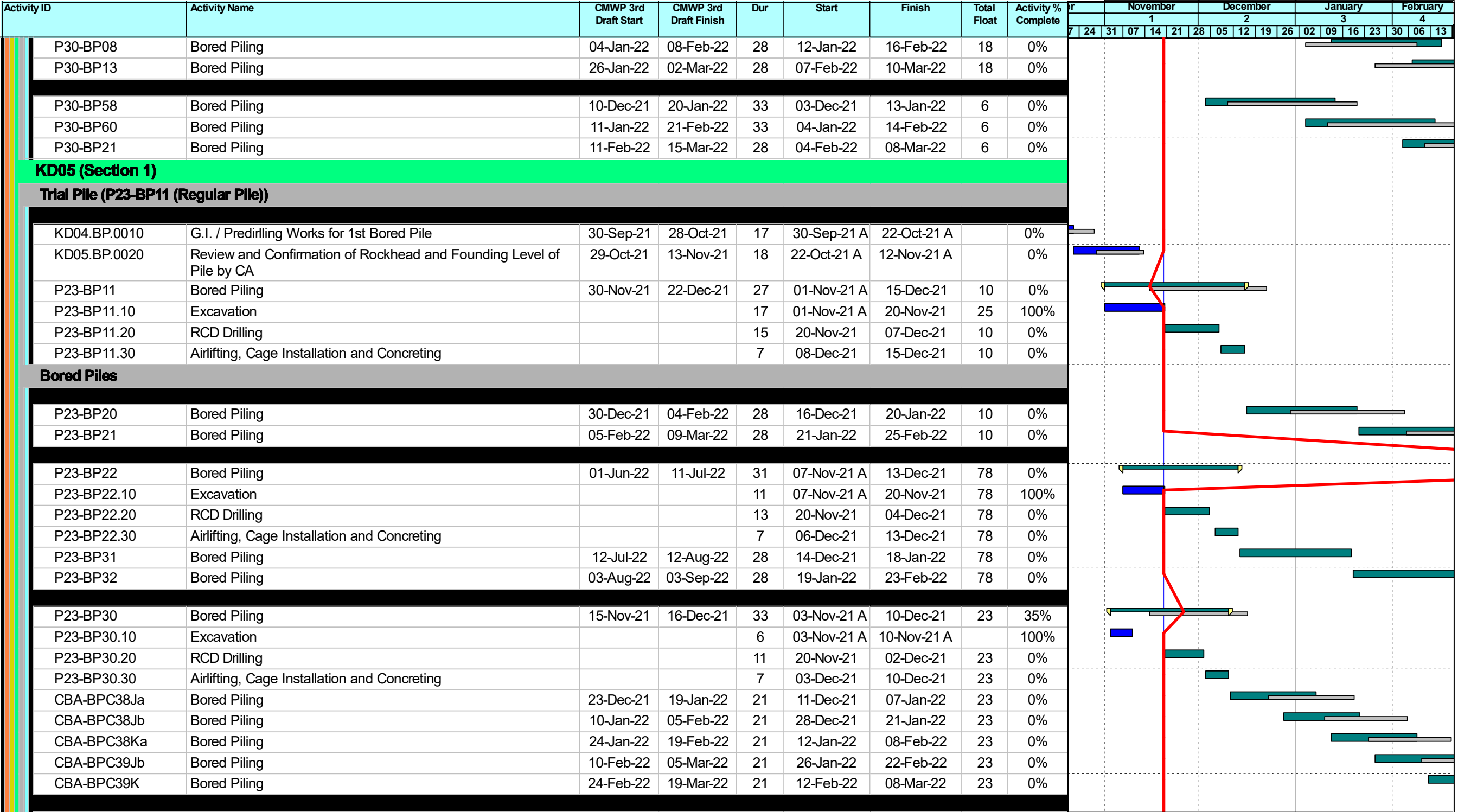
Bored Piles									
P30-BP01	Bored Piling	17-Nov-21	18-Dec-21	40	01-Nov-21 A	16-Dec-21	18	35%	
P30-BP01.10	Excavation			7	01-Nov-21 A	09-Nov-21 A		100%	
P30-BP01.20	RCD Drilling			21	15-Nov-21 A	08-Dec-21	18	0%	
P30-BP01.30	Airlifting, Cage Installation and Concreting			7	09-Dec-21	16-Dec-21	18	0%	
P30-BP07	Bored Piling	09-Dec-21	13-Jan-22	28	17-Dec-21	21-Jan-22	18	0%	



Planned Bar	Critical MS
Critical Bar	Summary
Milestone	BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 19 Nov 2021
Based on CMWP 3rd Draft

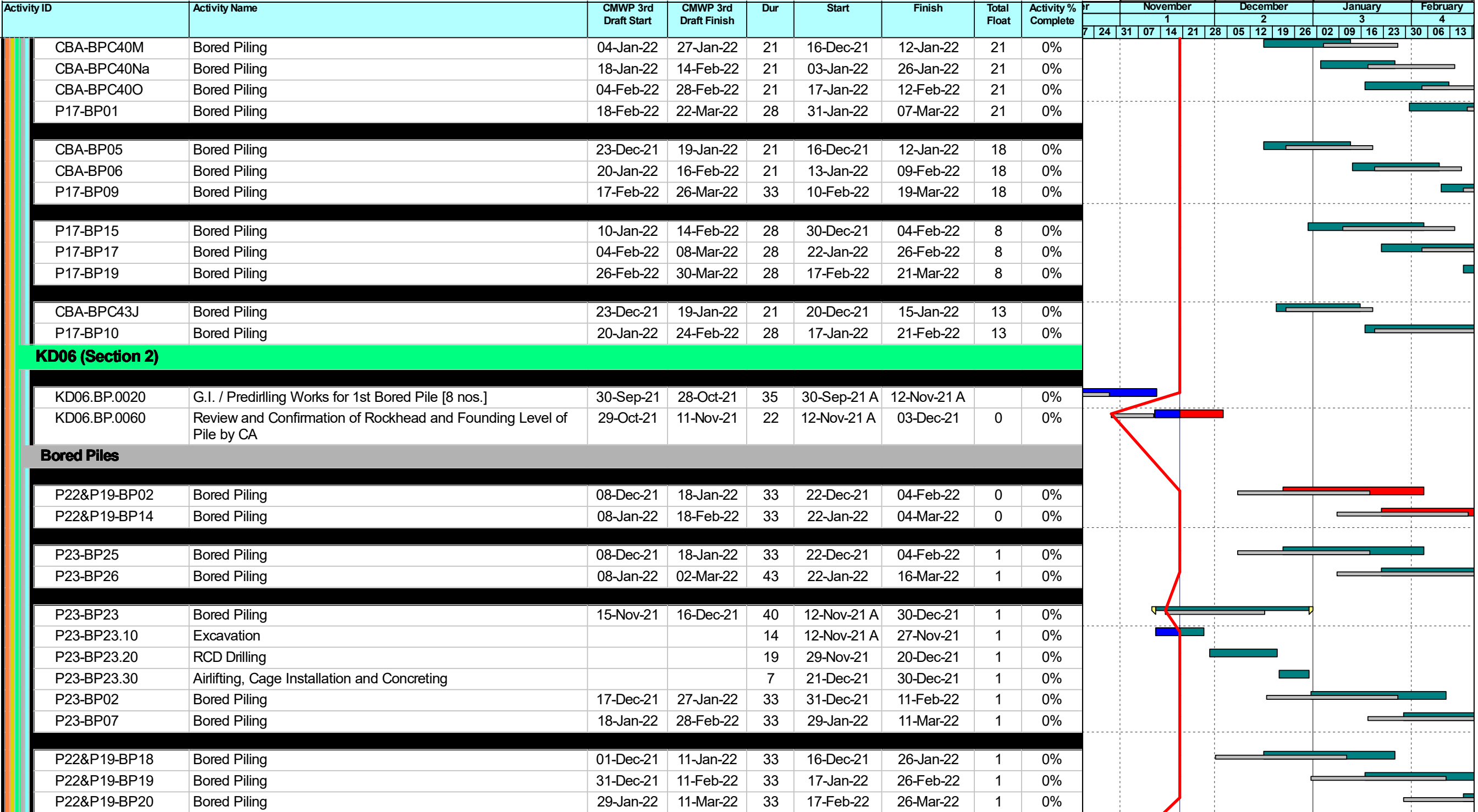
	Date	Revision	Checked	Approved
	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
	08-Nov-21	3rd Draft	KL	



- █ Planned Bar
- █ Critical Bar
- ◆ Milestone
- ◆ Critical MS
- ⇌ Summary
- ▬ BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
08-Nov-21	3rd Draft	KL	



	Planned Bar		Critical MS
	Critical Bar		Summary
	Milestone		BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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	29-Sep-21	2nd Draft	KL	N
	08-Nov-21	3rd Draft	KL	

Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November							December				January			February		
									1							2				3			4		
									7	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	06

KD07 (Section 3)

Trial Pile (P30-BP76)

KD07.BP.0000	G.I. / Predrilling Works for 1st Bored Pile (with E1) [9 nos.]	22-Oct-21	13-Nov-21	21	19-Nov-21 A	13-Dec-21	3	0%
KD07.BP.0020	Review and Confirmation of Rockhead and Founding Level of Pile by CA	14-Nov-21	27-Nov-21	14	14-Dec-21	27-Dec-21	3	0%
P30-BP76	Bored Piling (Trial Pile for Schedule 1)	04-Dec-21	17-Feb-22	59	28-Dec-21	10-Mar-22	3	0%

Trial Pile (P24&P27-BP34)

KD07.BP.0040	G.I. / Predrilling Works for 1st Bored Pile (with E2) [6 nos.]	30-Sep-21	22-Oct-21	28	30-Sep-21 A	05-Nov-21 A		0%
KD07.BP.0060	Review and Confirmation of Rockhead and Founding Level of Pile by CA	23-Oct-21	05-Nov-21	29	05-Nov-21 A	03-Dec-21	82	0%
P24&P27-BP34	Bored Piling (Trial Pile for Schedule 2)	20-Dec-21	29-Jan-22	33	20-Dec-21	29-Jan-22	51	0%

KD08 (Section 4)

Trial Pile (P30-BP15)

KD08.BP.60	G.I. / Predrilling Works for 1st Bored Pile (with E3) [9 nos.]	30-Sep-21	29-Oct-21	30	30-Sep-21 A	08-Nov-21 A		0%
KD08.BP.70	Review and Confirmation of Rockhead and Founding Level of Pile by CA	30-Oct-21	12-Nov-21	14	20-Nov-21	03-Dec-21	16	0%
P30-BP15	Bored Piling (Trial Pile for Schedule 3)	09-Dec-21	13-Jan-22	28	14-Dec-21	18-Jan-22	5	0%

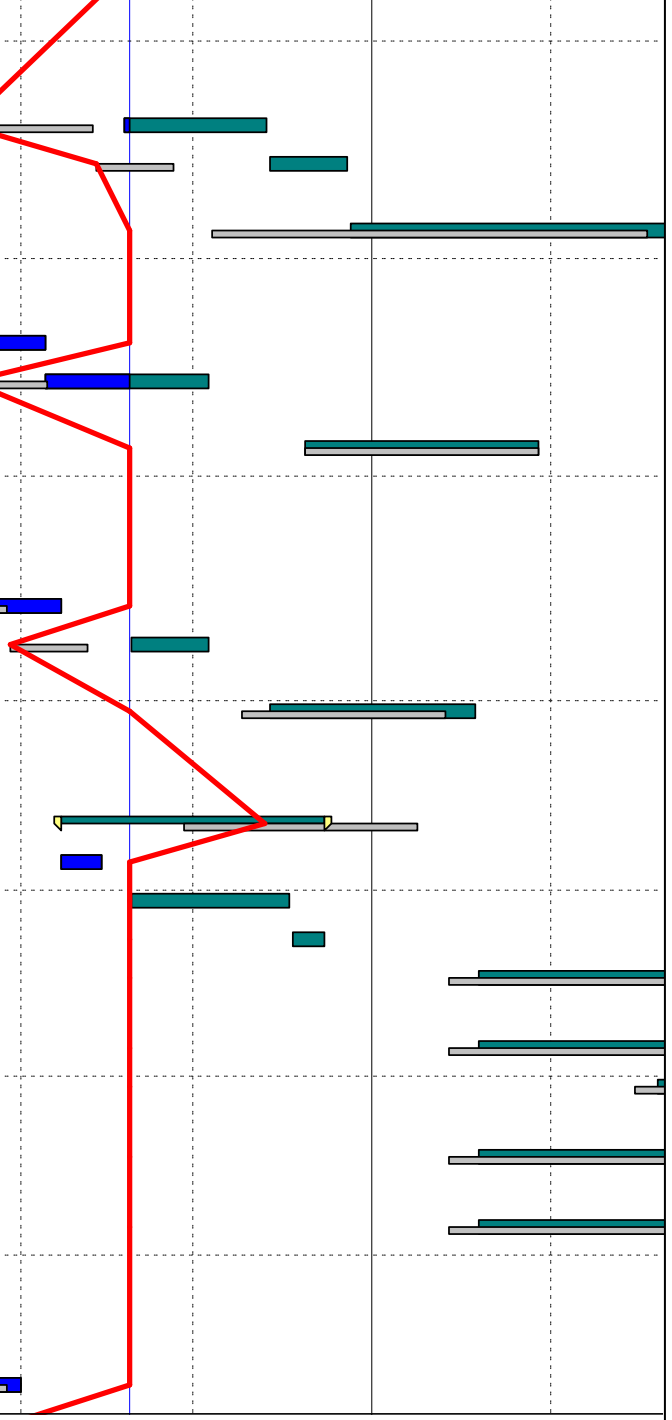
Bored Piles

P30-BP05	Bored Piling	29-Nov-21	08-Jan-22	40	08-Nov-21 A	23-Dec-21	59	35%
P30-BP05.10	Excavation			6	08-Nov-21 A	15-Nov-21 A		100%
P30-BP05.20	RCD Drilling			24	20-Nov-21	17-Dec-21	59	0%
P30-BP05.30	Airlifting, Cage Installation and Concreting			5	18-Dec-21	23-Dec-21	59	0%
P26-BP15	Bored Piling	14-Jan-22	08-Mar-22	43	19-Jan-22	12-Mar-22	40	0%
P30-BP11	Bored Piling	14-Jan-22	24-Feb-22	33	19-Jan-22	01-Mar-22	10	0%
P30-BP12	Bored Piling	15-Feb-22	24-Mar-22	33	19-Feb-22	29-Mar-22	10	0%
P30-BP19	Bored Piling	14-Jan-22	08-Mar-22	43	19-Jan-22	12-Mar-22	5	0%
P30-BP45	Bored Piling	14-Jan-22	08-Mar-22	43	19-Jan-22	12-Mar-22	27	0%

KD09 (Section 5)

Trial Piles (P23-BP68)

KD08.BP.80	G.I. / Predrilling Works for 1st Bored Pile (with E4) [8 nos.]	15-Sep-21	29-Oct-21	37	15-Sep-21 A	01-Nov-21 A		0%
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■ Planned Bar ◆ Critical MS
■ Critical Bar ▬ Summary
◆ Milestone ▬ BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 19 Nov 2021
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29-Sep-21	2nd Draft	KL	N
08-Nov-21	3rd Draft	KL	







Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November							December				January			February				
									1							2				3			4				
									7	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13	
KD08.BP.90	Review and Confirmation of Rockhead and Founding Level of Pile by CA	30-Oct-21	12-Nov-21	19	01-Nov-21 A	20-Nov-21	9	0%																			
P23-BP68	Bored Piling (Trial Pile for Schedule 4)	29-Nov-21	20-Jan-22	43	29-Nov-21	20-Jan-22	0	0%																			
Bored Piles																											
P23-BP35	Bored Piling	21-Jan-22	03-Mar-22	33	21-Jan-22	03-Mar-22	33	0%																			
P23-BP59	Bored Piling	21-Jan-22	15-Mar-22	43	21-Jan-22	15-Mar-22	27	0%																			
P23-BP81	Bored Piling	19-Nov-21	11-Jan-22	35	12-Nov-21 A	22-Dec-21	37	0%																			
P23-BP81.10	Excavation			7	12-Nov-21 A	20-Nov-21	37	100%																			
P23-BP81.20	RCD Drilling			20	20-Nov-21	13-Dec-21	37	0%																			
P23-BP81.30	Airlifting, Cafge Installation and Concreting			8	14-Dec-21	22-Dec-21	37	0%																			
P23-BP100	Bored Piling	21-Jan-22	03-Mar-22	33	21-Jan-22	03-Mar-22	15	0%																			
P23-BP44	Bored Piling	18-Jan-22	28-Feb-22	41	01-Nov-21 A	17-Dec-21	61	35%																			
P23-BP44.10	Excavation			8	01-Nov-21 A	10-Nov-21 A		100%																			
P23-BP44.20	RCD Drilling			17	20-Nov-21	09-Dec-21	61	0%																			
P23-BP44.30	Airlifting, Cage Installation and Concreting			7	10-Dec-21	17-Dec-21	61	0%																			
CBA-BPC52U	Bored Piling	01-Mar-22	24-Mar-22	21	21-Jan-22	17-Feb-22	35	0%																			
CBA-BPC52V	Bored Piling	15-Mar-22	08-Apr-22	21	08-Feb-22	03-Mar-22	35	0%																			
P23-BP60	Bored Piling	11-Feb-22	01-Apr-22	43	05-Feb-22	26-Mar-22	5	0%																			
P23-BP82	Bored Piling	09-Feb-22	30-Mar-22	43	09-Feb-22	30-Mar-22	0	0%																			
P23-BP104	Bored Piling	21-Jan-22	03-Mar-22	33	21-Jan-22	03-Mar-22	4	0%																			
CBA-BPC40U	Bored Piling	07-Feb-22	09-Mar-22	27	08-Feb-22	10-Mar-22	3	0%																			
P18-BP41	Bored Piling	24-Jan-22	28-Feb-22	28	24-Jan-22	28-Feb-22	3	0%																			
Socketed Steel H- Piles																											
Trial Pile																											
KD09.SSHP.0000	Test Installation of Pile (SHP-C52Xa-P6)	03-Jan-22	12-Jan-22	9	03-Jan-22	12-Jan-22	68	0%																			
KD09.SSHP.0020	Submission and Approval of Installation Report by BD	13-Jan-22	19-Jan-22	7	13-Jan-22	19-Jan-22	84	0%																			
Socketed Steel H- Pile Construction																											
SHP-BW-52Y1b-P1	Socketed Steel H-Piling	20-Jan-22	28-Jan-22	8	20-Jan-22	28-Jan-22	68	0%																			

Planned Bar
 Critical Bar
 Milestone
 Critical MS
 Summary
 BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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Based on CMWP 3rd Draft

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	29-Sep-21	2nd Draft	KL	N
	08-Nov-21	3rd Draft	KL	

Activity ID	Activity Name	CMWP 3rd Draft Start	CMWP 3rd Draft Finish	Dur	Start	Finish	Total Float	Activity % Complete	November							December				January			February			
									1							2				3			4			
									7	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	06	13
SHP-BW-52Y1b-P2	Socketed Steel H-Piling	24-Jan-22	04-Feb-22	8	24-Jan-22	04-Feb-22	68	0%																		
SHP-C52W-P1	Socketed Steel H-Piling	27-Jan-22	08-Feb-22	8	27-Jan-22	08-Feb-22	68	0%																		
SHP-C52W-P2	Socketed Steel H-Piling	31-Jan-22	11-Feb-22	8	31-Jan-22	11-Feb-22	68	0%																		
SHP-C52W-P3	Socketed Steel H-Piling	07-Feb-22	15-Feb-22	8	07-Feb-22	15-Feb-22	68	0%																		
SHP-C52W-P4	Socketed Steel H-Piling	10-Feb-22	18-Feb-22	8	10-Feb-22	18-Feb-22	68	0%																		
SHP-C52W-P5	Socketed Steel H-Piling	14-Feb-22	22-Feb-22	8	14-Feb-22	22-Feb-22	68	0%																		
SHP-C52W-P6	Socketed Steel H-Piling	17-Feb-22	25-Feb-22	8	17-Feb-22	25-Feb-22	68	0%																		

 Planned Bar	 Critical MS
 Critical Bar	 Summary
 Milestone	 BL Summary

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 19 Nov 2021
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	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
	08-Nov-21	3rd Draft	KL	

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March			
									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

Piling for Integrated Basement and U/G Road in Zone 2B & 2C

Contract Dates

Key Dates

KD for Zone 2C

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete
KD02	KD02 (Stage 5-1) - 200 days after Commencement (7 Feb 2022)		06-Feb-22	0		18-Feb-22*	-11	0%

Access Dates of Site Portion

120 days after Commencement

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete
ACB02	Access to Site Portion B02	19-Nov-21		0	03-Dec-21 A			100%
ACB08	Access to Site Portion B08	19-Nov-21		0	02-Dec-21 A			100%
ACB09	Access to Site Portion B09	19-Nov-21		0	03-Dec-21 A			100%
ACB10	Access to Site Portion B10	19-Nov-21		0	01-Jan-22		39	0%
ACB37	Access to Site Portion B37	19-Nov-21		0	03-Dec-21 A			100%

150 days after Commencement

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete
ACB34	Access to Site Portion B34	19-Dec-21		0	01-Jan-22		82	0%

Mobilization Stage

Temporary Services and Site Facilities Installation Dates

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete
MOBP.04.1100	Water Meter Application (WSD)	23-Jul-21	30-Nov-21	162	23-Jul-21 A	01-Jan-22	107	100%
MOBP.04.1120	Electrical Meter Application (CLP Group)	23-Jul-21	30-Nov-21	162	23-Jul-21 A	01-Jan-22	107	100%

Major Construction Information and Drawings Requirement Dates

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete
MOBP.05.1100	Approval of Foundation Plan (1st Amendment)	20-Nov-21	17-Dec-21	45	23-Nov-21 A	07-Jan-22	142	77.23%

Statutory Procedures and Consents

EPD



Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March			
									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

MOBP.06.1100	Application and Approval of Construction Noise Permit	26-Jul-21	30-Nov-21	159	26-Jul-21 A	01-Jan-22	102	100%
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Major Resources Procurement for the Early Works

MOBP.07.1080	Steel Rebar Delivery (1st Batch), Testing of Rebar and Approval of Rebar	05-Oct-21	18-Nov-21	88	05-Oct-21 A	01-Jan-22	87	100%
MOBP.07.1120	Preparation and Submission of Structural Steel H-Pile for Socketed H-Piling Works	23-Jul-21	18-Oct-21	162	23-Jul-21 A	01-Jan-22	57	100%

Pre-construction Submission for Mobilization

General Submission

MOBP.08.1140	Approval of Site Management Plan	22-Aug-21	04-Oct-21	132	22-Aug-21 A	01-Jan-22	47	100%
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Method Statement of Site Works

MOBP.08.1660	Approval of Method Statement for Large Diameter Bored Pile Construction (MTR Protection Zone)	28-Jul-21	04-Oct-21	157	28-Jul-21 A	01-Jan-22	47	100%
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Site Mobilization Works

Pre-Construction Works before Piling Commencement

MOBP.10.1120	Site Clearance	23-Jul-21	30-Apr-22	303	23-Jul-21 A	21-May-22	117	50%
MOBP.10.1200	Installation of Monitoring Check Points (Stage 2) [33 nos.]	20-Nov-21	08-Dec-21	19	01-Jan-22	19-Jan-22	89	0%
MOBP.10.1220	Installation of Monitoring Check Points (Extensometer)	11-Oct-21	13-Nov-21	55	20-Nov-21 A	13-Jan-22	76	50%
MOBP.10.1260	Erection of Hoardings (Stage 2)	20-Dec-21	31-Jan-22	38	01-Jan-22	07-Feb-22	130	0%
MOBP.10.1300	Trial Pit for Drillholes & Removal of Existing Substructures / Ground Slab [503 nos]	19-Aug-21	30-Apr-22	255	19-Aug-21 A	30-Apr-22	137	65%

Construction Stage

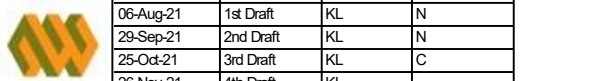
Pile Construction

Initial Mobilization

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 31 Dec 2021
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Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	



Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March			
									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

MO.1010	Initial Mobilization for Predrilling of BP (CCD / KD05 / KD01)	23-Jul-21	07-Sep-21	174	23-Jul-21 A	21-Feb-22	68	80%	
MO.1020	Initial Mobilization for Predrilling of BP (CCE / KD06)	23-Jul-21	07-Sep-21	174	23-Jul-21 A	21-Feb-22	202	50%	
MO.1030	Initial Mobilization for Predrilling of BP (CCF / KD07 / KD03)	23-Jul-21	07-Sep-21	174	23-Jul-21 A	21-Feb-22	152	85%	
MO.1040	Initial Mobilization for Predrilling of BP (CCG / KD08 / KD04)	23-Jul-21	07-Sep-21	134	23-Jul-21 A	03-Jan-22	192	90%	
MO.1050	Initial Mobilization for Predrilling of BP (CCH / KD09 / KD02)	23-Jul-21	07-Sep-21	144	23-Jul-21 A	13-Jan-22	18	60%	

Predrilling

PD.1000	Predrilling for BP in KD01 [8 nos.]	30-Sep-21	30-Mar-22	148	30-Sep-21 A	30-Mar-22	24	87%	
PD.1020	Predrilling for BP in KD02 [4 nos.]	19-Nov-21	23-Dec-21	36	30-Nov-21 A	13-Jan-22	18	75%	
PD.1040	Predrilling for BP in KD03 [5 nos.]	20-Oct-21	06-May-22	160	20-Oct-21 A	06-May-22	93	80%	
PD.1060	Predrilling for BP in KD04 [3 nos.] incl. 1 additional no.	30-Sep-21	30-Mar-22	143	30-Sep-21 A	31-Mar-22	113	66%	
PD.1080	Predrilling for BP in KD05 [76 nos.]	30-Sep-21	30-Mar-22	149	30-Sep-21 A	31-Mar-22	29	55%	
PD.1100	Predrilling for BP in KD06 [95 nos.] incl. 5 additional nos.	30-Sep-21	23-May-22	187	30-Sep-21 A	23-May-22	119	40%	
PD.1120	Predrilling for BP in KD07 [90 nos.] incl. 2 additional nos.	30-Sep-21	23-May-22	188	30-Sep-21 A	24-May-22	210	71%	
PD.1140	Predrilling for BP in KD08 [74 nos.] incl. 1 additional no.	30-Sep-21	30-Mar-22	148	30-Sep-21 A	31-Mar-22	142	95%	
PD.1160	Predrilling for BP in KD09 [149 nos.] incl. 4 additional nos.	30-Sep-21	30-Mar-22	149	30-Sep-21 A	30-Mar-22	157	48%	
PD.1170	Predrilling for SSHP [12 nos.]	30-Sep-21	22-Oct-21	37	01-Dec-21 A	31-Jan-22 A		100%	

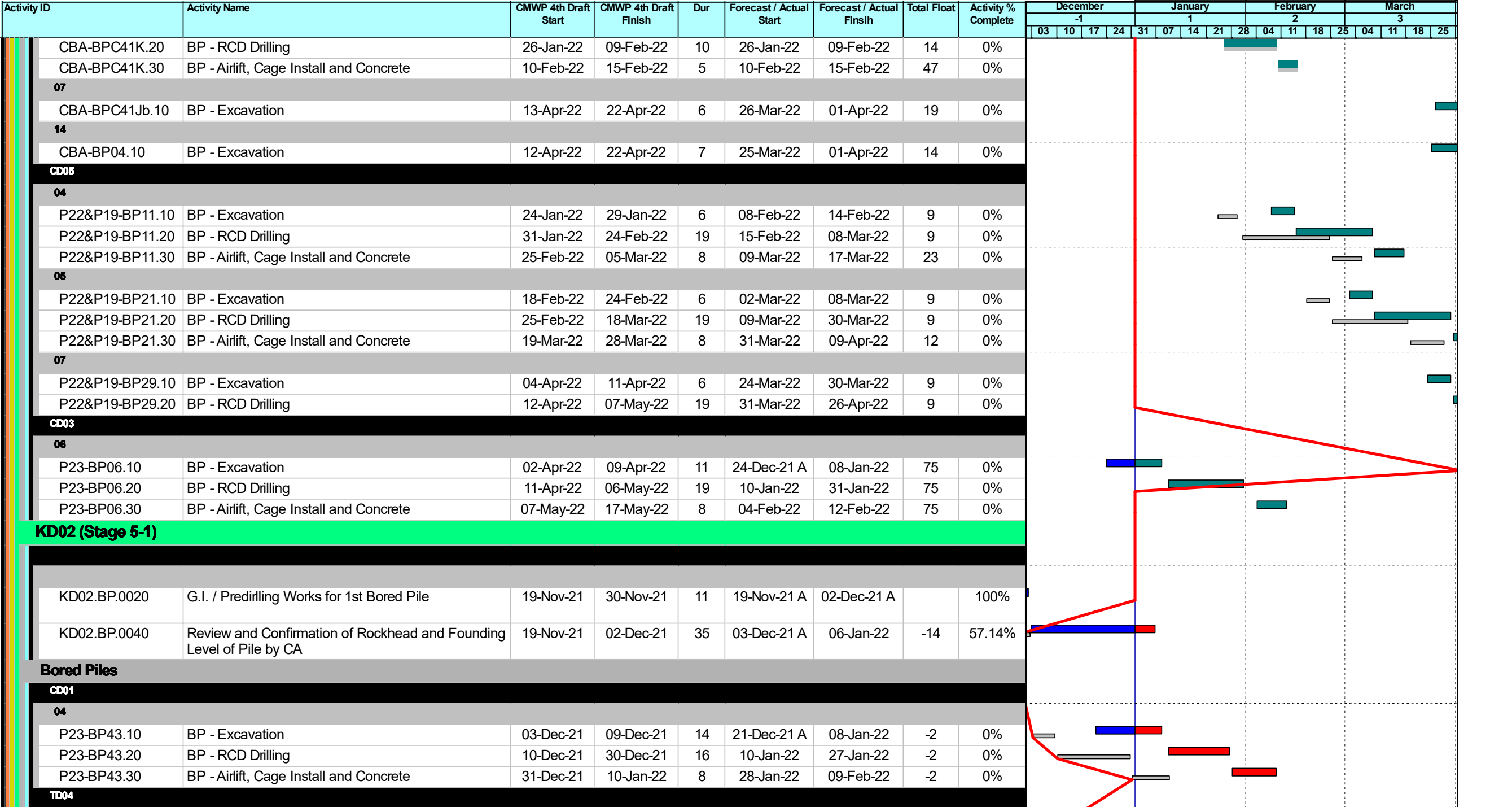
KD01 (Stage 1-1)

Bored Piles									
CD01									
02									
P23-BP22.20	BP - RCD Drilling	23-Dec-21	17-Jan-22	17	27-Nov-21 A	17-Dec-21 A		100%	
P23-BP22.30	BP - Airlift, Cage Install and Concrete	18-Jan-22	26-Jan-22	17	18-Dec-21 A	10-Jan-22	101	12.5%	
CD07									
01									
CBA-BPC41K.10	BP - Excavation	19-Jan-22	25-Jan-22	6	19-Jan-22	25-Jan-22	14	0%	

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 31 Dec 2021
Based on CMWP 4th Draft

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29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	



- █ Planned Bar
- █ Critical Bar
- Baseline
- ◆ Milestone
- ◆ Critical MS
- ◆ Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

01									
P23-BP76.10	BP - Excavation	03-Dec-21	09-Dec-21	11	24-Dec-21 A	08-Jan-22	-10	0%	
P23-BP76.20	BP - RCD Drilling	10-Dec-21	30-Dec-21	16	10-Jan-22	27-Jan-22	-10	0%	
P23-BP76.30	BP - Airlift, Cage Install and Concrete	31-Dec-21	10-Jan-22	8	28-Jan-22	09-Feb-22	-10	0%	

02									
P23-BP87.10	BP - Excavation	03-Dec-21	09-Dec-21	6	03-Jan-22	08-Jan-22	-10	0%	
P23-BP87.20	BP - RCD Drilling	10-Dec-21	10-Jan-22	24	10-Jan-22	09-Feb-22	-10	0%	
P23-BP87.30	BP - Airlift, Cage Install and Concrete	11-Jan-22	19-Jan-22	8	10-Feb-22	18-Feb-22	-10	0%	

03									
P23-BP117.10	BP - Excavation	03-Dec-21	09-Dec-21	6	03-Jan-22	08-Jan-22	-10	0%	
P23-BP117.20	BP - RCD Drilling	10-Dec-21	10-Jan-22	24	10-Jan-22	09-Feb-22	-10	0%	
P23-BP117.30	BP - Airlift, Cage Install and Concrete	20-Jan-22	28-Jan-22	8	10-Feb-22	18-Feb-22	-10	0%	

KD03 (Stage 3-1)

KD03.BP.0040	Review and Confirmation of Rockhead and Founding Level of Pile by CA	14-Nov-21	27-Nov-21	14	01-Jan-22	14-Jan-22	4	0%	
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Bored Piles

VD02									
03									
P28&29-BP08.10	BP - Excavation	18-Mar-22	24-Mar-22	6	18-Mar-22	24-Mar-22	37	0%	
P28&29-BP08.20	BP - RCD Drilling	25-Mar-22	12-Apr-22	15	25-Mar-22	12-Apr-22	37	0%	

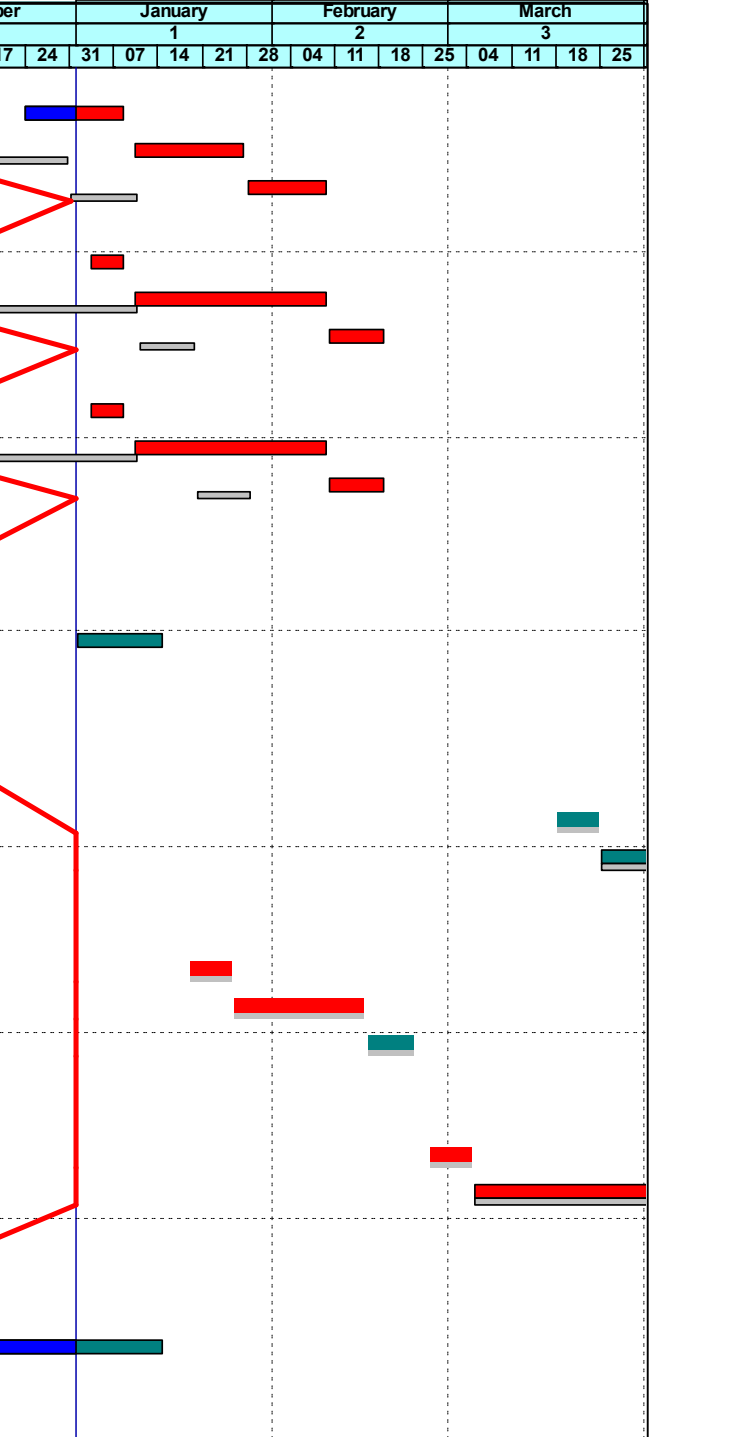
VD06									
01									
P28&29-BP29.10	BP - Excavation	19-Jan-22	25-Jan-22	6	19-Jan-22	25-Jan-22	0	0%	
P28&29-BP29.20	BP - RCD Drilling	26-Jan-22	15-Feb-22	15	26-Jan-22	15-Feb-22	0	0%	
P28&29-BP29.30	BP - Airlift, Cage Install and Concrete	16-Feb-22	23-Feb-22	7	16-Feb-22	23-Feb-22	80	0%	

VD09									
01									
CBA-BPC54Jb.10	BP - Excavation	26-Feb-22	04-Mar-22	6	26-Feb-22	04-Mar-22	0	0%	
CBA-BPC54Jb.20	BP - RCD Drilling	05-Mar-22	11-Apr-22	31	05-Mar-22	11-Apr-22	0	0%	

KD04 (Stage 4-1)

KD04.BP.0040	Review and Confirmation of Rockhead and Founding Level of Pile by CA	03-Nov-21	16-Nov-21	77	30-Oct-21 A	14-Jan-22	83	0%	
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KD05 (Section 1)



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

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									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

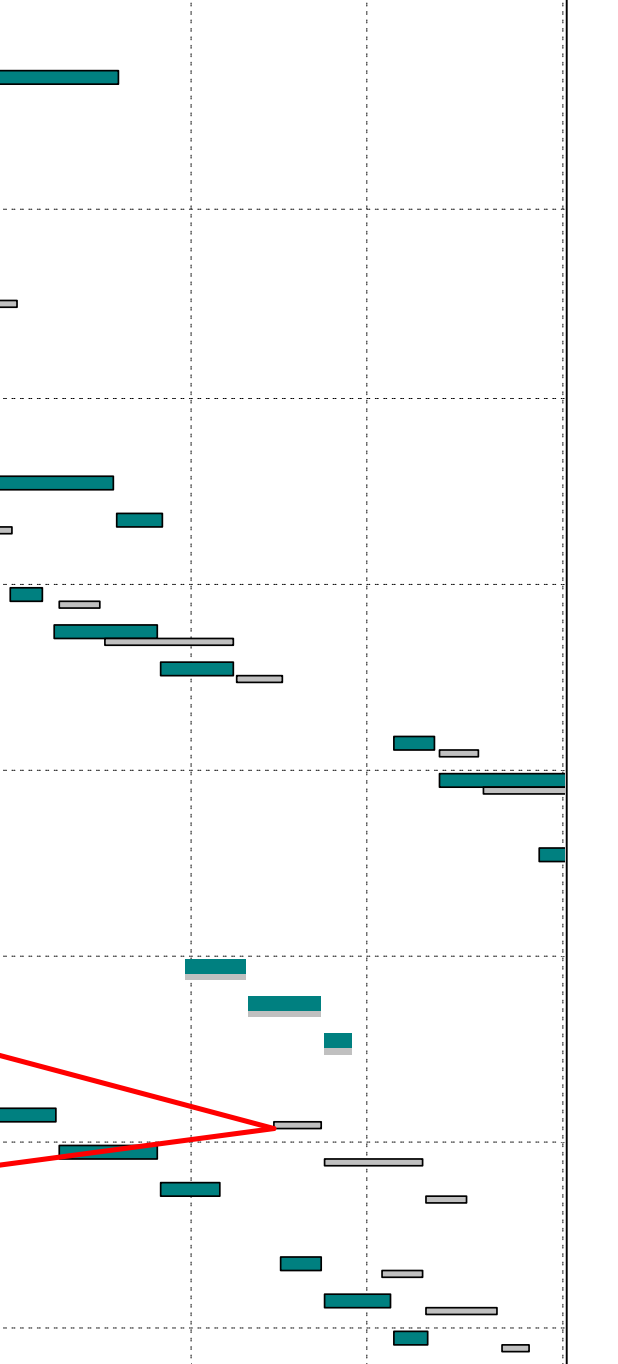
MO.1060	Initial Mobilization for BP (CCD / KD05 / KD01)	15-Sep-21	15-Nov-21	75	22-Oct-21 A	20-Jan-22	281	80%
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Trial Pile (P23-BP11 (Regular Pile))

CD03								
01								
P23-BP11.20	BP - RCD Drilling	01-Dec-21	22-Dec-21	11	25-Nov-21 A	08-Dec-21 A		100%
P23-BP11.30	BP - Airlift, Cage Install and Concrete	23-Dec-21	04-Jan-22	12	09-Dec-21 A	23-Dec-21 A		100%

Bored Piles

CD01								
01								
P23-BP30.10	BP - Excavation	29-Nov-21	04-Dec-21	33	03-Nov-21 A	11-Dec-21 A		100%
P23-BP30.20	BP - RCD Drilling	06-Dec-21	22-Dec-21	30	13-Dec-21 A	19-Jan-22	198	0%
P23-BP30.30	BP - Airlift, Cage Install and Concrete	23-Dec-21	03-Jan-22	7	20-Jan-22	27-Jan-22	198	0%
03								
P23-BP20.10	BP - Excavation	11-Jan-22	17-Jan-22	6	03-Jan-22	08-Jan-22	56	0%
P23-BP20.20	BP - RCD Drilling	18-Jan-22	07-Feb-22	15	10-Jan-22	26-Jan-22	56	0%
P23-BP20.30	BP - Airlift, Cage Install and Concrete	08-Feb-22	15-Feb-22	7	27-Jan-22	07-Feb-22	192	0%
07								
P23-BP19.10	BP - Excavation	12-Mar-22	18-Mar-22	6	05-Mar-22	11-Mar-22	55	0%
P23-BP19.20	BP - RCD Drilling	19-Mar-22	11-Apr-22	19	12-Mar-22	02-Apr-22	55	0%
08								
P23-BP32.10	BP - Excavation	04-Apr-22	11-Apr-22	6	28-Mar-22	02-Apr-22	55	0%
CD07								
02								
CBA-BPC43K.10	BP - Excavation	31-Jan-22	09-Feb-22	6	31-Jan-22	09-Feb-22	14	0%
CBA-BPC43K.20	BP - RCD Drilling	10-Feb-22	21-Feb-22	10	10-Feb-22	21-Feb-22	14	0%
CBA-BPC43K.30	BP - Airlift, Cage Install and Concrete	22-Feb-22	26-Feb-22	5	22-Feb-22	26-Feb-22	42	0%
03								
CBA-BPC44Jb.10	BP - Excavation	14-Feb-22	21-Feb-22	17	18-Dec-21 A	10-Jan-22	33	0%
CBA-BPC44Jb.20	BP - RCD Drilling	22-Feb-22	09-Mar-22	14	11-Jan-22	26-Jan-22	33	0%
CBA-BPC44Jb.30	BP - Airlift, Cage Install and Concrete	10-Mar-22	16-Mar-22	6	27-Jan-22	05-Feb-22	193	0%
04								
CBA-BPC40Ja.10	BP - Excavation	03-Mar-22	09-Mar-22	6	15-Feb-22	21-Feb-22	14	0%
CBA-BPC40Ja.20	BP - RCD Drilling	10-Mar-22	21-Mar-22	10	22-Feb-22	04-Mar-22	14	0%
CBA-BPC40Ja.30	BP - Airlift, Cage Install and Concrete	22-Mar-22	26-Mar-22	5	05-Mar-22	10-Mar-22	37	0%



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	25-Oct-21	3rd Draft	KL	C
	26-Nov-21	4th Draft	KL	

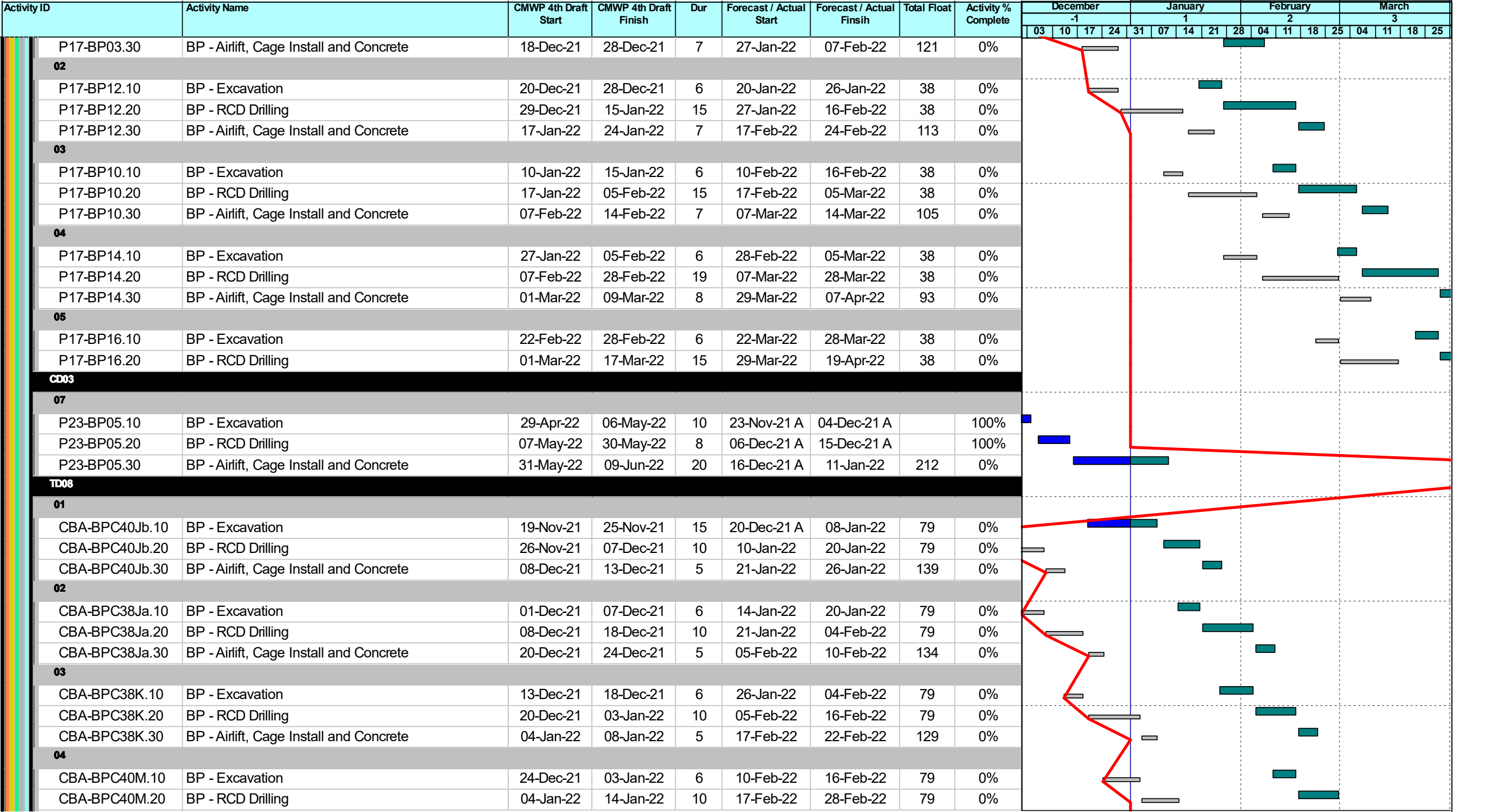
Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March				
									-1				1				2				3				
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25
05																									
CBA-BPC42K.10	BP - Excavation	15-Mar-22	21-Mar-22	6	26-Feb-22	04-Mar-22	14	0%																	
CBA-BPC42K.20	BP - RCD Drilling	22-Mar-22	01-Apr-22	10	05-Mar-22	16-Mar-22	14	0%																	
CBA-BPC42K.30	BP - Airlift, Cage Install and Concrete	02-Apr-22	08-Apr-22	5	17-Mar-22	22-Mar-22	32	0%																	
06																									
CBA-BPC44K.10	BP - Excavation	25-Mar-22	01-Apr-22	7	09-Mar-22	16-Mar-22	14	0%																	
CBA-BPC44K.20	BP - RCD Drilling	02-Apr-22	22-Apr-22	14	17-Mar-22	01-Apr-22	14	0%																	
13																									
CBA-BP01.10	BP - Excavation	25-Mar-22	01-Apr-22	7	09-Mar-22	16-Mar-22	14	0%																	
CBA-BP01.20	BP - RCD Drilling	02-Apr-22	22-Apr-22	14	17-Mar-22	01-Apr-22	14	0%																	
CD05																									
01																									
P22&P19-BP04.10	BP - Excavation	19-Nov-21	25-Nov-21	6	03-Jan-22	08-Jan-22	187	0%																	
P22&P19-BP04.20	BP - RCD Drilling	26-Nov-21	17-Dec-21	19	10-Jan-22	31-Jan-22	187	0%																	
P22&P19-BP04.30	BP - Airlift, Cage Install and Concrete	18-Dec-21	29-Dec-21	8	04-Feb-22	12-Feb-22	187	0%																	
02																									
P22&P19-BP05.10	BP - Excavation	11-Dec-21	17-Dec-21	7	09-Dec-21 A	17-Dec-21 A		100%																	
P22&P19-BP05.20	BP - RCD Drilling	18-Dec-21	12-Jan-22	29	18-Dec-21 A	24-Jan-22	9	0%																	
P22&P19-BP05.30	BP - Airlift, Cage Install and Concrete	13-Jan-22	21-Jan-22	8	25-Jan-22	05-Feb-22	42	0%																	
03																									
P17-BP05.10	BP - Excavation	06-Jan-22	12-Jan-22	6	18-Jan-22	24-Jan-22	9	0%																	
P17-BP05.20	BP - RCD Drilling	13-Jan-22	29-Jan-22	15	25-Jan-22	14-Feb-22	9	0%																	
P17-BP05.30	BP - Airlift, Cage Install and Concrete	31-Jan-22	10-Feb-22	7	15-Feb-22	22-Feb-22	35	0%																	
06																									
P22&P19-BP15.10	BP - Excavation	12-Mar-22	18-Mar-22	6	02-Mar-22	08-Mar-22	9	0%																	
P22&P19-BP15.20	BP - RCD Drilling	19-Mar-22	11-Apr-22	19	09-Mar-22	30-Mar-22	9	0%																	
11																									
P22&P19-BP26.10	BP - Excavation	06-Jan-22	12-Jan-22	6	18-Jan-22	24-Jan-22	88	0%																	
P22&P19-BP26.20	BP - RCD Drilling	13-Jan-22	18-Feb-22	29	25-Jan-22	02-Mar-22	88	0%																	
P22&P19-BP26.30	BP - Airlift, Cage Install and Concrete	19-Feb-22	28-Feb-22	8	03-Mar-22	11-Mar-22	132	0%																	
13																									
P22&P19-BP25.10	BP - Excavation	07-Mar-22	12-Mar-22	6	18-Mar-22	24-Mar-22	88	0%																	
P22&P19-BP25.20	BP - RCD Drilling	14-Mar-22	04-Apr-22	19	25-Mar-22	20-Apr-22	88	0%																	
CD04																									
01																									
P17-BP03.10	BP - Excavation	24-Nov-21	30-Nov-21	6	03-Jan-22	08-Jan-22	38	0%																	
P17-BP03.20	BP - RCD Drilling	01-Dec-21	17-Dec-21	15	10-Jan-22	26-Jan-22	38	0%																	

Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

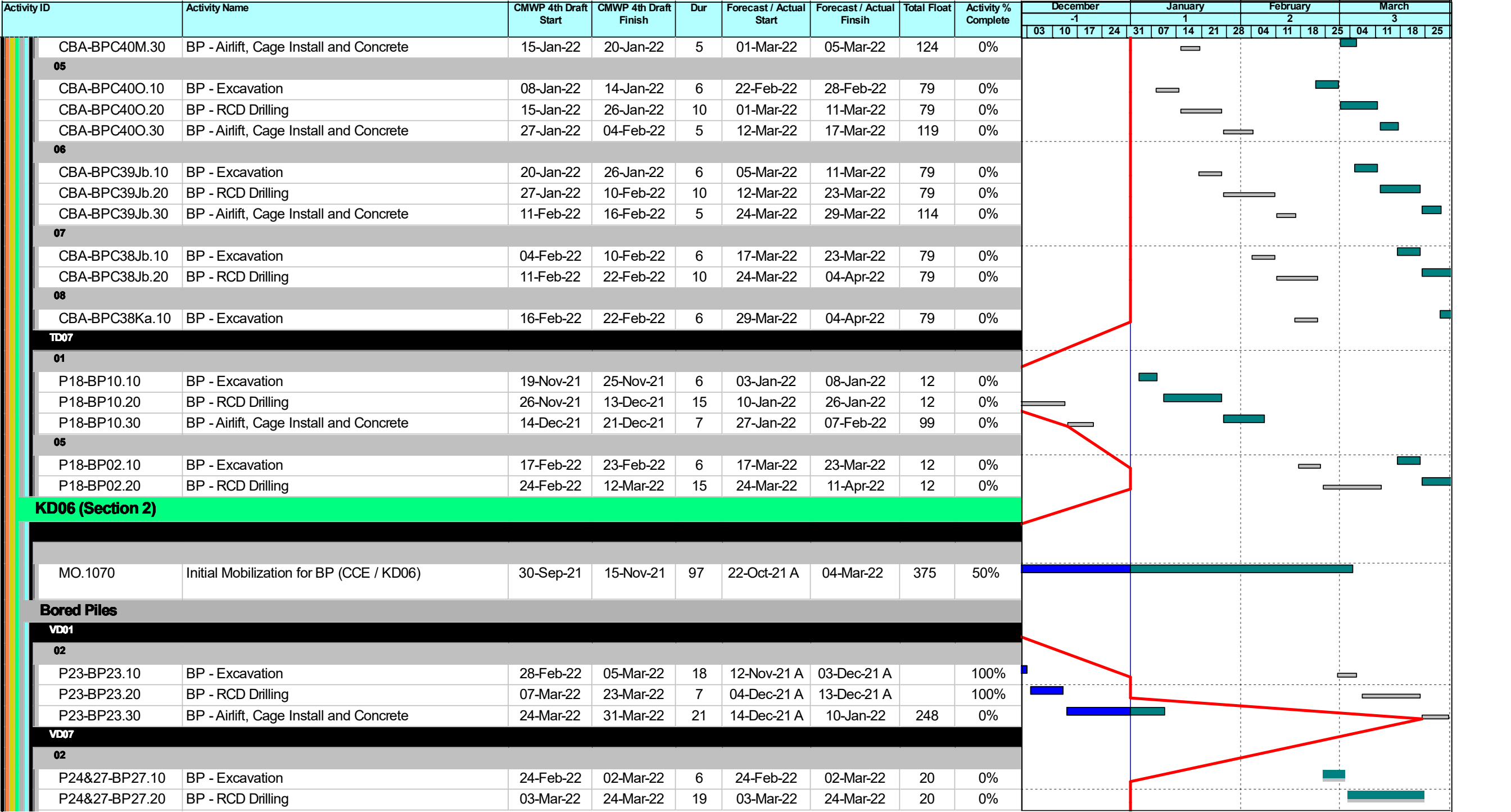


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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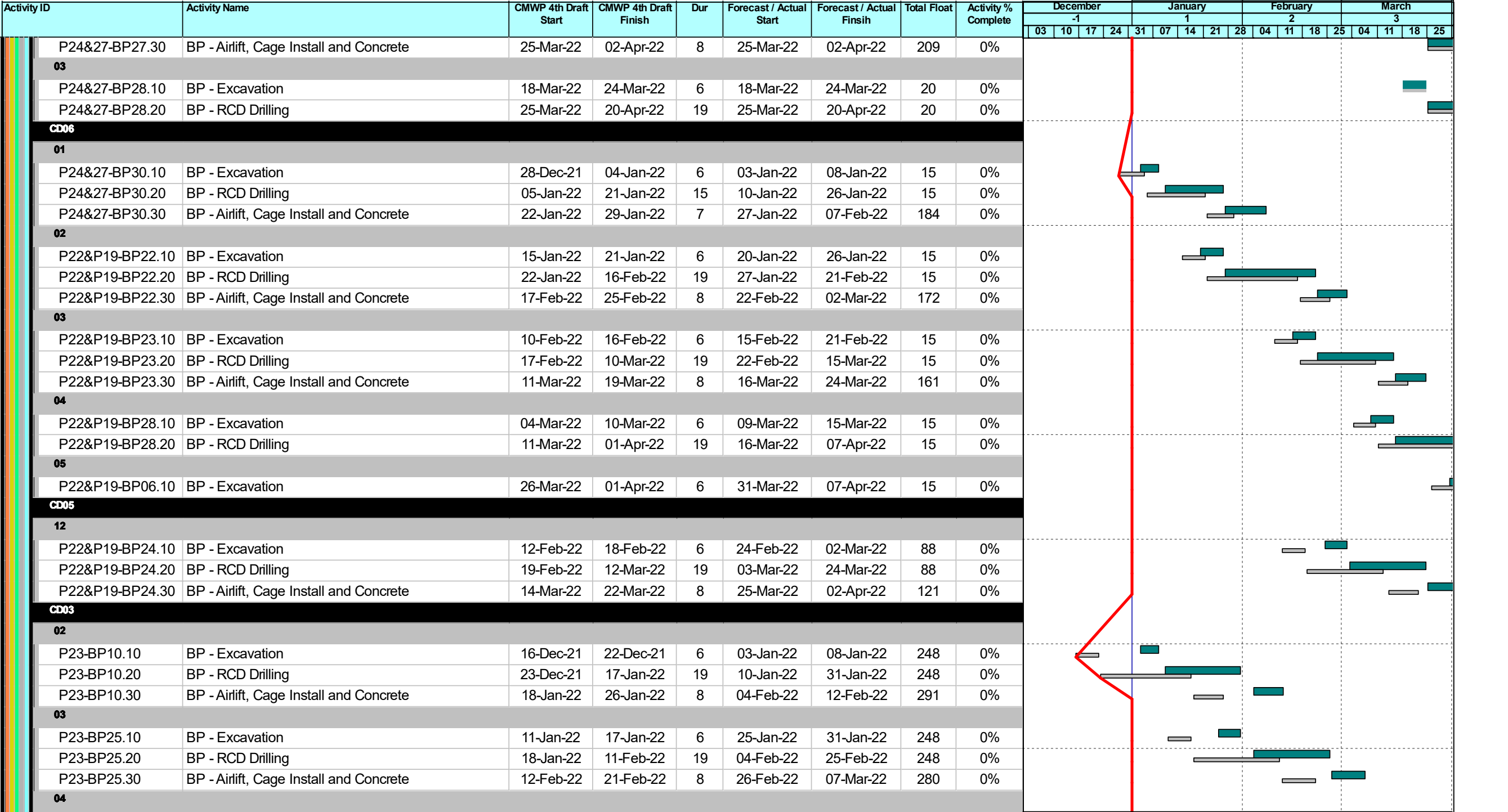


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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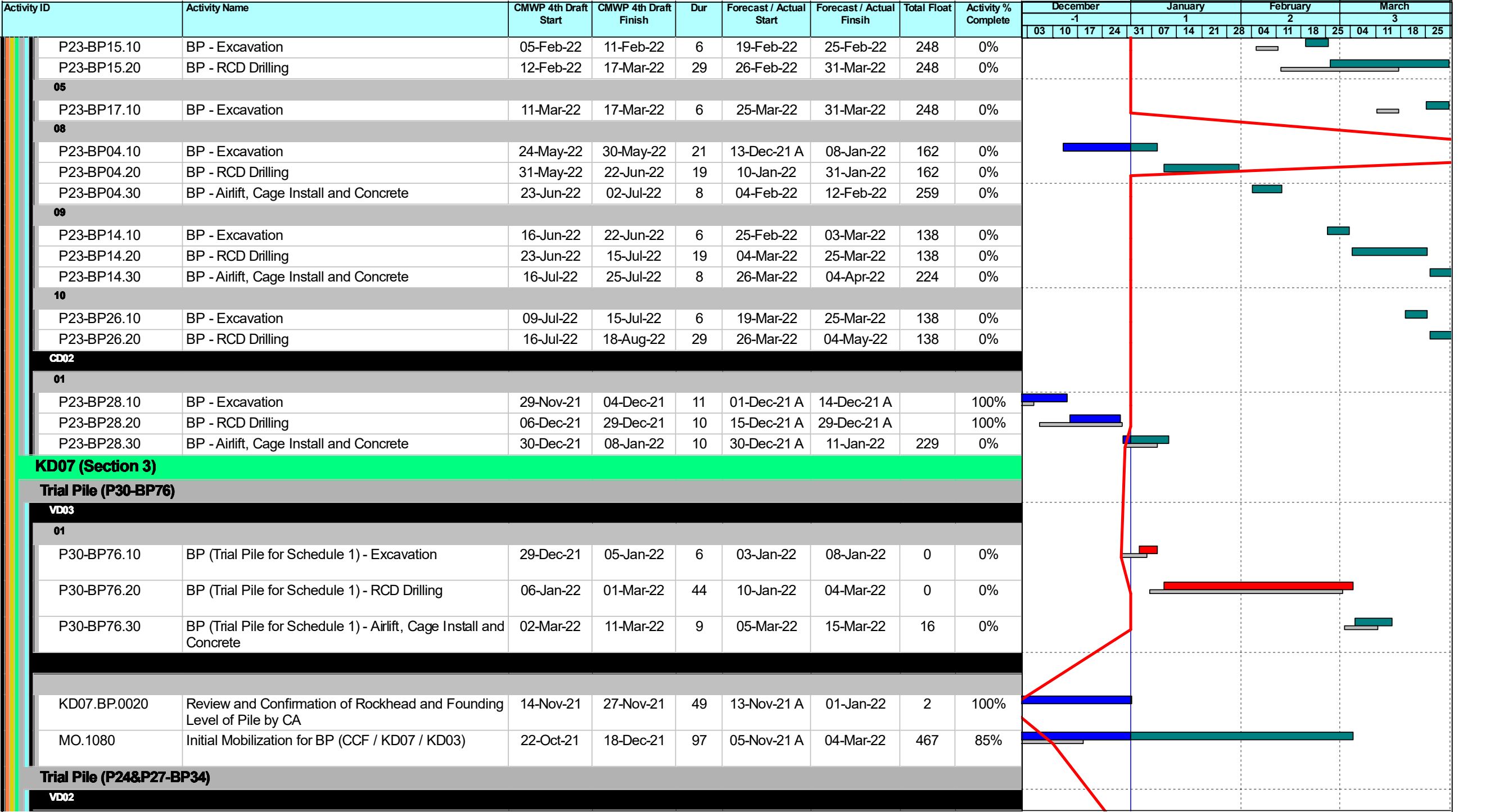


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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26-Nov-21	4th Draft	KL	



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	Critical Bar		Critical MS
	Baseline		Baseline MS

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									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

01									
P24&27-BP34.10	BP (Trial Pile for Schedule 2) - Excavation	18-Jan-22	24-Jan-22	6	18-Jan-22	24-Jan-22	13	0%	
P24&27-BP34.20	BP (Trial Pile for Schedule 2) - RCD Drilling	25-Jan-22	18-Feb-22	19	25-Jan-22	18-Feb-22	13	0%	
P24&27-BP34.30	BP (Trial Pile for Schedule 2) - Airlift, Cage Install and Concrete	19-Feb-22	28-Feb-22	8	19-Feb-22	28-Feb-22	13	0%	

KD07.BP.0060	Review and Confirmation of Rockhead and Founding Level of Pile by CA	23-Oct-21	05-Nov-21	49	13-Nov-21 A	01-Jan-22	2	100%	
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Bored Piles

VD01									
03									
P26-BP08.10	BP - Excavation	17-Mar-22	23-Mar-22	36	25-Nov-21 A	08-Jan-22	79	0%	
P26-BP08.20	BP - RCD Drilling	24-Mar-22	19-Apr-22	19	10-Jan-22	31-Jan-22	79	0%	
P26-BP08.30	BP - Airlift, Cage Install and Concrete	20-Apr-22	28-Apr-22	8	04-Feb-22	12-Feb-22	230	0%	

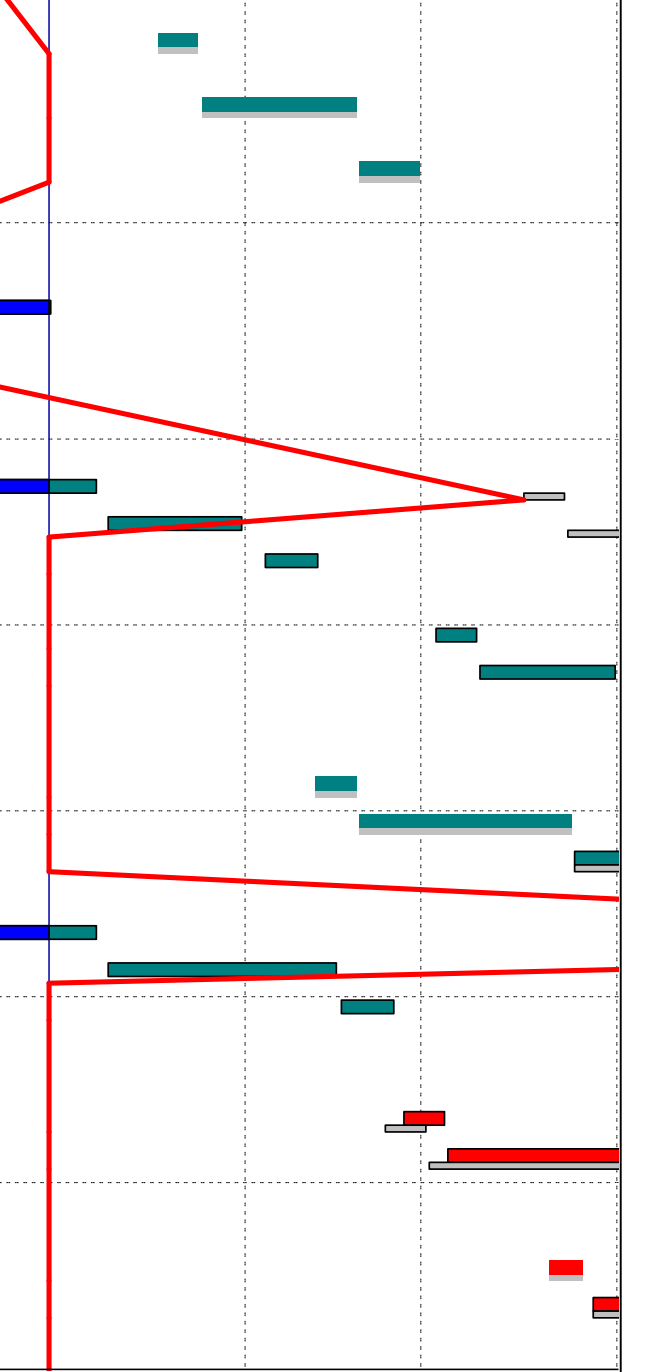
05									
P26-BP11.10	BP - Excavation	19-May-22	25-May-22	6	03-Mar-22	09-Mar-22	79	0%	
P26-BP11.20	BP - RCD Drilling	26-May-22	17-Jun-22	19	10-Mar-22	31-Mar-22	79	0%	

VD02									
02									
P24&27-BP08.10	BP - Excavation	12-Feb-22	18-Feb-22	6	12-Feb-22	18-Feb-22	37	0%	
P24&27-BP08.20	BP - RCD Drilling	19-Feb-22	24-Mar-22	29	19-Feb-22	24-Mar-22	37	0%	
P24&27-BP08.30	BP - Airlift, Cage Install and Concrete	25-Mar-22	02-Apr-22	8	25-Mar-22	02-Apr-22	110	0%	
08									
P24&27-BP02.10	BP - Excavation	02-Sep-22	08-Sep-22	17	17-Dec-21 A	08-Jan-22	338	0%	
P24&27-BP02.20	BP - RCD Drilling	09-Sep-22	15-Oct-22	29	10-Jan-22	15-Feb-22	338	0%	
P24&27-BP02.30	BP - Airlift, Cage Install and Concrete	17-Oct-22	25-Oct-22	8	16-Feb-22	24-Feb-22	375	0%	

VD03									
02									
P30-BP59.10	BP - Excavation	23-Feb-22	01-Mar-22	6	26-Feb-22	04-Mar-22	0	0%	
P30-BP59.20	BP - RCD Drilling	02-Mar-22	04-Apr-22	29	05-Mar-22	08-Apr-22	0	0%	

VD04									
04									
P30-BP66.10	BP - Excavation	21-Mar-22	26-Mar-22	6	21-Mar-22	26-Mar-22	0	0%	
P30-BP66.20	BP - RCD Drilling	28-Mar-22	14-Apr-22	15	28-Mar-22	14-Apr-22	0	0%	

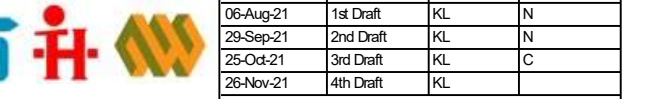
VD06



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

02									
P28&29-BP11.10	BP - Excavation	09-Feb-22	15-Feb-22	6	09-Feb-22	15-Feb-22	0	0%	
P28&29-BP11.20	BP - RCD Drilling	16-Feb-22	04-Mar-22	15	16-Feb-22	04-Mar-22	0	0%	
P28&29-BP11.30	BP - Airlift, Cage Install and Concrete	05-Mar-22	12-Mar-22	7	05-Mar-22	12-Mar-22	72	0%	

03									
P28&29-BP03.10	BP - Excavation	26-Feb-22	04-Mar-22	6	26-Feb-22	04-Mar-22	0	0%	
P28&29-BP03.20	BP - RCD Drilling	05-Mar-22	22-Mar-22	15	05-Mar-22	22-Mar-22	0	0%	
P28&29-BP03.30	BP - Airlift, Cage Install and Concrete	23-Mar-22	30-Mar-22	7	23-Mar-22	30-Mar-22	64	0%	

04									
P28&29-BP01.10	BP - Excavation	16-Mar-22	22-Mar-22	6	16-Mar-22	22-Mar-22	0	0%	
P28&29-BP01.20	BP - RCD Drilling	23-Mar-22	09-Apr-22	15	23-Mar-22	09-Apr-22	0	0%	

VD07									
01									
P24&27-BP25.10	BP - Excavation	18-Jan-22	24-Jan-22	6	18-Jan-22	24-Jan-22	20	0%	
P24&27-BP25.20	BP - RCD Drilling	25-Jan-22	02-Mar-22	29	25-Jan-22	02-Mar-22	20	0%	
P24&27-BP25.30	BP - Airlift, Cage Install and Concrete	03-Mar-22	11-Mar-22	8	03-Mar-22	11-Mar-22	220	0%	

KD08 (Section 4)

Trial Pile (P30-BP15)

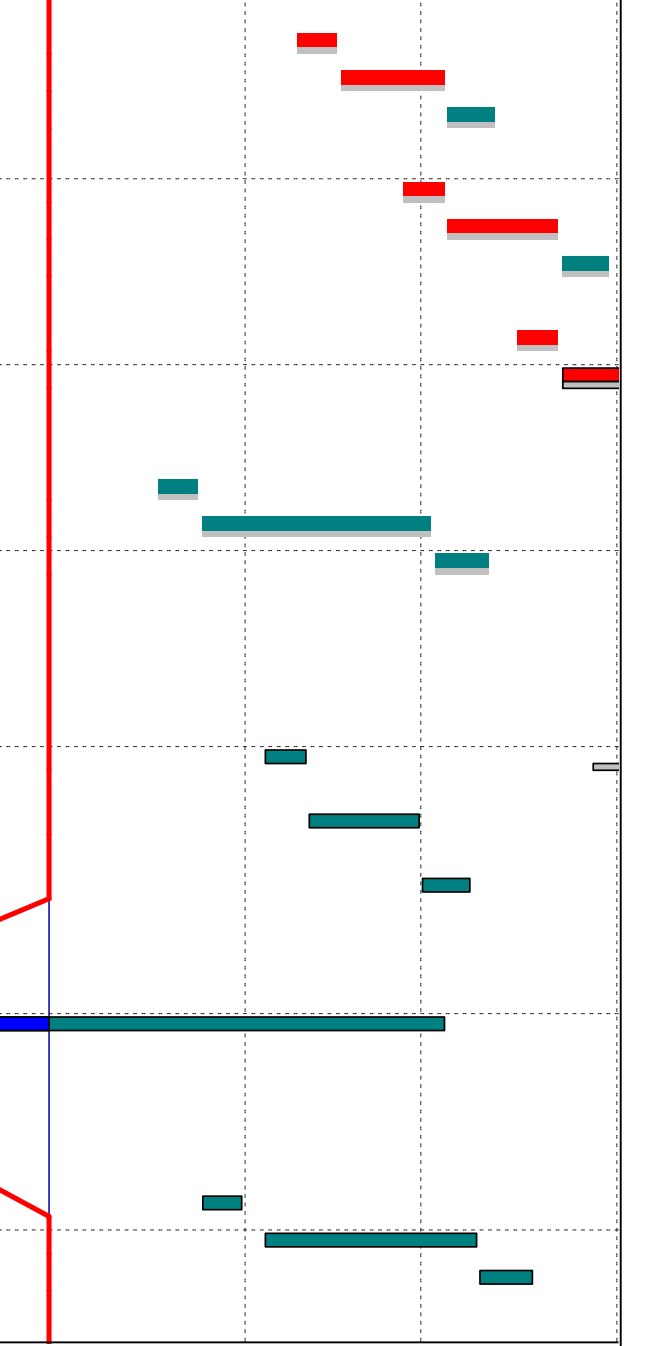
TD01									
04									
P30-BP15.10	BP (Trial Pile for Schedule 3) - Excavation	28-Mar-22	02-Apr-22	6	04-Feb-22	10-Feb-22	55	0%	
P30-BP15.20	BP (Trial Pile for Schedule 3) - RCD Drilling	04-Apr-22	25-Apr-22	15	11-Feb-22	28-Feb-22	55	0%	
P30-BP15.30	BP (Trial Pile for Schedule 3) - Airlift, Cage Install and Concrete	26-Apr-22	04-May-22	7	01-Mar-22	08-Mar-22	55	0%	

MO.1090	Initial Mobilization for BP (CCG / KD08 / KD04)	15-Sep-21	15-Nov-21	97	05-Nov-21 A	04-Mar-22	359	90%	
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Bored Piles

VD01									
04									
P26-BP12.10	BP - Excavation	09-Apr-22	19-Apr-22	6	25-Jan-22	31-Jan-22	79	0%	
P26-BP12.20	BP - RCD Drilling	20-Apr-22	25-May-22	29	04-Feb-22	09-Mar-22	79	0%	
P26-BP12.30	BP - Airlift, Cage Install and Concrete	26-May-22	04-Jun-22	8	10-Mar-22	18-Mar-22	209	0%	

VD04



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 31 Dec 2021
Based on CMWP 4th Draft

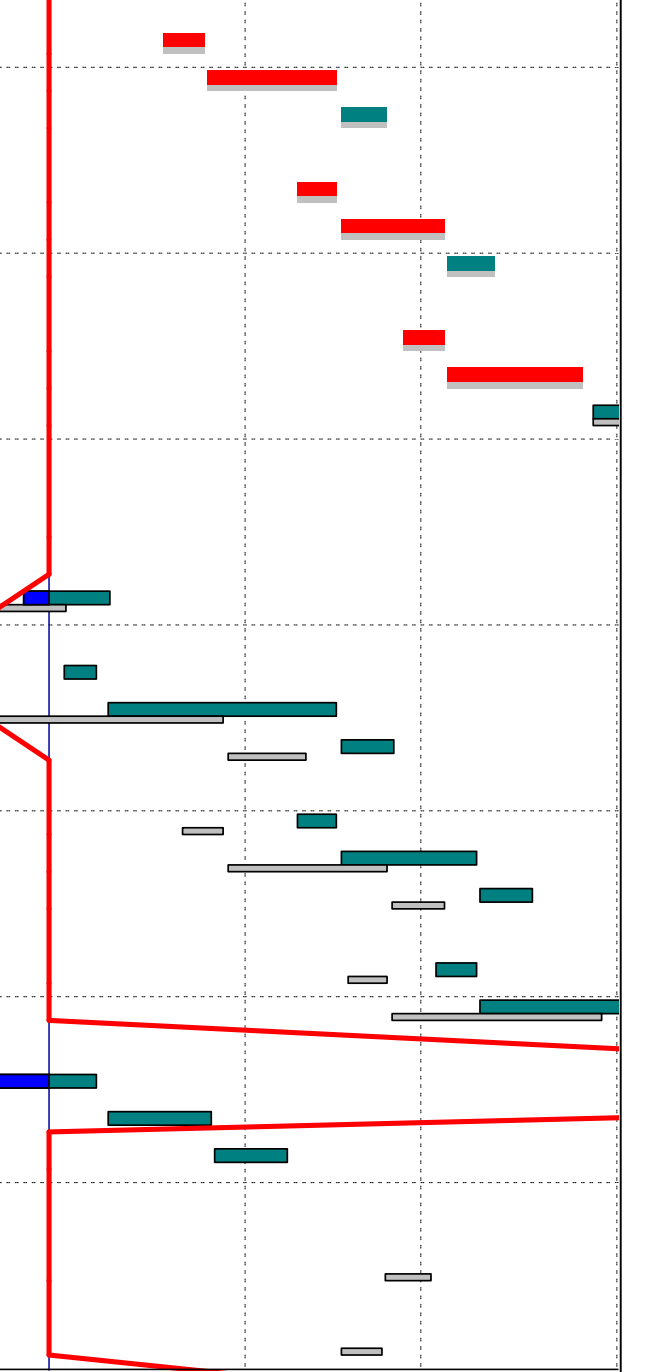
Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March			
									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18

01									
P30-BP41.10	BP - Excavation	19-Jan-22	25-Jan-22	6	19-Jan-22	25-Jan-22	0	0%	
P30-BP41.20	BP - RCD Drilling	26-Jan-22	15-Feb-22	15	26-Jan-22	15-Feb-22	0	0%	
P30-BP41.30	BP - Airlift, Cage Install and Concrete	16-Feb-22	23-Feb-22	7	16-Feb-22	23-Feb-22	159	0%	
02									
P30-BP47.10	BP - Excavation	09-Feb-22	15-Feb-22	6	09-Feb-22	15-Feb-22	0	0%	
P30-BP47.20	BP - RCD Drilling	16-Feb-22	04-Mar-22	15	16-Feb-22	04-Mar-22	0	0%	
P30-BP47.30	BP - Airlift, Cage Install and Concrete	05-Mar-22	12-Mar-22	7	05-Mar-22	12-Mar-22	151	0%	
03									
P30-BP58.10	BP - Excavation	26-Feb-22	04-Mar-22	6	26-Feb-22	04-Mar-22	0	0%	
P30-BP58.20	BP - RCD Drilling	05-Mar-22	26-Mar-22	19	05-Mar-22	26-Mar-22	0	0%	
P30-BP58.30	BP - Airlift, Cage Install and Concrete	28-Mar-22	06-Apr-22	8	28-Mar-22	06-Apr-22	139	0%	

VD05									
01									
P30-BP20.10	BP - Excavation	29-Nov-21	04-Dec-21	12	01-Dec-21 A	15-Dec-21 A		100%	
P30-BP20.20	BP - RCD Drilling	06-Dec-21	22-Dec-21	7	16-Dec-21 A	24-Dec-21 A		100%	
P30-BP20.30	BP - Airlift, Cage Install and Concrete	23-Dec-21	03-Jan-22	11	28-Dec-21 A	10-Jan-22	220	0%	
02									
P30-BP19.10	BP - Excavation	16-Dec-21	22-Dec-21	6	03-Jan-22	08-Jan-22	41	0%	
P30-BP19.20	BP - RCD Drilling	23-Dec-21	28-Jan-22	29	10-Jan-22	15-Feb-22	41	0%	
P30-BP19.30	BP - Airlift, Cage Install and Concrete	29-Jan-22	10-Feb-22	8	16-Feb-22	24-Feb-22	192	0%	
03									
P30-BP24.10	BP - Excavation	22-Jan-22	28-Jan-22	6	09-Feb-22	15-Feb-22	41	0%	
P30-BP24.20	BP - RCD Drilling	29-Jan-22	23-Feb-22	19	16-Feb-22	09-Mar-22	41	0%	
P30-BP24.30	BP - Airlift, Cage Install and Concrete	24-Feb-22	04-Mar-22	8	10-Mar-22	18-Mar-22	181	0%	
04									
P30-BP31.10	BP - Excavation	17-Feb-22	23-Feb-22	6	03-Mar-22	09-Mar-22	41	0%	
P30-BP31.20	BP - RCD Drilling	24-Feb-22	29-Mar-22	29	10-Mar-22	13-Apr-22	41	0%	
12									
P30-BP39.10	BP - Excavation	25-Aug-22	31-Aug-22	23	10-Dec-21 A	08-Jan-22	304	0%	
P30-BP39.20	BP - RCD Drilling	01-Sep-22	19-Sep-22	15	10-Jan-22	26-Jan-22	304	0%	
P30-BP39.30	BP - Airlift, Cage Install and Concrete	20-Sep-22	27-Sep-22	7	27-Jan-22	07-Feb-22	304	0%	

TD01									
01									
P30-BP01.30	BP - Airlift, Cage Install and Concrete	23-Feb-22	02-Mar-22	15	28-Nov-21 A	16-Dec-21 A		100%	
02									
P30-BP05.10	BP - Excavation	16-Feb-22	22-Feb-22	29	08-Nov-21 A	11-Dec-21 A		100%	

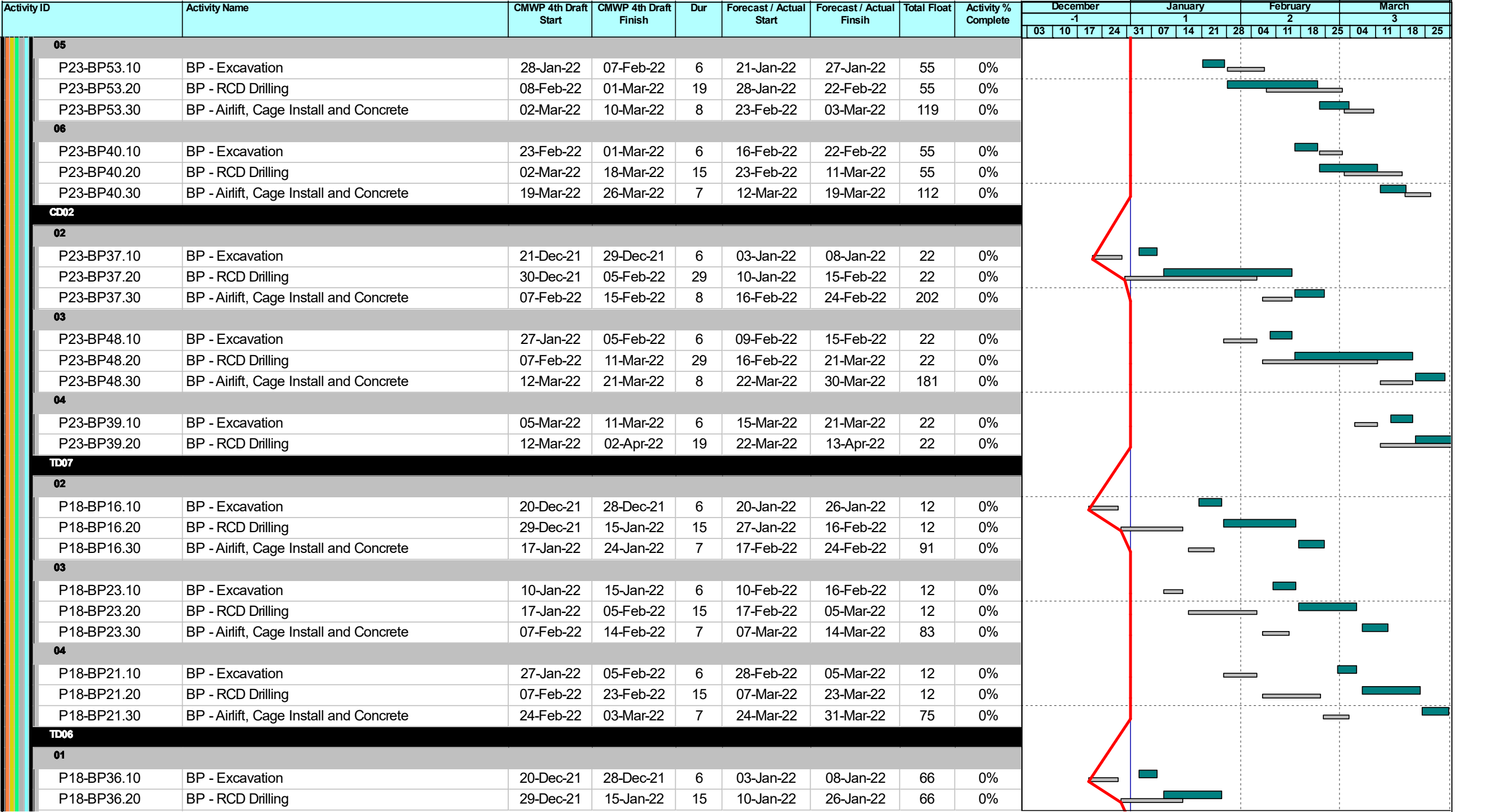


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 31 Dec 2021
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29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	





	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

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									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18
P23-BP107.20	BP - RCD Drilling	11-Jan-22	04-Feb-22	19	10-Feb-22	03-Mar-22	176	0%																
P23-BP107.30	BP - Airlift, Cage Install and Concrete	05-Feb-22	14-Feb-22	8	04-Mar-22	12-Mar-22	251	0%																
05																								
P23-BP75.10	BP - Excavation	26-Jan-22	04-Feb-22	6	25-Feb-22	03-Mar-22	176	0%																
P23-BP75.20	BP - RCD Drilling	05-Feb-22	26-Feb-22	19	04-Mar-22	25-Mar-22	176	0%																
P23-BP75.30	BP - Airlift, Cage Install and Concrete	28-Feb-22	08-Mar-22	8	26-Mar-22	04-Apr-22	240	0%																
06																								
P23-BP73.10	BP - Excavation	21-Feb-22	26-Feb-22	6	19-Mar-22	25-Mar-22	176	0%																
P23-BP73.20	BP - RCD Drilling	28-Feb-22	21-Mar-22	19	26-Mar-22	21-Apr-22	176	0%																
10																								
P23-BP115.10	BP - Excavation	04-Jan-22	10-Jan-22	6	31-Jan-22	09-Feb-22	99	0%																
P23-BP115.20	BP - RCD Drilling	11-Jan-22	04-Feb-22	19	10-Feb-22	03-Mar-22	99	0%																
P23-BP115.30	BP - Airlift, Cage Install and Concrete	05-Feb-22	14-Feb-22	8	04-Mar-22	12-Mar-22	227	0%																
11																								
P23-BP108.10	BP - Excavation	26-Jan-22	04-Feb-22	6	25-Feb-22	03-Mar-22	99	0%																
P23-BP108.20	BP - RCD Drilling	05-Feb-22	10-Mar-22	29	04-Mar-22	07-Apr-22	99	0%																
12																								
P23-BP74.10	BP - Excavation	04-Mar-22	10-Mar-22	6	31-Mar-22	07-Apr-22	99	0%																
TD03																								
02																								
P23-BP101.10	BP - Excavation	20-Jan-22	26-Jan-22	6	09-Feb-22	15-Feb-22	47	0%																
P23-BP101.20	BP - RCD Drilling	27-Jan-22	21-Feb-22	19	16-Feb-22	09-Mar-22	47	0%																
P23-BP101.30	BP - Airlift, Cage Install and Concrete	22-Feb-22	02-Mar-22	8	10-Mar-22	18-Mar-22	198	0%																
03																								
P23-BP110.10	BP - Excavation	15-Feb-22	21-Feb-22	6	03-Mar-22	09-Mar-22	47	0%																
P23-BP110.20	BP - RCD Drilling	22-Feb-22	15-Mar-22	19	10-Mar-22	31-Mar-22	47	0%																
04																								
P23-BP109.10	BP - Excavation	09-Mar-22	15-Mar-22	6	25-Mar-22	31-Mar-22	47	0%																
14																								
P23-BP90.10	BP - Excavation	27-Apr-22	04-May-22	18	16-Dec-21 A	08-Jan-22	181	0%																
P23-BP90.20	BP - RCD Drilling	05-May-22	09-Jun-22	29	10-Jan-22	15-Feb-22	181	0%																
P23-BP90.30	BP - Airlift, Cage Install and Concrete	10-Jun-22	18-Jun-22	8	16-Feb-22	24-Feb-22	257	0%																
TD02																								
01																								
P23-BP81.10	BP - Excavation	20-Dec-21	28-Dec-21	26	12-Nov-21 A	13-Dec-21 A		100%																
P23-BP81.20	BP - RCD Drilling	29-Dec-21	04-Feb-22	4	14-Dec-21 A	18-Dec-21 A		100%																
P23-BP81.30	BP - Airlift, Cage Install and Concrete	05-Feb-22	14-Feb-22	17	20-Dec-21 A	11-Jan-22	275	0%																

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

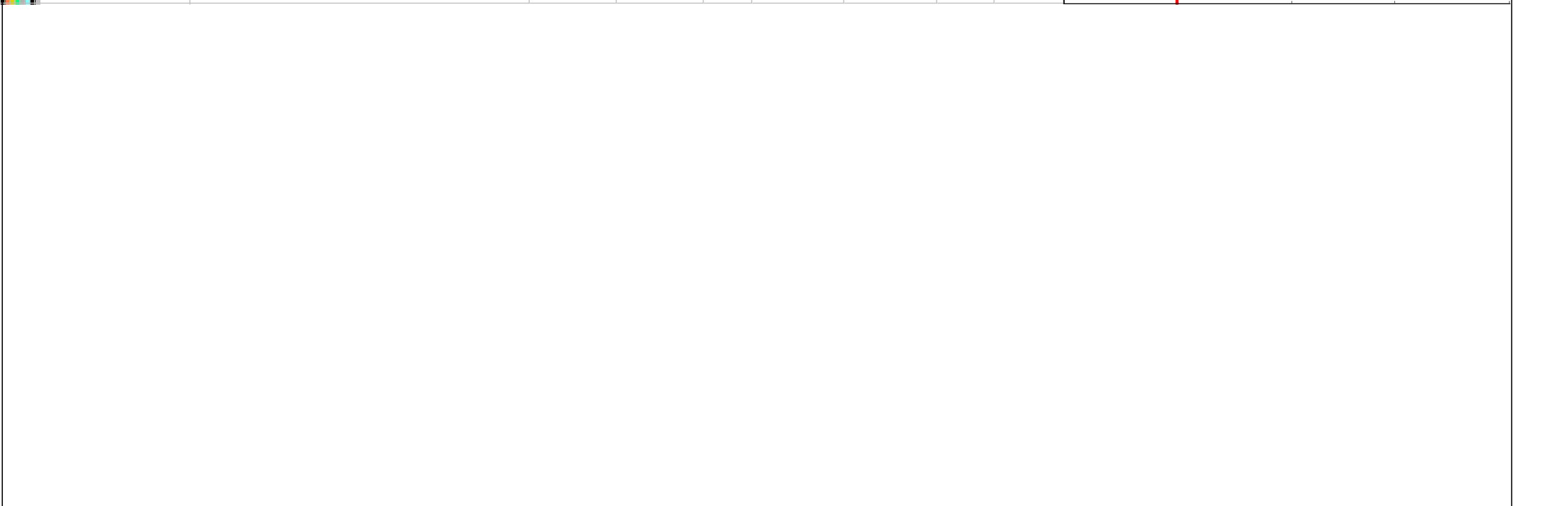
Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	December				January				February				March			
									-1				1				2				3			
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18
02																								
P23-BP59.10	BP - Excavation	26-Jan-22	04-Feb-22	21	03-Dec-21 A	30-Dec-21 A		100%																
P23-BP59.20	BP - RCD Drilling	05-Feb-22	10-Mar-22	30	31-Dec-21 A	08-Feb-22	112	0%																
P23-BP59.30	BP - Airlift, Cage Install and Concrete	11-Mar-22	19-Mar-22	8	09-Feb-22	17-Feb-22	254	0%																
03																								
P23-BP71.10	BP - Excavation	04-Mar-22	10-Mar-22	6	29-Jan-22	08-Feb-22	112	0%																
P23-BP71.20	BP - RCD Drilling	11-Mar-22	14-Apr-22	29	09-Feb-22	14-Mar-22	112	0%																
P23-BP71.30	BP - Airlift, Cage Install and Concrete	19-Apr-22	27-Apr-22	8	15-Mar-22	23-Mar-22	233	0%																
04																								
P23-BP83.10	BP - Excavation	08-Apr-22	14-Apr-22	6	08-Mar-22	14-Mar-22	112	0%																
P23-BP83.20	BP - RCD Drilling	19-Apr-22	24-May-22	29	15-Mar-22	21-Apr-22	112	0%																
10																								
P23-BP94.10	BP - Excavation	26-Jan-22	04-Feb-22	6	03-Jan-22	08-Jan-22	55	0%																
P23-BP94.20	BP - RCD Drilling	05-Feb-22	10-Mar-22	29	10-Jan-22	15-Feb-22	55	0%																
P23-BP94.30	BP - Airlift, Cage Install and Concrete	11-Mar-22	19-Mar-22	8	16-Feb-22	24-Feb-22	225	0%																
11																								
P23-BP113.10	BP - Excavation	04-Mar-22	10-Mar-22	6	09-Feb-22	15-Feb-22	55	0%																
P23-BP113.20	BP - RCD Drilling	11-Mar-22	01-Apr-22	19	16-Feb-22	09-Mar-22	55	0%																
P23-BP113.30	BP - Airlift, Cage Install and Concrete	02-Apr-22	12-Apr-22	8	10-Mar-22	18-Mar-22	214	0%																
12																								
P23-BP111.10	BP - Excavation	26-Mar-22	01-Apr-22	6	03-Mar-22	09-Mar-22	55	0%																
P23-BP111.20	BP - RCD Drilling	02-Apr-22	28-Apr-22	19	10-Mar-22	31-Mar-22	55	0%																
13																								
P23-BP92.10	BP - Excavation	22-Apr-22	28-Apr-22	6	25-Mar-22	31-Mar-22	55	0%																
Socketed Steel H- Piles																								
Trial Pile																								
KD09.SSHP.0000	Test Installation of Pile (SHP-C52Xa-P6)	17-Jan-22	26-Jan-22	9	17-Jan-22	26-Jan-22	19	0%																
KD09.SSHP.0020	Submission and Approval of Installation Report by BD	27-Jan-22	02-Feb-22	7	27-Jan-22	02-Feb-22	26	0%																
Socketed Steel H- Pile Construction																								
SHP-BW-52Y1b-P	Socketed Steel H-Piling	04-Feb-22	12-Feb-22	8	04-Feb-22	12-Feb-22	93	0%																
SHP-BW-52Y1b-P:	Socketed Steel H-Piling	08-Feb-22	16-Feb-22	8	08-Feb-22	16-Feb-22	93	0%																

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
	25-Oct-21	3rd Draft	KL	C
	26-Nov-21	4th Draft	KL	

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finish	Total Float	Activity % Complete	December				January				February				March				
									-1				1				2				3				
									03	10	17	24	31	07	14	21	28	04	11	18	25	04	11	18	25
	SHP-C52W-P1	Socketed Steel H-Piling	11-Feb-22	19-Feb-22	8	11-Feb-22	19-Feb-22	93	0%																
	SHP-C52W-P2	Socketed Steel H-Piling	15-Feb-22	23-Feb-22	8	15-Feb-22	23-Feb-22	93	0%																
	SHP-C52W-P3	Socketed Steel H-Piling	18-Feb-22	26-Feb-22	8	18-Feb-22	26-Feb-22	93	0%																
	SHP-C52W-P4	Socketed Steel H-Piling	22-Feb-22	02-Mar-22	8	22-Feb-22	02-Mar-22	93	0%																
	SHP-C52W-P5	Socketed Steel H-Piling	25-Feb-22	05-Mar-22	8	25-Feb-22	05-Mar-22	93	0%																
	SHP-C52W-P6	Socketed Steel H-Piling	01-Mar-22	09-Mar-22	8	01-Mar-22	09-Mar-22	93	0%																
	SHP-C52X-P1	Socketed Steel H-Piling	04-Mar-22	12-Mar-22	8	04-Mar-22	12-Mar-22	93	0%																
	SHP-C52X-P2	Socketed Steel H-Piling	08-Mar-22	16-Mar-22	8	08-Mar-22	16-Mar-22	93	0%																
	SHP-C52X-P3	Socketed Steel H-Piling	11-Mar-22	19-Mar-22	8	11-Mar-22	19-Mar-22	93	0%																
	SHP-C52X-P4	Socketed Steel H-Piling	15-Mar-22	23-Mar-22	8	15-Mar-22	23-Mar-22	93	0%																
	SHP-C52X-P5	Socketed Steel H-Piling	18-Mar-22	26-Mar-22	8	18-Mar-22	26-Mar-22	93	0%																
	SHP-C52X-P6	Socketed Steel H-Piling	22-Mar-22	30-Mar-22	8	22-Mar-22	30-Mar-22	93	0%																
	SHP-C52Xa-P1	Socketed Steel H-Piling	25-Mar-22	02-Apr-22	8	25-Mar-22	02-Apr-22	93	0%																
	SHP-C52Xa-P2	Socketed Steel H-Piling	29-Mar-22	07-Apr-22	8	29-Mar-22	07-Apr-22	93	0%																



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	

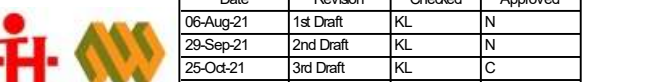
Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	January				February				March				April			
									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

Piling for Integrated Basement and U/G Road in Zone 2B & 2C



- Planned Bar
- Critical Bar
- Baseline
- ◆ Milestone
- ◆ Critical MS
- ◆ Baseline MS

Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B



Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	January				February				March				April			
									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

14									
CBA-BP04.10	BP - Excavation	12-Apr-22	22-Apr-22	7	06-Apr-22	13-Apr-22	5	0%	
CBA-BP04.20	BP - RCD Drilling	23-Apr-22	11-May-22	14	14-Apr-22	04-May-22	5	0%	

CD05									
04									
P22&P19-BP11.10	BP - Excavation	24-Jan-22	29-Jan-22	6	19-Feb-22	25-Feb-22	18	0%	
P22&P19-BP11.20	BP - RCD Drilling	31-Jan-22	24-Feb-22	19	26-Feb-22	19-Mar-22	18	0%	
P22&P19-BP11.30	BP - Airlift, Cage Install and Concrete	25-Feb-22	05-Mar-22	8	21-Mar-22	29-Mar-22	29	0%	

05									
P22&P19-BP21.10	BP - Excavation	18-Feb-22	24-Feb-22	6	14-Mar-22	19-Mar-22	18	0%	
P22&P19-BP21.20	BP - RCD Drilling	25-Feb-22	18-Mar-22	19	21-Mar-22	12-Apr-22	18	0%	
P22&P19-BP21.30	BP - Airlift, Cage Install and Concrete	19-Mar-22	28-Mar-22	8	13-Apr-22	25-Apr-22	18	0%	

07									
P22&P19-BP29.10	BP - Excavation	04-Apr-22	11-Apr-22	12	22-Jan-22 A	08-Feb-22	52	0%	
P22&P19-BP29.20	BP - RCD Drilling	12-Apr-22	07-May-22	19	09-Feb-22	02-Mar-22	52	0%	
P22&P19-BP29.30	BP - Airlift, Cage Install and Concrete	10-May-22	18-May-22	8	03-Mar-22	11-Mar-22	52	0%	

CD03									
06									
P23-BP06.10	BP - Excavation	02-Apr-22	09-Apr-22	34	24-Dec-21 A	08-Feb-22	52	0%	
P23-BP06.20	BP - RCD Drilling	11-Apr-22	06-May-22	19	09-Feb-22	02-Mar-22	52	0%	
P23-BP06.30	BP - Airlift, Cage Install and Concrete	07-May-22	17-May-22	8	03-Mar-22	11-Mar-22	52	0%	

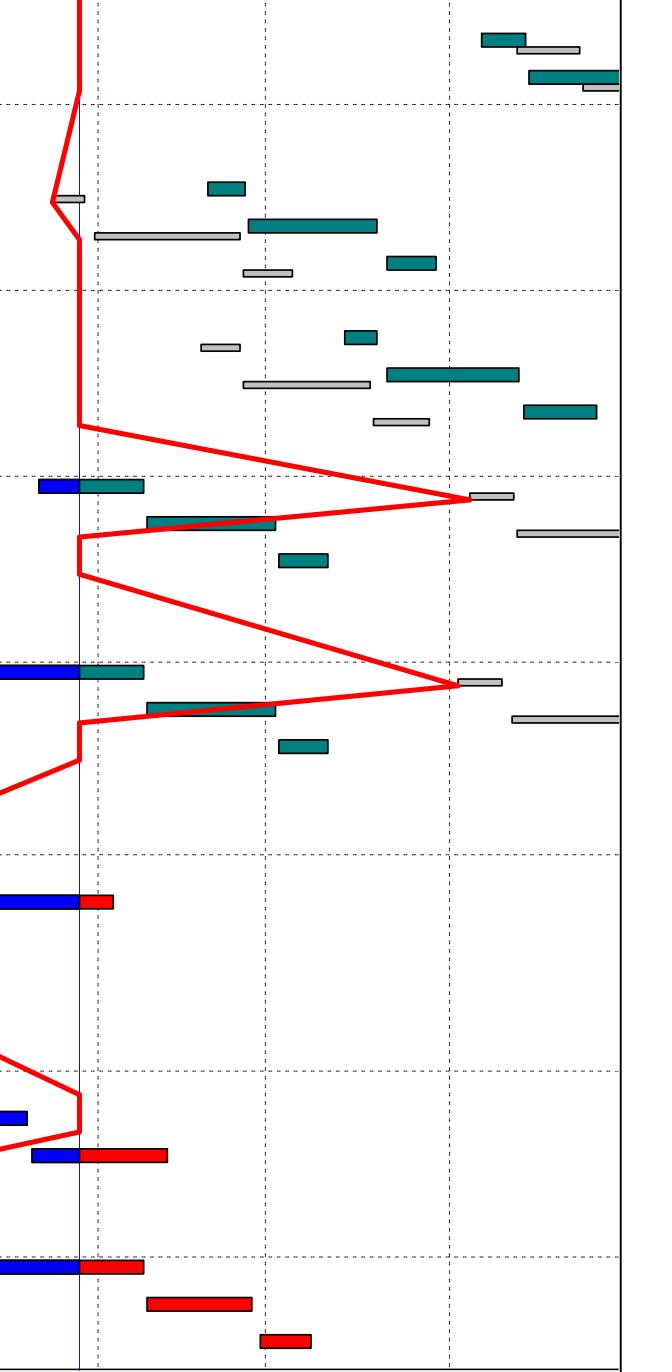
KD02 (Stage 5-1)

KD02.BP.0040	Review and Confirmation of Rockhead and Founding Level of the 1st Pile by CA	19-Nov-21	02-Dec-21	63	03-Dec-21 A	03-Feb-22	-42	57.14%	
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Bored Piles

CD01									
04									
P23-BP43.10	BP - Excavation	03-Dec-21	09-Dec-21	9	21-Dec-21 A	04-Jan-22 A		100%	
P23-BP43.20	BP - RCD Drilling	10-Dec-21	30-Dec-21	13	05-Jan-22 A	20-Jan-22 A		100%	
P23-BP43.30	BP - Airlift, Cage Install and Concrete	31-Dec-21	10-Jan-22	17	21-Jan-22 A	12-Feb-22	-5	0%	

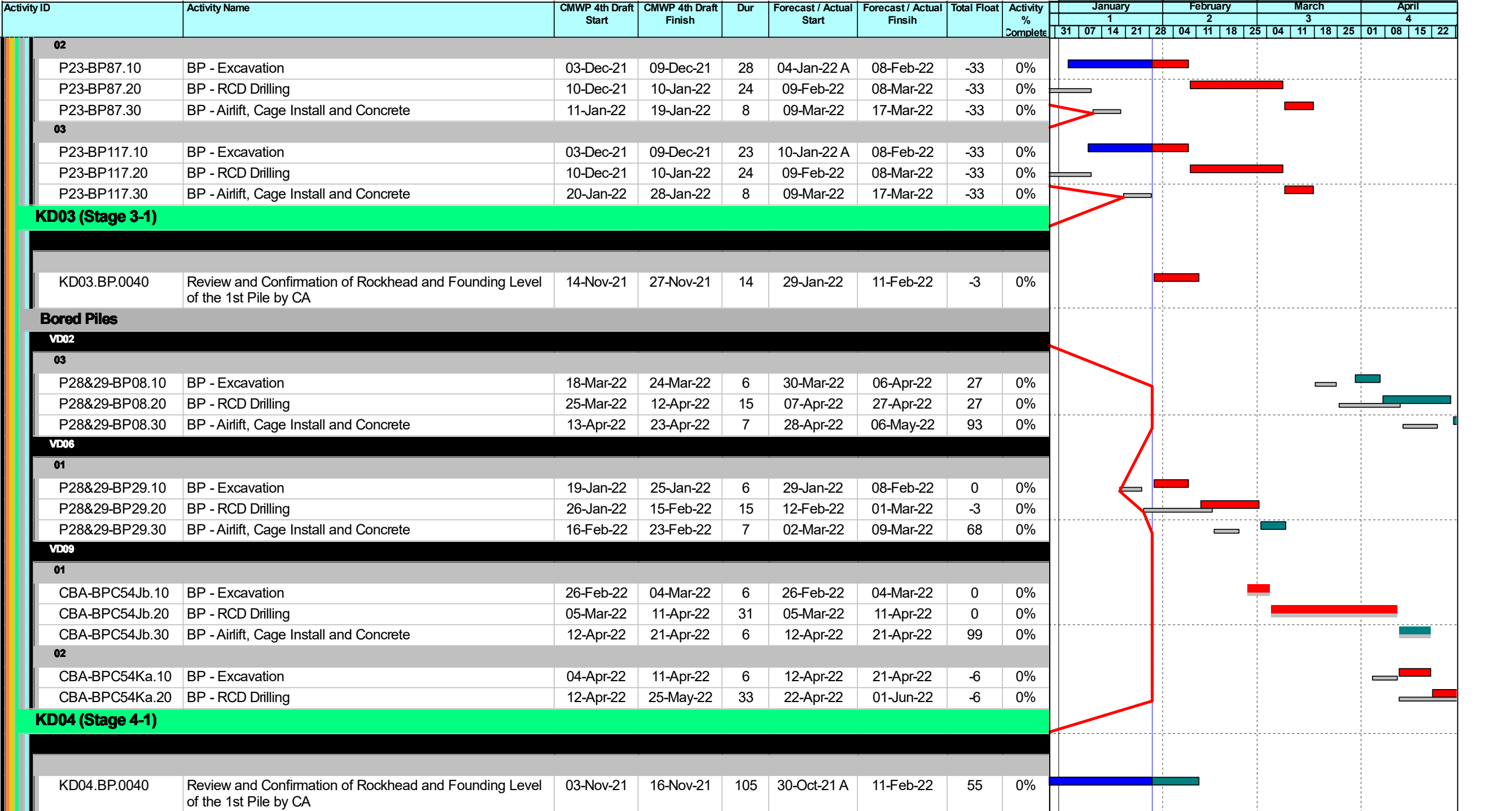
TD04									
01									
P23-BP76.10	BP - Excavation	03-Dec-21	09-Dec-21	34	24-Dec-21 A	08-Feb-22	-33	0%	
P23-BP76.20	BP - RCD Drilling	10-Dec-21	30-Dec-21	16	09-Feb-22	26-Feb-22	-33	0%	
P23-BP76.30	BP - Airlift, Cage Install and Concrete	31-Dec-21	10-Jan-22	8	28-Feb-22	08-Mar-22	-33	0%	



Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 28 Jan 2022
Based on CMWP 4th Draft

	Date	Revision	Checked	Approved
	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
	25-Oct-21	3rd Draft	KL	C
	26-Nov-21	4th Draft	KL	B



	Planned Bar		Milestone
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	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Retained Basement and U/G Road in Zone 2B 2C
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 Based on CMWP 4th Draft



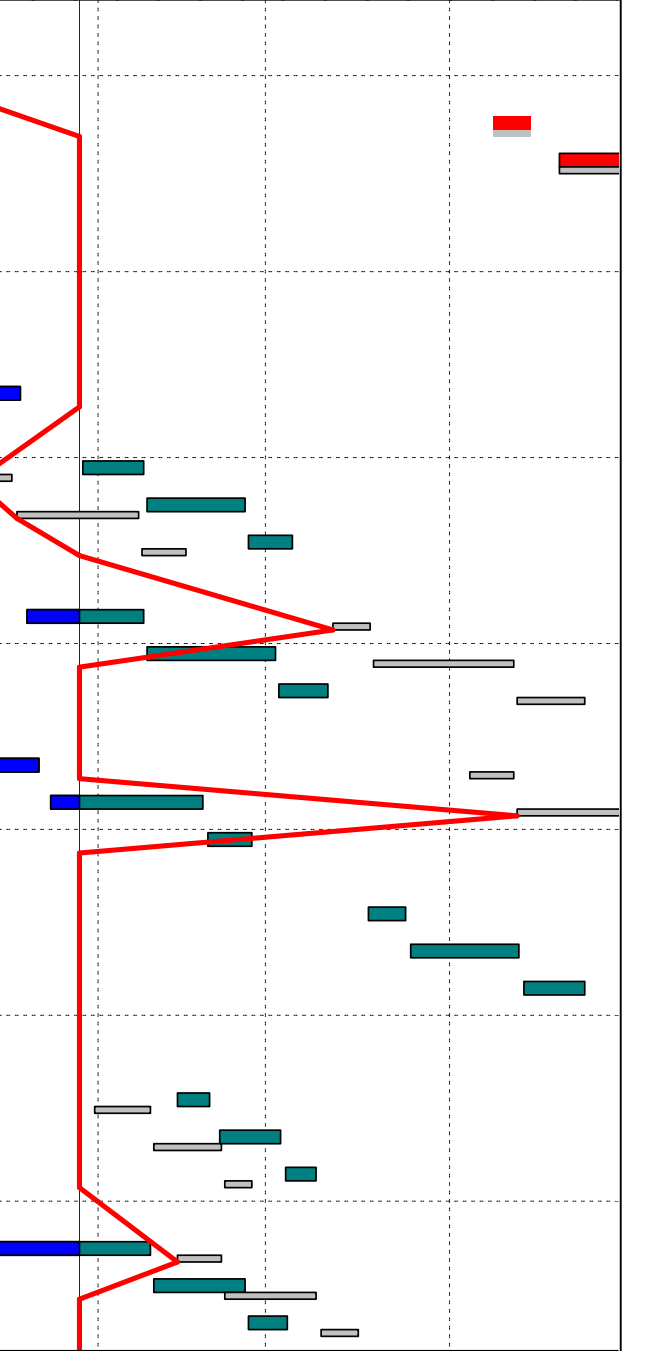
Date	Revision	Checked	Approved
06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finish	Total Float	Activity % Complete	January				February				March				April			
									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

Bored Piles									
TD09									
01									
CBA-BPC54V.10	BP - Excavation	08-Apr-22	14-Apr-22	6	08-Apr-22	14-Apr-22	0	0%	
CBA-BPC54V.20	BP - RCD Drilling	19-Apr-22	29-Apr-22	10	19-Apr-22	29-Apr-22	0	0%	

KD05 (Section 1)

Bored Piles									
CD01									
01									
P23-BP30.20	BP - RCD Drilling	06-Dec-21	22-Dec-21	16	13-Dec-21 A	04-Jan-22 A		100%	
P23-BP30.30	BP - Airlift, Cage Install and Concrete	23-Dec-21	03-Jan-22	12	05-Jan-22 A	19-Jan-22 A		100%	
03									
P23-BP20.10	BP - Excavation	11-Jan-22	17-Jan-22	6	29-Jan-22	08-Feb-22	67	0%	
P23-BP20.20	BP - RCD Drilling	18-Jan-22	07-Feb-22	15	09-Feb-22	25-Feb-22	67	0%	
P23-BP20.30	BP - Airlift, Cage Install and Concrete	08-Feb-22	15-Feb-22	7	26-Feb-22	05-Mar-22	169	0%	
07									
P23-BP19.10	BP - Excavation	12-Mar-22	18-Mar-22	14	20-Jan-22 A	08-Feb-22	164	0%	
P23-BP19.20	BP - RCD Drilling	19-Mar-22	11-Apr-22	19	09-Feb-22	02-Mar-22	164	0%	
P23-BP19.30	BP - Airlift, Cage Install and Concrete	12-Apr-22	23-Apr-22	8	03-Mar-22	11-Mar-22	164	0%	
08									
P23-BP32.10	BP - Excavation	04-Apr-22	11-Apr-22	8	13-Jan-22 A	22-Jan-22 A		100%	
P23-BP32.20	BP - RCD Drilling	12-Apr-22	03-May-22	20	24-Jan-22 A	18-Feb-22	175	0%	
P23-BP32.30	BP - Airlift, Cage Install and Concrete	04-May-22	12-May-22	7	19-Feb-22	26-Feb-22	175	0%	
16									
P23-BP31.10	BP - Excavation	13-Jun-22	18-Jun-22	6	18-Mar-22	24-Mar-22	131	0%	
P23-BP31.20	BP - RCD Drilling	20-Jun-22	07-Jul-22	15	25-Mar-22	12-Apr-22	131	0%	
P23-BP31.30	BP - Airlift, Cage Install and Concrete	08-Jul-22	15-Jul-22	7	13-Apr-22	23-Apr-22	131	0%	
CD07									
02									
CBA-BPC43K.10	BP - Excavation	31-Jan-22	09-Feb-22	6	14-Feb-22	19-Feb-22	5	0%	
CBA-BPC43K.20	BP - RCD Drilling	10-Feb-22	21-Feb-22	10	21-Feb-22	03-Mar-22	5	0%	
CBA-BPC43K.30	BP - Airlift, Cage Install and Concrete	22-Feb-22	26-Feb-22	5	04-Mar-22	09-Mar-22	33	0%	
03									
CBA-BPC44Jb.10	BP - Excavation	14-Feb-22	21-Feb-22	40	18-Dec-21 A	09-Feb-22	10	0%	
CBA-BPC44Jb.20	BP - RCD Drilling	22-Feb-22	09-Mar-22	14	10-Feb-22	25-Feb-22	10	0%	
CBA-BPC44Jb.30	BP - Airlift, Cage Install and Concrete	10-Mar-22	16-Mar-22	6	26-Feb-22	04-Mar-22	170	0%	



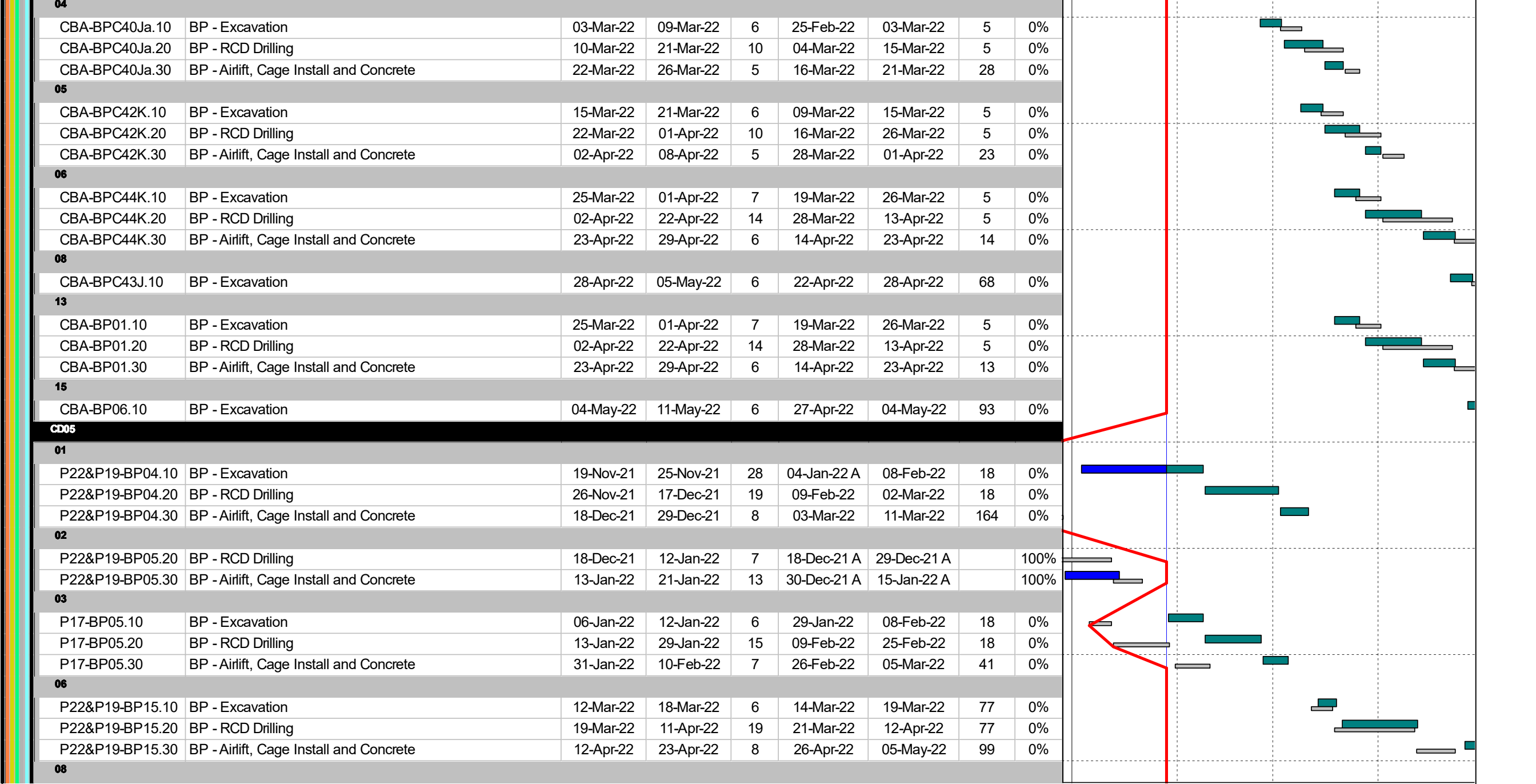
	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Retained Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 28 Jan 2022
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29-Sep-21	2nd Draft	KL	N
25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B

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									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

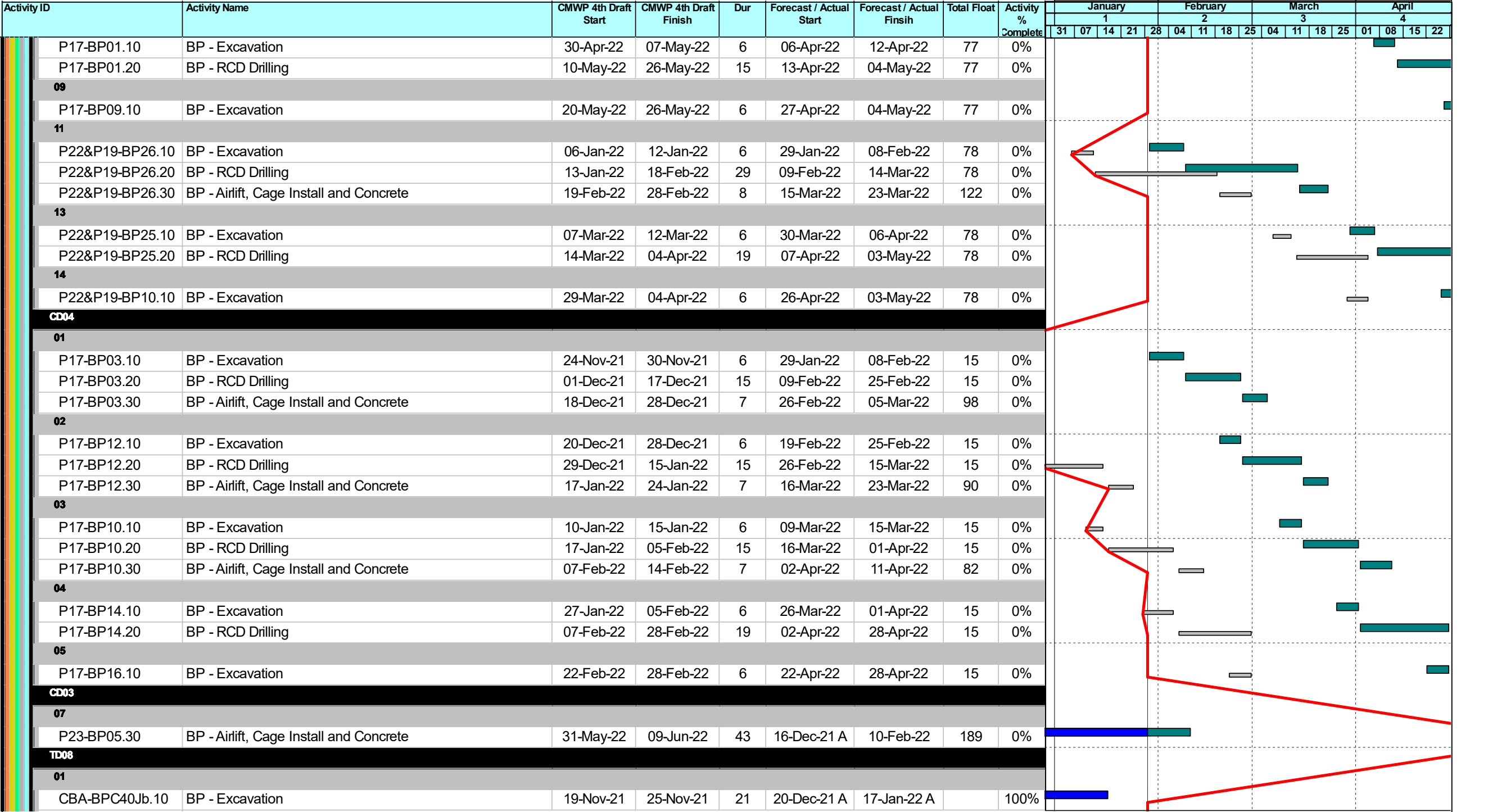


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Retaining Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B



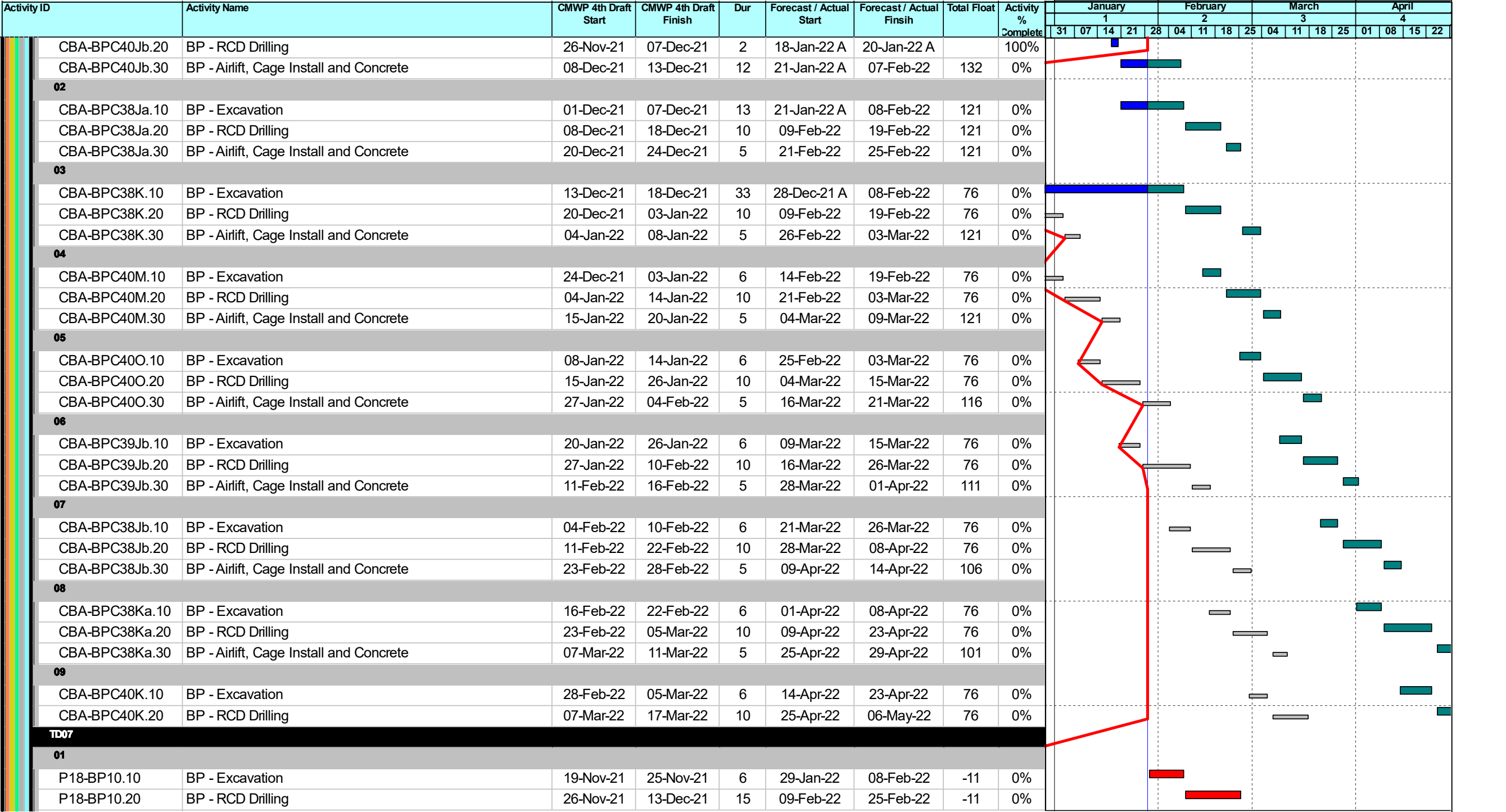
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 Data Date: 29-Jan-22
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- █ Planned Bar
- █ Critical Bar
- █ Baseline
- ◆ Milestone
- ◆ Critical MS
- ◆ Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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 Based on CMWP 4th Draft



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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B

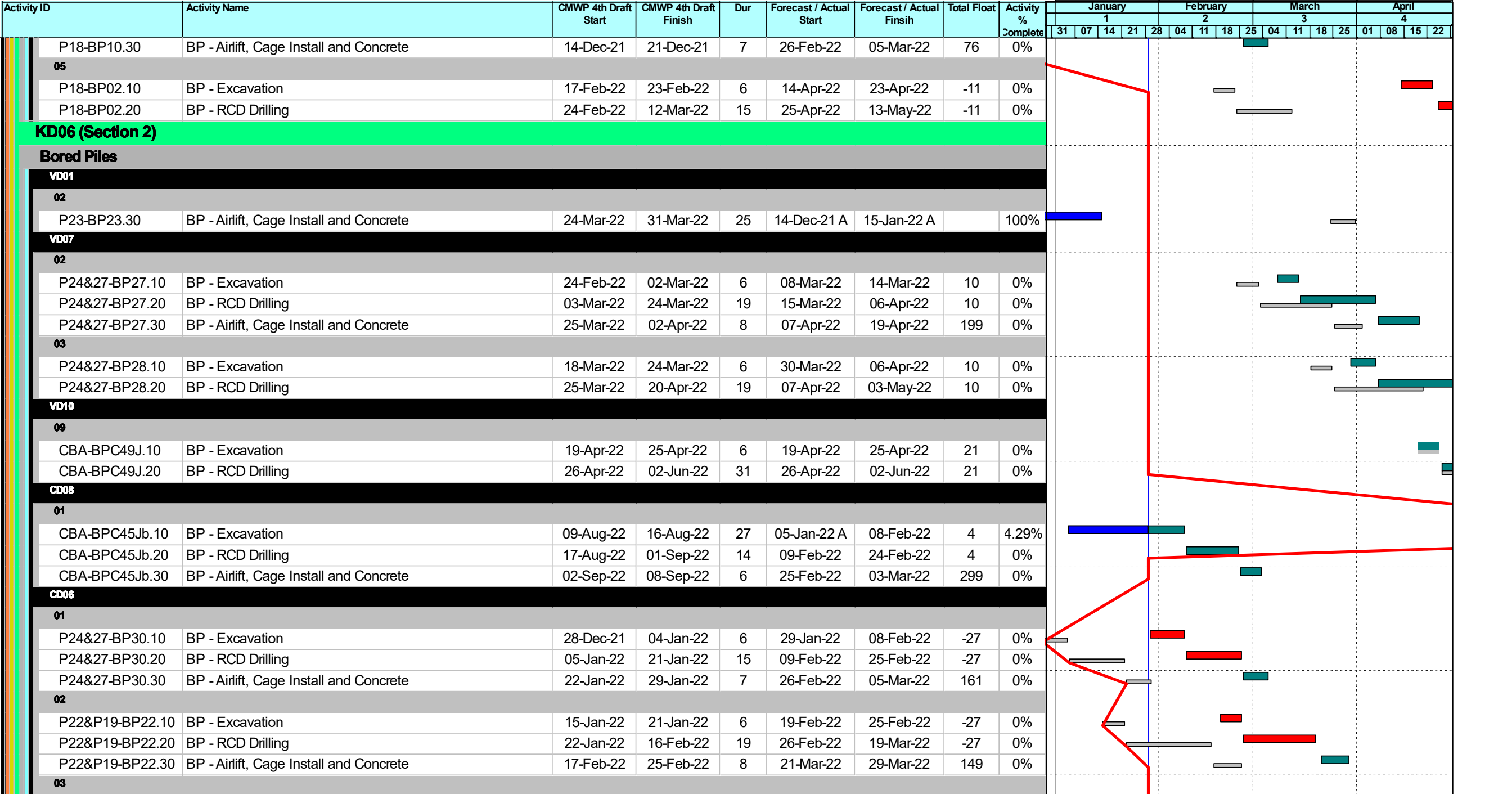


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 28 Jan 2022
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B






	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Retaining Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B

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									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15
P22&P19-BP23.10	BP - Excavation	10-Feb-22	16-Feb-22	6	14-Mar-22	19-Mar-22	-27	0%																
P22&P19-BP23.20	BP - RCD Drilling	17-Feb-22	10-Mar-22	19	21-Mar-22	12-Apr-22	-27	0%																
P22&P19-BP23.30	BP - Airlift, Cage Install and Concrete	11-Mar-22	19-Mar-22	8	13-Apr-22	25-Apr-22	138	0%																
04																								
P22&P19-BP28.10	BP - Excavation	04-Mar-22	10-Mar-22	6	06-Apr-22	12-Apr-22	-27	0%																
P22&P19-BP28.20	BP - RCD Drilling	11-Mar-22	01-Apr-22	19	13-Apr-22	10-May-22	-27	0%																
CD05																								
12																								
P22&P19-BP24.10	BP - Excavation	12-Feb-22	18-Feb-22	6	08-Mar-22	14-Mar-22	78	0%																
P22&P19-BP24.20	BP - RCD Drilling	19-Feb-22	12-Mar-22	19	15-Mar-22	06-Apr-22	78	0%																
P22&P19-BP24.30	BP - Airlift, Cage Install and Concrete	14-Mar-22	22-Mar-22	8	07-Apr-22	19-Apr-22	111	0%																
CD03																								
02																								
P23-BP10.10	BP - Excavation	16-Dec-21	22-Dec-21	6	29-Jan-22	08-Feb-22	72	0%																
P23-BP10.20	BP - RCD Drilling	23-Dec-21	17-Jan-22	19	09-Feb-22	02-Mar-22	72	0%																
P23-BP10.30	BP - Airlift, Cage Install and Concrete	18-Jan-22	26-Jan-22	8	03-Mar-22	11-Mar-22	268	0%																
03																								
P23-BP25.10	BP - Excavation	11-Jan-22	17-Jan-22	6	24-Feb-22	02-Mar-22	72	0%																
P23-BP25.20	BP - RCD Drilling	18-Jan-22	11-Feb-22	19	03-Mar-22	24-Mar-22	72	0%																
P23-BP25.30	BP - Airlift, Cage Install and Concrete	12-Feb-22	21-Feb-22	8	25-Mar-22	02-Apr-22	257	0%																
04																								
P23-BP15.10	BP - Excavation	05-Feb-22	11-Feb-22	6	18-Mar-22	24-Mar-22	72	0%																
P23-BP15.20	BP - RCD Drilling	12-Feb-22	17-Mar-22	29	25-Mar-22	03-May-22	72	0%																
05																								
P23-BP17.10	BP - Excavation	11-Mar-22	17-Mar-22	6	26-Apr-22	03-May-22	72	0%																
08																								
P23-BP04.10	BP - Excavation	24-May-22	30-May-22	15	13-Dec-21 A	03-Jan-22 A		100%																
P23-BP04.20	BP - RCD Drilling	31-May-22	22-Jun-22	9	04-Jan-22 A	14-Jan-22 A		100%																
P23-BP04.30	BP - Airlift, Cage Install and Concrete	23-Jun-22	02-Jul-22	7	15-Jan-22 A	24-Jan-22 A		100%																
CD02																								
01																								
P23-BP28.20	BP - RCD Drilling	06-Dec-21	29-Dec-21	10	15-Dec-21 A	29-Dec-21 A		100%																
P23-BP28.30	BP - Airlift, Cage Install and Concrete	30-Dec-21	08-Jan-22	9	30-Dec-21 A	11-Jan-22 A		100%																
KD07 (Section 3)																								
Trial Pile (P30-BP76)																								
VD03																								

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 28 Jan 2022
Based on CMWP 4th Draft

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	25-Oct-21	3rd Draft	KL	C
	26-Nov-21	4th Draft	KL	B

Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	January				February				March				April			
									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

01									
P30-BP76.10	BP (Trial Pile for Schedule 1) - Excavation	29-Dec-21	05-Jan-22	16	17-Jan-22 A	07-Feb-22	-6	6.67%	
P30-BP76.20	BP (Trial Pile for Schedule 1) - RCD Drilling	06-Jan-22	01-Mar-22	44	08-Feb-22	30-Mar-22	-6	0%	
P30-BP76.30	BP (Trial Pile for Schedule 1) - Airlift, Cage Install and Concrete	02-Mar-22	11-Mar-22	9	31-Mar-22	11-Apr-22	-6	0%	

VD02									
KD07.BP.0020	Review and Confirmation of Rockhead and Founding Level of the 1st Pile by CA	14-Nov-21	27-Nov-21	77	13-Nov-21 A	29-Jan-22	-7	100%	

Trial Pile (P24&P27-BP34)

VD02									
01									
P24&27-BP34.10	BP (Trial Pile for Schedule 2) - Excavation	18-Jan-22	24-Jan-22	15	19-Jan-22 A	08-Feb-22	3	0%	
P24&27-BP34.20	BP (Trial Pile for Schedule 2) - RCD Drilling	25-Jan-22	18-Feb-22	19	09-Feb-22	02-Mar-22	3	0%	
P24&27-BP34.30	BP (Trial Pile for Schedule 2) - Airlift, Cage Install and Concrete	19-Feb-22	28-Feb-22	8	03-Mar-22	11-Mar-22	3	0%	

VD02									
KD07.BP.0060	Review and Confirmation of Rockhead and Founding Level of the 1st Pile by CA	23-Oct-21	05-Nov-21	77	13-Nov-21 A	29-Jan-22	-7	100%	

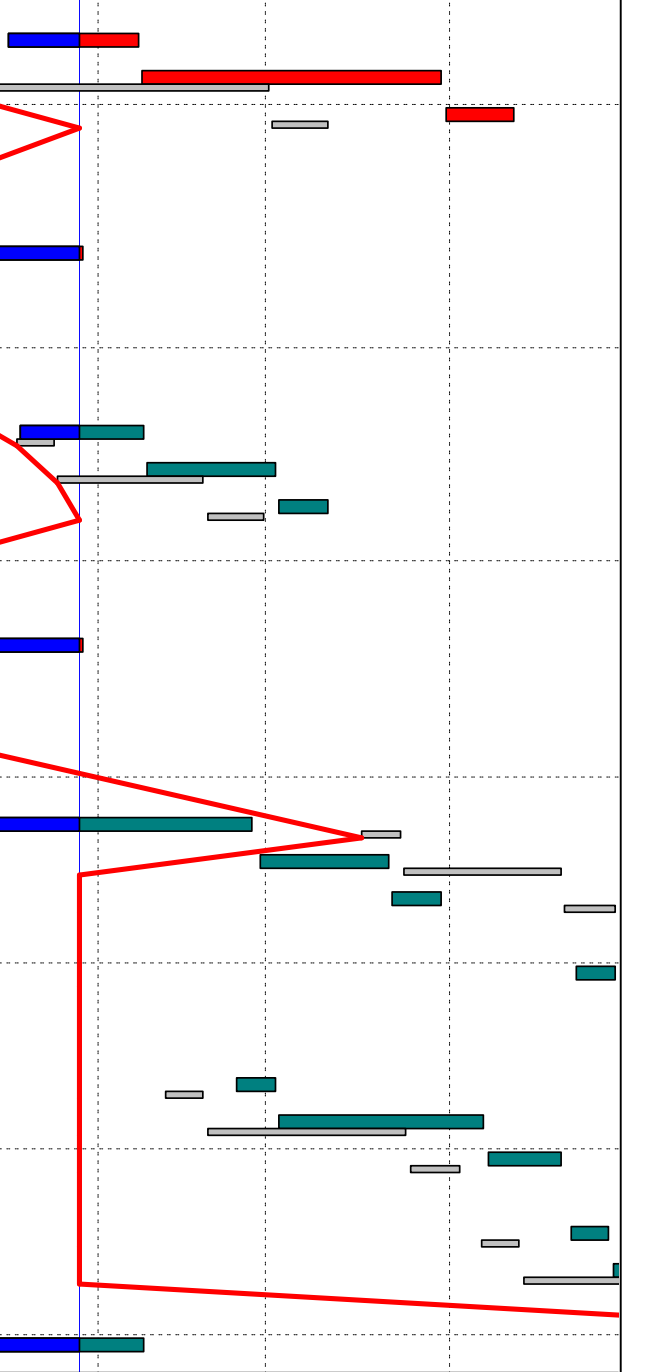
Bored Piles

VD01									
03									
P26-BP08.10	BP - Excavation	17-Mar-22	23-Mar-22	75	25-Nov-21 A	26-Feb-22	40	0%	
P26-BP08.20	BP - RCD Drilling	24-Mar-22	19-Apr-22	19	28-Feb-22	21-Mar-22	40	0%	
P26-BP08.30	BP - Airlift, Cage Install and Concrete	20-Apr-22	28-Apr-22	8	22-Mar-22	30-Mar-22	191	0%	
05									
P26-BP11.10	BP - Excavation	19-May-22	25-May-22	6	22-Apr-22	28-Apr-22	40	0%	

VD02									
02									
P24&27-BP08.10	BP - Excavation	12-Feb-22	18-Feb-22	6	24-Feb-22	02-Mar-22	27	0%	
P24&27-BP08.20	BP - RCD Drilling	19-Feb-22	24-Mar-22	29	03-Mar-22	06-Apr-22	27	0%	
P24&27-BP08.30	BP - Airlift, Cage Install and Concrete	25-Mar-22	02-Apr-22	8	07-Apr-22	19-Apr-22	100	0%	

04									
P26-BP03.10	BP - Excavation	06-Apr-22	12-Apr-22	6	21-Apr-22	27-Apr-22	27	0%	
P26-BP03.20	BP - RCD Drilling	13-Apr-22	21-May-22	29	28-Apr-22	02-Jun-22	27	0%	

08									
P24&27-BP02.10	BP - Excavation	02-Sep-22	08-Sep-22	40	17-Dec-21 A	08-Feb-22	315	0%	

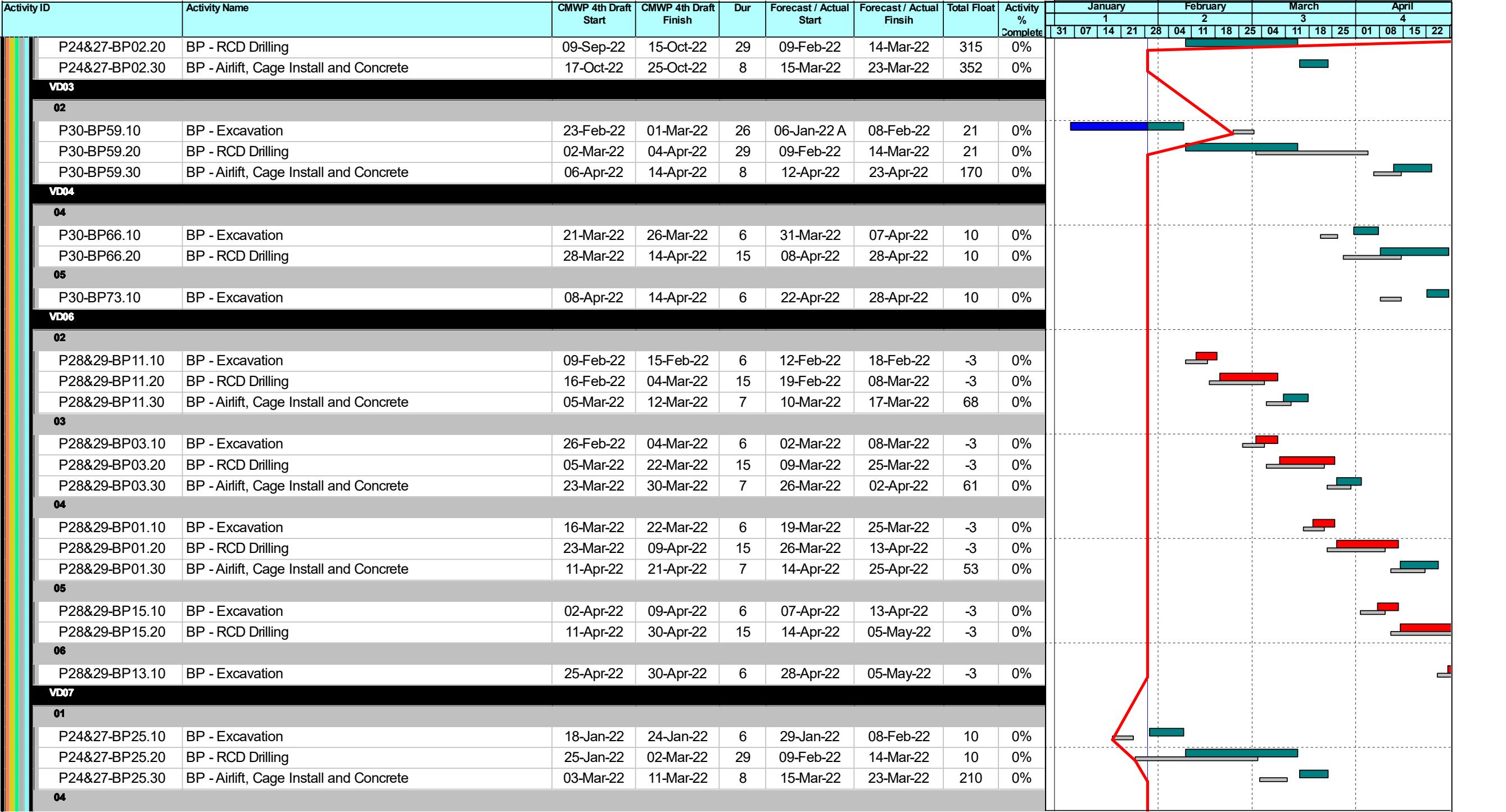


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B

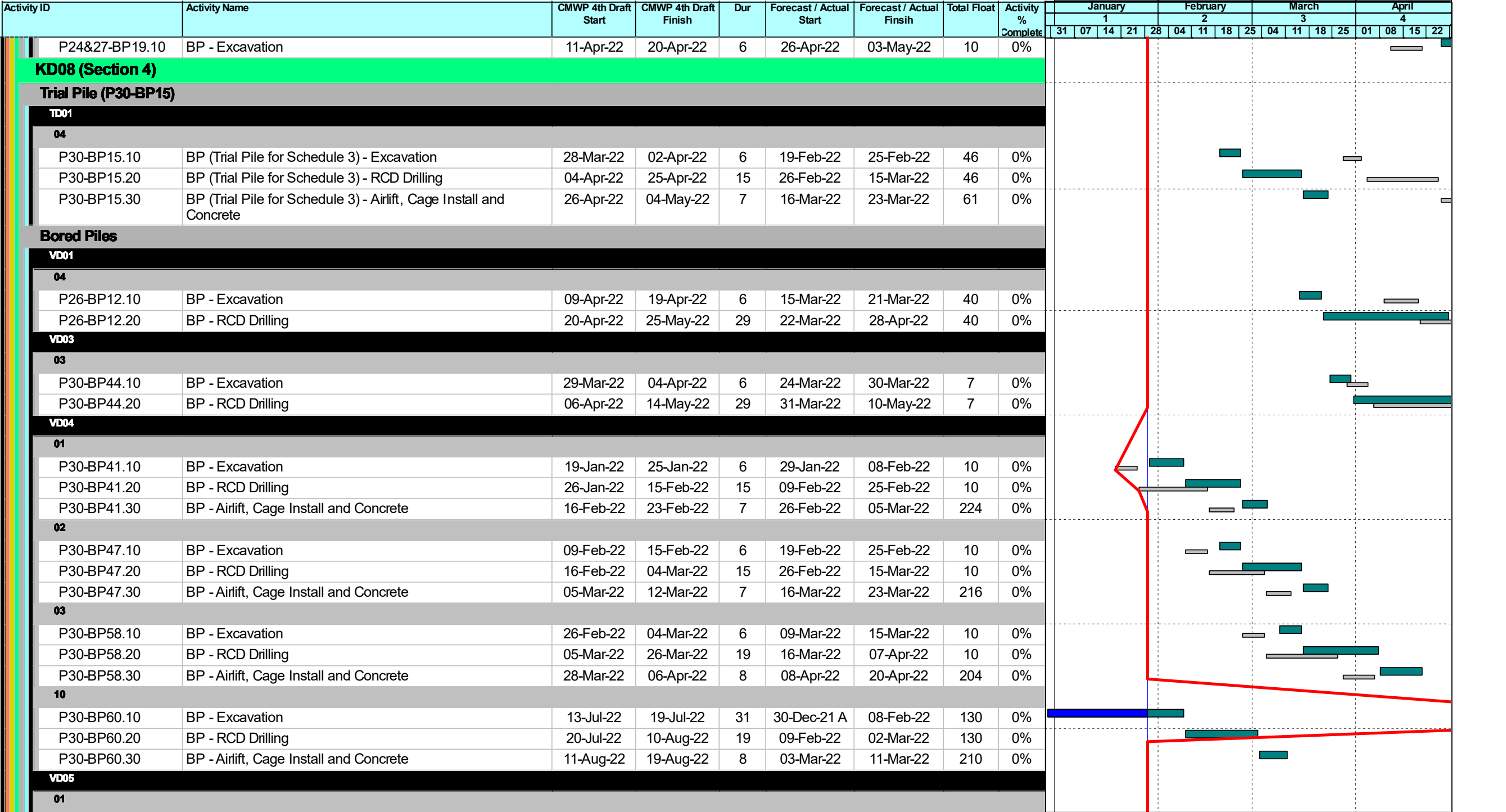


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B



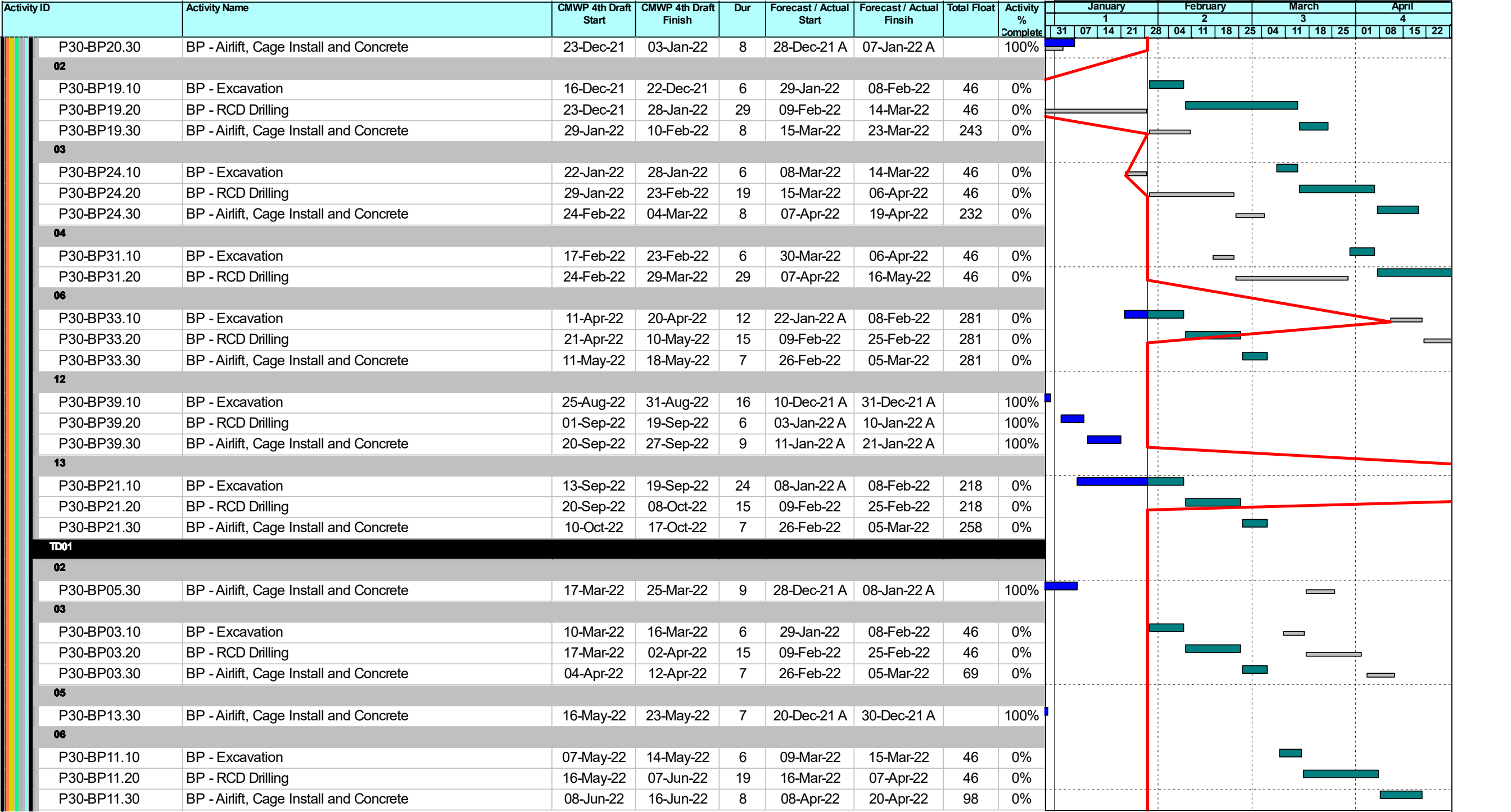
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Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

West Kowloon Cultural District Authority
Piling for Retained Basement and U/G Road in Zone 2B 2C
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25-Oct-21	3rd Draft	KL	C
26-Nov-21	4th Draft	KL	B



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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26-Nov-21	4th Draft	KL	B

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									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15

TD09									
02									
CBA-BPC52Va.10	BP - Excavation	23-Apr-22	29-Apr-22	6	23-Apr-22	29-Apr-22	0	0%	

KD09 (Section 5)

Trial Piles (P23-BP68)

TD08									
01									
P23-BP68.10	BP (Trial Pile for Schedule 4) - Excavation	14-Dec-21	20-Dec-21	11	24-Jan-22 A	08-Feb-22	24	0%	
P23-BP68.20	BP (Trial Pile for Schedule 4) - RCD Drilling	21-Dec-21	26-Jan-22	29	09-Feb-22	14-Mar-22	24	0%	
P23-BP68.30	BP (Trial Pile for Schedule 4) - Airlift, Cage Install and Concrete	27-Jan-22	08-Feb-22	8	15-Mar-22	23-Mar-22	52	0%	

Bored Piles

VD01									
01									
P23-BP44.10	BP - Excavation	05-Feb-22	11-Feb-22	77	01-Nov-21 A	05-Feb-22	40	100%	
P23-BP44.20	BP - RCD Drilling	12-Feb-22	05-Mar-22	19	05-Feb-22	26-Feb-22	40	0%	
P23-BP44.30	BP - Airlift, Cage Install and Concrete	07-Mar-22	15-Mar-22	8	28-Feb-22	08-Mar-22	202	0%	

CD01									
05									
P23-BP53.10	BP - Excavation	28-Jan-22	07-Feb-22	6	19-Feb-22	25-Feb-22	67	0%	
P23-BP53.20	BP - RCD Drilling	08-Feb-22	01-Mar-22	19	26-Feb-22	19-Mar-22	67	0%	
P23-BP53.30	BP - Airlift, Cage Install and Concrete	02-Mar-22	10-Mar-22	8	21-Mar-22	29-Mar-22	270	0%	

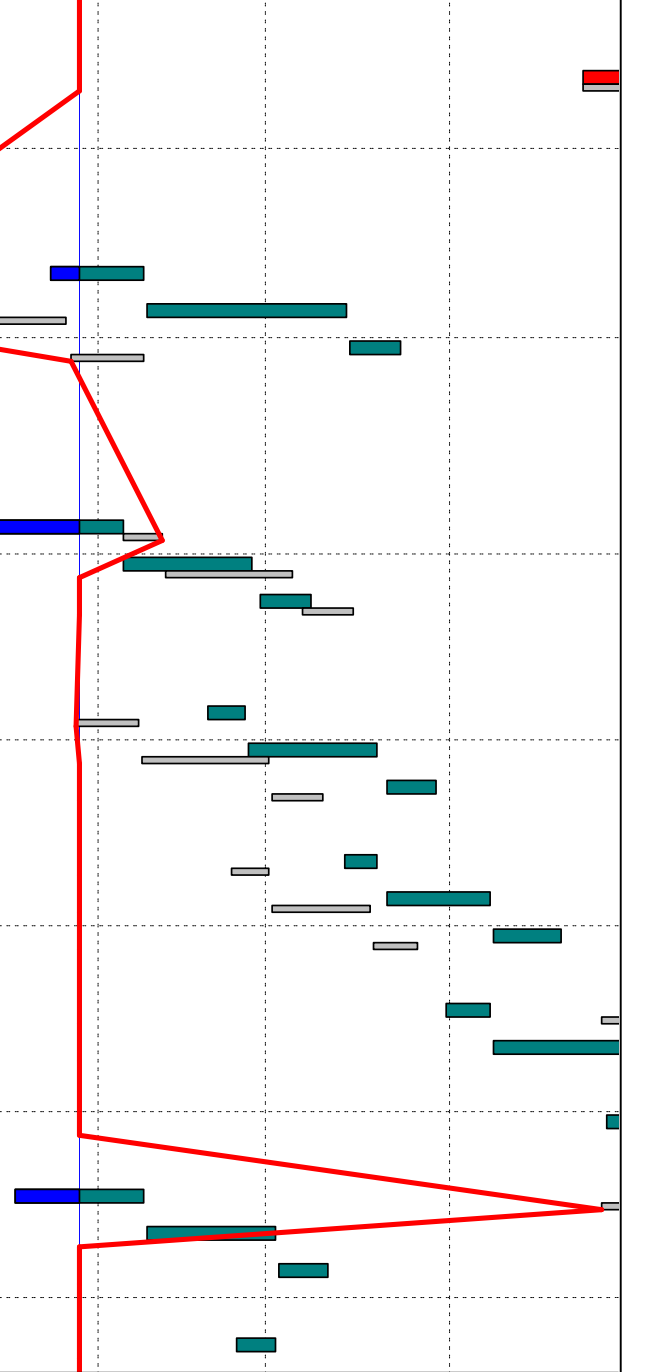
06									
P23-BP40.10	BP - Excavation	23-Feb-22	01-Mar-22	6	14-Mar-22	19-Mar-22	67	0%	
P23-BP40.20	BP - RCD Drilling	02-Mar-22	18-Mar-22	15	21-Mar-22	07-Apr-22	67	0%	
P23-BP40.30	BP - Airlift, Cage Install and Concrete	19-Mar-22	26-Mar-22	7	08-Apr-22	19-Apr-22	263	0%	

09									
P23-BP64.10	BP - Excavation	26-Apr-22	03-May-22	6	31-Mar-22	07-Apr-22	67	0%	
P23-BP64.20	BP - RCD Drilling	04-May-22	26-May-22	19	08-Apr-22	04-May-22	67	0%	

10									
P23-BP62.10	BP - Excavation	20-May-22	26-May-22	6	27-Apr-22	04-May-22	67	0%	

14									
P23-BP63.10	BP - Excavation	26-Apr-22	03-May-22	16	18-Jan-22 A	08-Feb-22	131	0%	
P23-BP63.20	BP - RCD Drilling	04-May-22	26-May-22	19	09-Feb-22	02-Mar-22	131	0%	
P23-BP63.30	BP - Airlift, Cage Install and Concrete	27-May-22	06-Jun-22	8	03-Mar-22	11-Mar-22	149	0%	

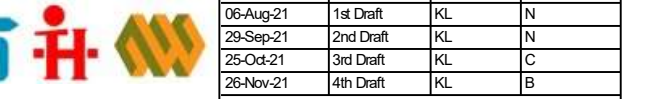
15									
P23-BP52.10	BP - Excavation	20-May-22	26-May-22	6	24-Feb-22	02-Mar-22	131	0%	



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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06-Aug-21	1st Draft	KL	N
29-Sep-21	2nd Draft	KL	N
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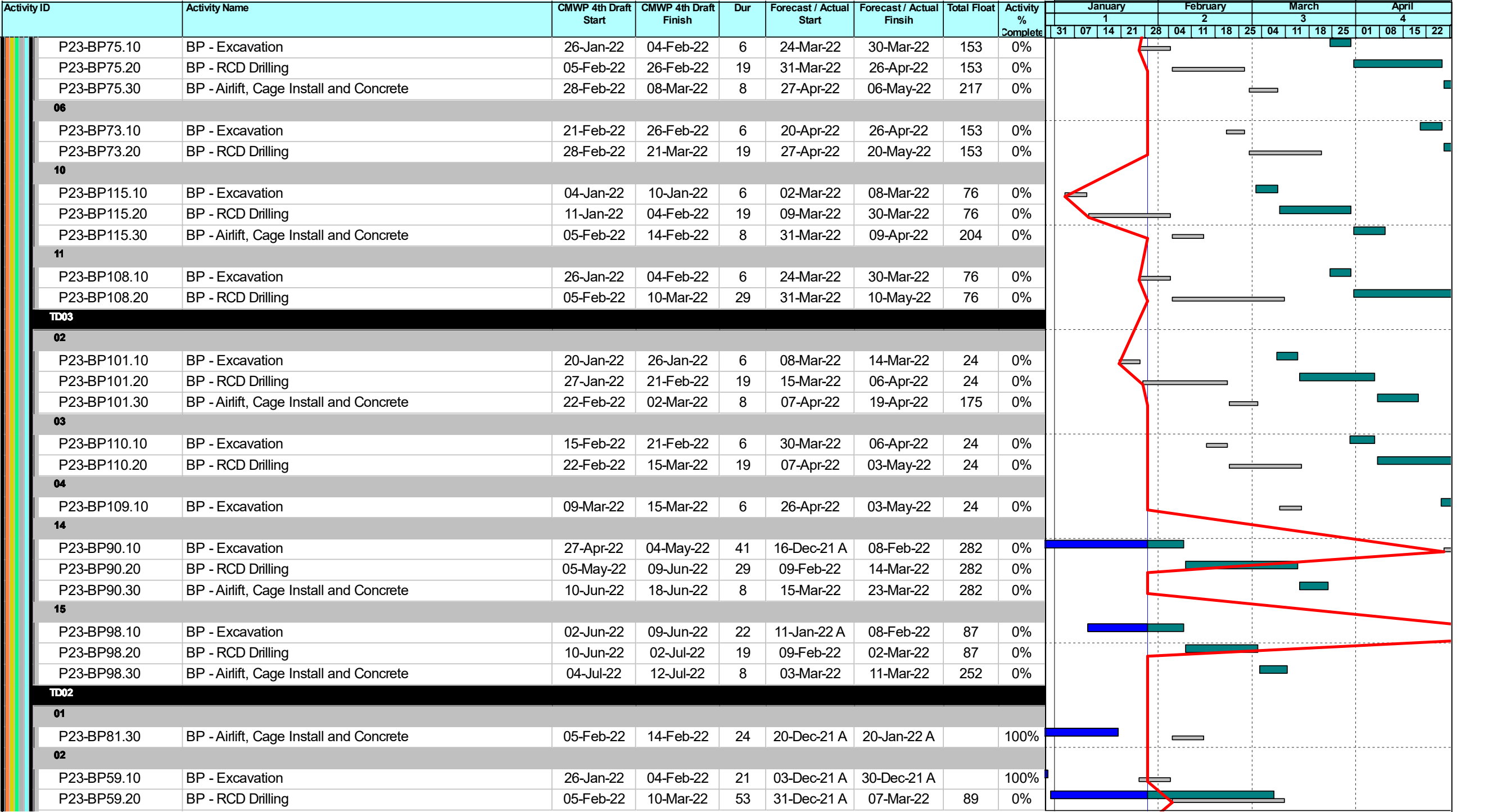
Activity ID	Activity Name	CMWP 4th Draft Start	CMWP 4th Draft Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	January				February				March				April			
									1				2				3				4			
									31	07	14	21	28	04	11	18	25	04	11	18	25	01	08	15
P18-BP36.20	BP - RCD Drilling	29-Dec-21	15-Jan-22	15	09-Feb-22	25-Feb-22	43	0%																
P18-BP36.30	BP - Airlift, Cage Install and Concrete	17-Jan-22	24-Jan-22	7	26-Feb-22	05-Mar-22	185	0%																
02																								
P18-BP40.10	BP - Excavation	10-Jan-22	15-Jan-22	6	19-Feb-22	25-Feb-22	43	0%																
P18-BP40.20	BP - RCD Drilling	17-Jan-22	05-Feb-22	15	26-Feb-22	15-Mar-22	43	0%																
P18-BP40.30	BP - Airlift, Cage Install and Concrete	07-Feb-22	14-Feb-22	7	16-Mar-22	23-Mar-22	177	0%																
03																								
P18-BP38.10	BP - Excavation	27-Jan-22	05-Feb-22	6	09-Mar-22	15-Mar-22	43	0%																
P18-BP38.20	BP - RCD Drilling	07-Feb-22	28-Feb-22	19	16-Mar-22	07-Apr-22	43	0%																
P18-BP38.30	BP - Airlift, Cage Install and Concrete	01-Mar-22	09-Mar-22	8	08-Apr-22	20-Apr-22	165	0%																
04																								
P18-BP33.10	BP - Excavation	22-Feb-22	28-Feb-22	6	31-Mar-22	07-Apr-22	43	0%																
P18-BP33.20	BP - RCD Drilling	01-Mar-22	17-Mar-22	15	08-Apr-22	28-Apr-22	43	0%																
05																								
P18-BP28.10	BP - Excavation	11-Mar-22	17-Mar-22	6	22-Apr-22	28-Apr-22	43	0%																
TD05																								
01																								
P18-BP48.10	BP - Excavation	20-Dec-21	28-Dec-21	6	29-Jan-22	08-Feb-22	72	0%																
P18-BP48.20	BP - RCD Drilling	29-Dec-21	15-Jan-22	15	09-Feb-22	25-Feb-22	72	0%																
P18-BP48.30	BP - Airlift, Cage Install and Concrete	17-Jan-22	24-Jan-22	7	26-Feb-22	05-Mar-22	202	0%																
02																								
P18-BP60.10	BP - Excavation	10-Jan-22	15-Jan-22	6	19-Feb-22	25-Feb-22	72	0%																
P18-BP60.20	BP - RCD Drilling	17-Jan-22	10-Feb-22	19	26-Feb-22	19-Mar-22	72	0%																
P18-BP60.30	BP - Airlift, Cage Install and Concrete	11-Feb-22	19-Feb-22	8	21-Mar-22	29-Mar-22	190	0%																
03																								
P18-BP63.10	BP - Excavation	04-Feb-22	10-Feb-22	6	14-Mar-22	19-Mar-22	72	0%																
P18-BP63.20	BP - RCD Drilling	11-Feb-22	04-Mar-22	19	21-Mar-22	12-Apr-22	72	0%																
P18-BP63.30	BP - Airlift, Cage Install and Concrete	05-Mar-22	14-Mar-22	8	13-Apr-22	25-Apr-22	179	0%																
04																								
P18-BP62.10	BP - Excavation	26-Feb-22	04-Mar-22	6	06-Apr-22	12-Apr-22	72	0%																
P18-BP62.20	BP - RCD Drilling	05-Mar-22	26-Mar-22	19	13-Apr-22	10-May-22	72	0%																
TD04																								
04																								
P23-BP107.10	BP - Excavation	04-Jan-22	10-Jan-22	6	02-Mar-22	08-Mar-22	153	0%																
P23-BP107.20	BP - RCD Drilling	11-Jan-22	04-Feb-22	19	09-Mar-22	30-Mar-22	153	0%																
P23-BP107.30	BP - Airlift, Cage Install and Concrete	05-Feb-22	14-Feb-22	8	31-Mar-22	09-Apr-22	228	0%																
05																								

	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	Planned Bar		Milestone
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C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
Air Quality Impact (Construction)							
2.1	General Dust Control Measures Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	✓	✓	✓	✓	✓	✓
2.1	Best Practice For Dust Control The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include: <i>Good Site Management</i> <ul style="list-style-type: none"> 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. 	Obs	Obs	✓	✓	Rem	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<i>Disturbed Parts of the Roads</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	Obs	✓	✓	✓	✓	✓
	<i>Exposed Earth</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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. 						
	<i>Loading, Unloading or Transfer of Dusty Materials</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 						
	<i>Debris Handling</i>	✓	✓	✓	Obs, Rem	Rem	Rem
	<ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	N/A	N/A	N/A	N/A	N/A	N/A
	<i>Transport of Dusty Materials</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 						

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<i>Wheel washing</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 						
	<i>Use of vehicles</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓	✓	✓	✓	✓	✓
	<i>Site hoarding</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 						

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

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:

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<i>Exhaust from Dust Arrestment Plant</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> 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 						
	<i>Emission Limits</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 						
	<i>Engineering Design/Technical Requirements</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 						
	Non-Road Mobile Machinery (NRMM): All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	Obs	✓	✓	✓	✓	✓
Noise Impact (Construction)							
3.1	Good Site Practice						
	<ul style="list-style-type: none"> Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction: only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; mobile plant should be sited as far away from NSRs as possible; and material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	✓	✓	✓	✓
3.1	<p>Adoption of Quieter PME</p> <p>The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.</p>	✓	✓	✓	✓	✓	✓
3.1	<p>Use of Movable Noise Barriers</p> <p>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.</p>	Obs	✓	✓	Obs	✓	✓
3.1	<p>Use of Noise Enclosure/ Acoustic Shed</p> <p>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.</p>	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
3.1	<p>Use of Noise Insulating Fabric</p> <p>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.</p>	✓	✓	✓	Obs	✓	Obs
3.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
Water Quality Impact (Construction)							
4.1	<p>Construction site runoff and drainage</p> <p>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:</p> <ul style="list-style-type: none"> 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; 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	Rem	Obs	Obs, Rem	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> 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. 	Obs	✓	✓	Obs	Rem	Rem
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	Obs	✓	Rem	✓
	<ul style="list-style-type: none"> Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A	N/A	N/A	N/A	N/A	N/A
4.1	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p> <ul style="list-style-type: none"> All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A	N/A	N/A	N/A	N/A

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A	N/A	N/A	N/A	N/A
4.1	<p>Sewage effluent from construction workforce</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
4.1	<p>General construction activities</p> <ul style="list-style-type: none"> Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	Obs	Obs	✓	✓	✓	✓
		Obs	✓	✓	✓	✓	✓
Waste Management Implications (Construction)							

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
6.1	Good Site Practices						
	<ul style="list-style-type: none"> Recommendations for good site practices during the construction activities include: Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical handling procedures Provision of sufficient waste disposal points and regular collection of waste Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓	✓	✓	✓
6.1	Waste Reduction Measures						
	<p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> Sort inert C&D material to recover any recyclable portions such as metals Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Proper site practices to minimise the potential for damage or contamination of inert C&D materials Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes 	✓	✓	✓	✓	✓	✓
6.1	<p>Inert and Non-inert C&D Materials</p> <p>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.</p> <ul style="list-style-type: none"> The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site. 	✓	✓	✓	✓	✓	✓
6.1	Chemical Waste <ul style="list-style-type: none"> 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. 	✓	✓	✓	Obs	Obs	Obs

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	✓	✓	✓	✓	✓	✓
6.1	<p>General Refuse</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
Land Contamination (Construction)							
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"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 	N/A	N/A	N/A	N/A	N/A	N/A

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
	<ul style="list-style-type: none"> Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; Speed control for trucks carrying contaminated materials should be exercised; Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A	N/A	N/A	N/A
Ecological Impact (Construction)							
No mitigation measure is required.							
Landscape and Visual Impact (Construction)							

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
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	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	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	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	N/A	N/A	N/A
Table 9.1 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A	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	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	N/A	N/A	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	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Nov 2021	Dec 2021	Jan 2022	Nov 2021	Dec 2021	Jan 2022
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	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	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	N/A	N/A

N/A - Not Applicable

✓ - Implemented

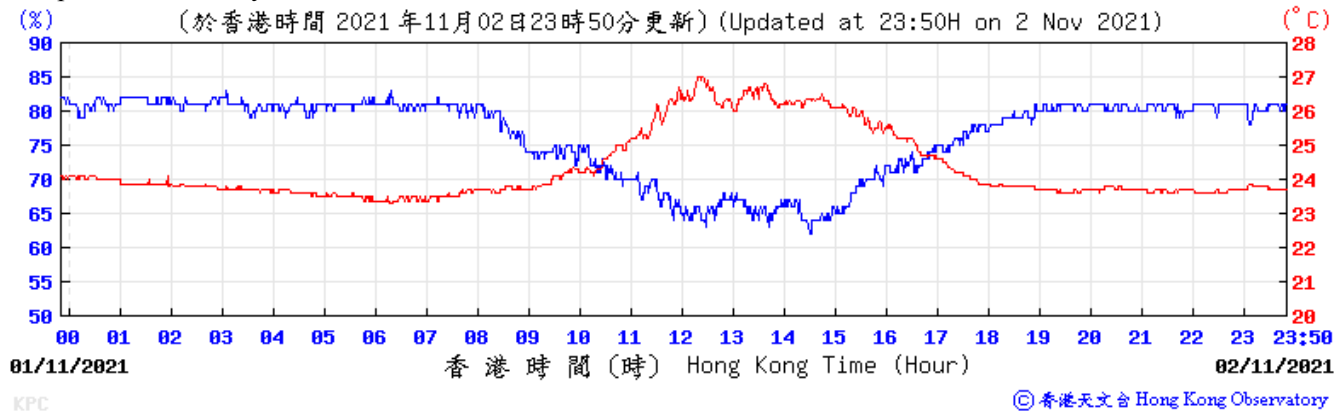
Obs - Observed

Rem - Reminder

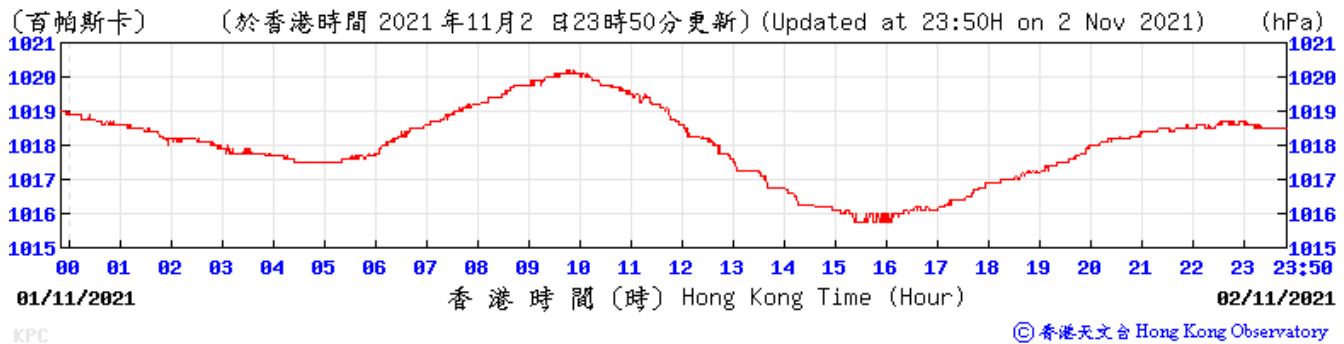
D. Meteorological Data Extracted from Hong Kong Observatory

Extract of Meteorological Observations for King's Park Automatic Weather Station, November 2021

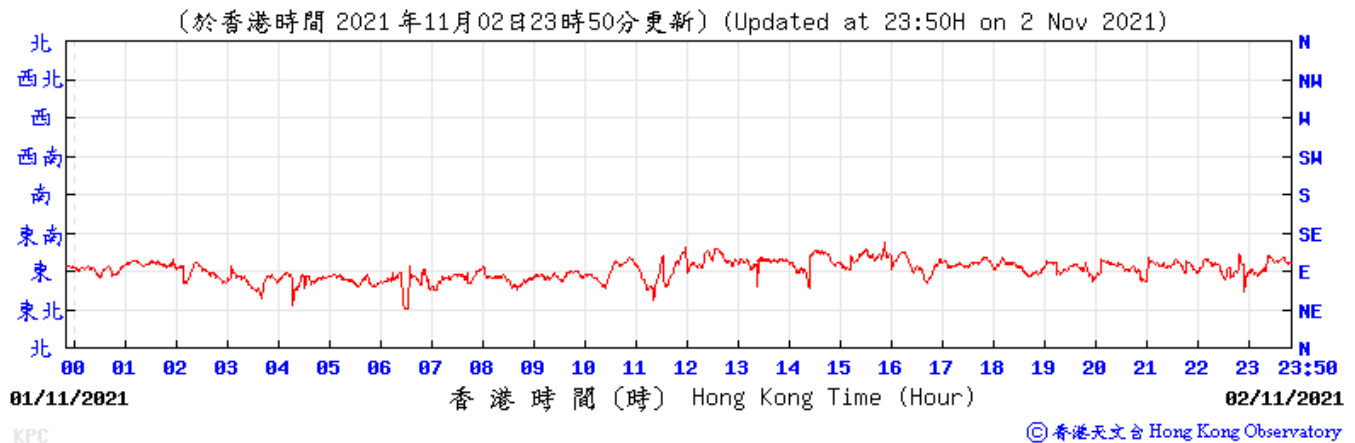
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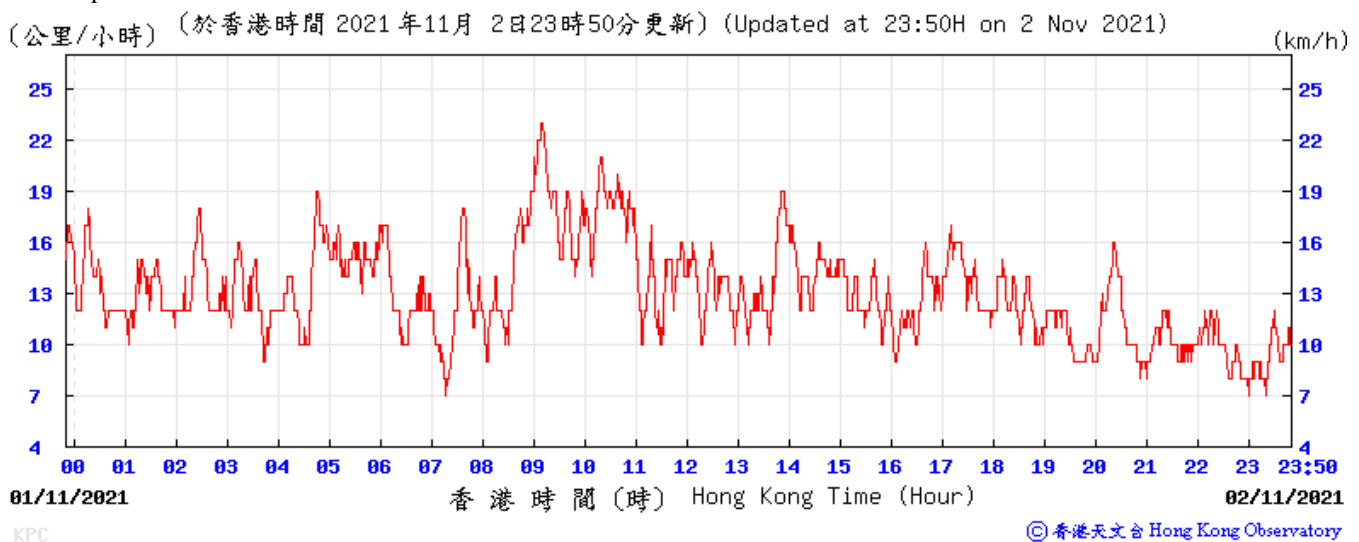
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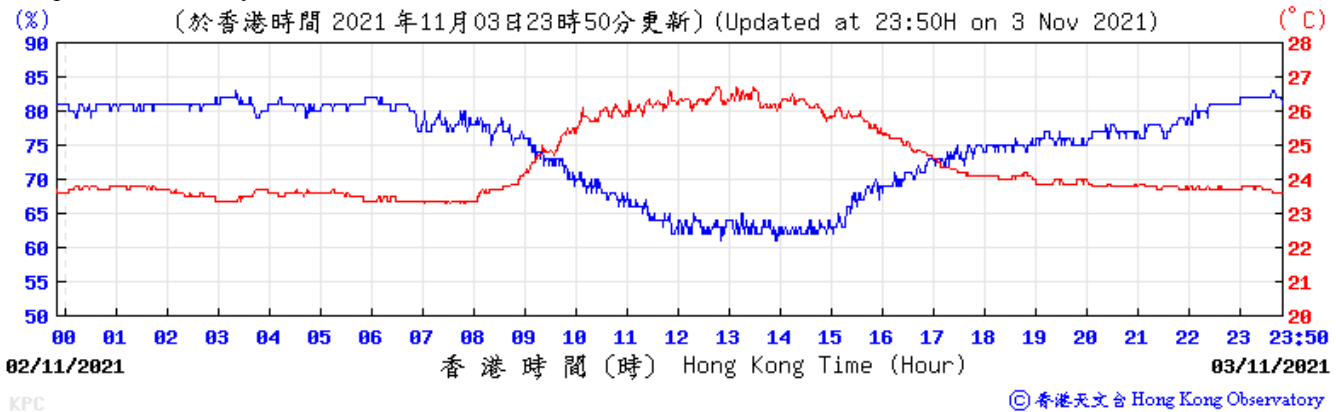
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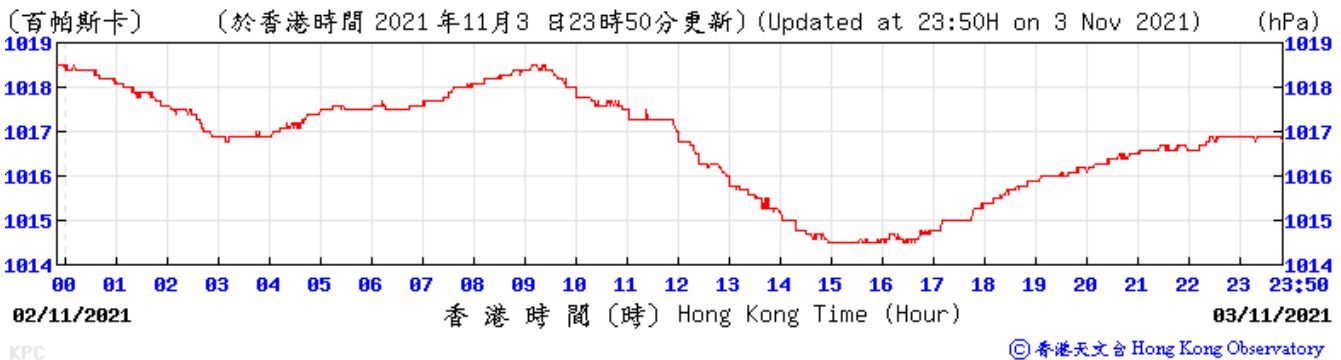
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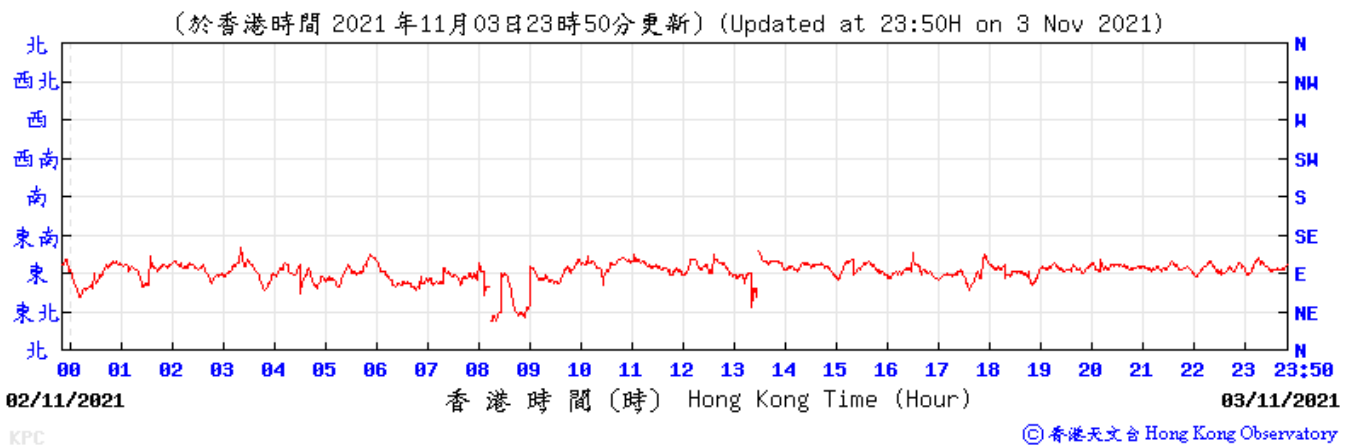
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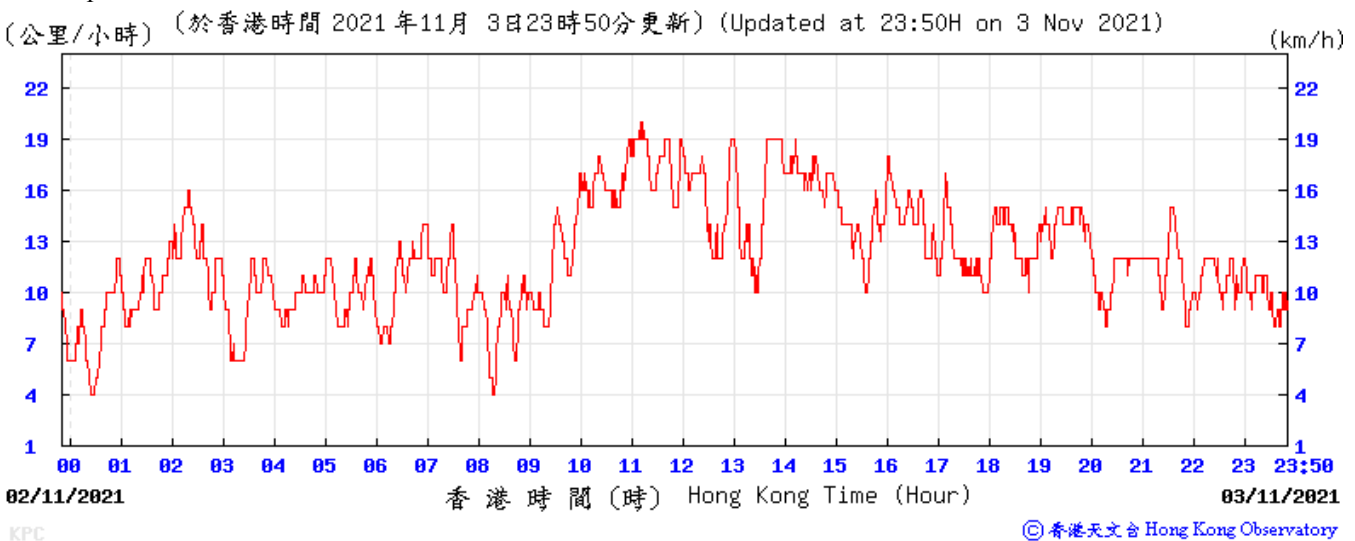
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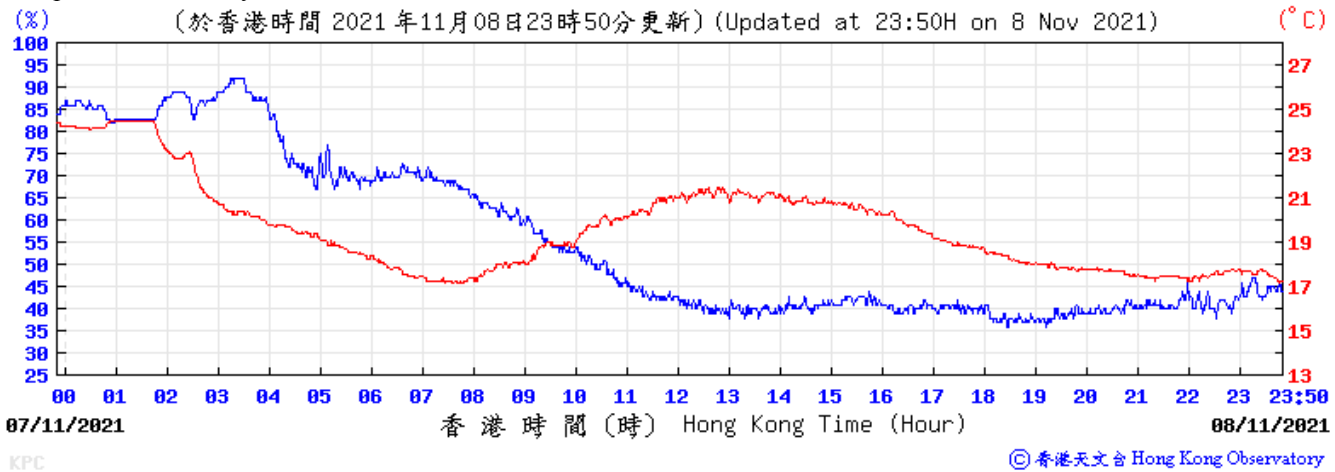
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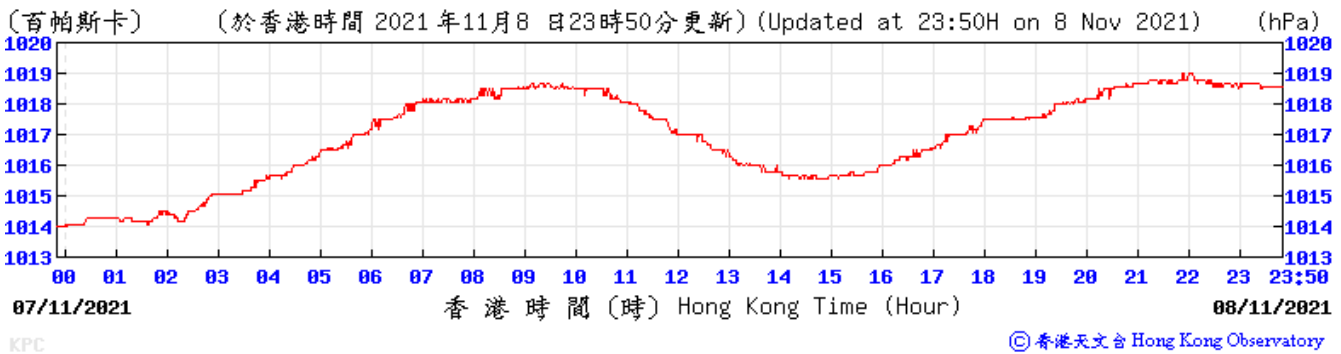
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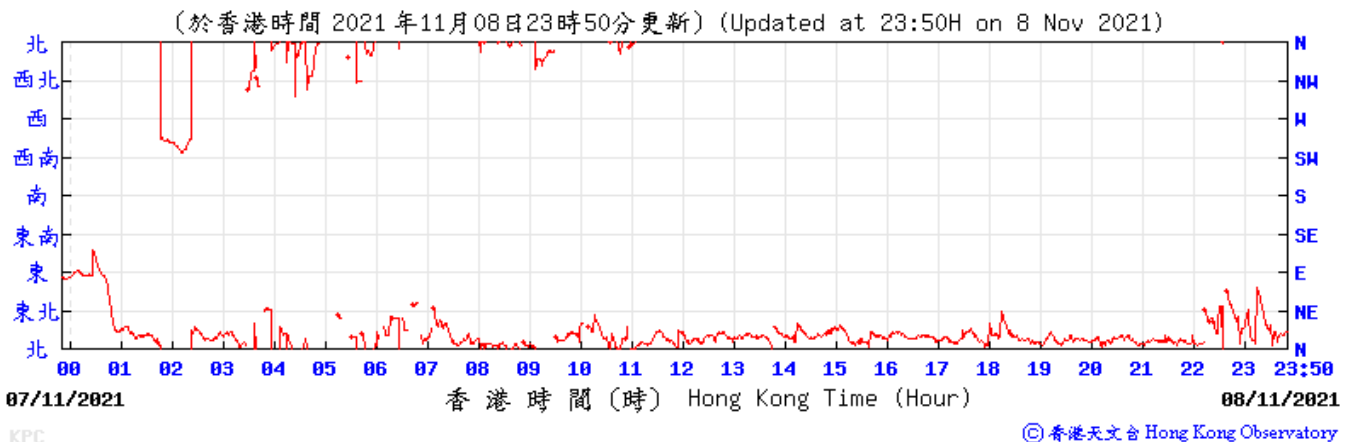
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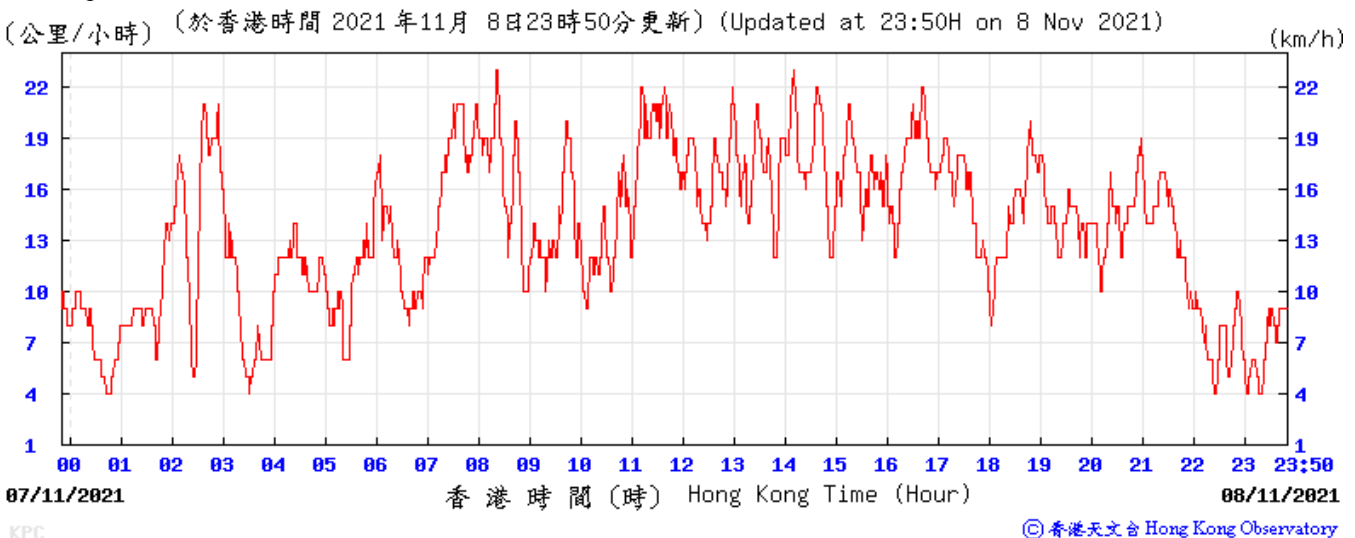
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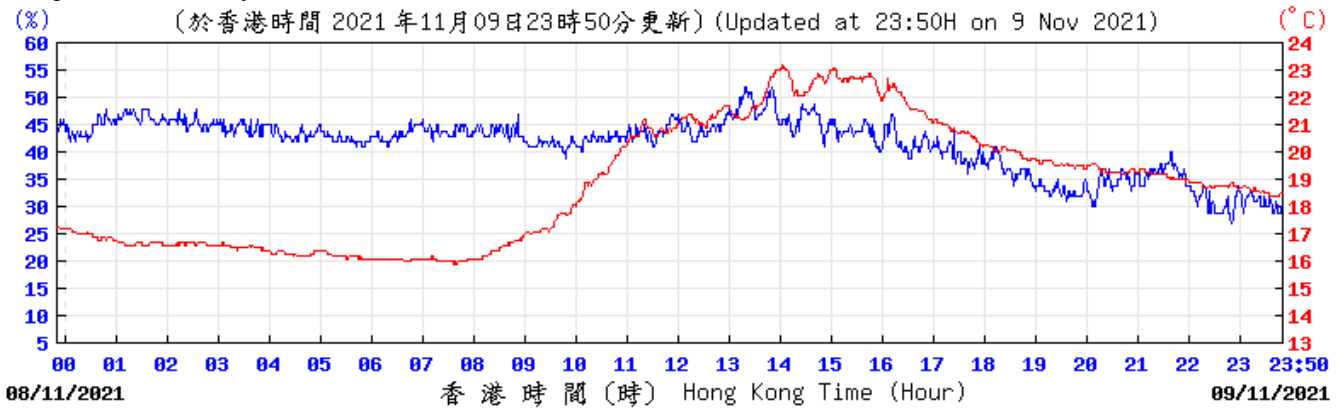
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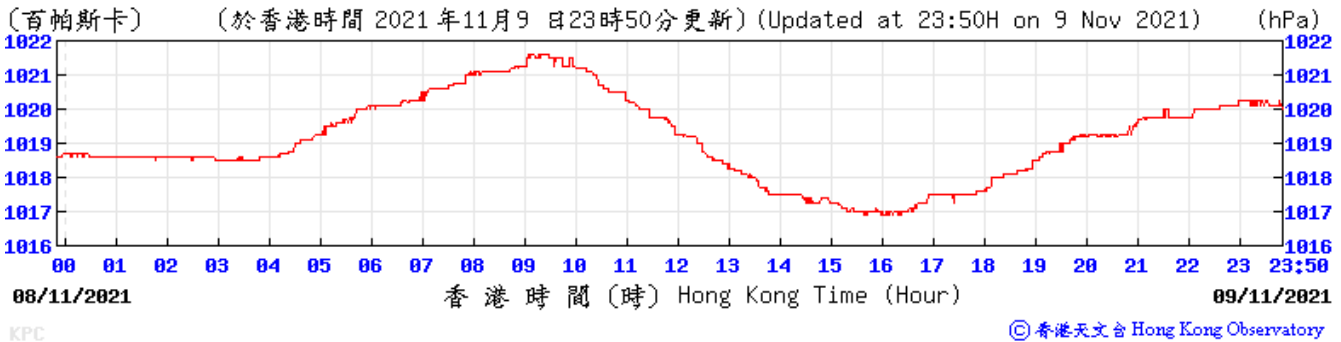
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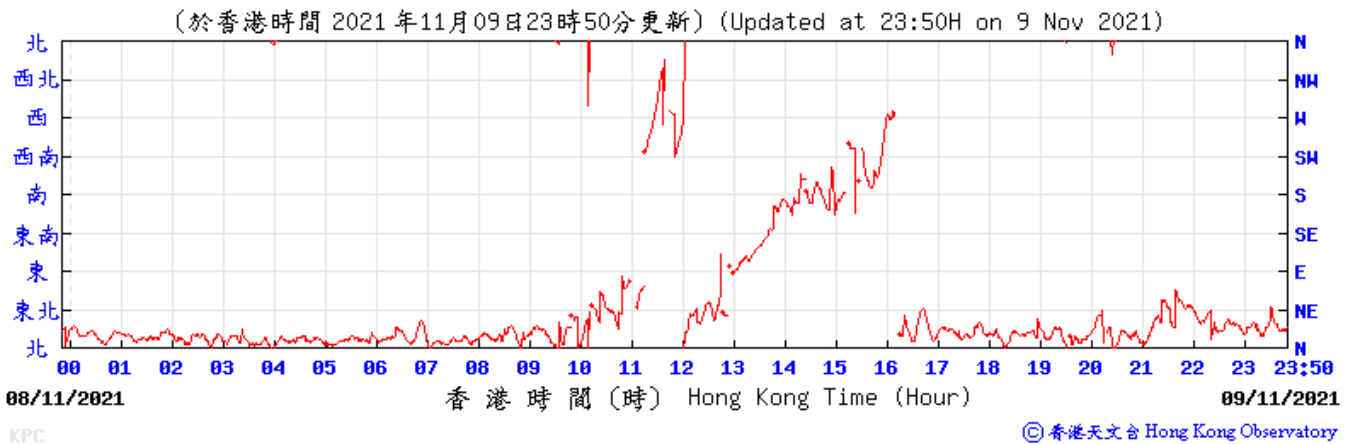
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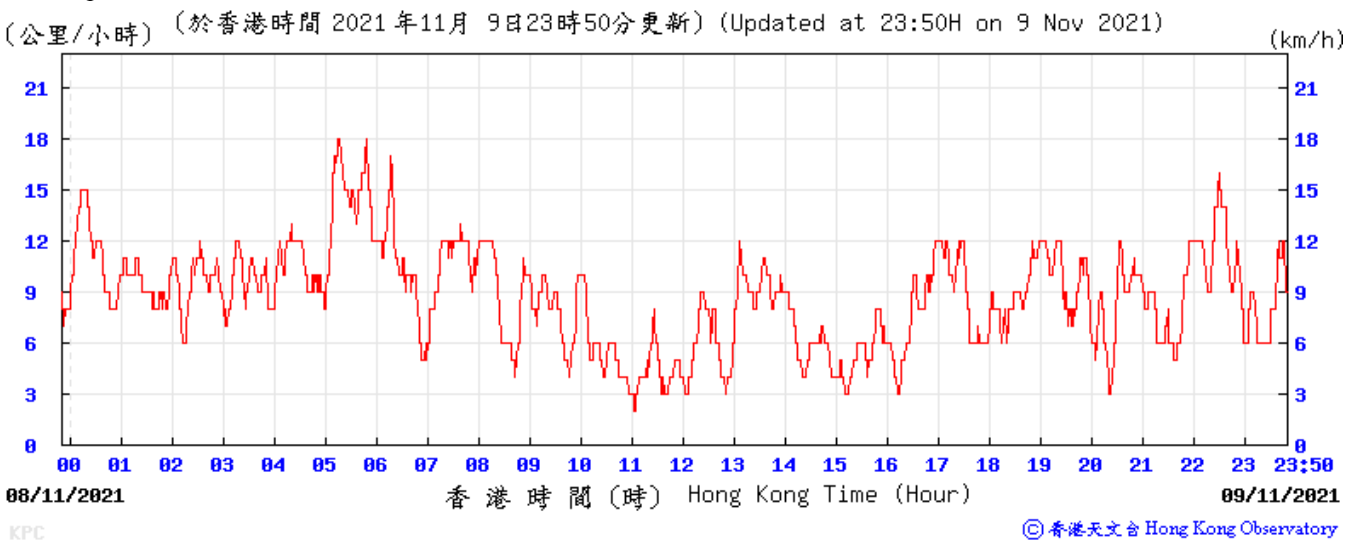
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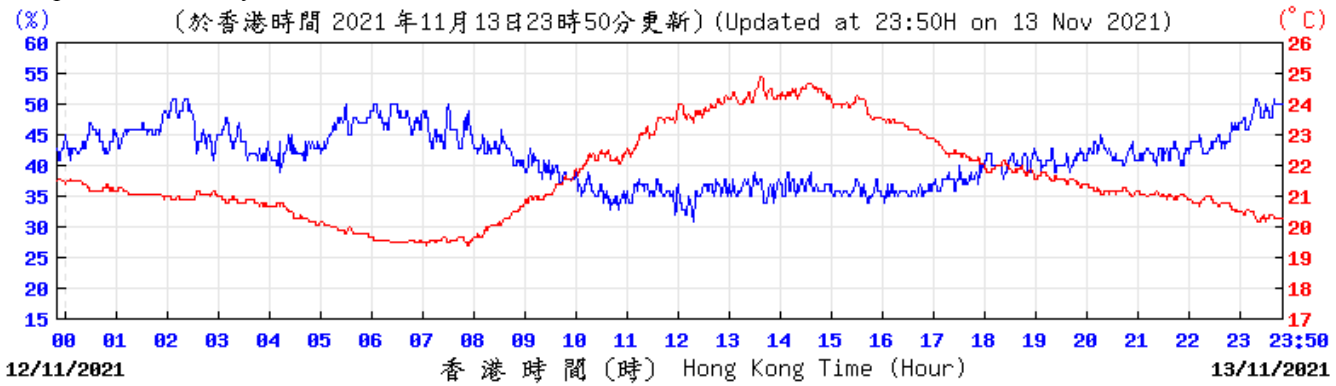
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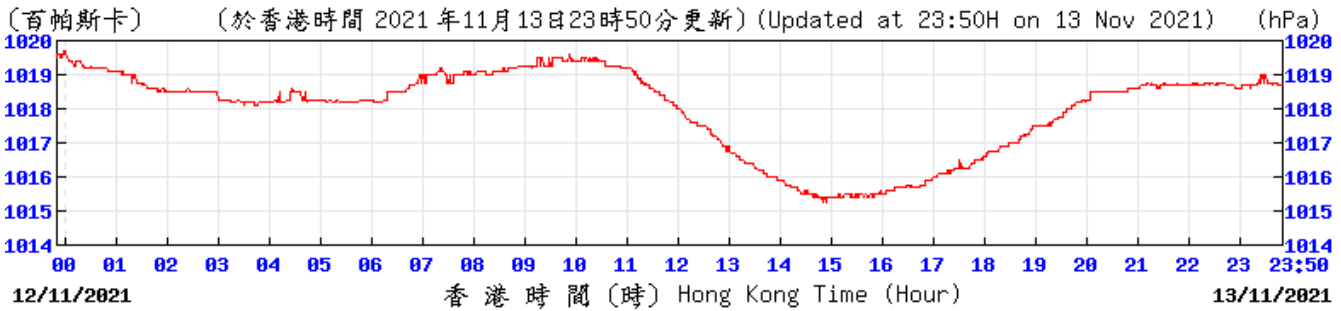


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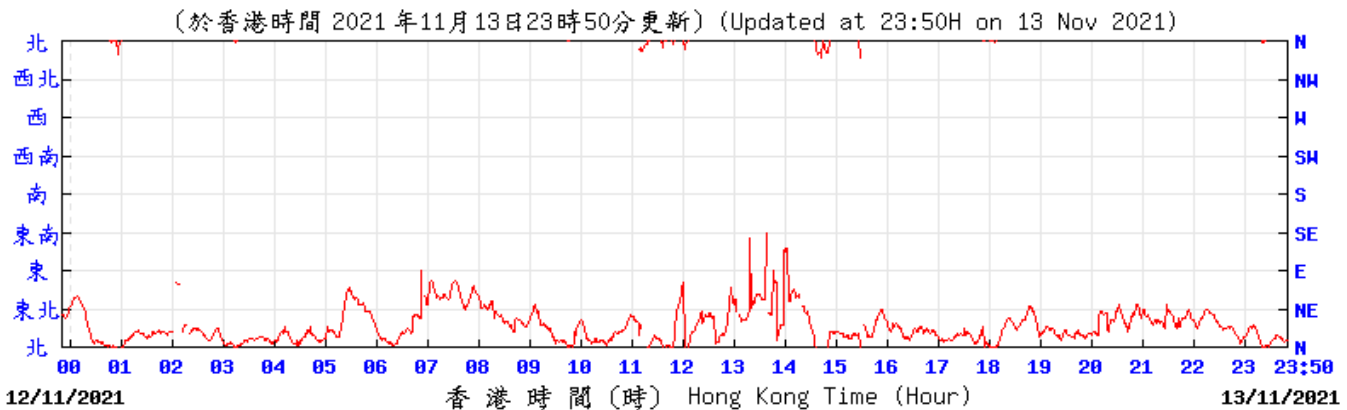
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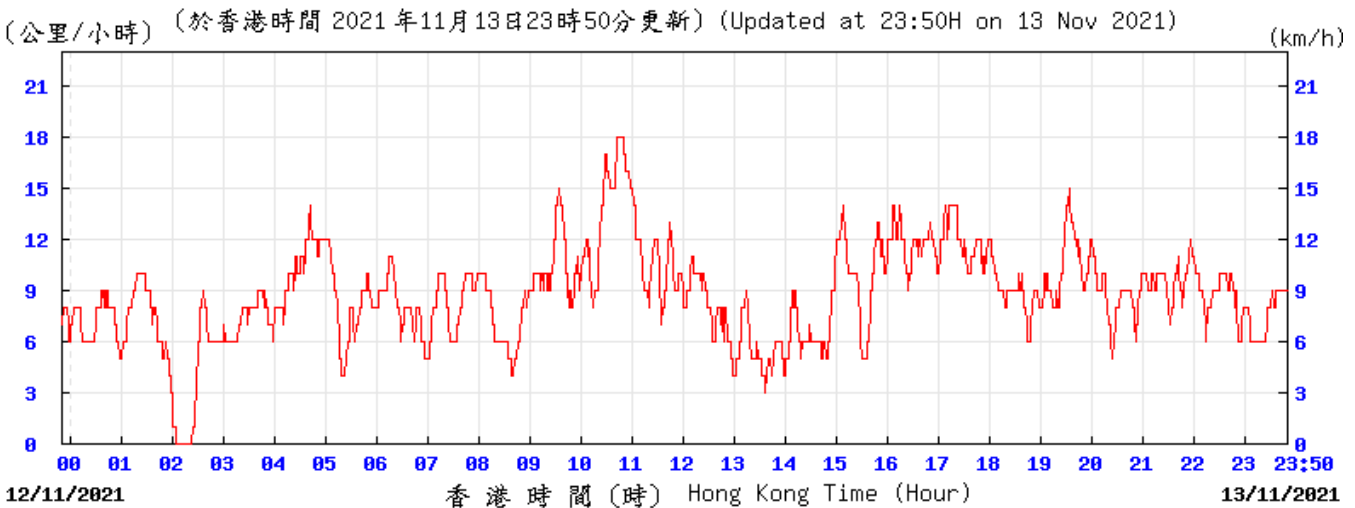
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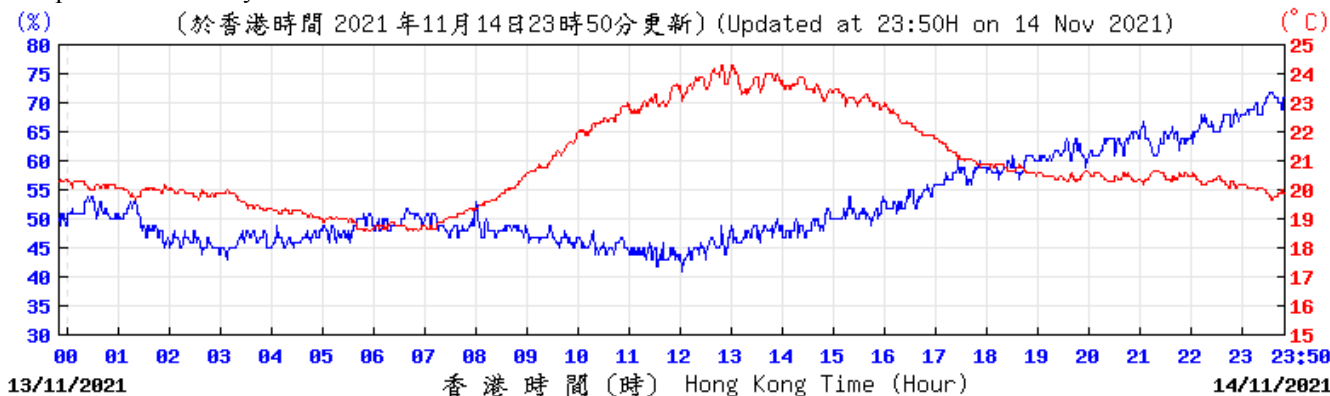
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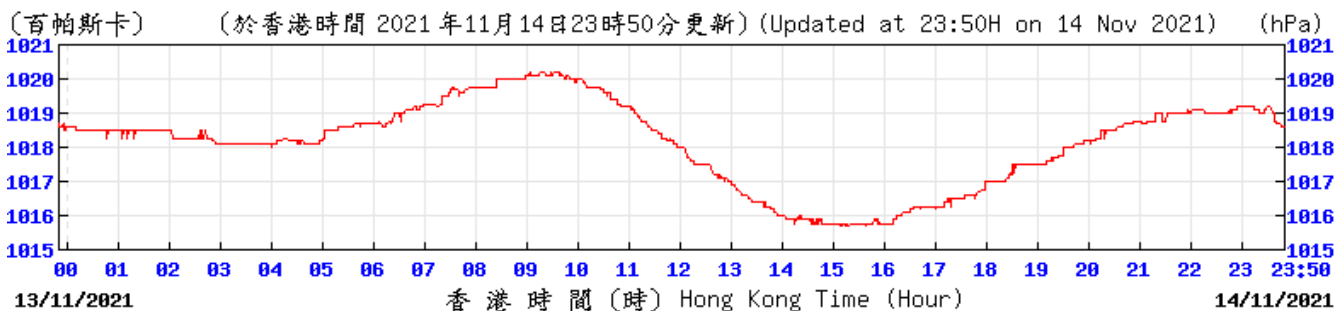
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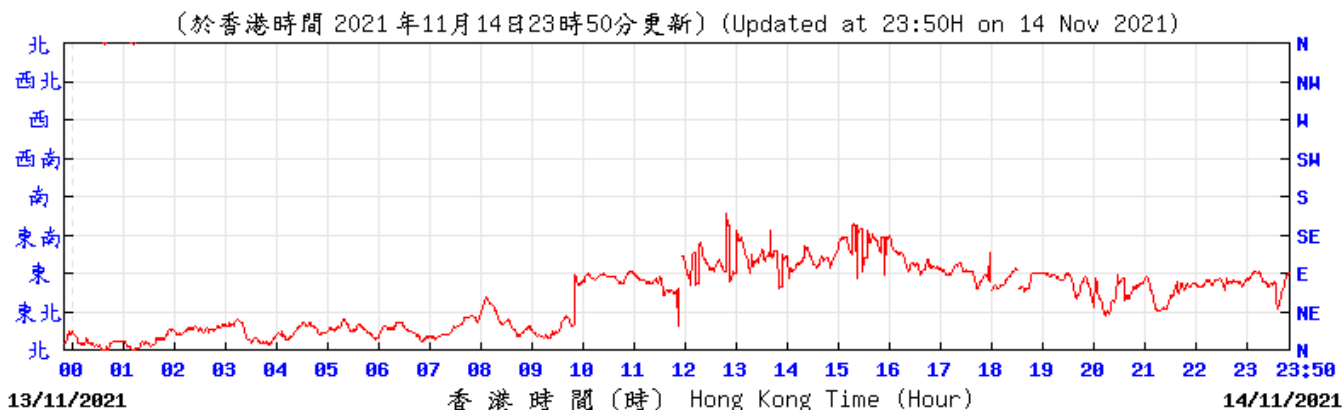
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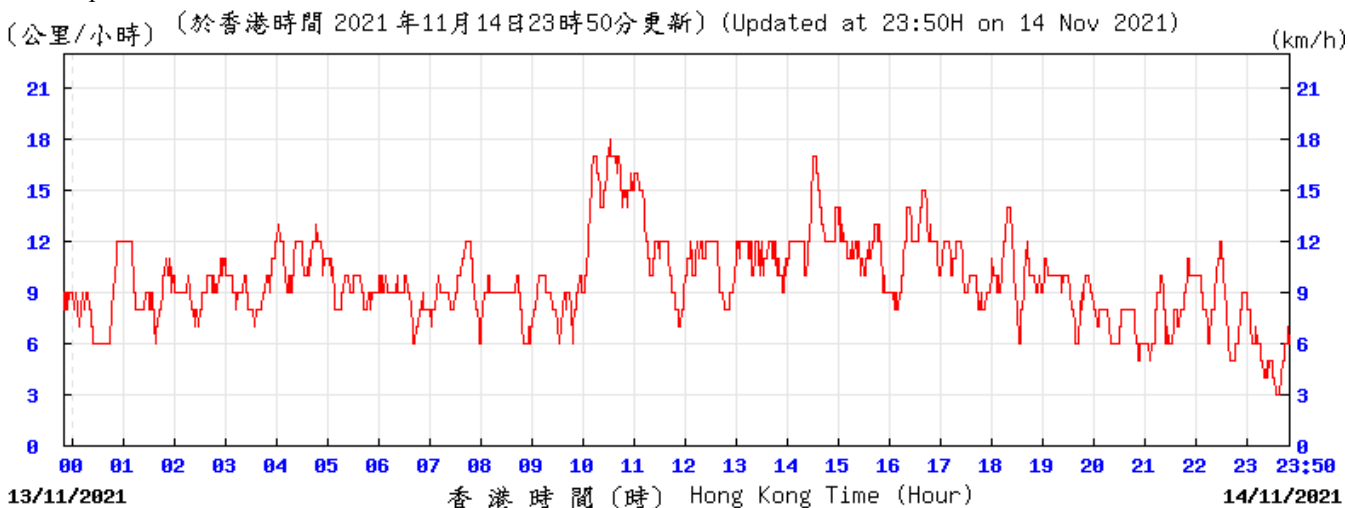
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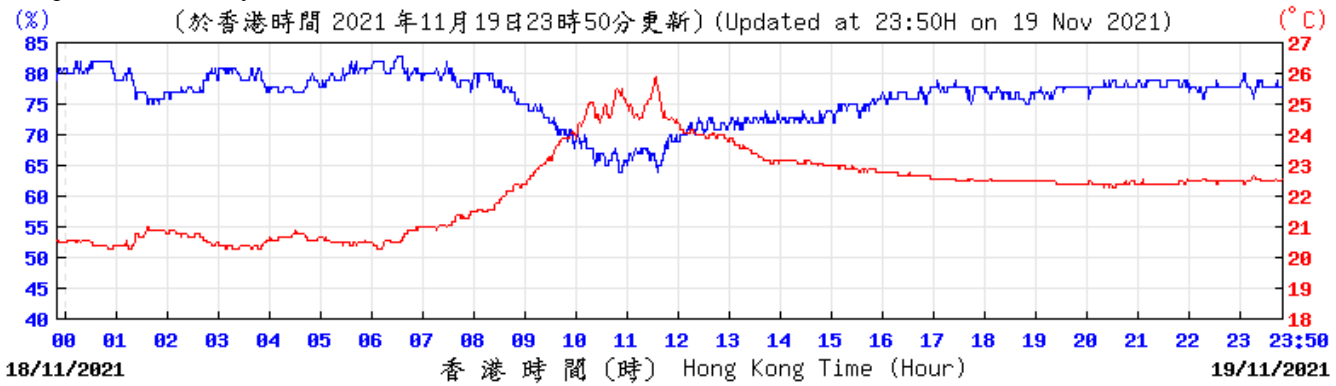
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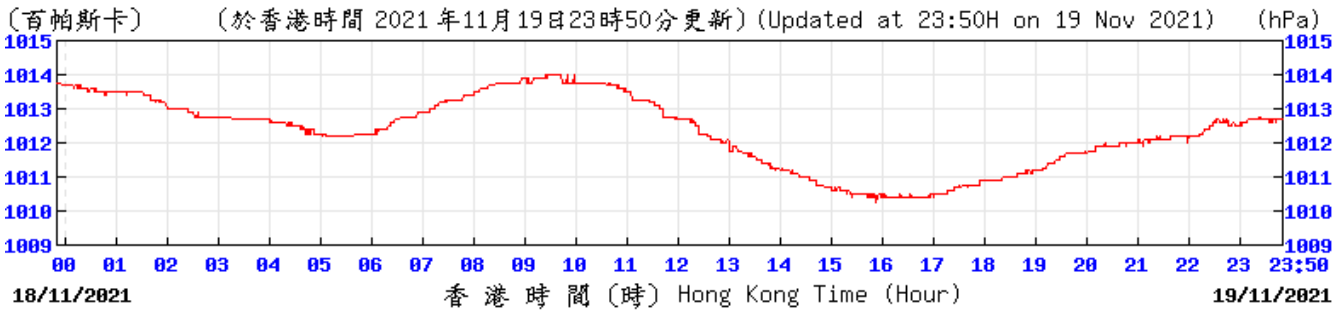
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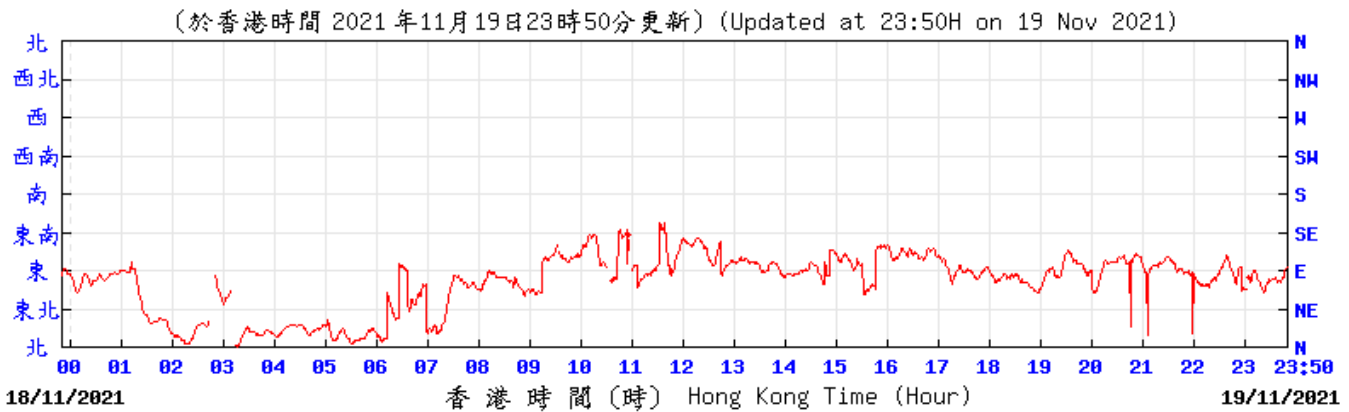
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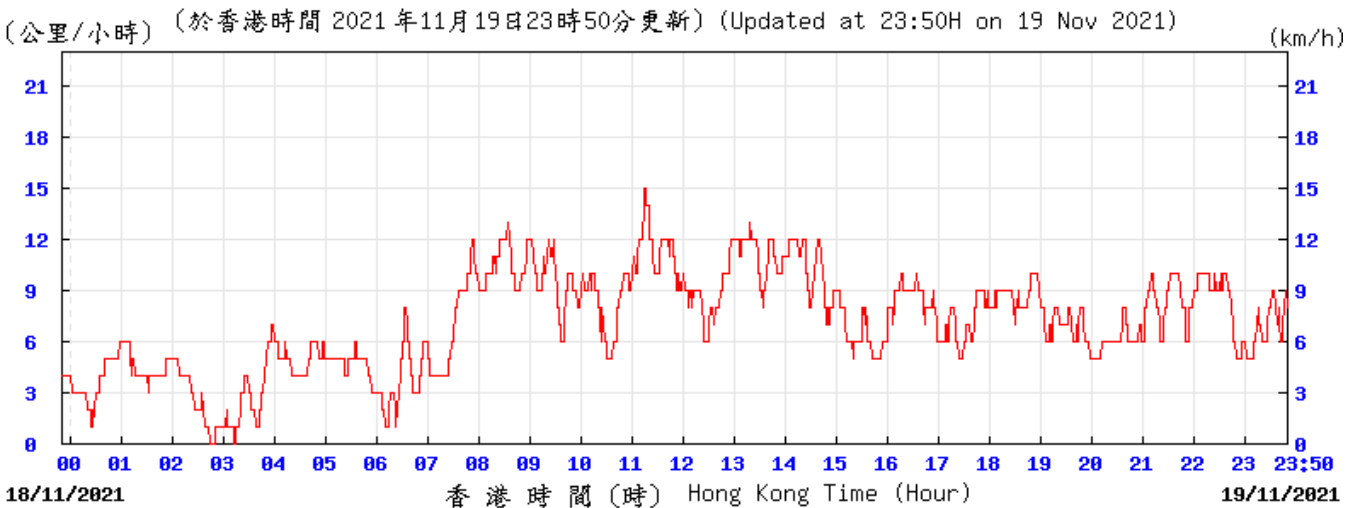
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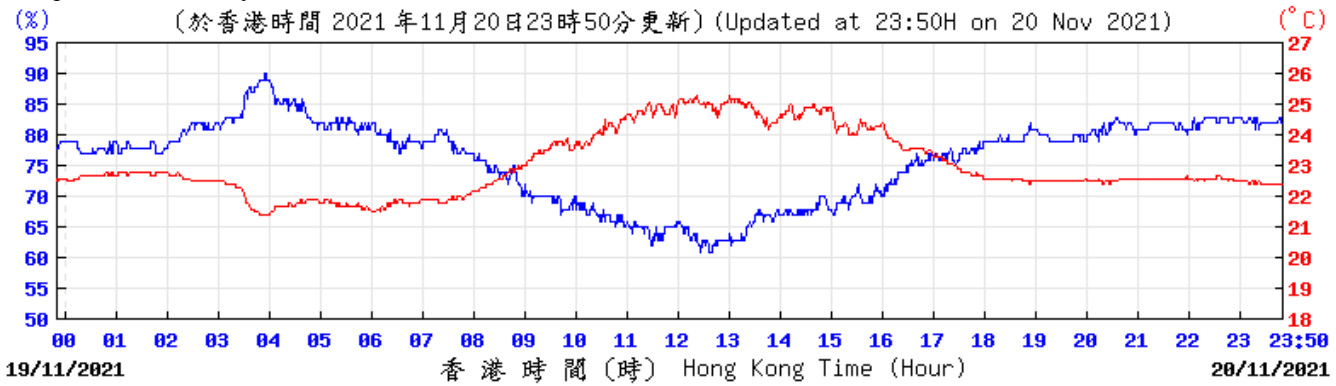
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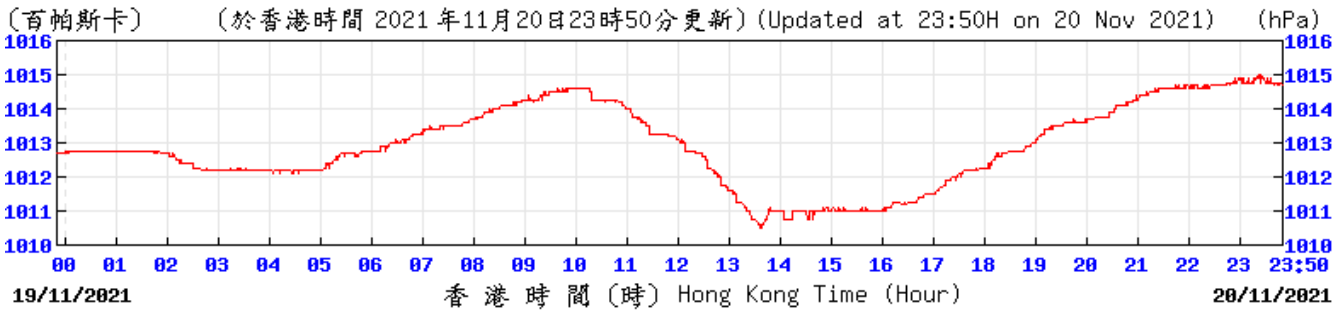
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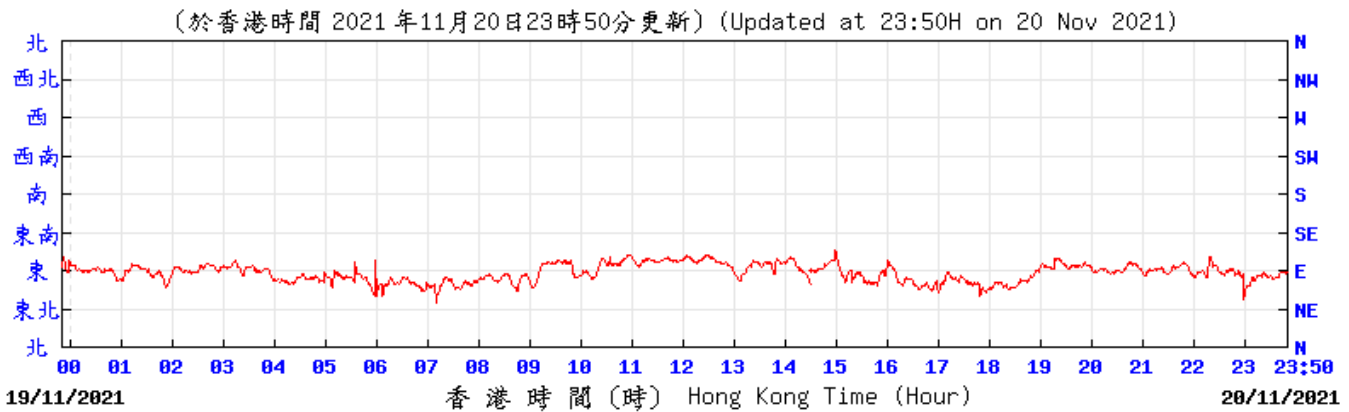
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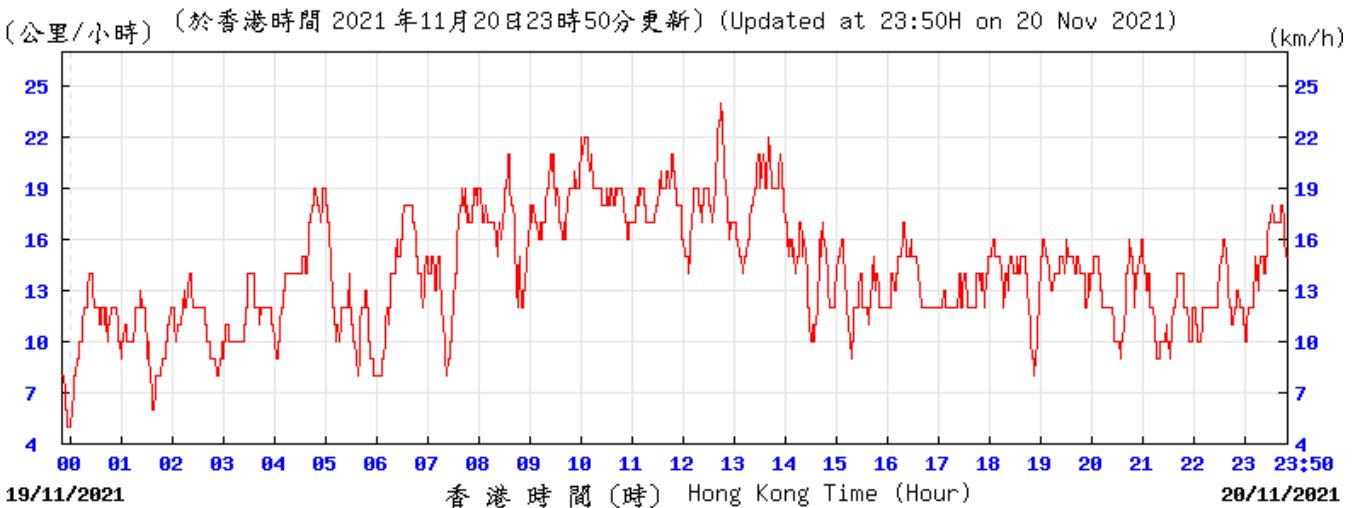
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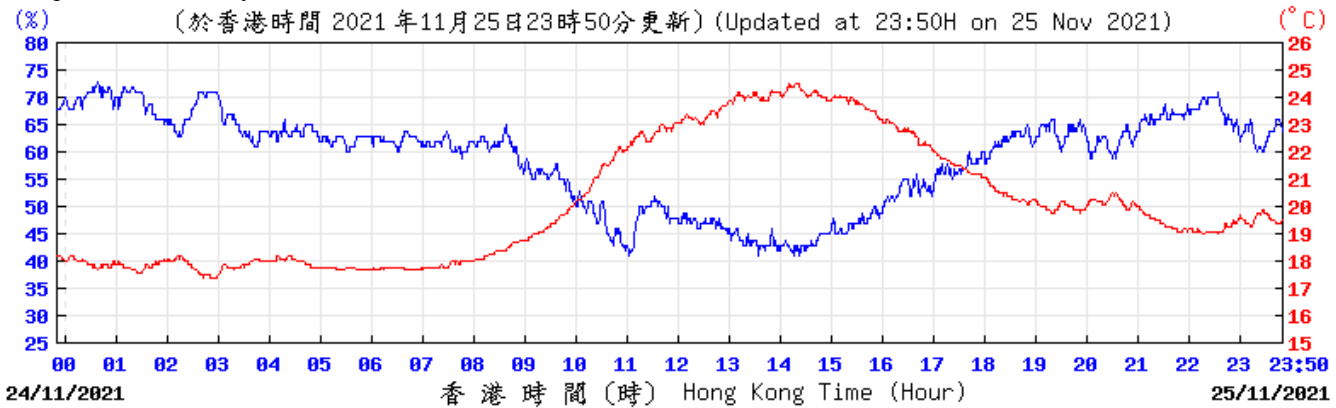
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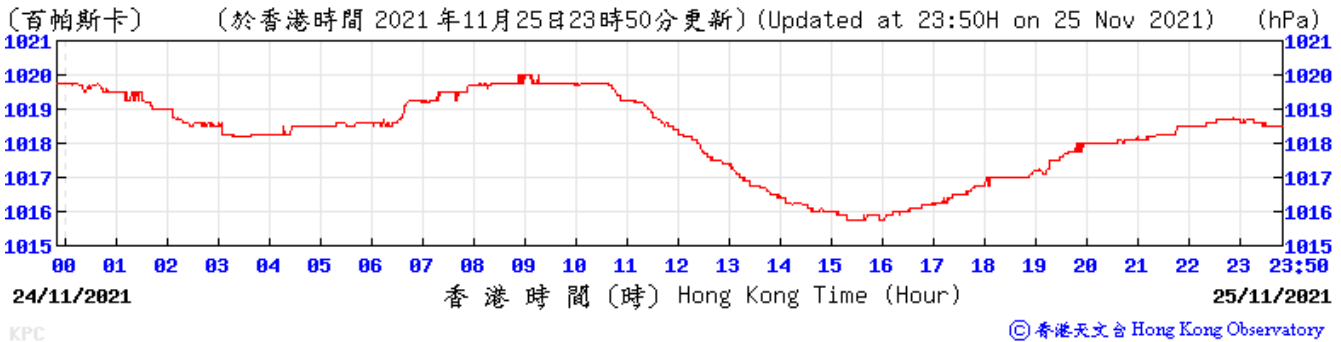


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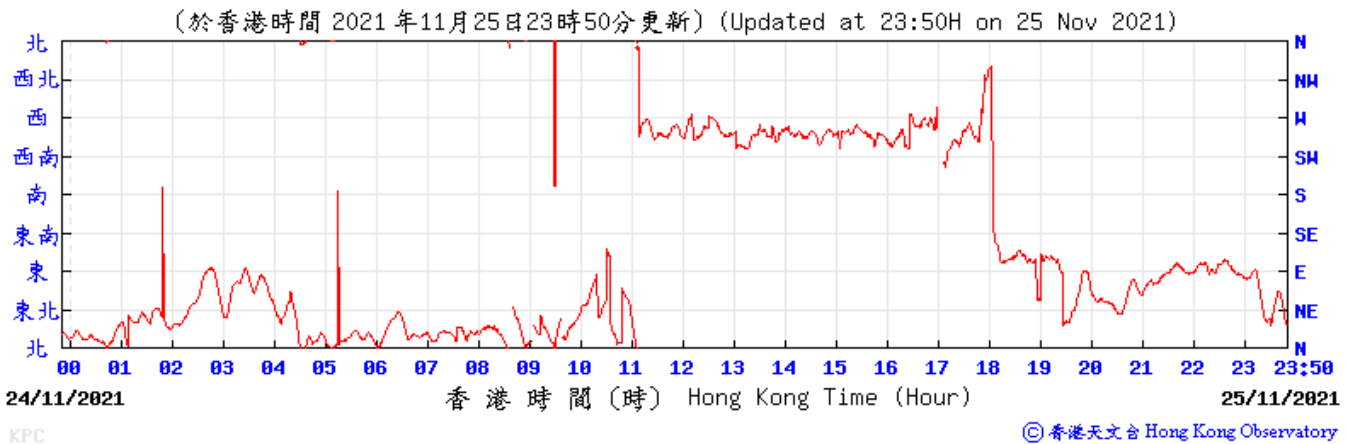
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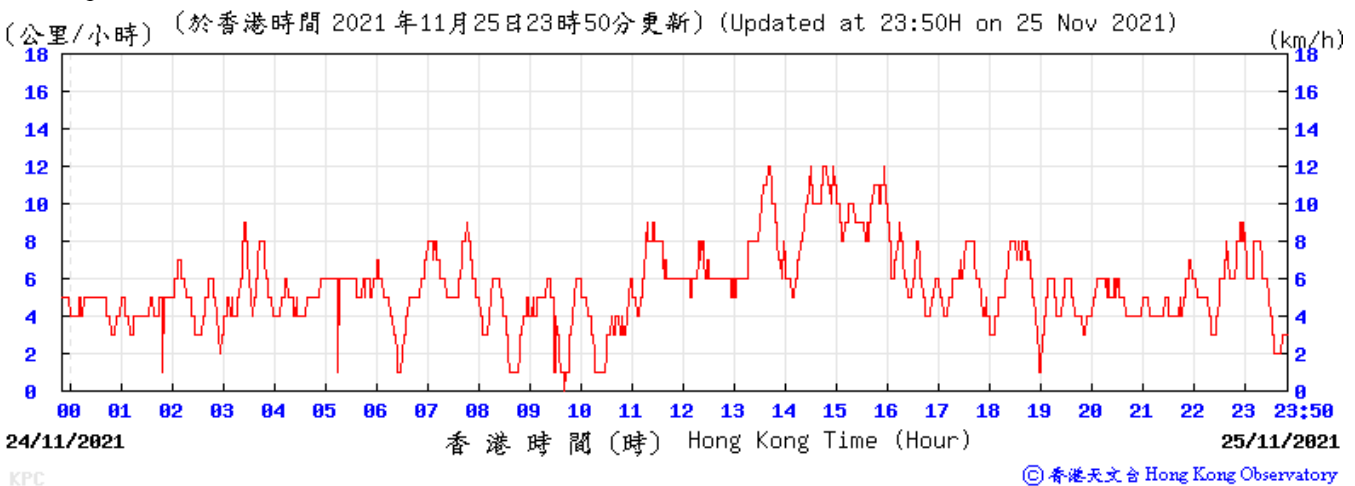
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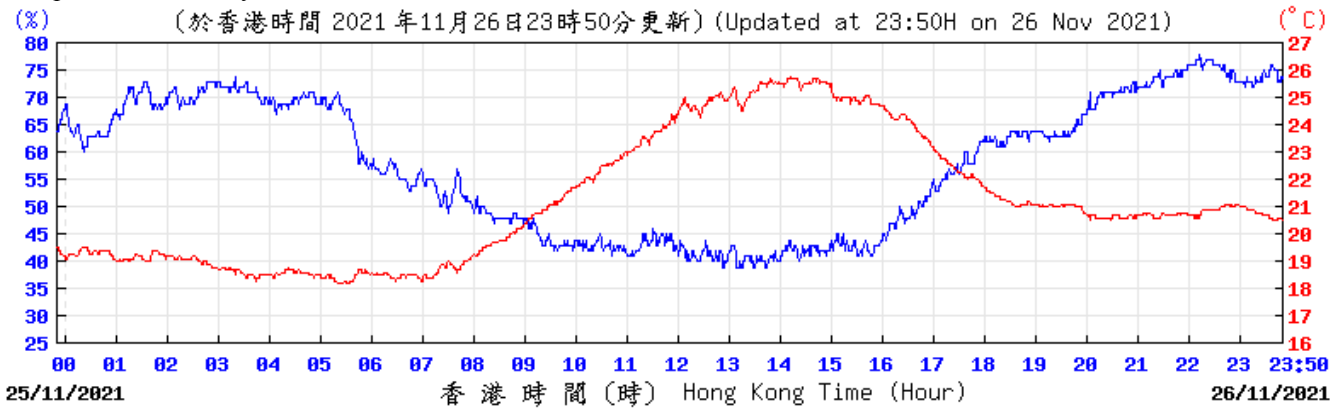
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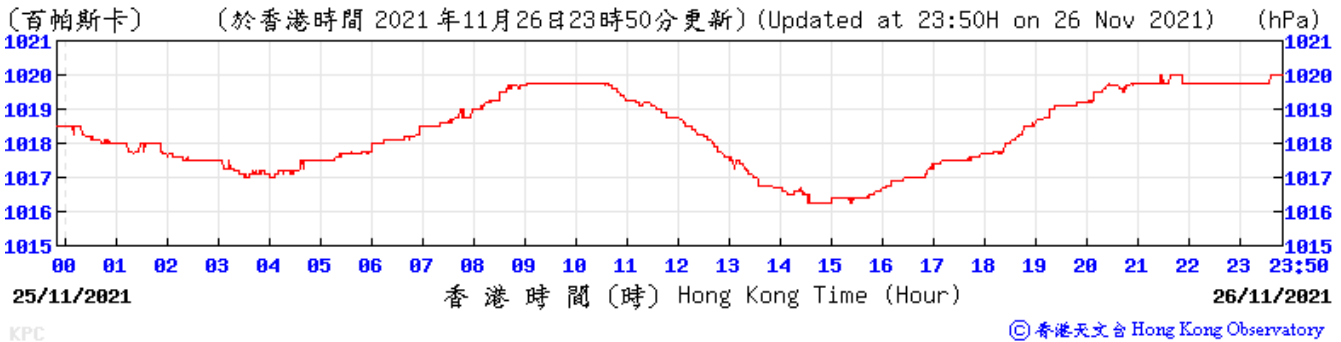
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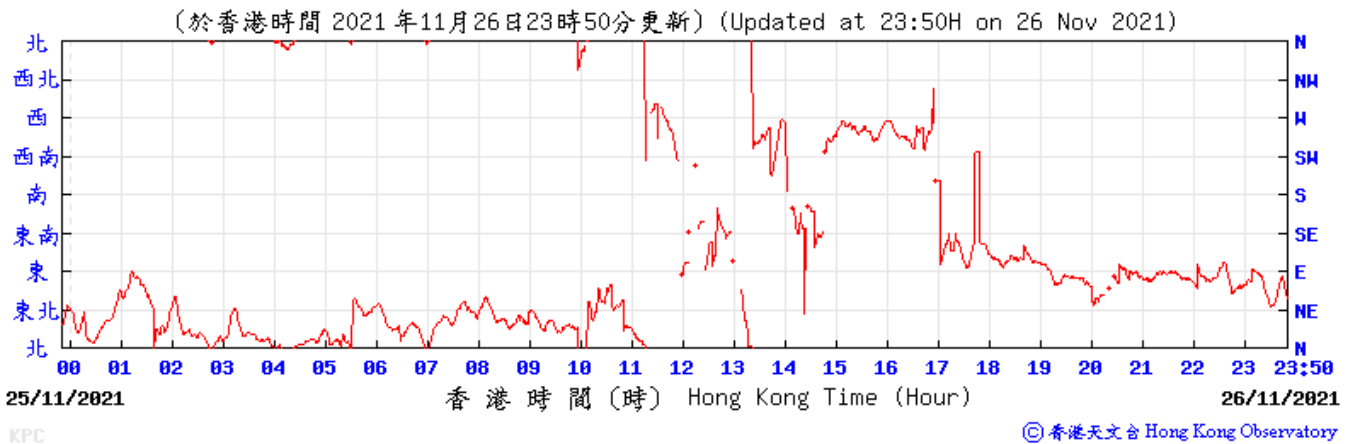
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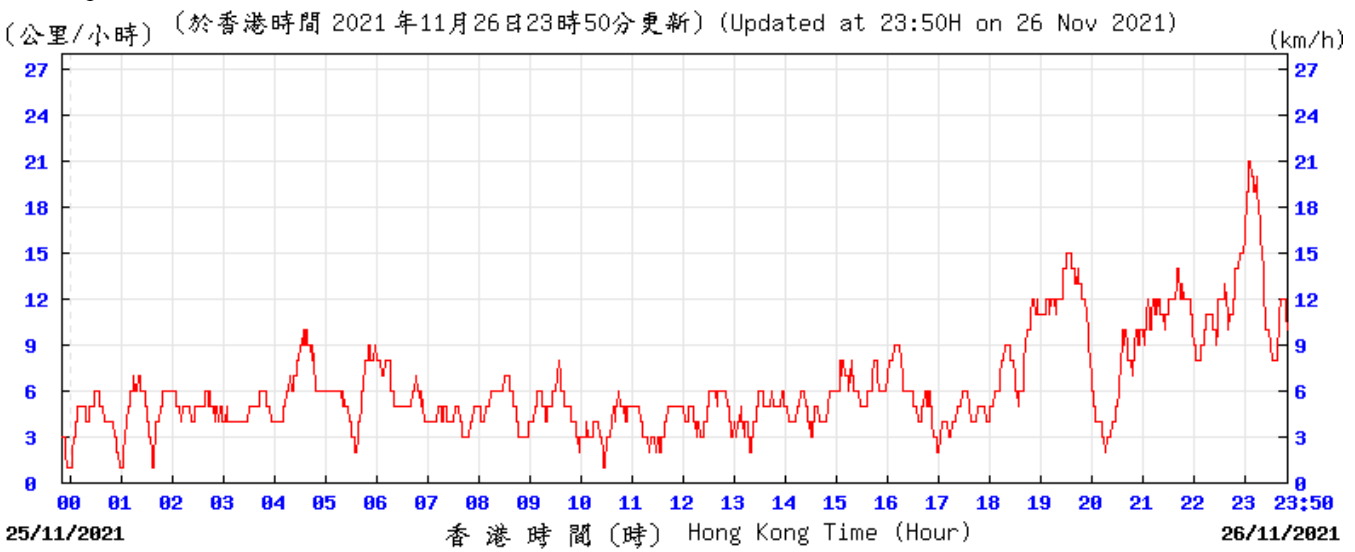
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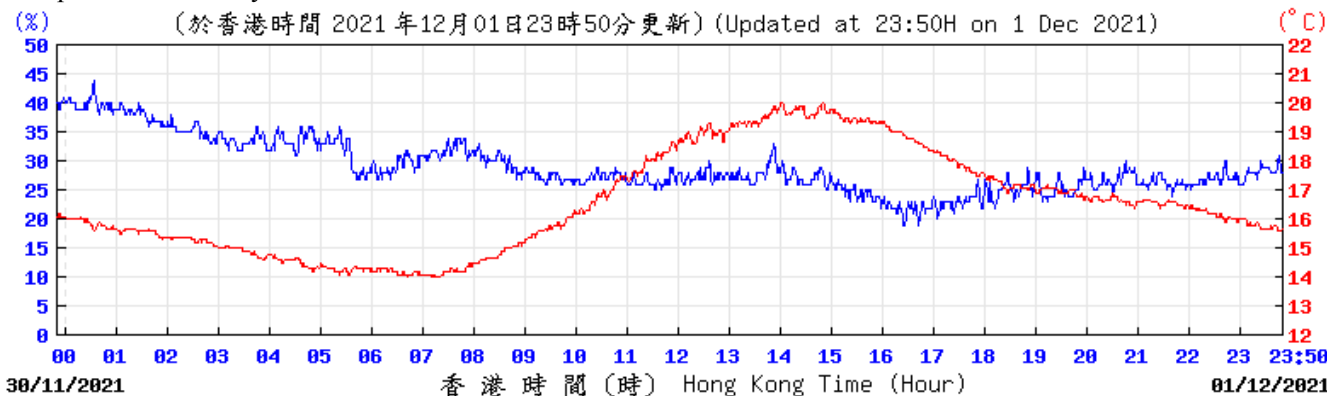


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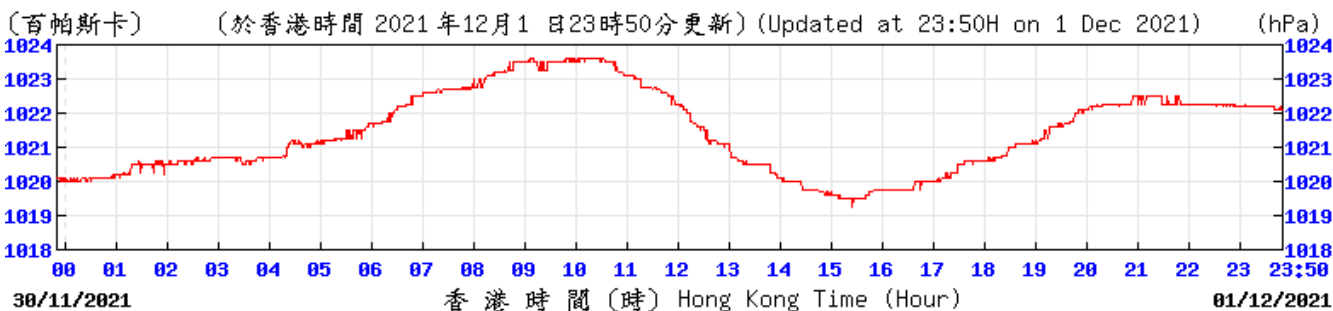
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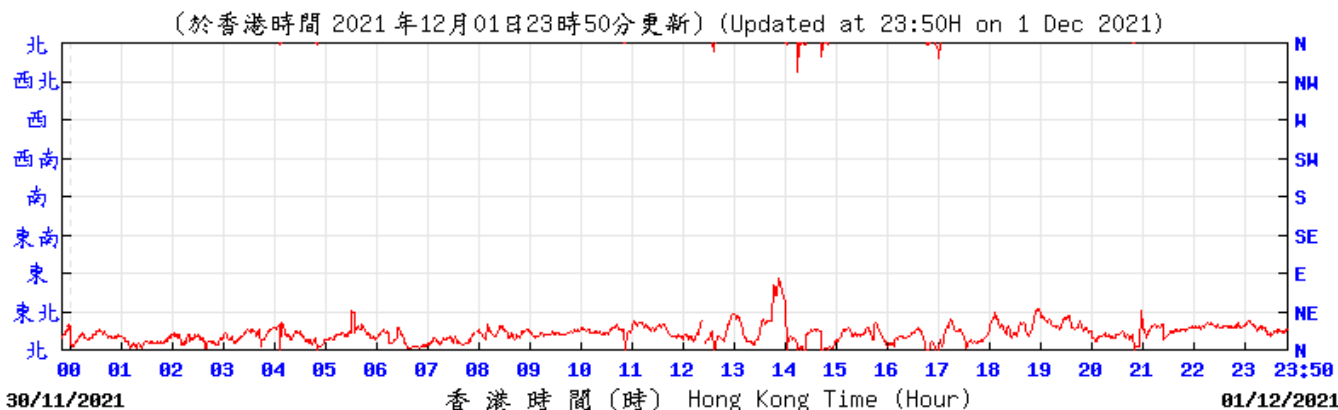
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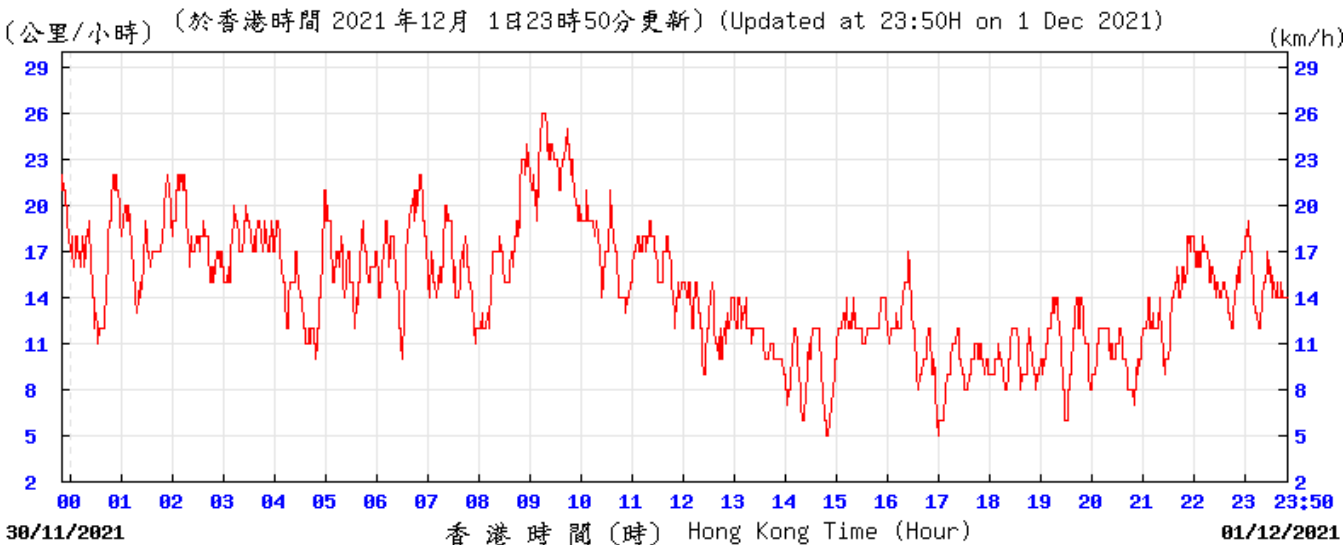
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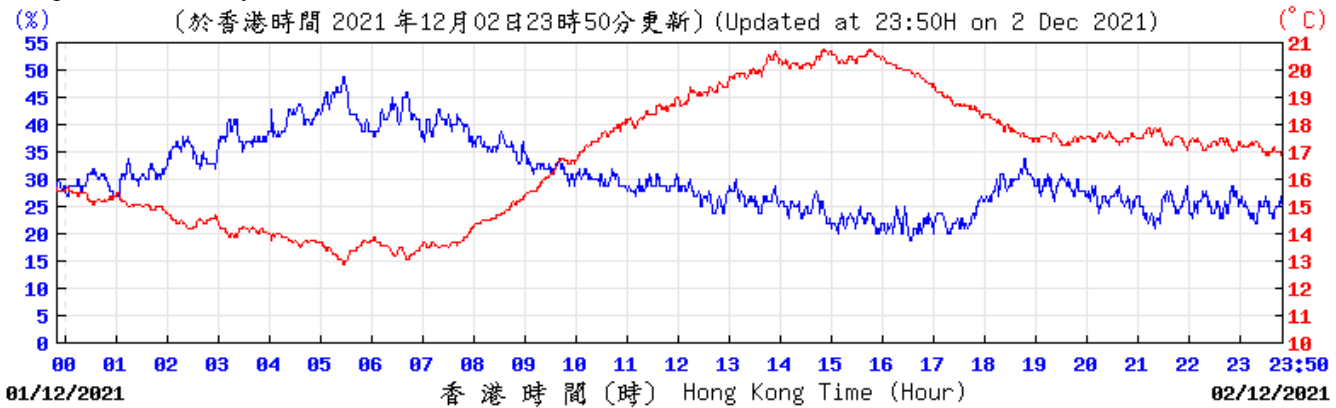
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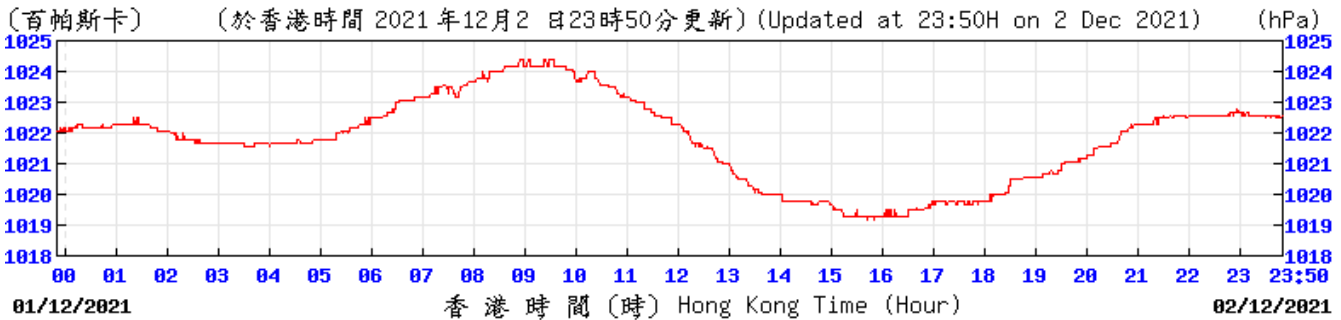


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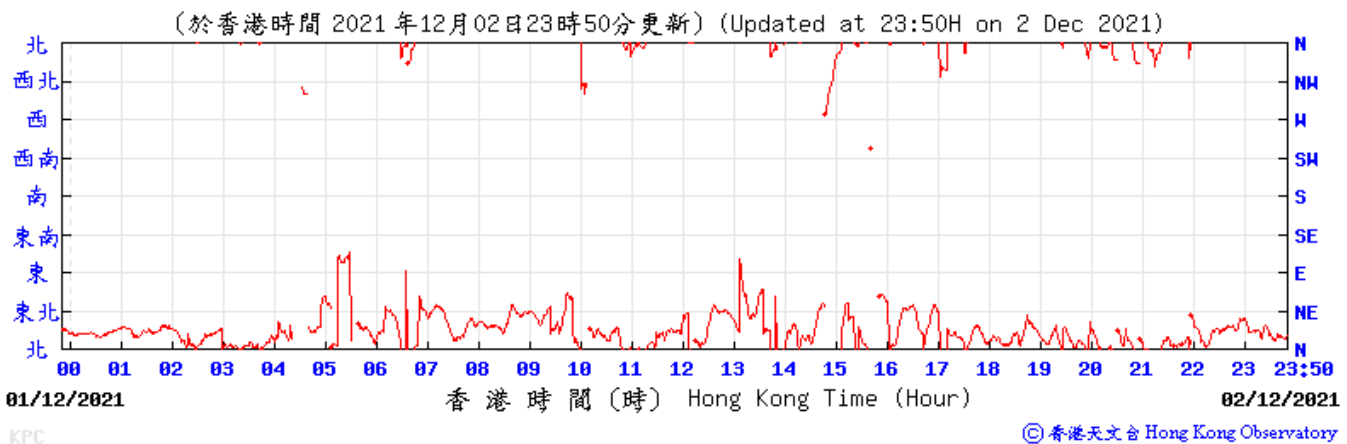
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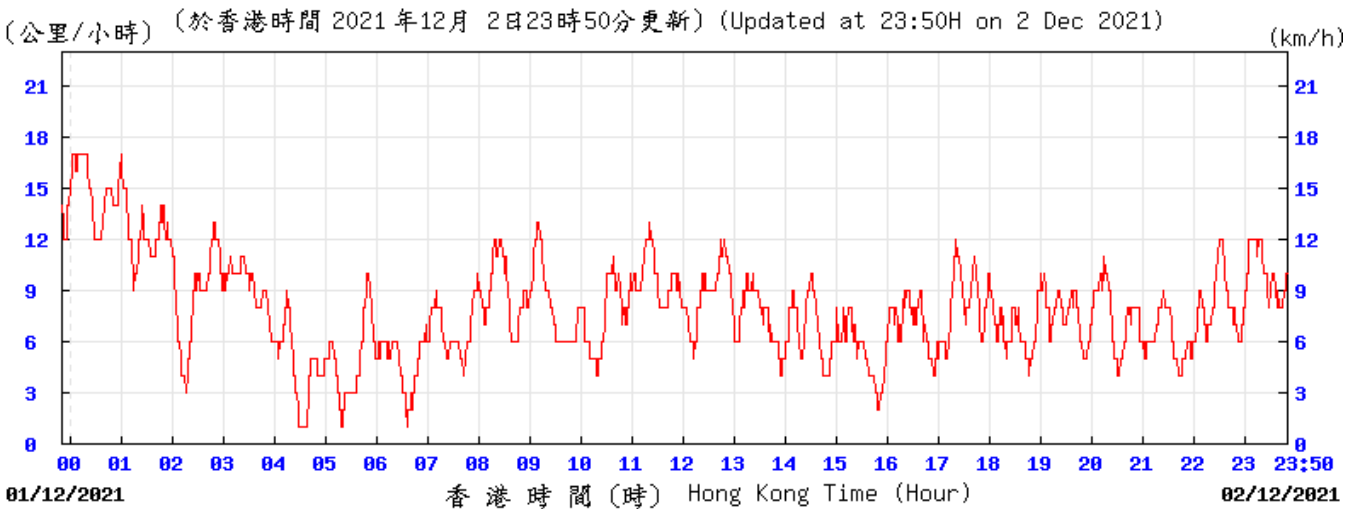
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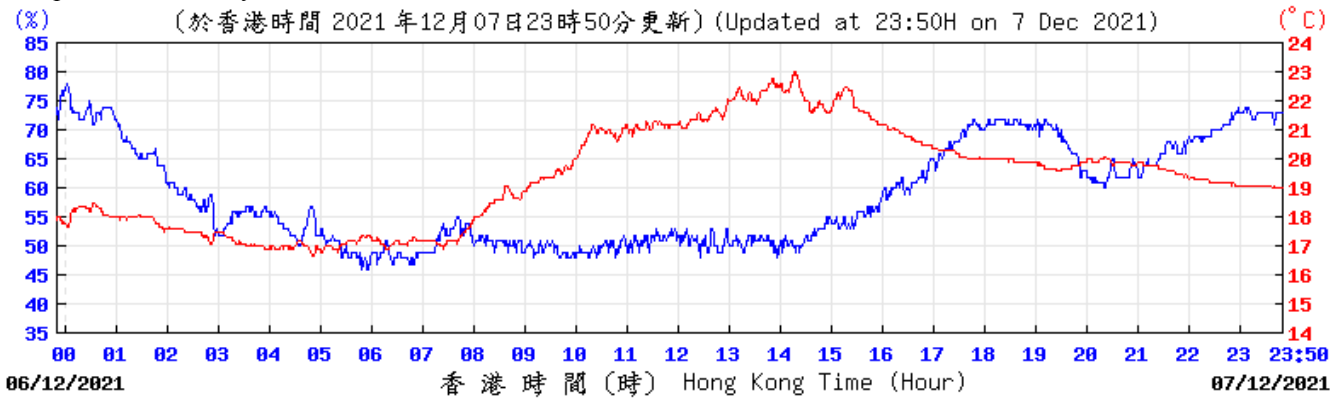
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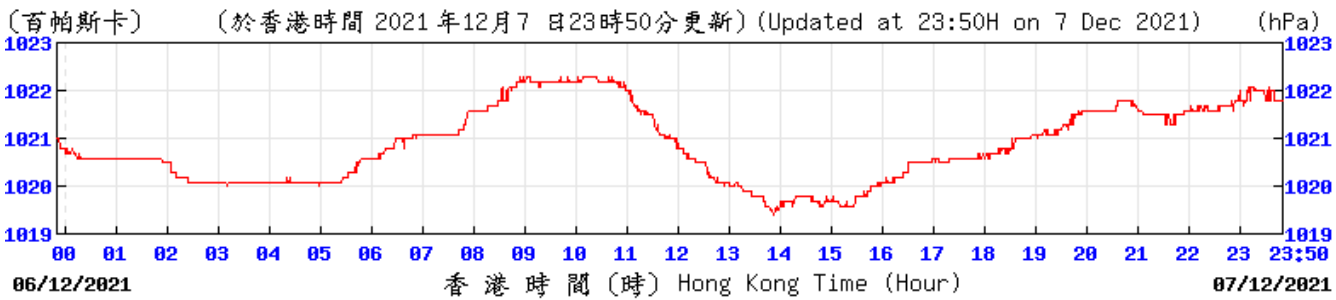


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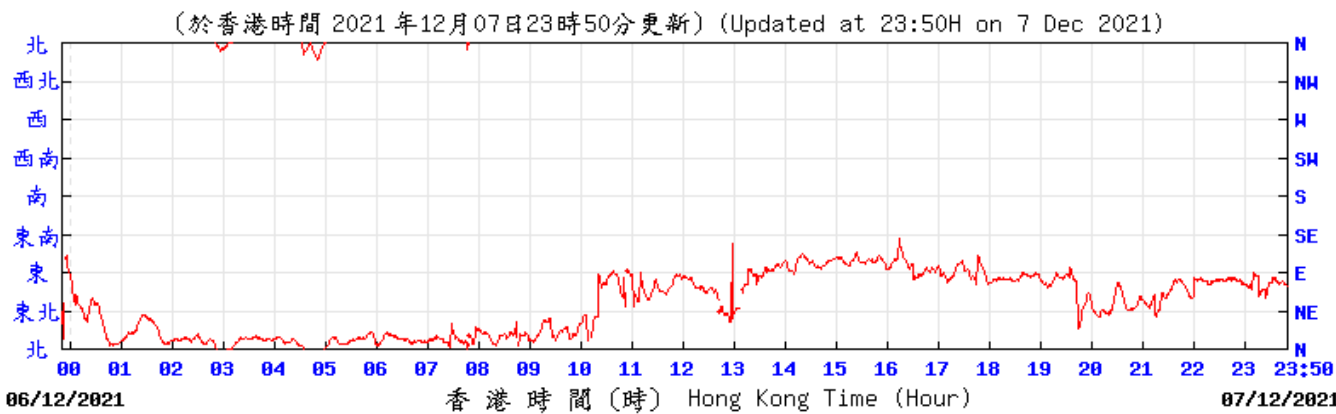
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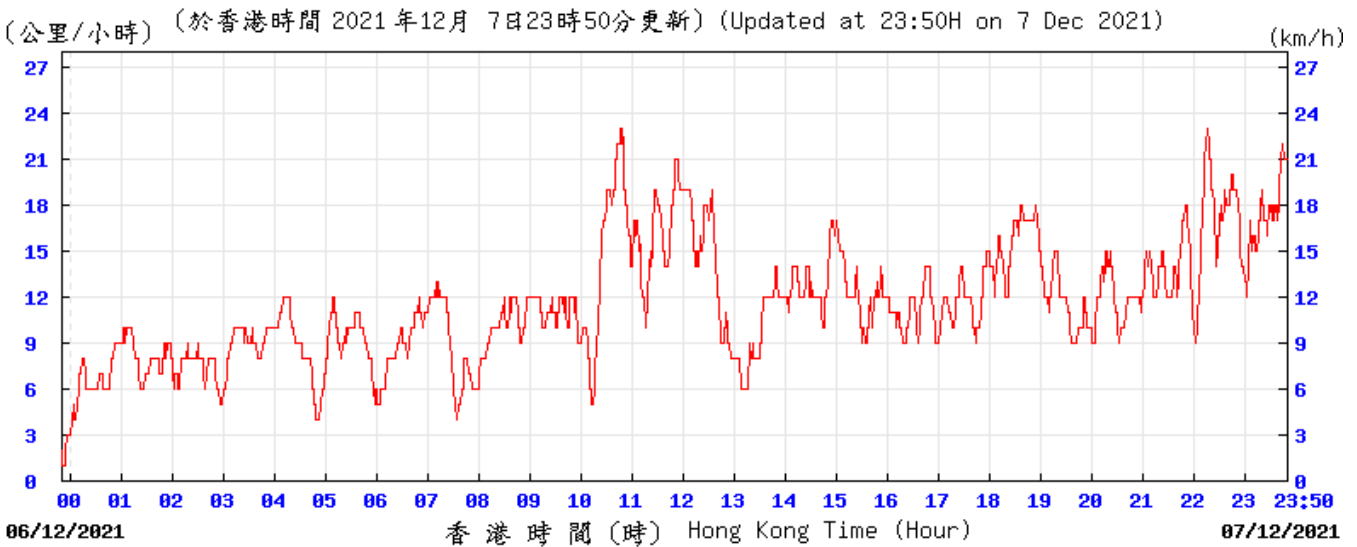
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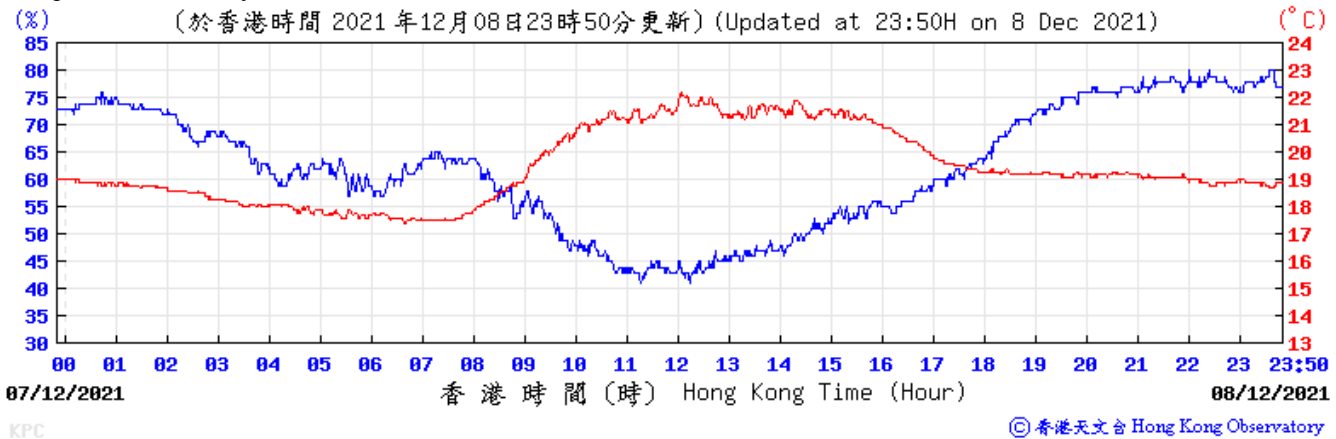
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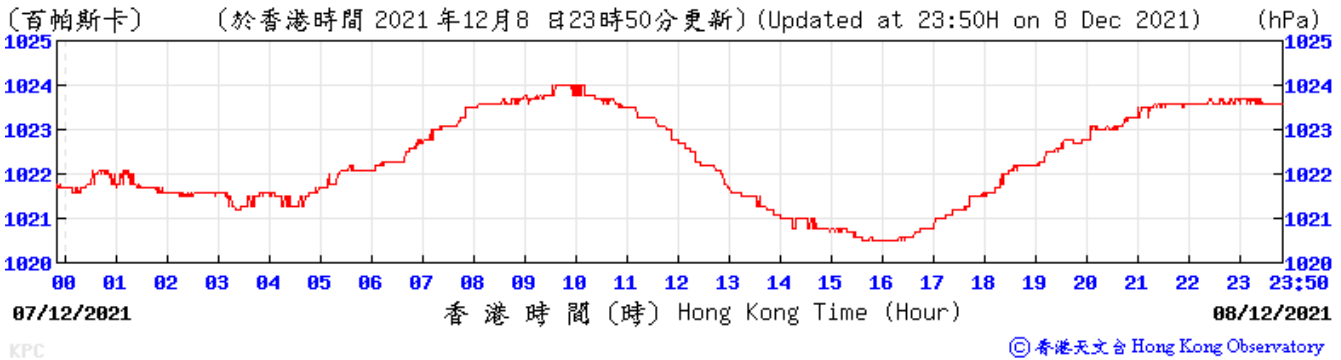


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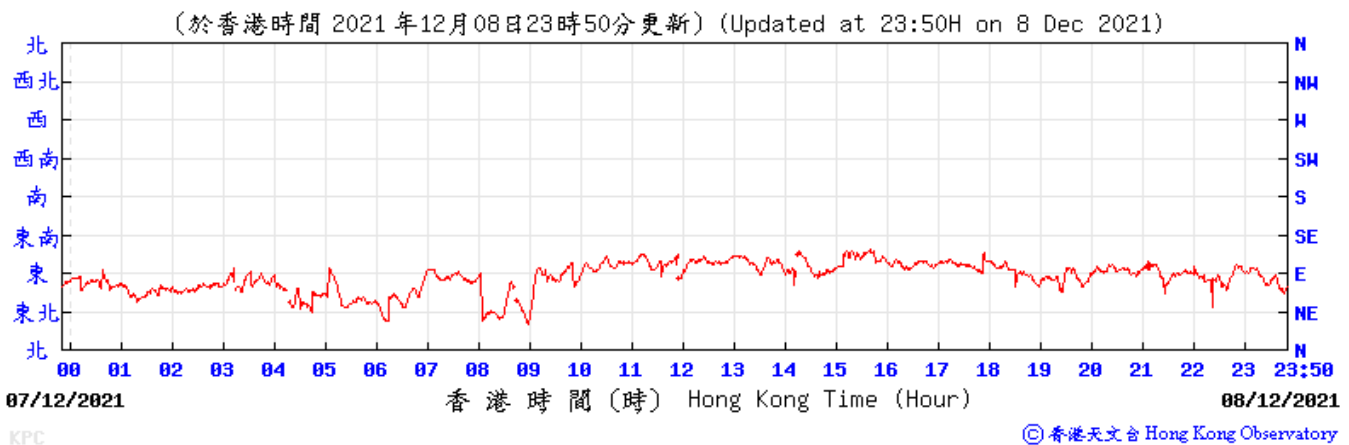
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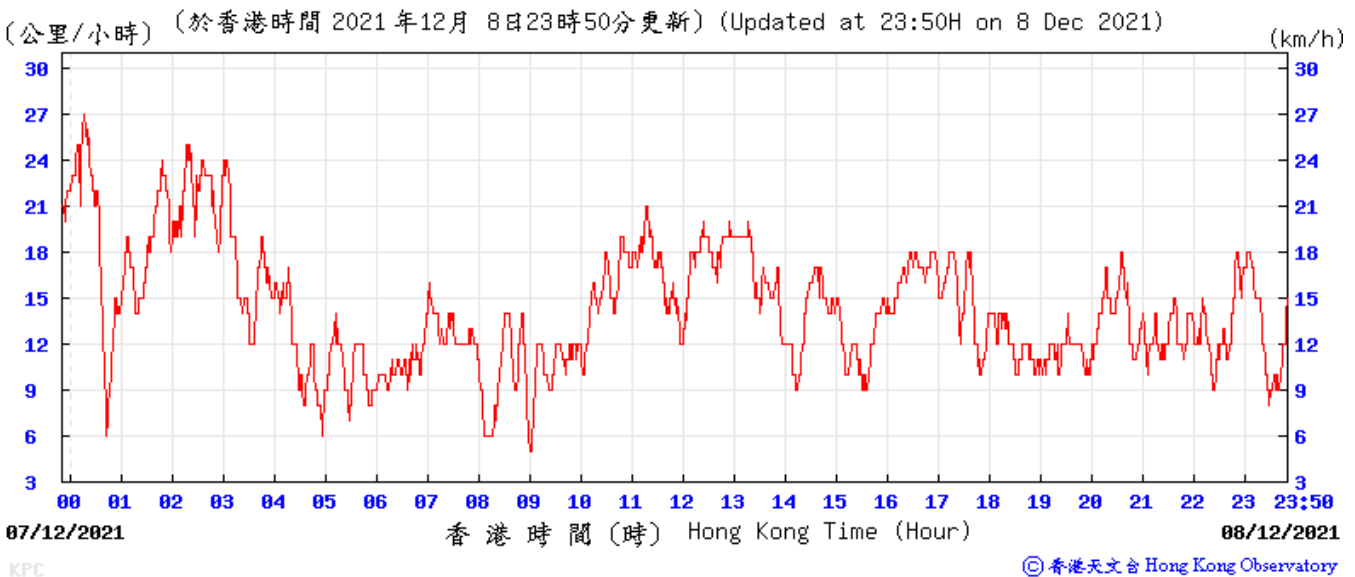
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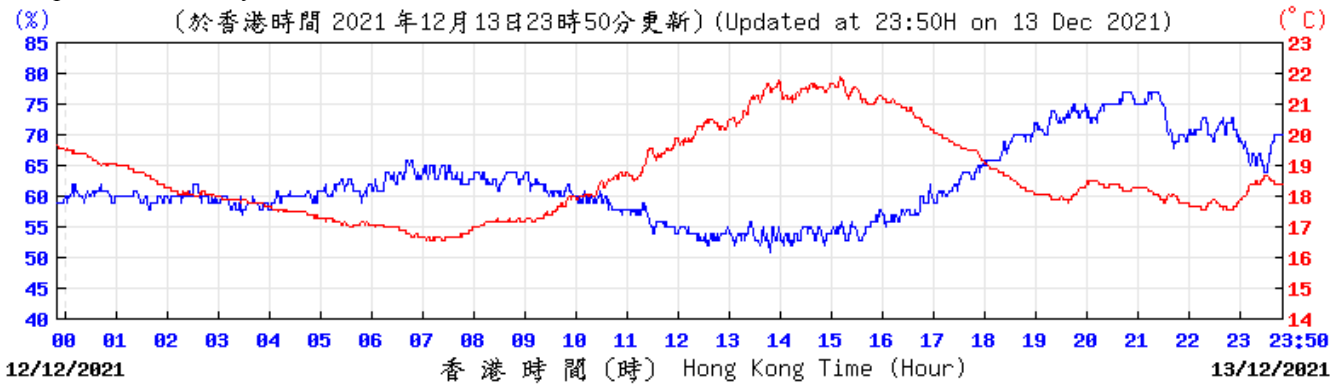
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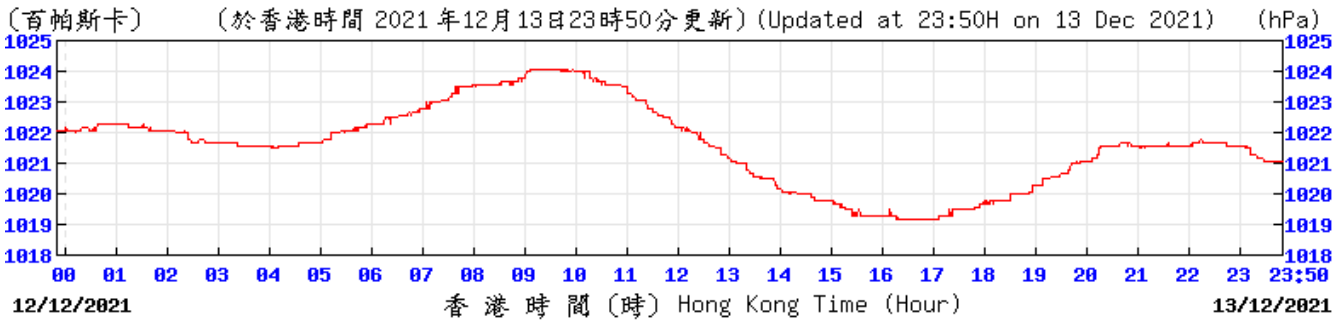


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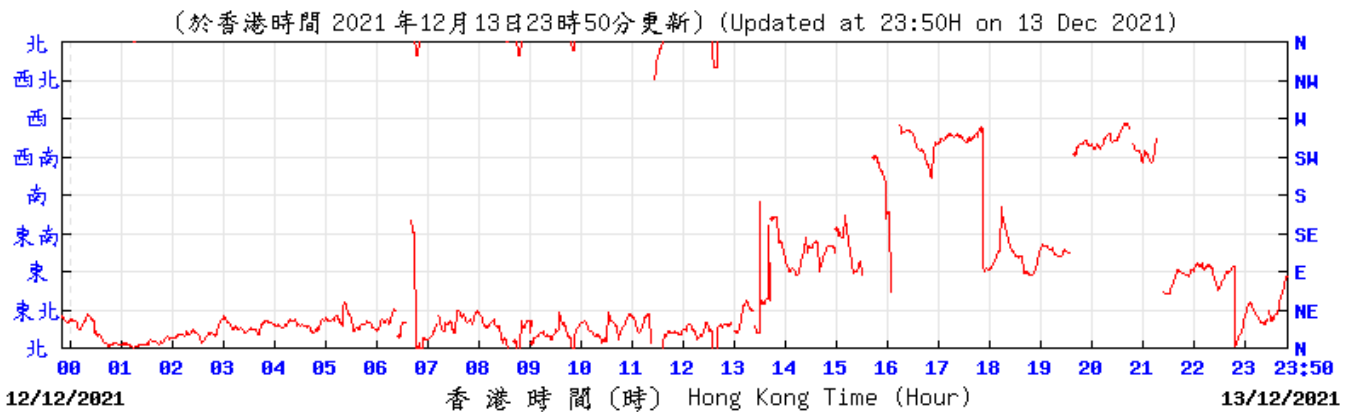
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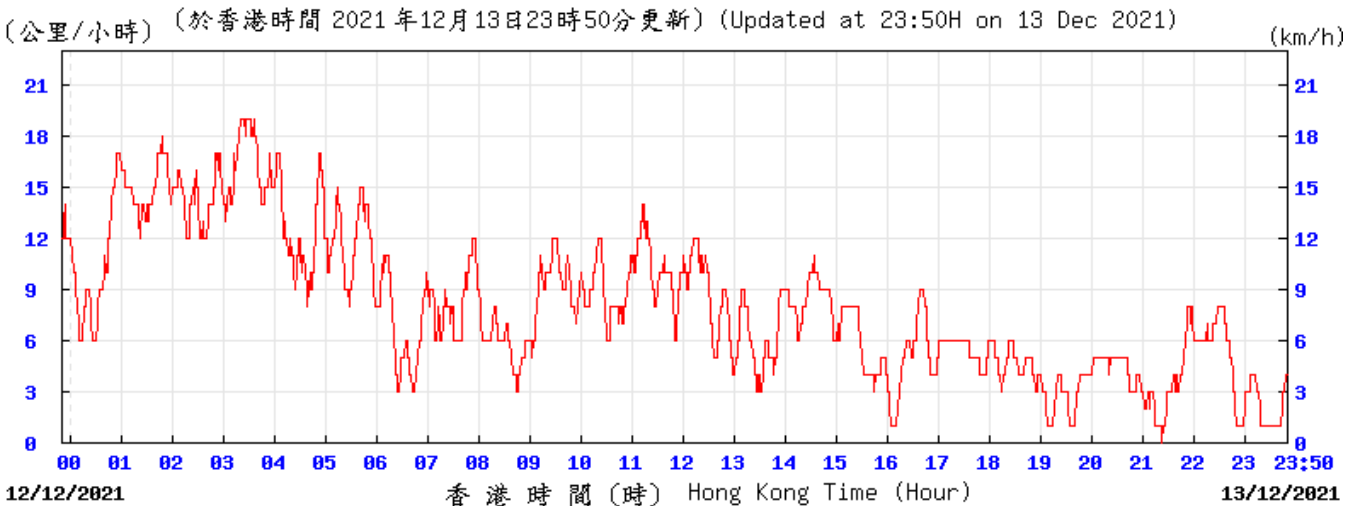
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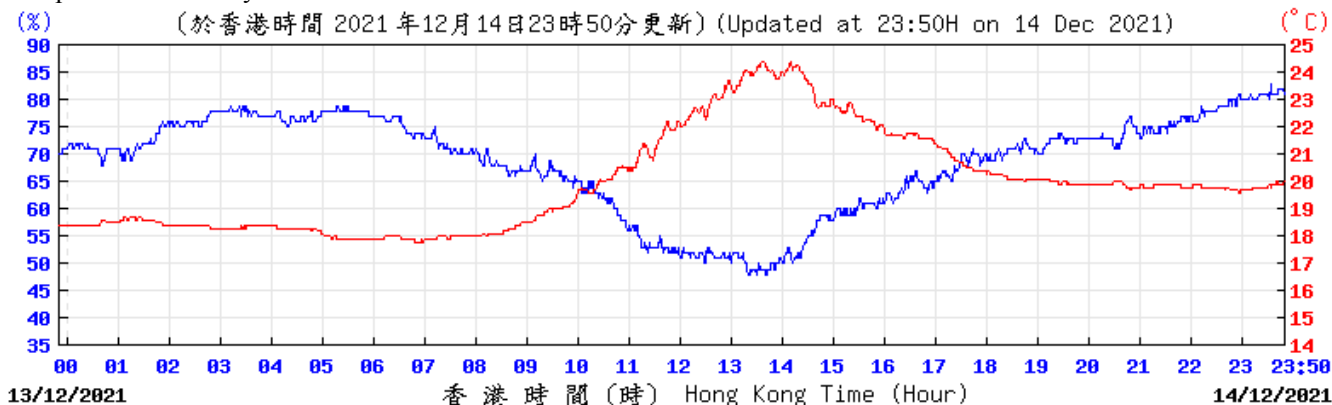
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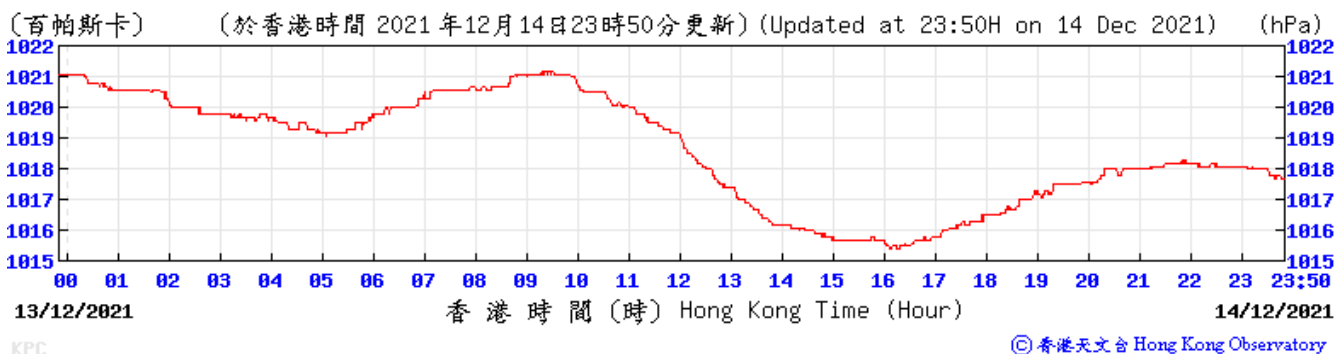


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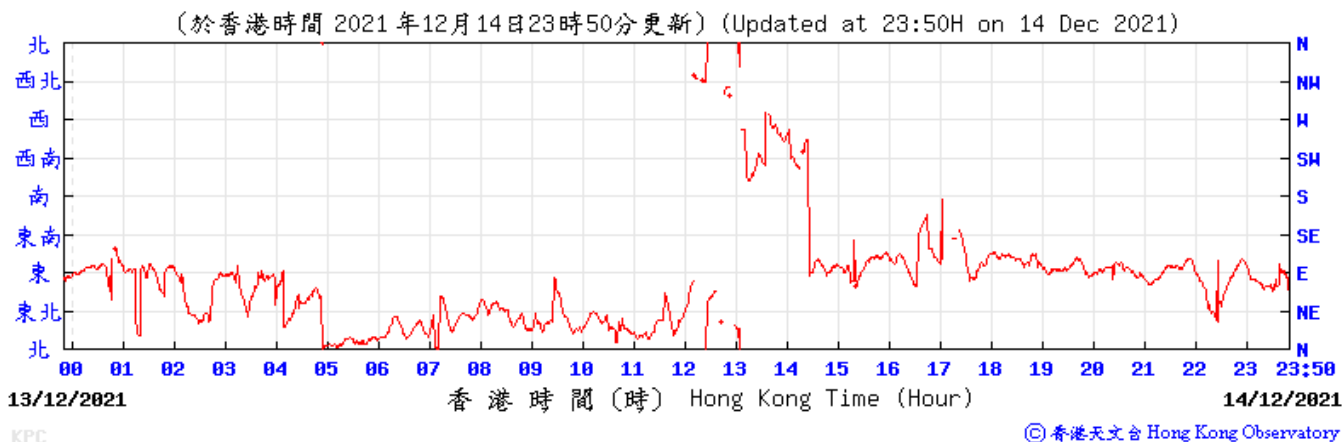
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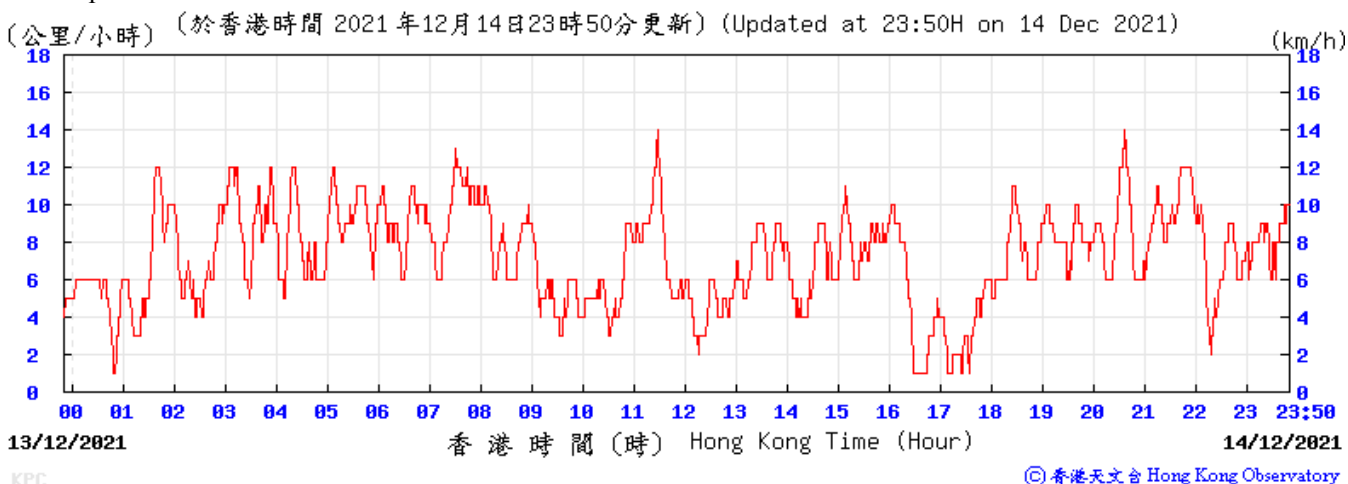
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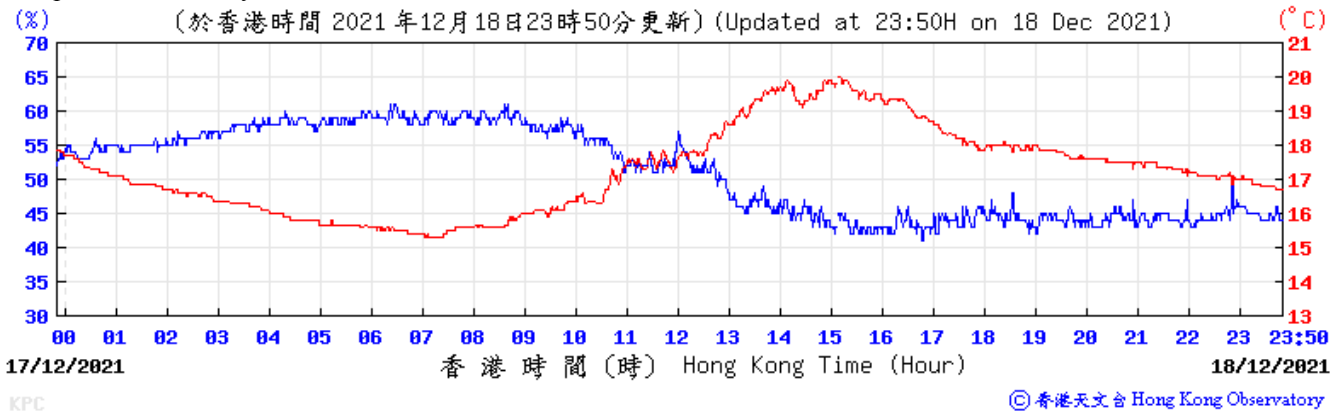
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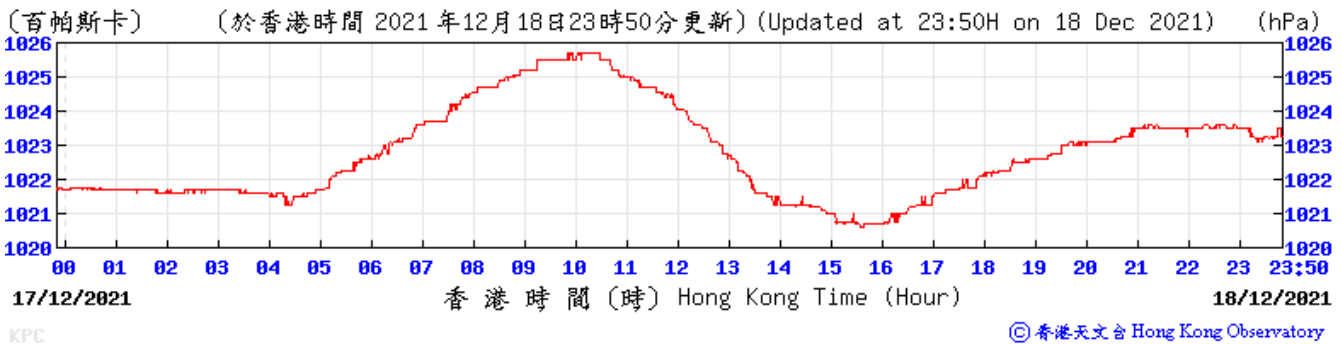
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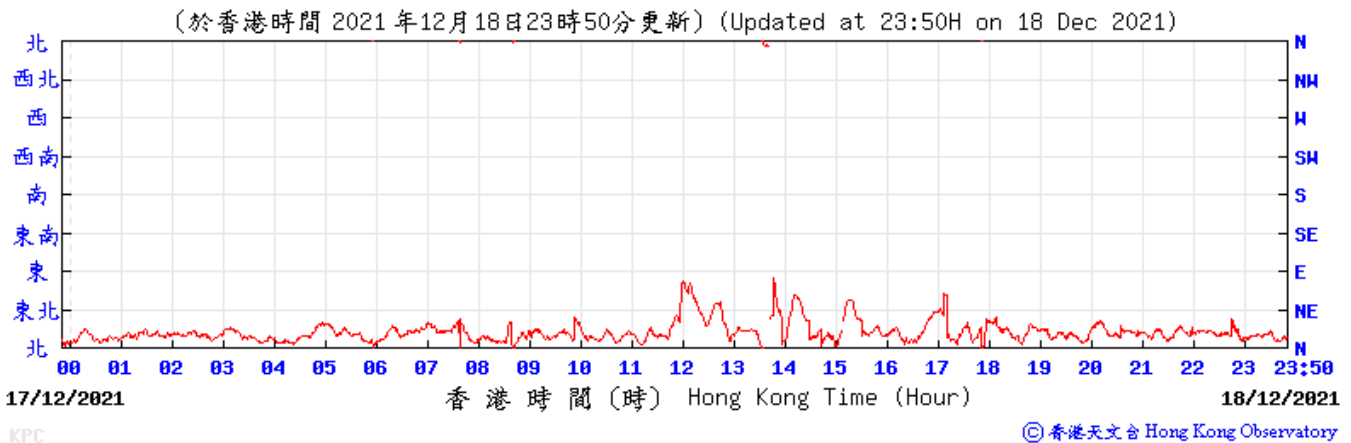
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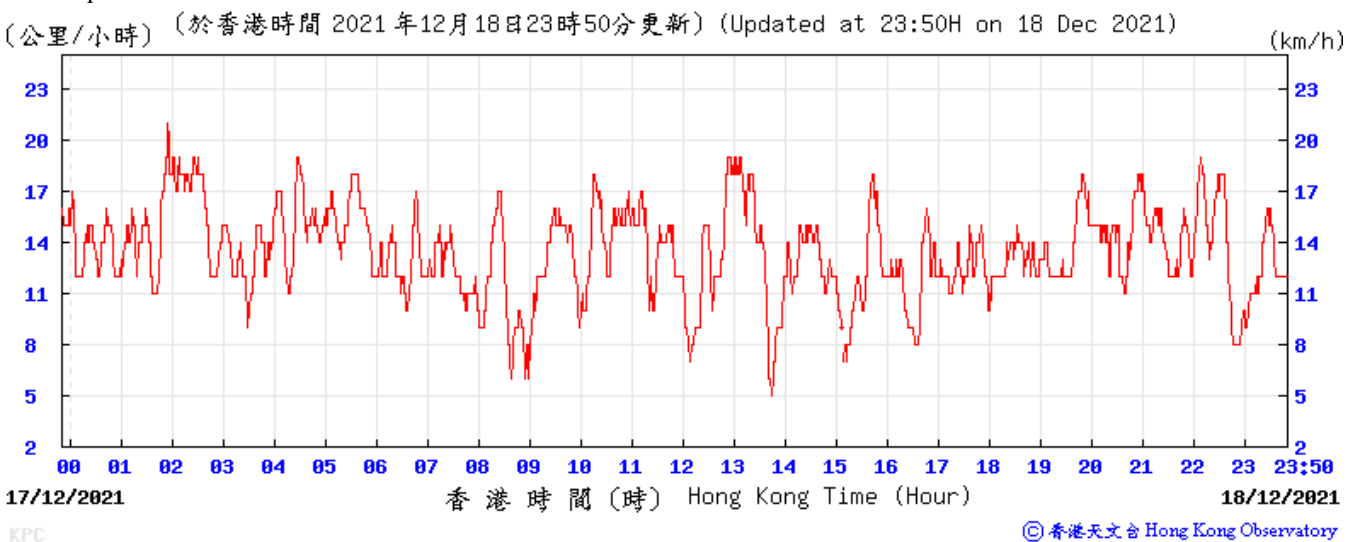
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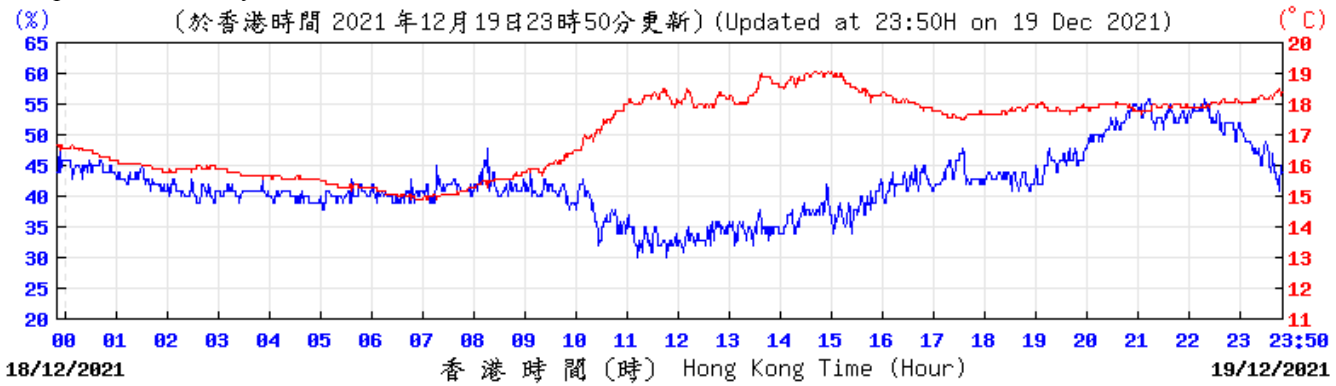
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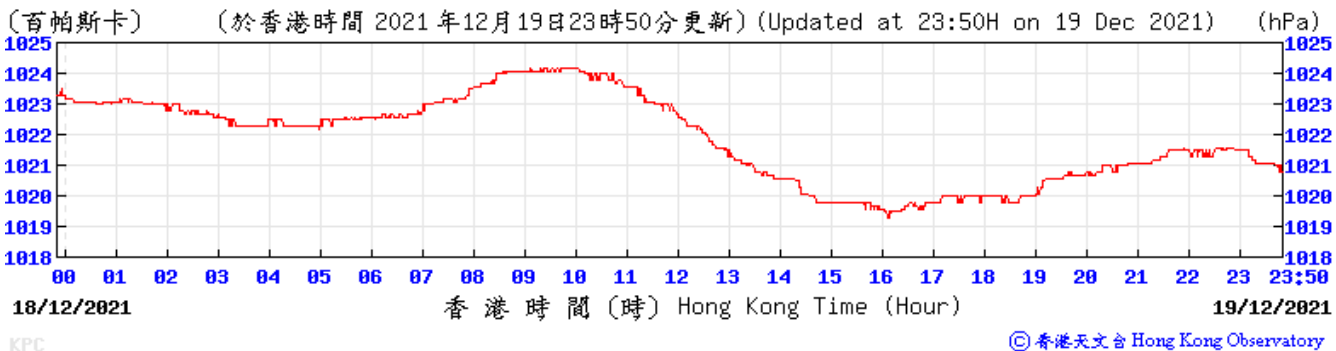
Wind Speed:



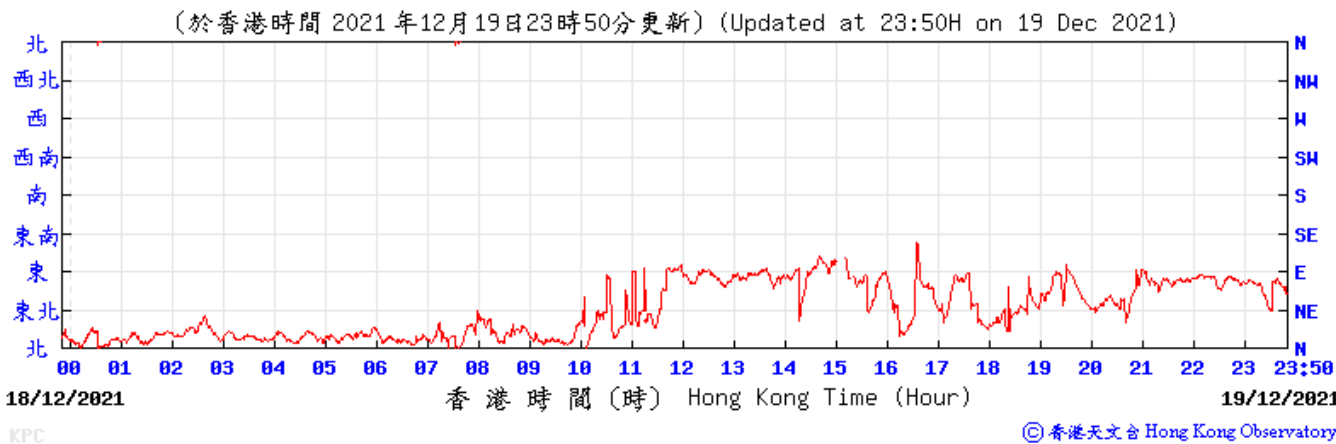
Temperature/Humidity:



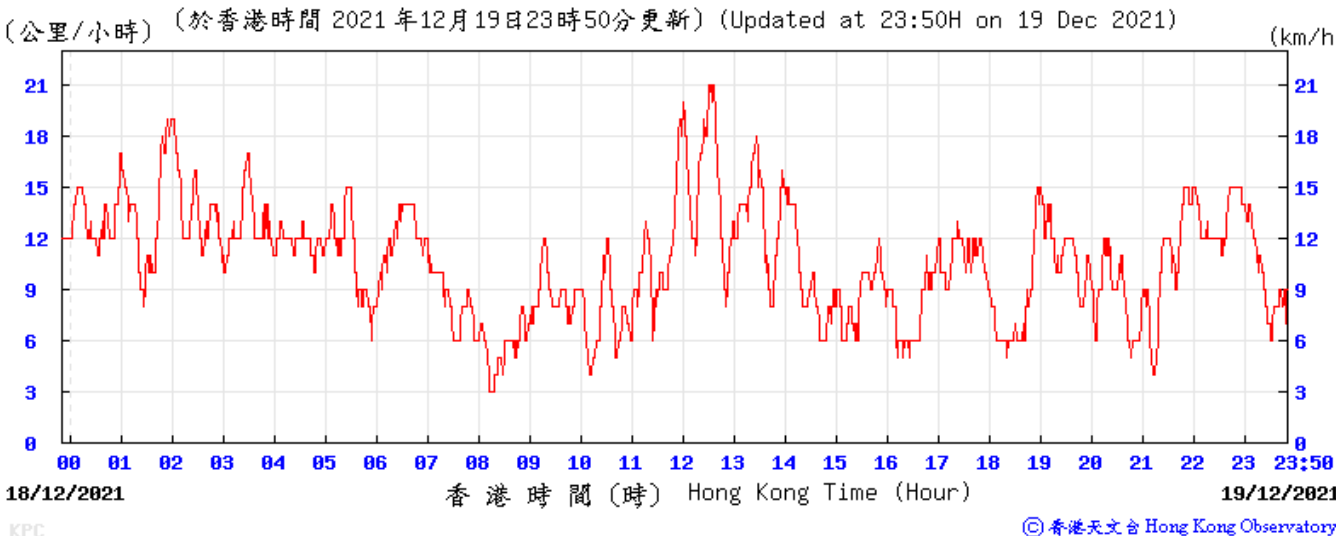
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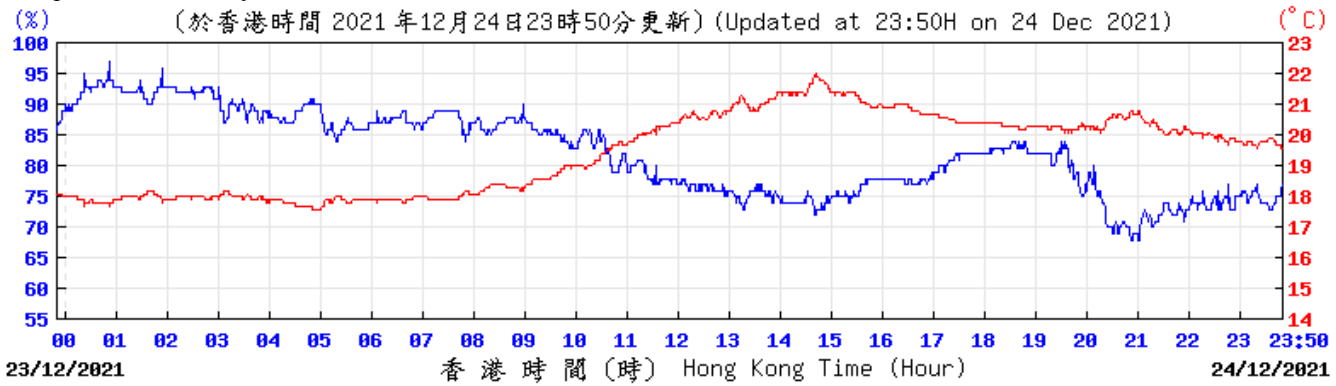
Wind Direction:



Wind Speed:

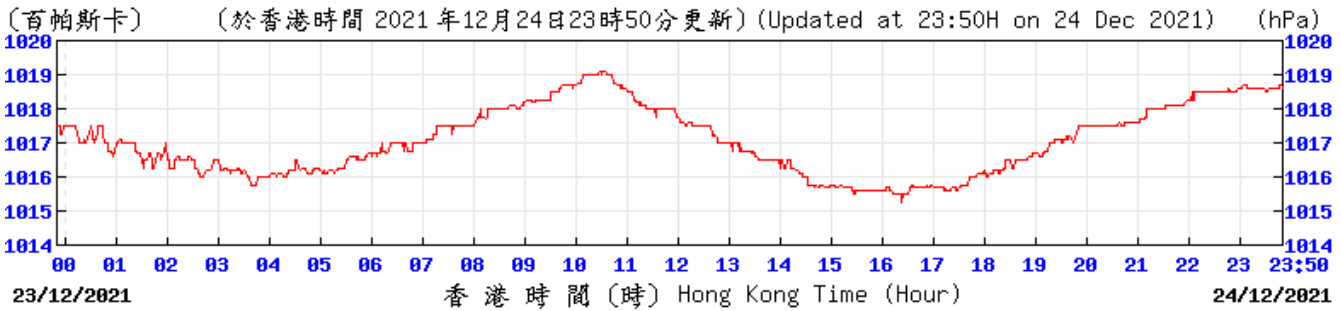


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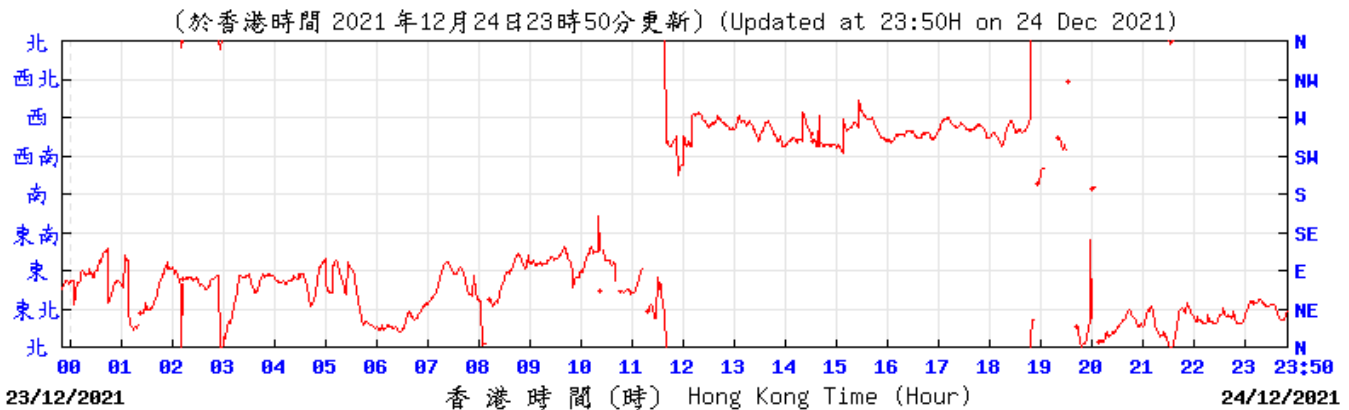
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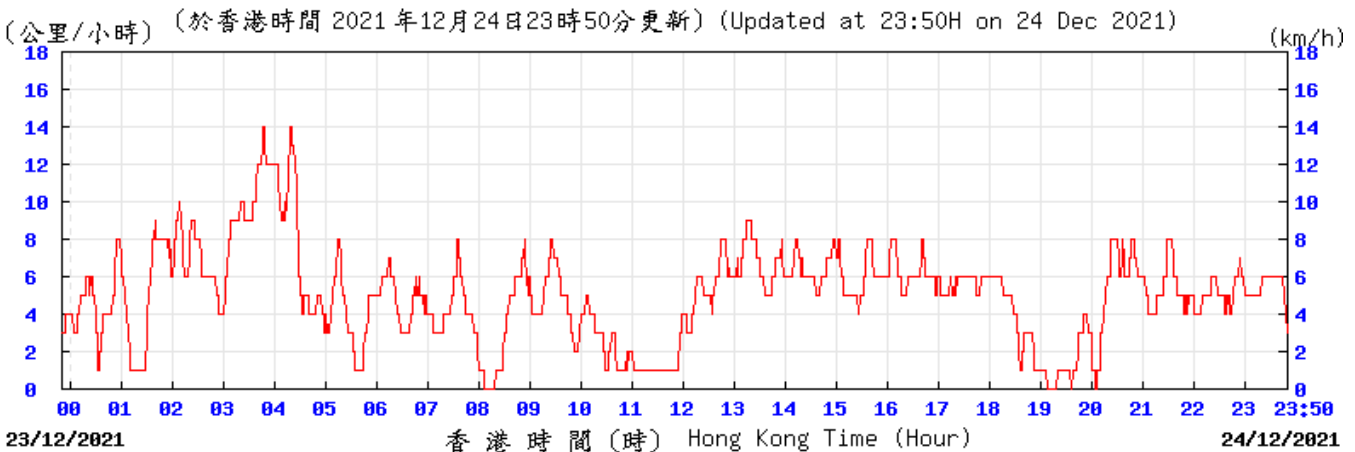
© 香港天文台 Hong Kong Observatory

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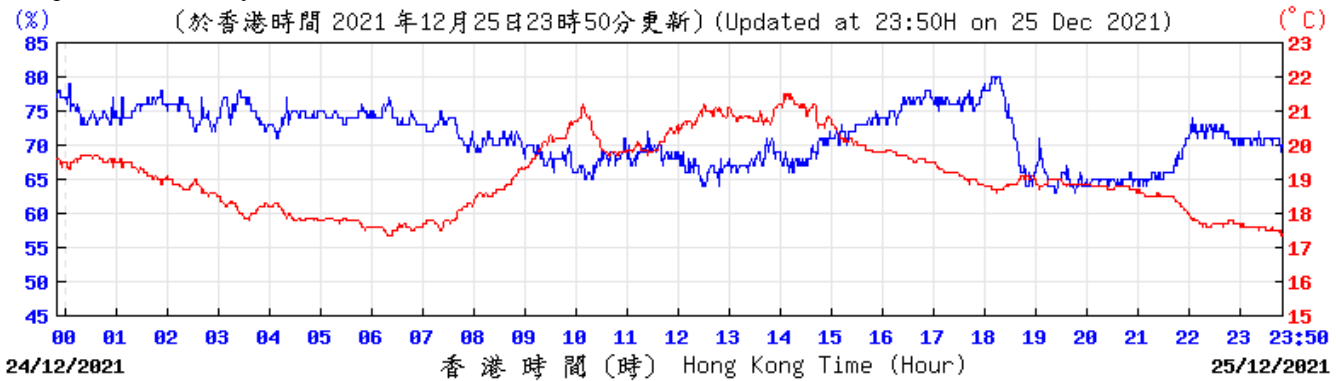
© 香港天文台 Hong Kong Observatory

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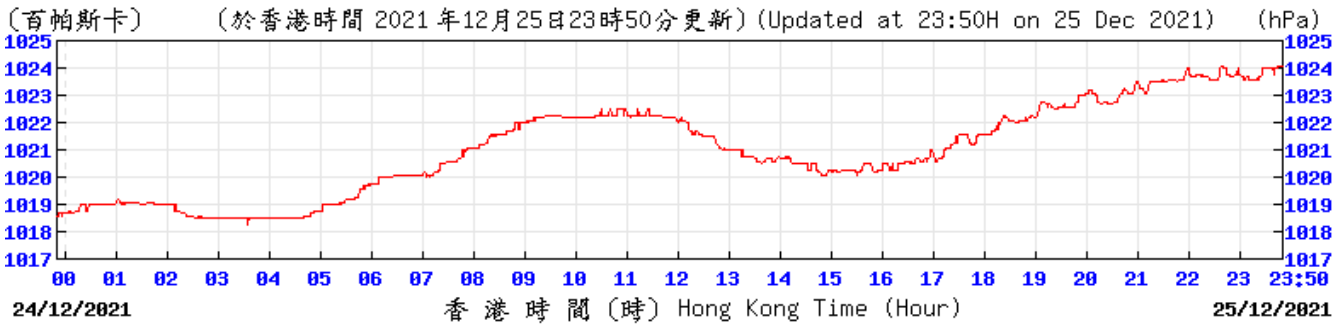
© 香港天文台 Hong Kong Observatory

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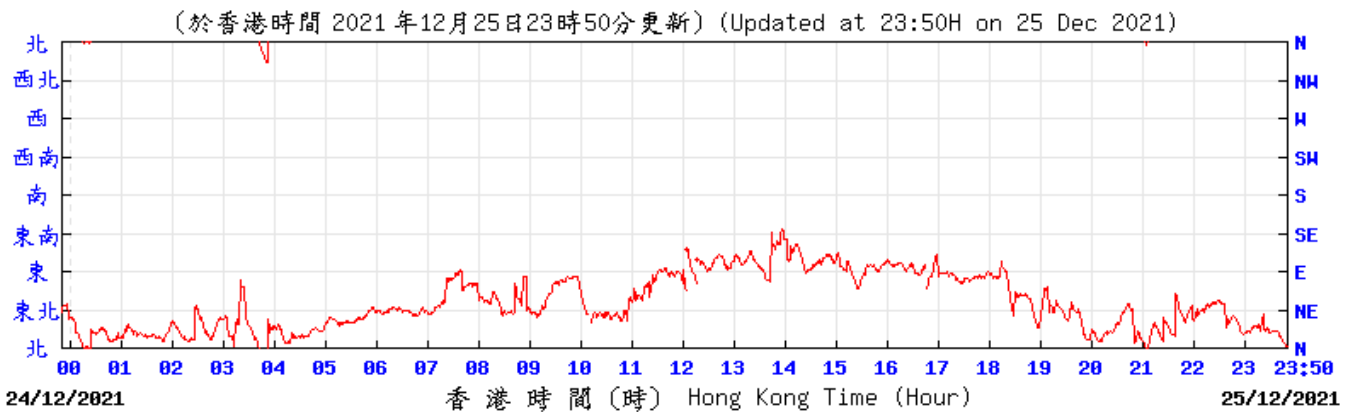
KPC © 香港天文台 Hong Kong Observatory

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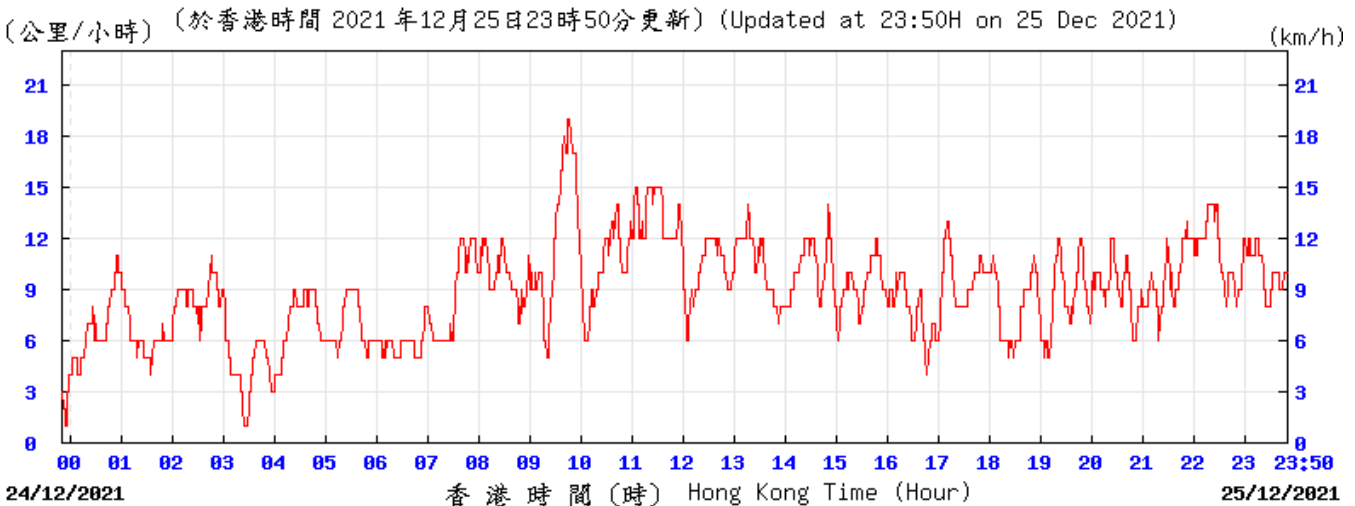
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Wind Direction:



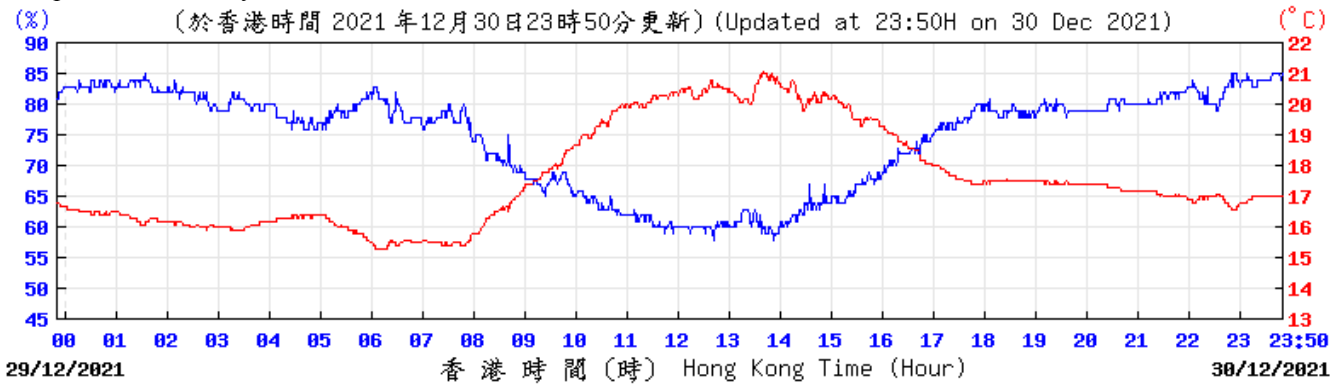
KPC © 香港天文台 Hong Kong Observatory

Wind Speed:



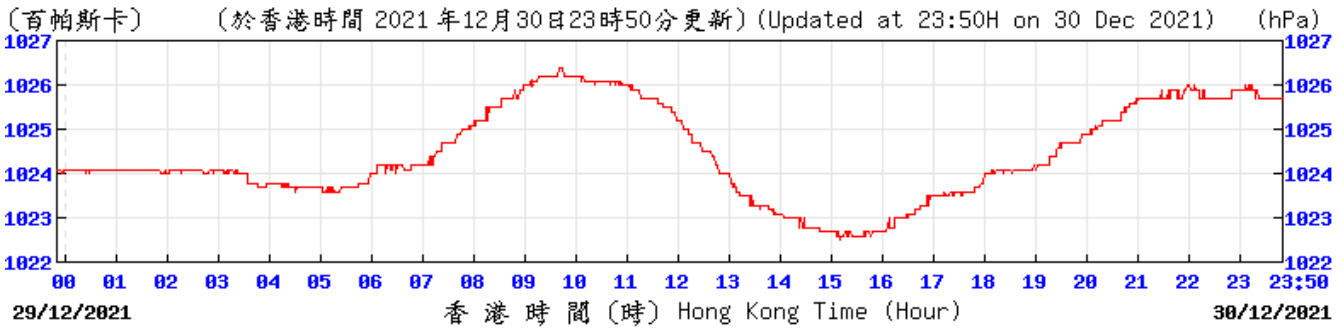
KPC © 香港天文台 Hong Kong Observatory

Temperature/Humidity:



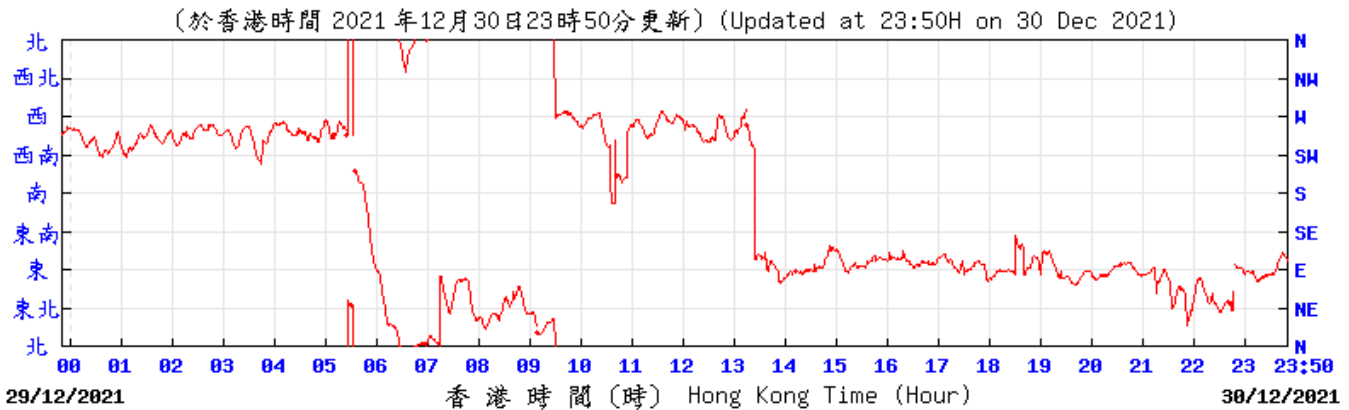
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Pressure:



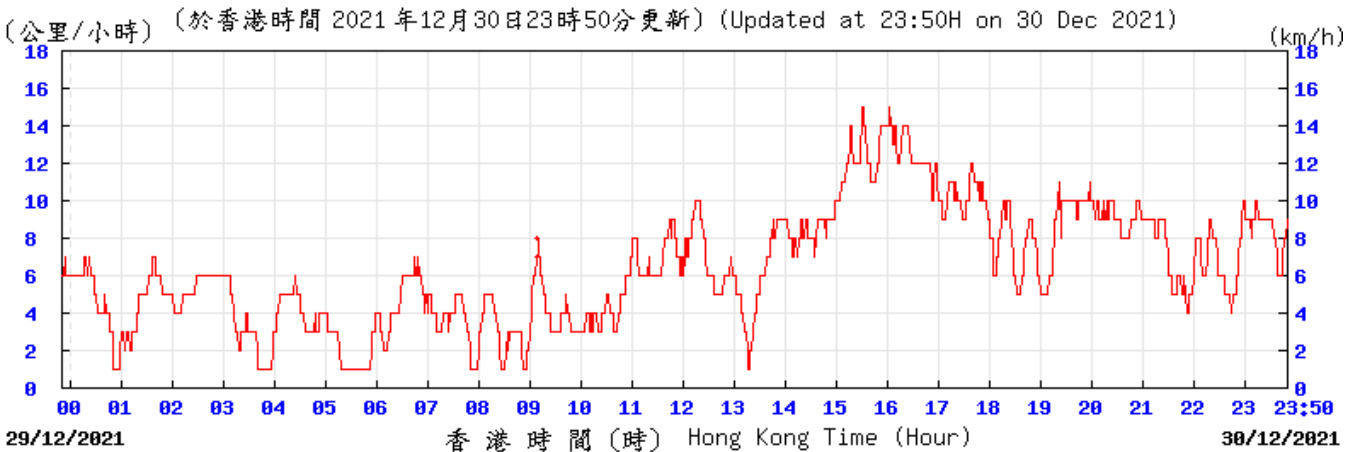
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Wind Direction:



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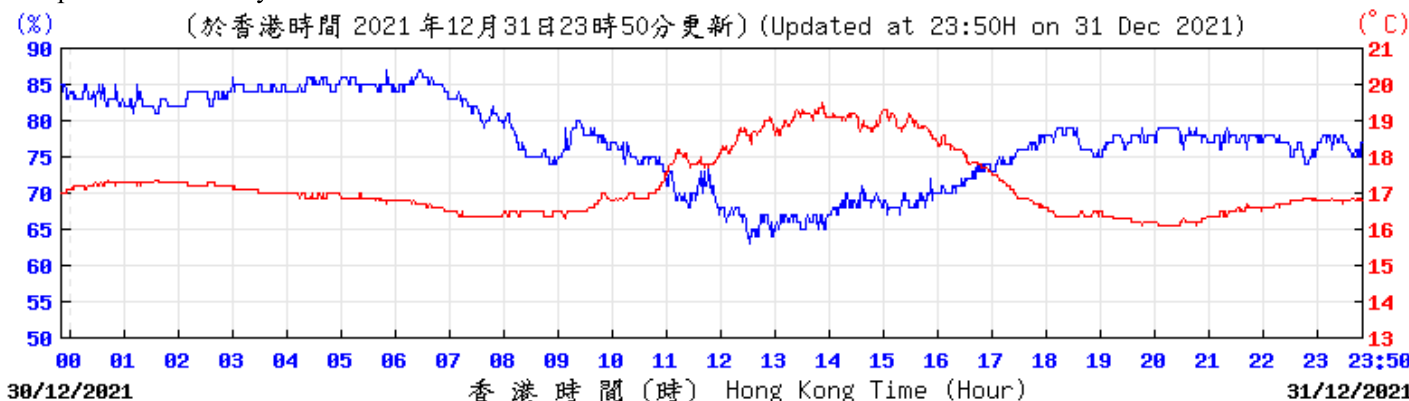
Wind Speed:



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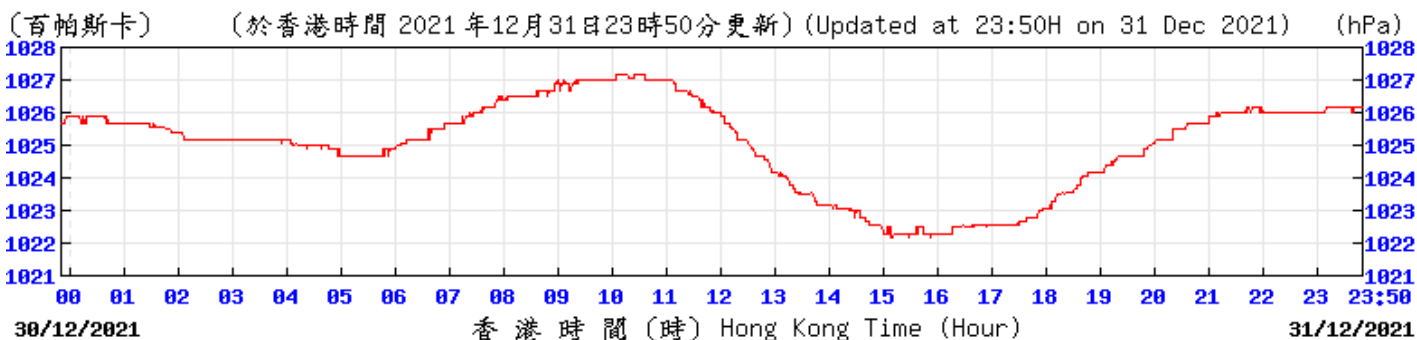
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Temperature/Humidity:



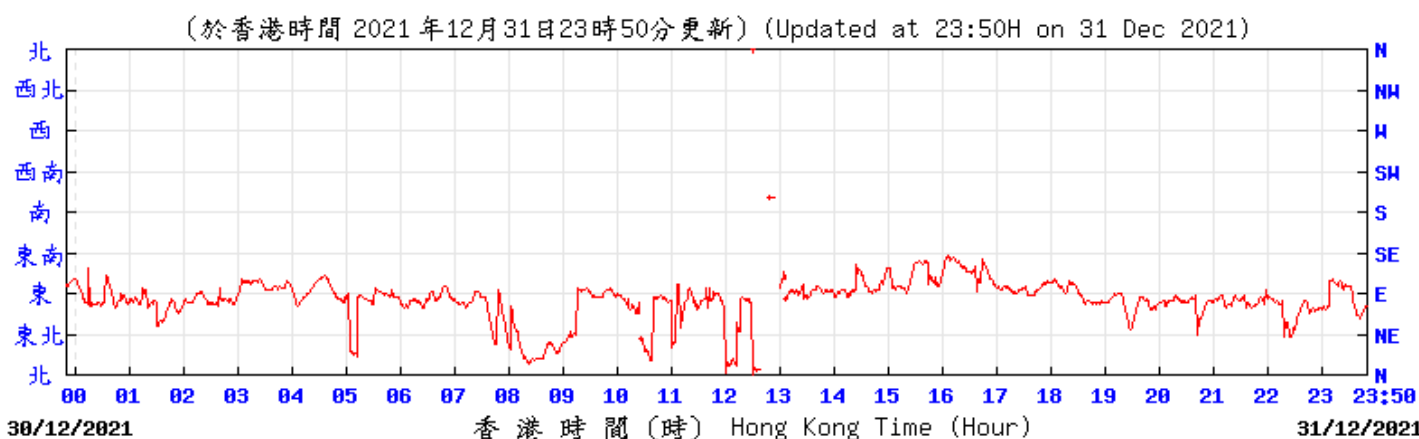
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KPC
Pressure:



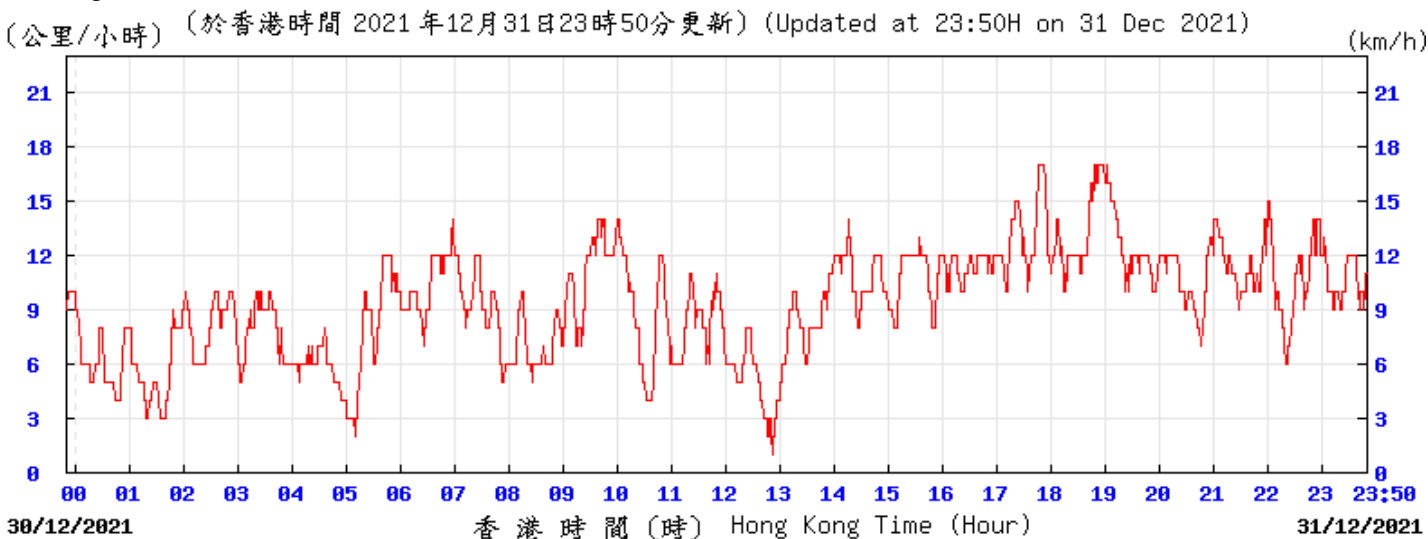
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KPC
Wind Direction:



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KPC
Wind Speed:

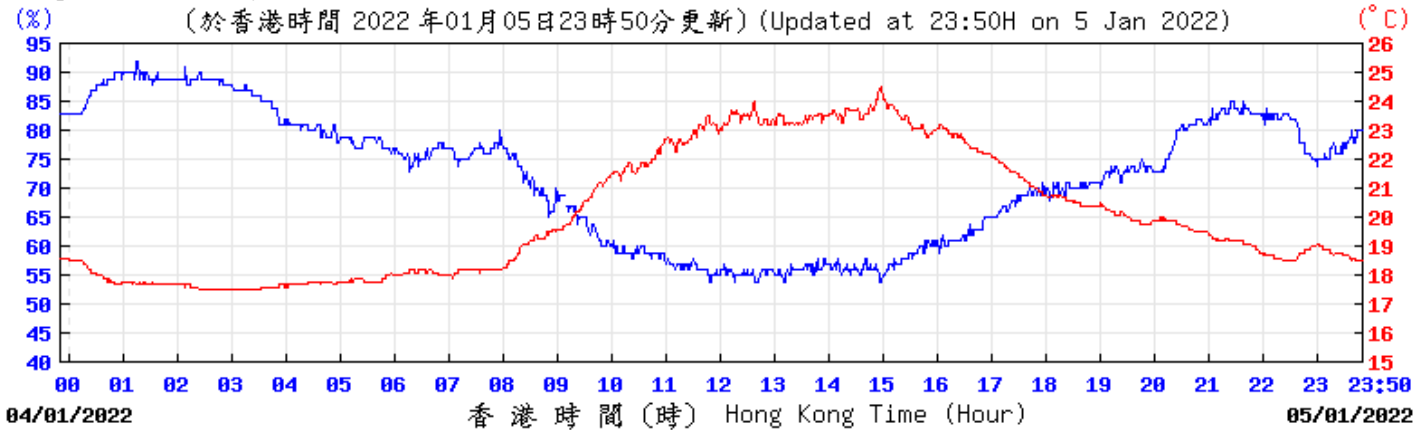


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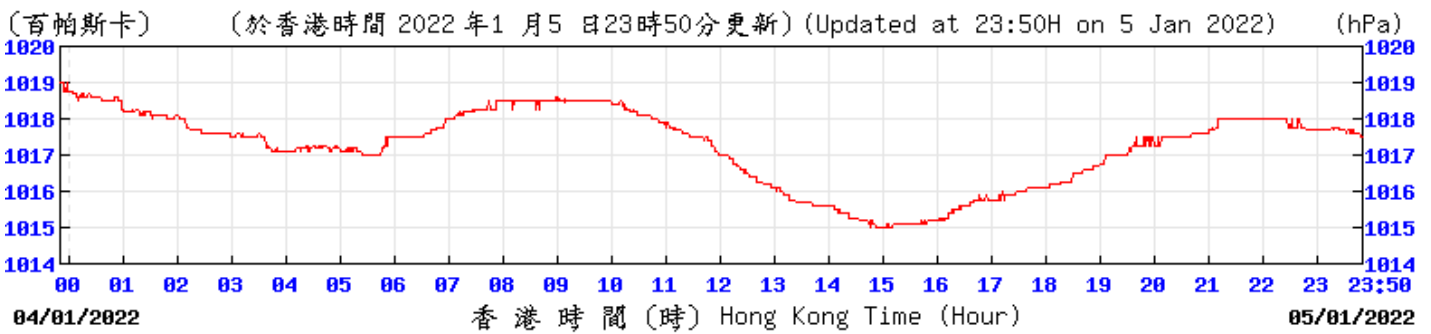
Extract of Meteorological Observations for King's Park Automatic Weather Station, January 2022

Temperature/Humidity:



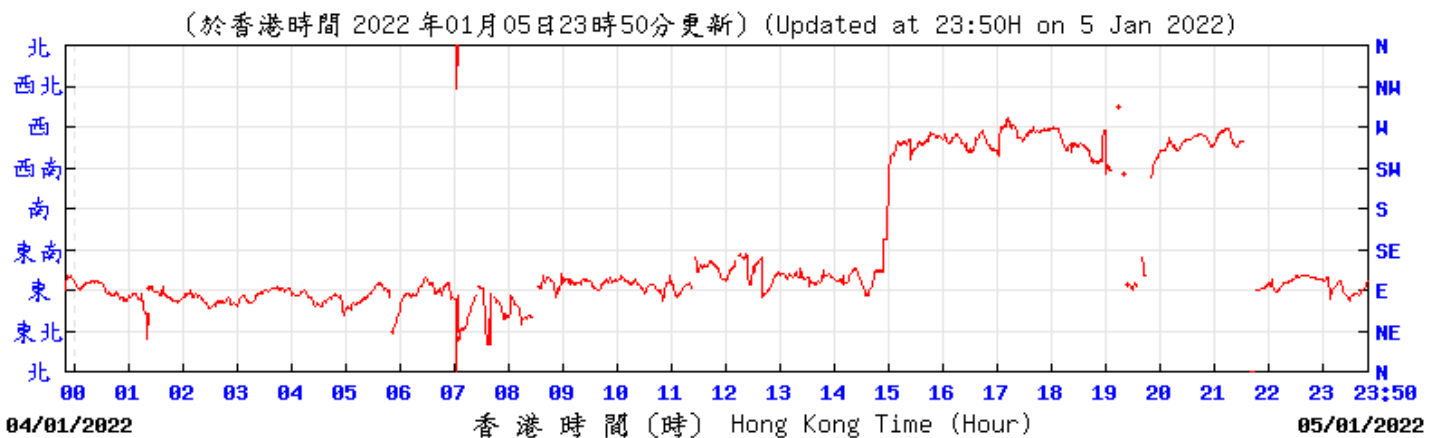
© 香港天文台 Hong Kong Observatory

Pressure:



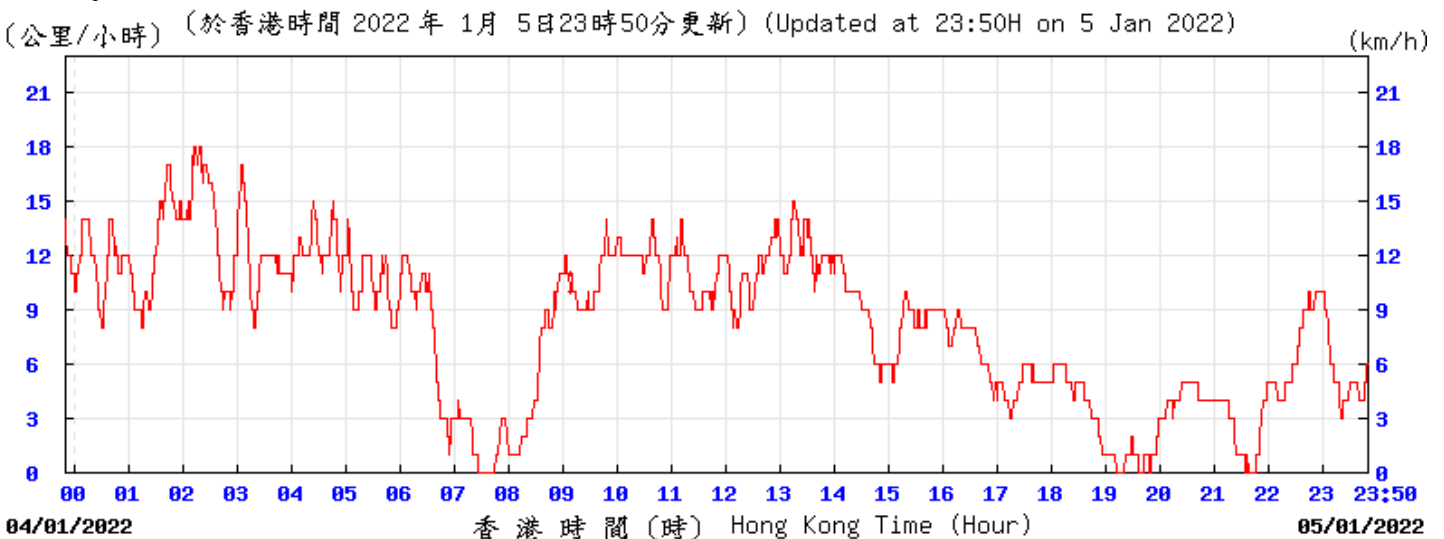
© 香港天文台 Hong Kong Observatory

Wind Direction:



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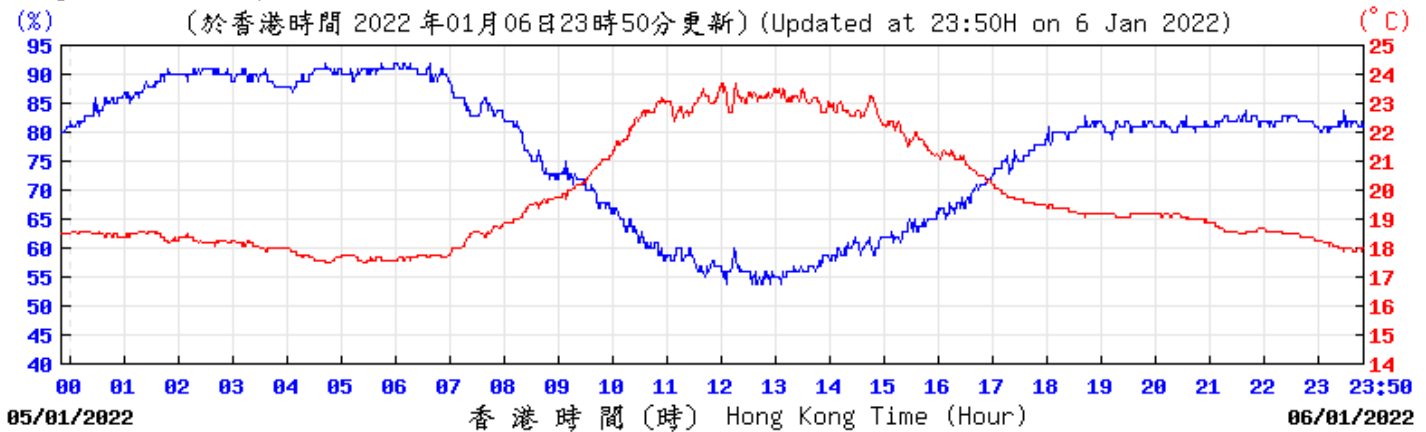
Wind Speed:



KPC

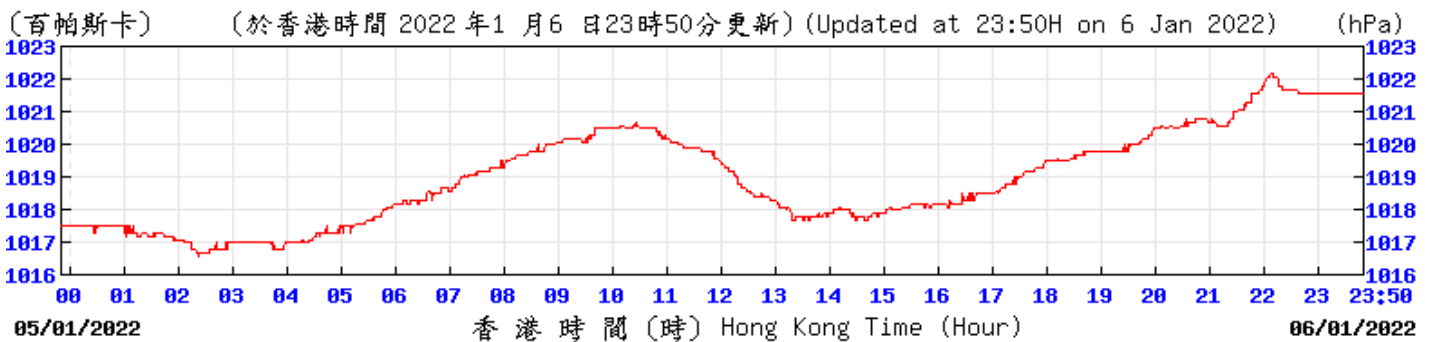
© 香港天文台 Hong Kong Observatory

Temperature/Humidity:



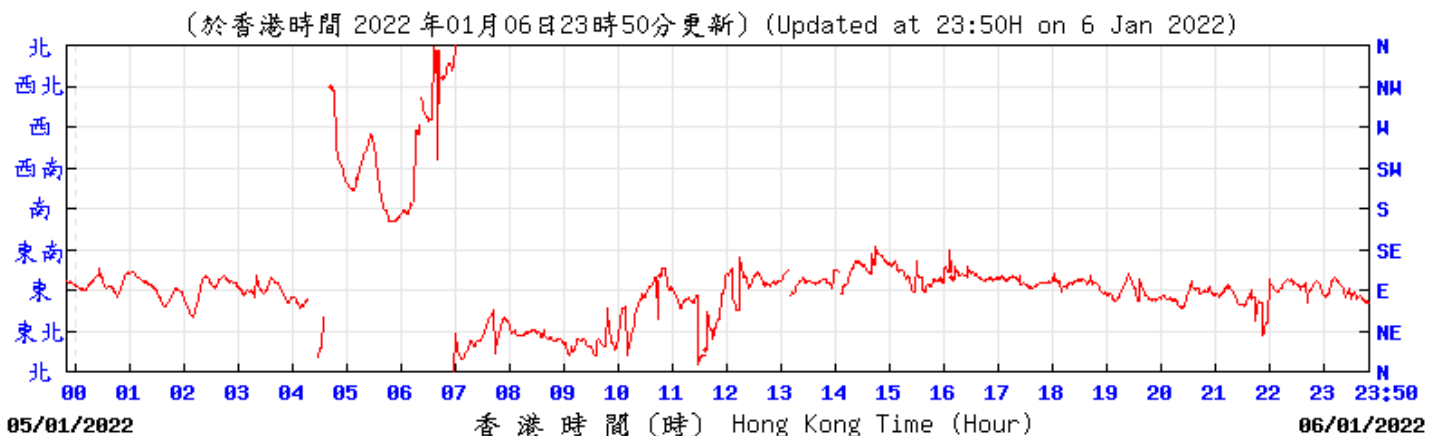
© 香港天文台 Hong Kong Observatory

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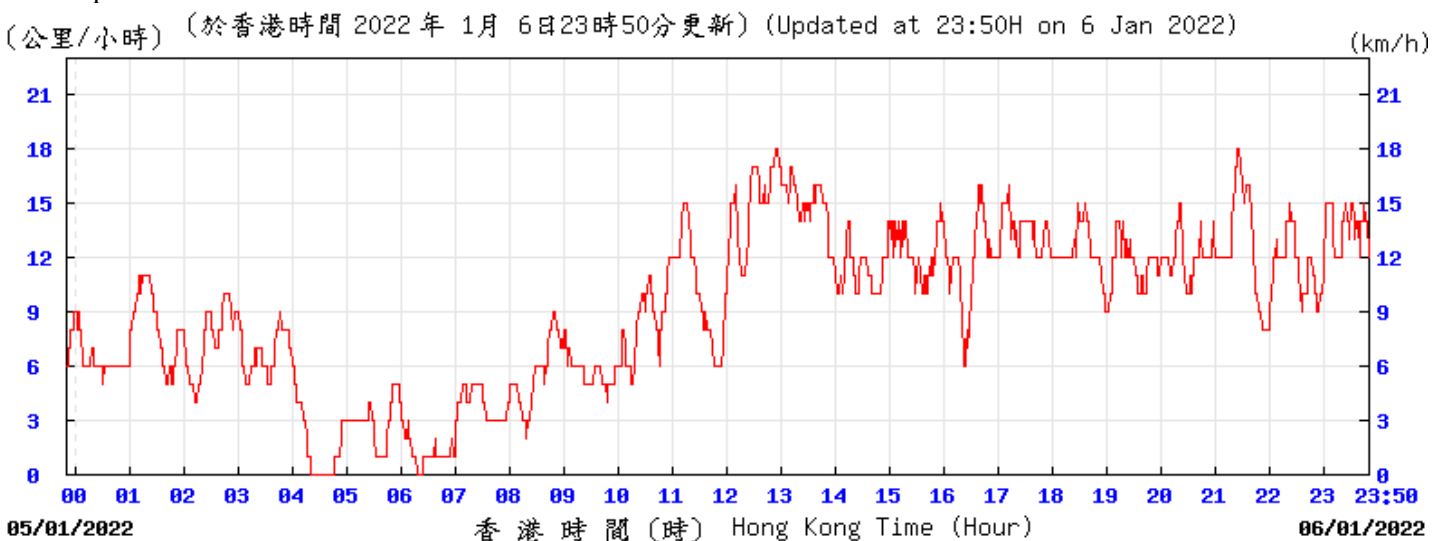
© 香港天文台 Hong Kong Observatory

Wind Direction:



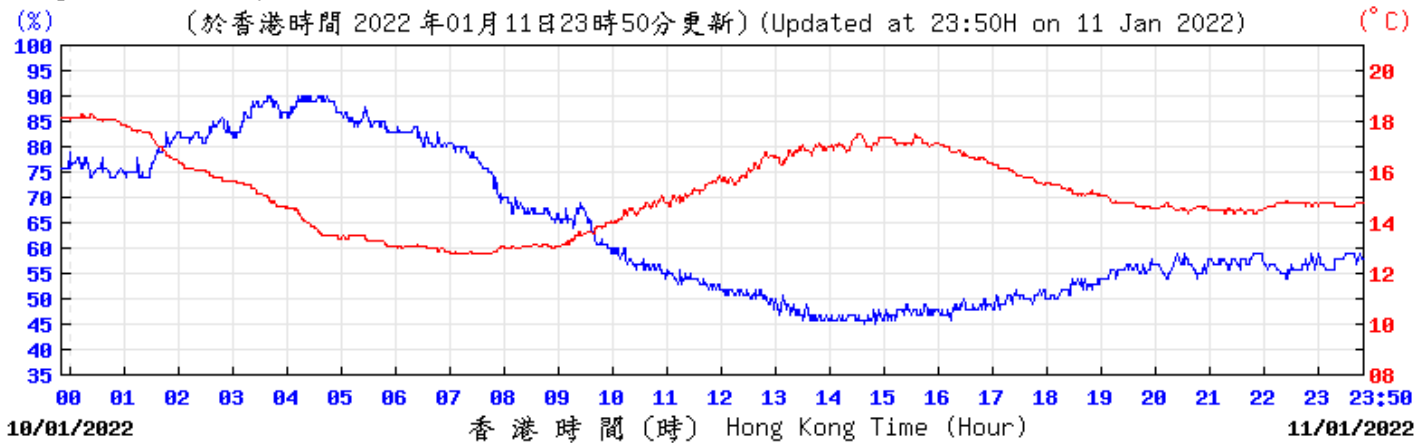
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Wind Speed:



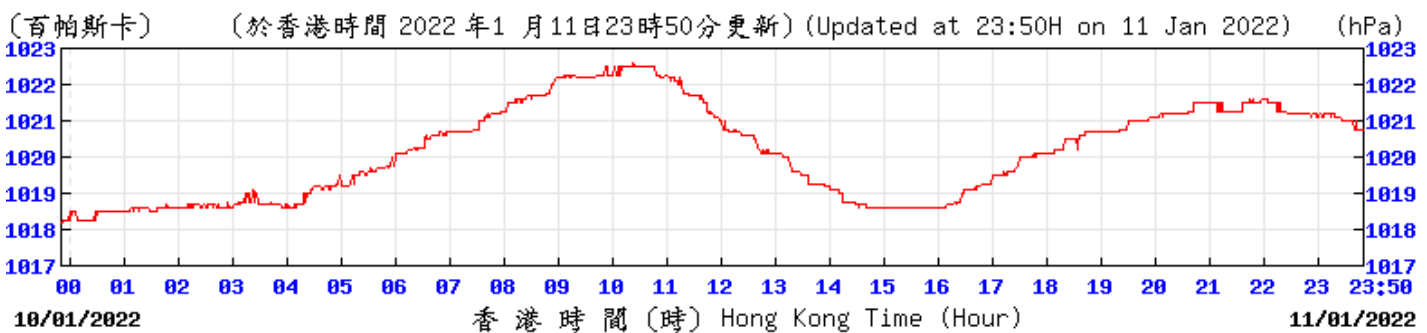
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Temperature/Humidity:



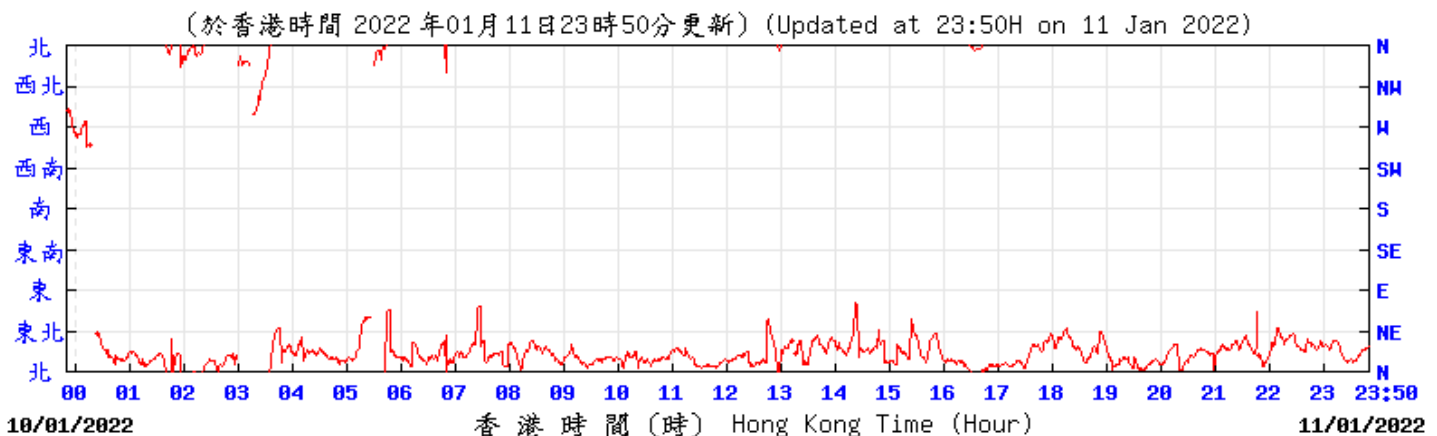
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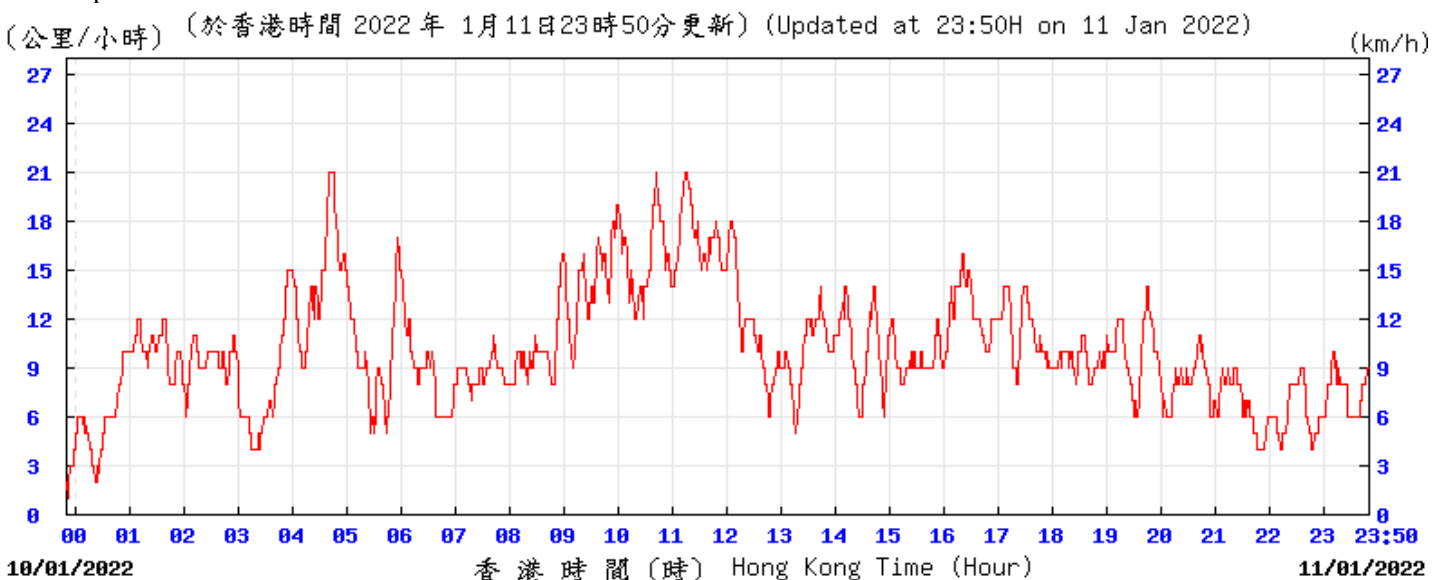
© 香港天文台 Hong Kong Observatory

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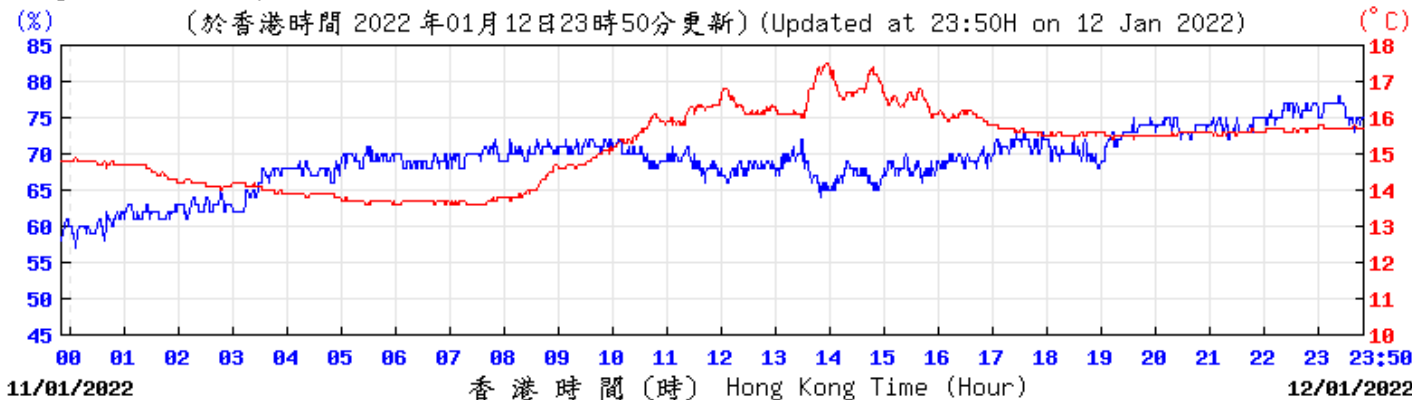
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Wind Speed:



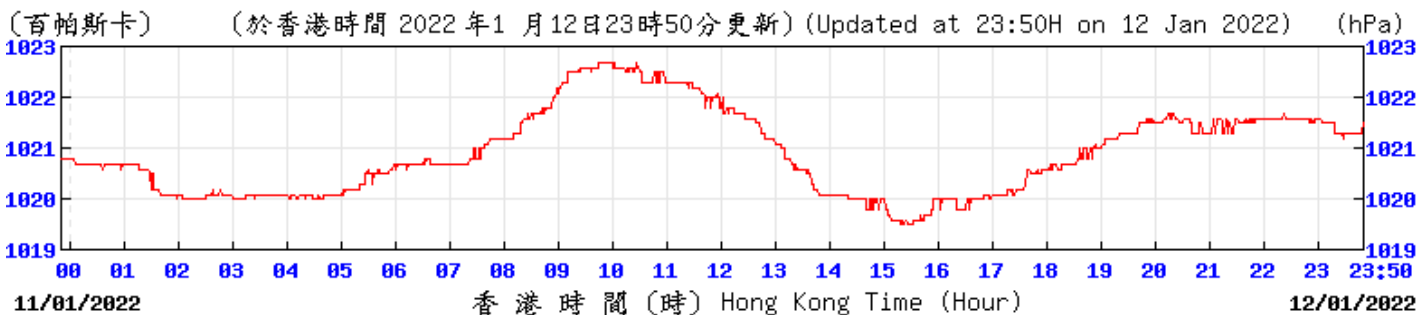
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Temperature/Humidity:



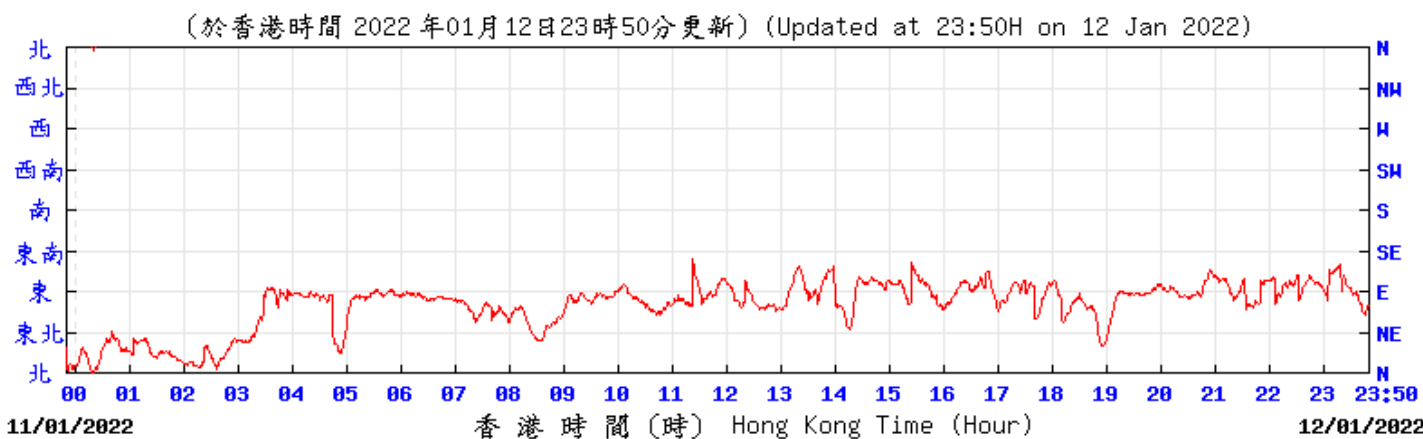
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Pressure:



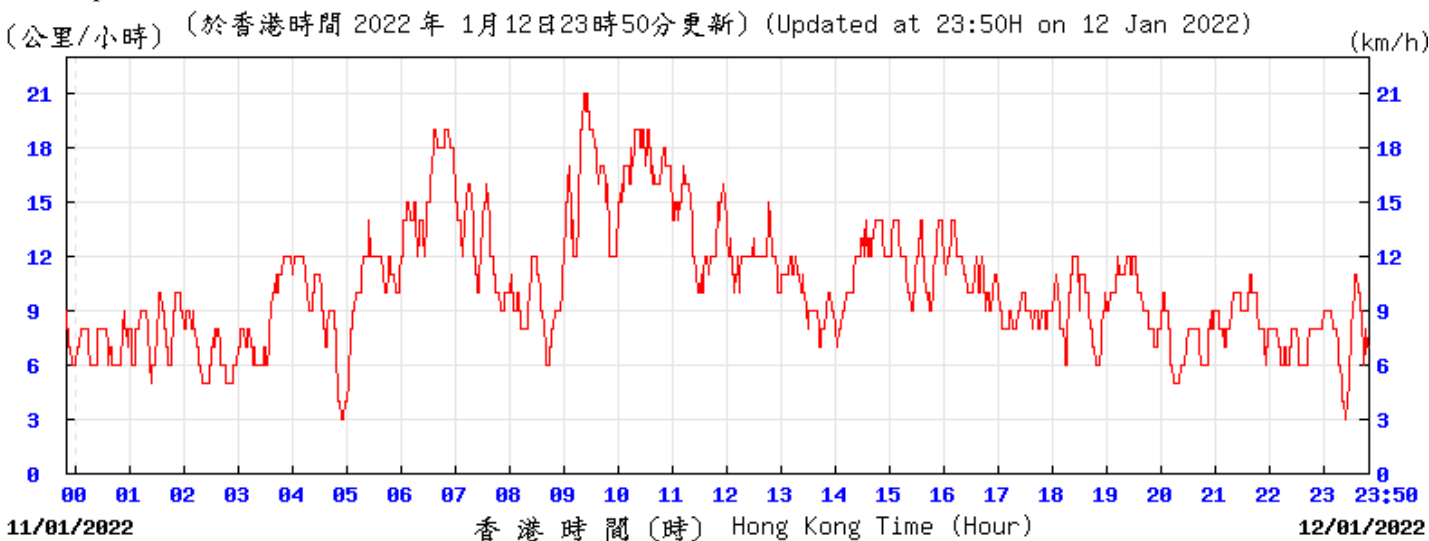
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Wind Direction:



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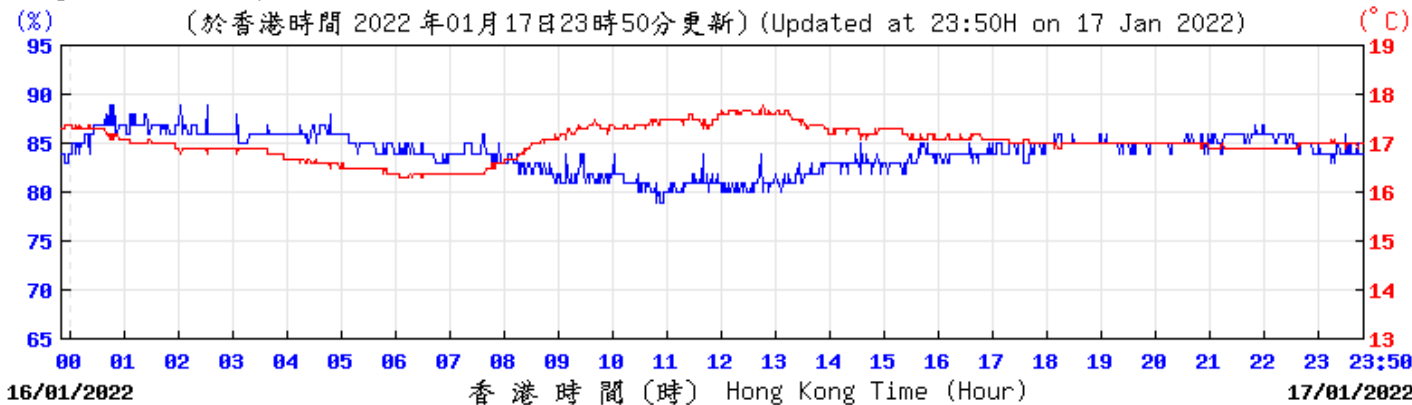
Wind Speed:



KPC

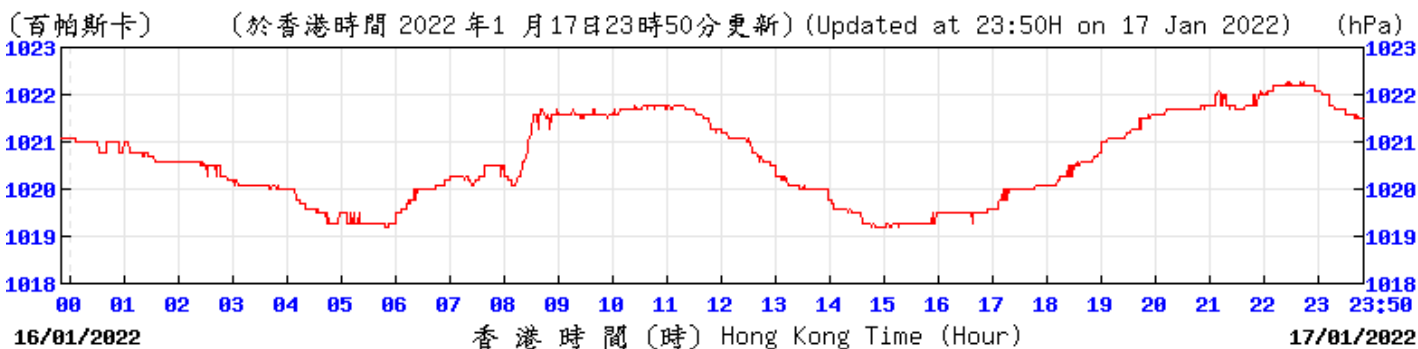
© 香港天文台 Hong Kong Observatory

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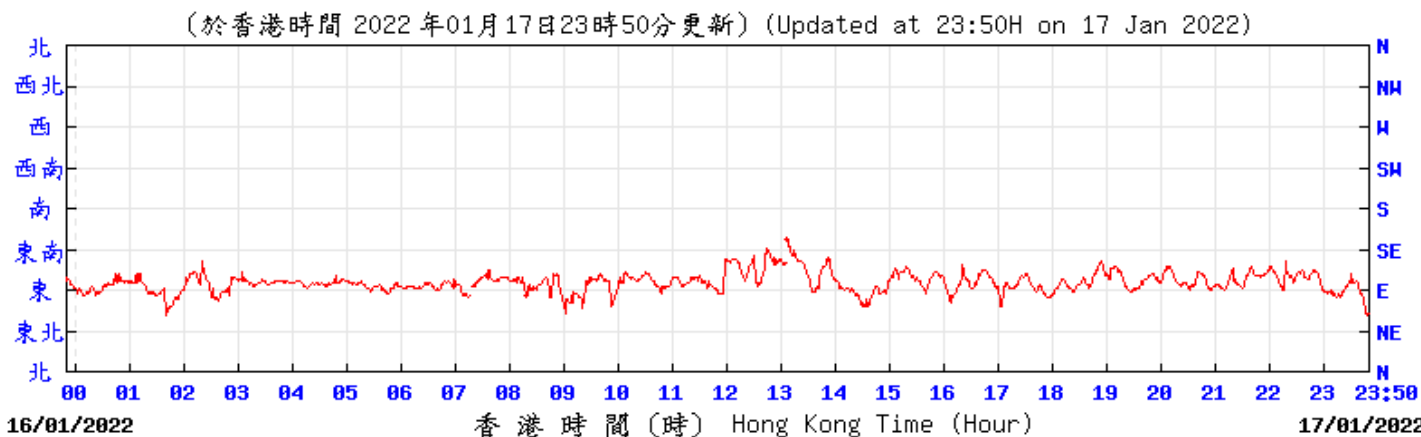
© 香港天文台 Hong Kong Observatory

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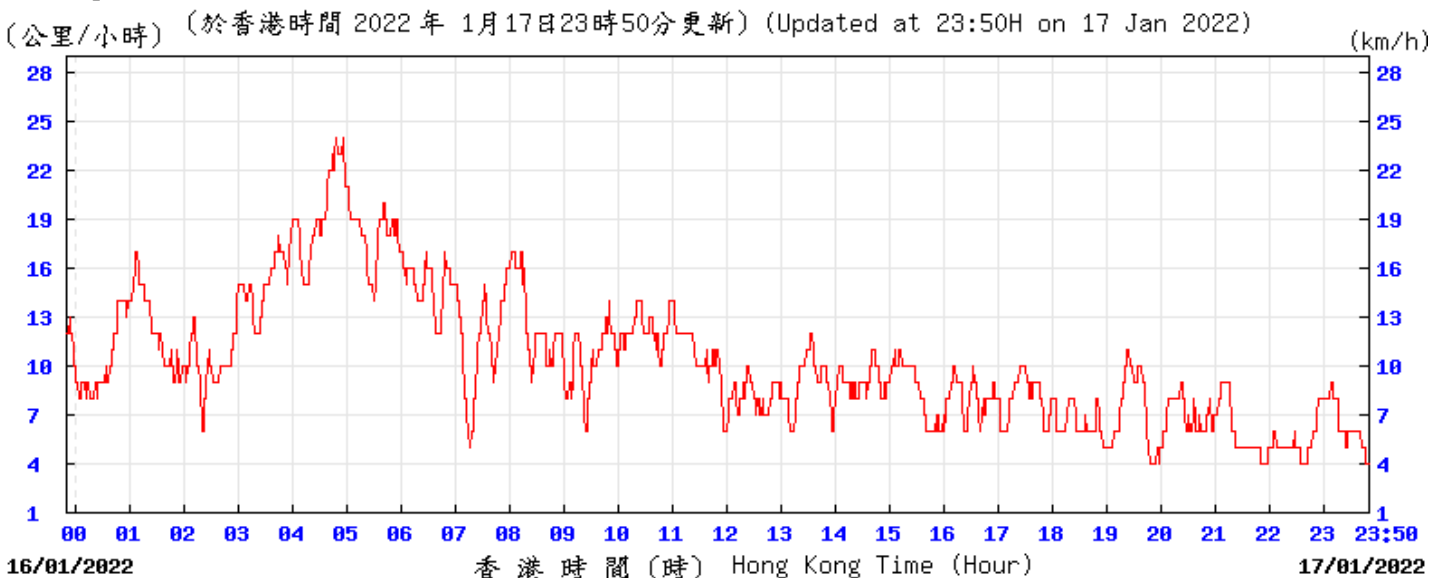
© 香港天文台 Hong Kong Observatory

Wind Direction:



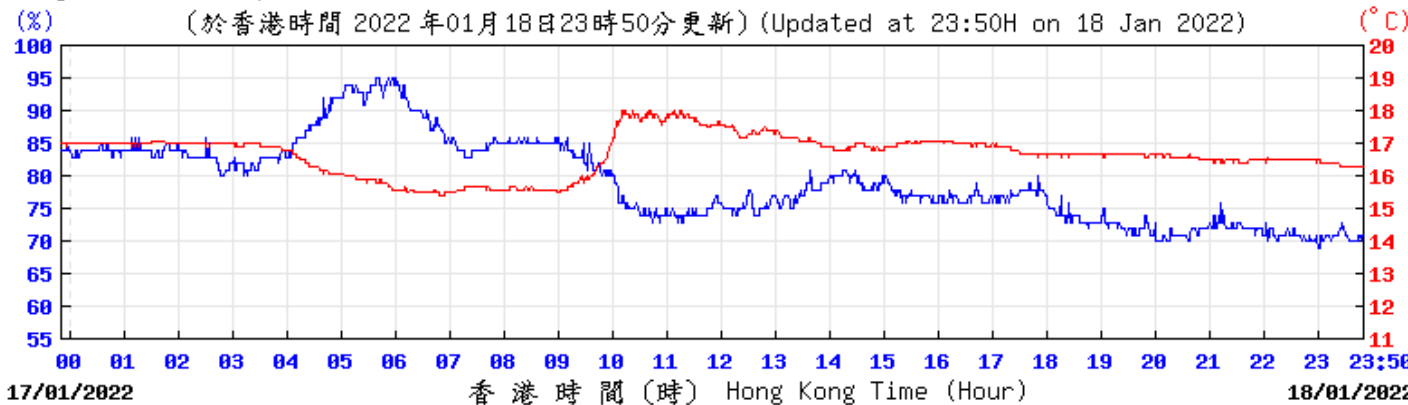
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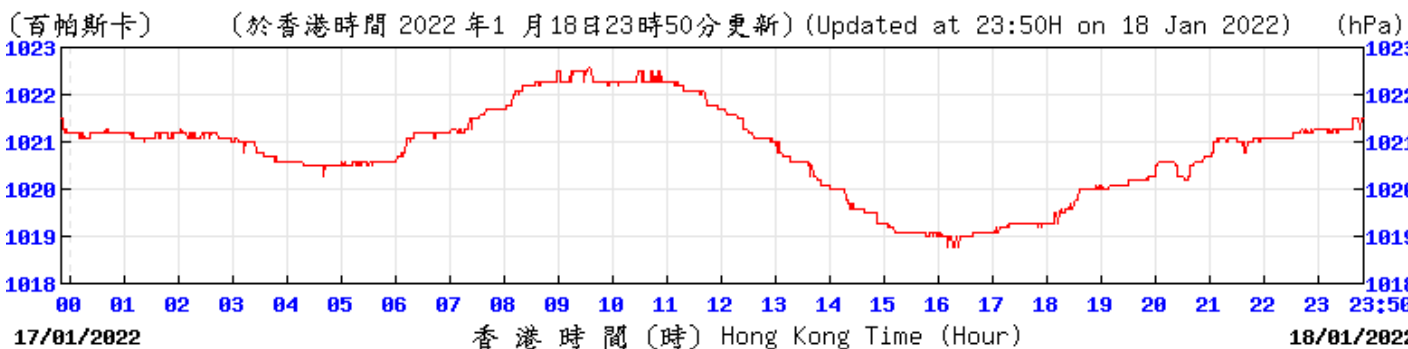
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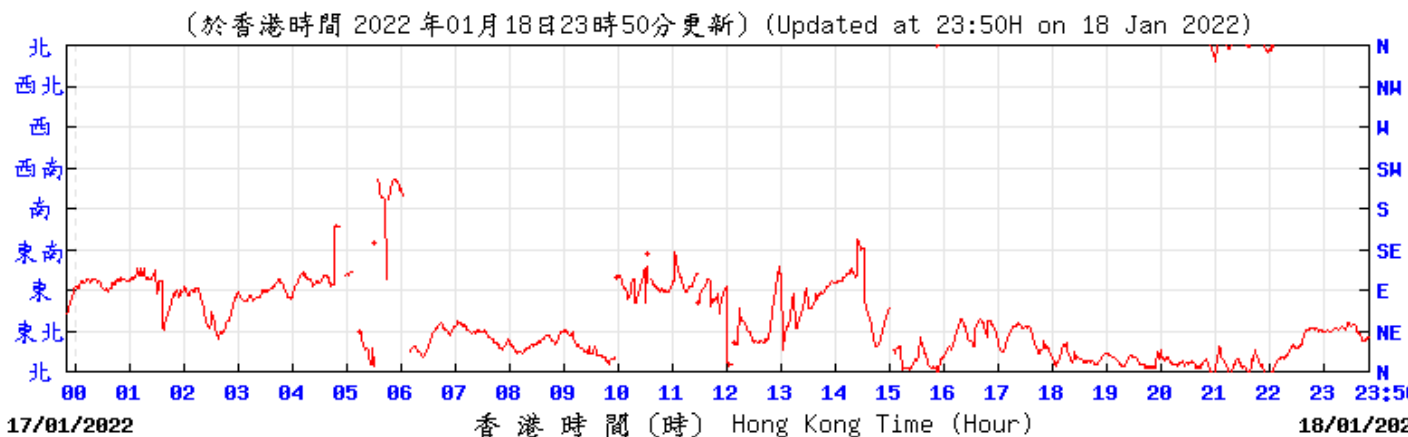
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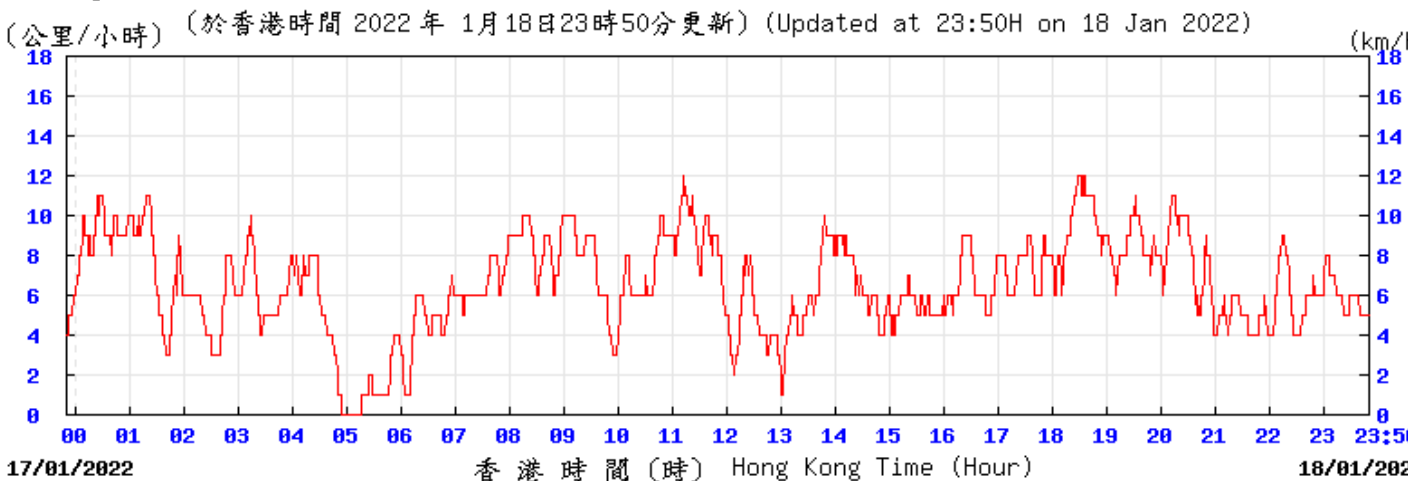
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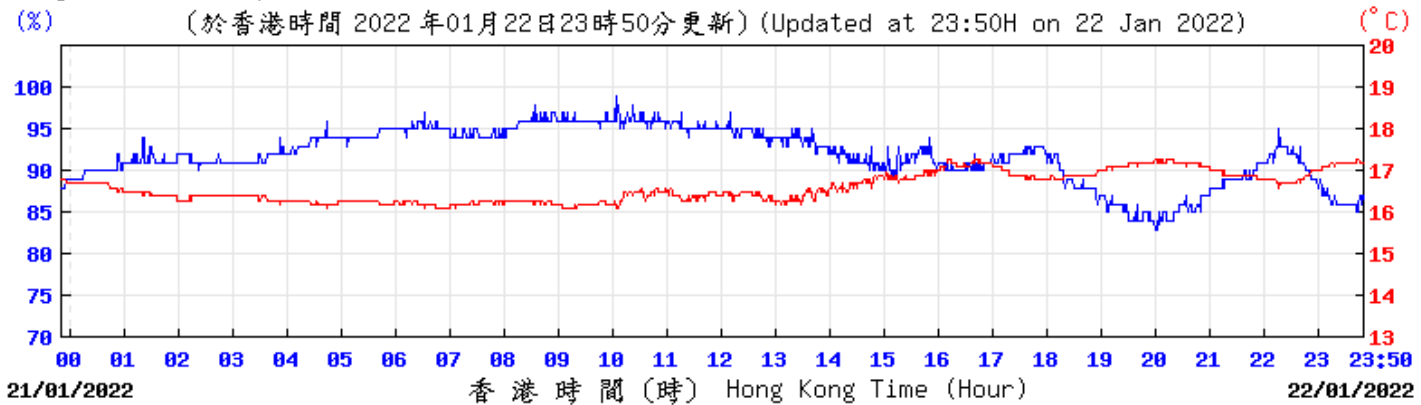
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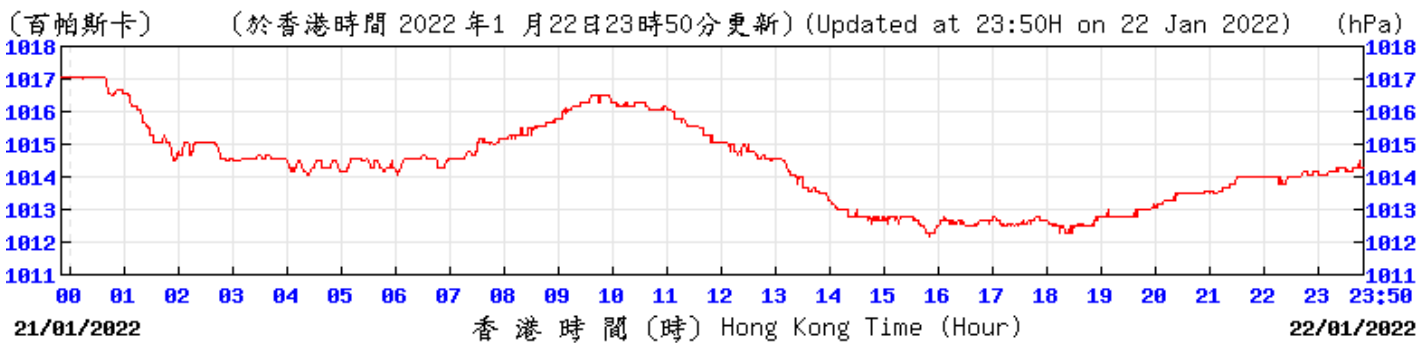
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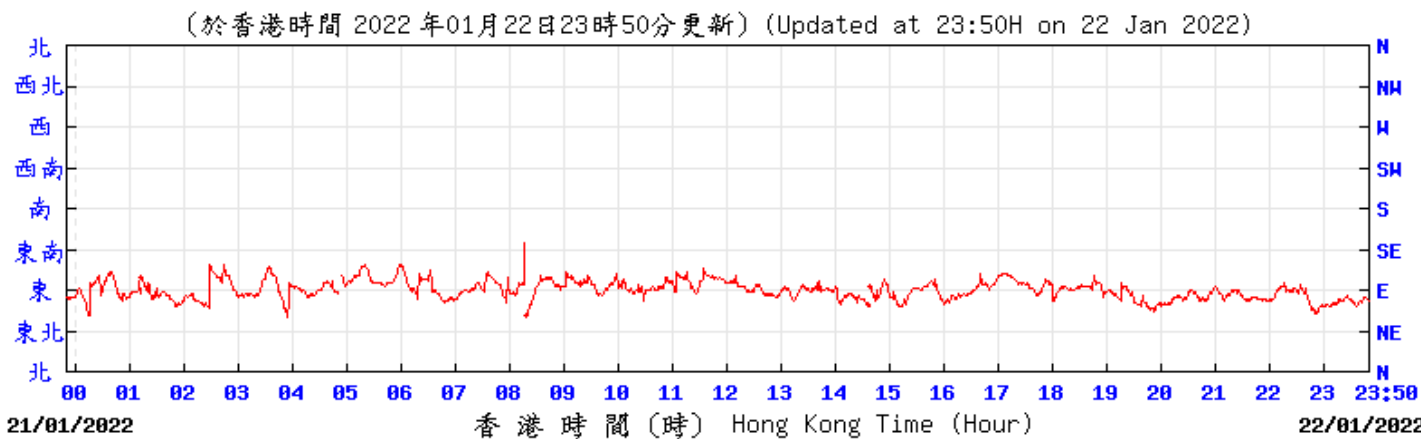
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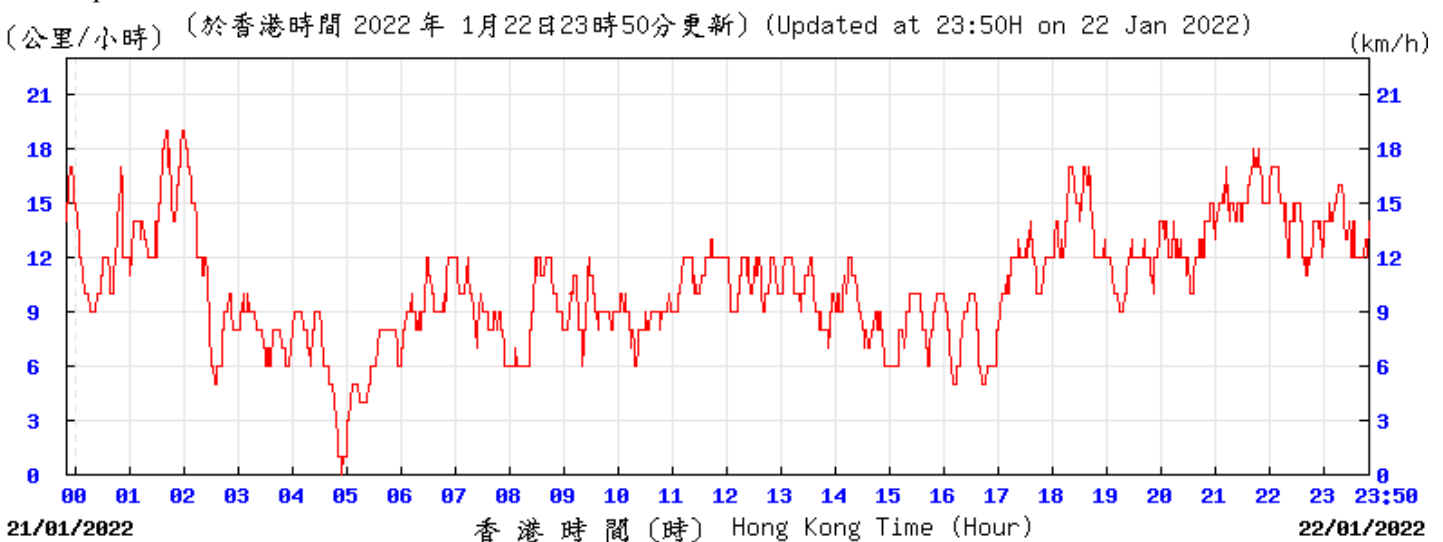
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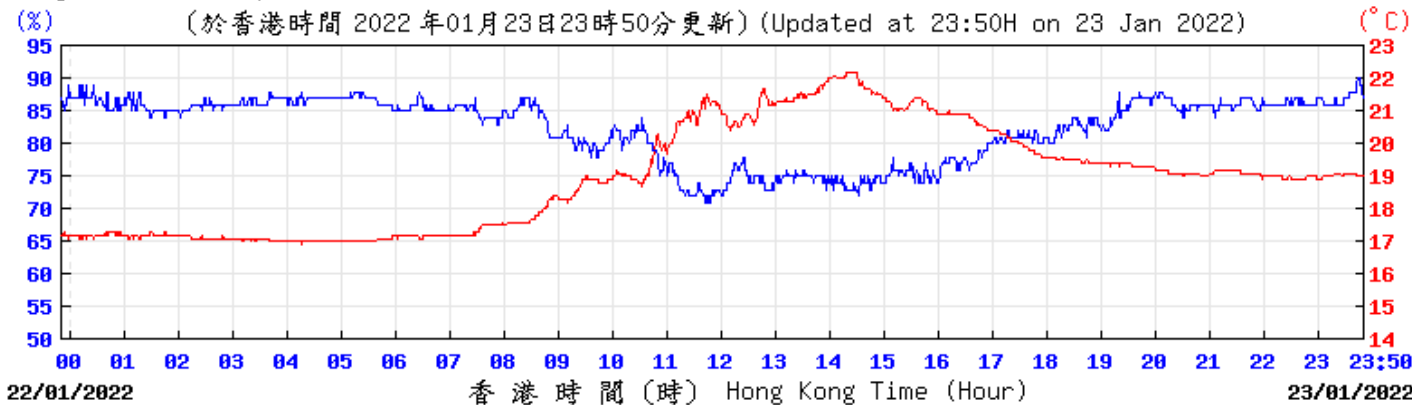
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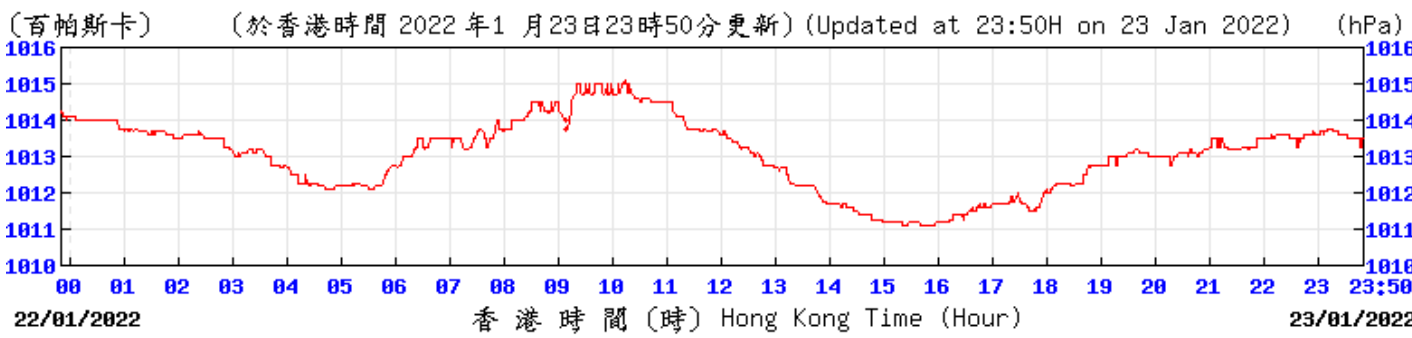
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Temperature/Humidity:



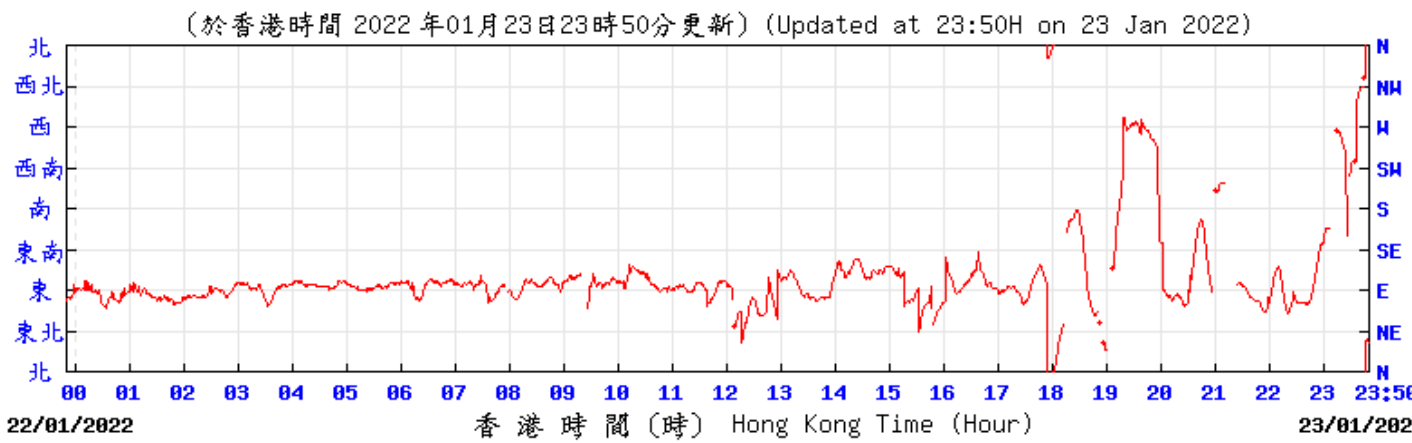
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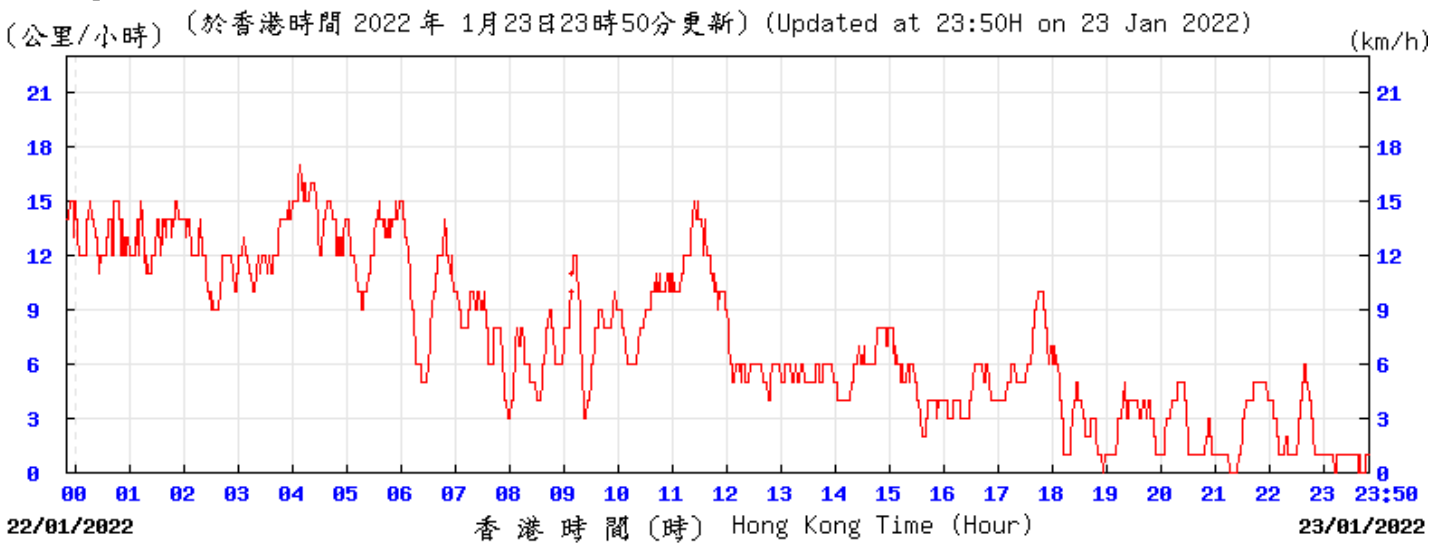
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Wind Direction:



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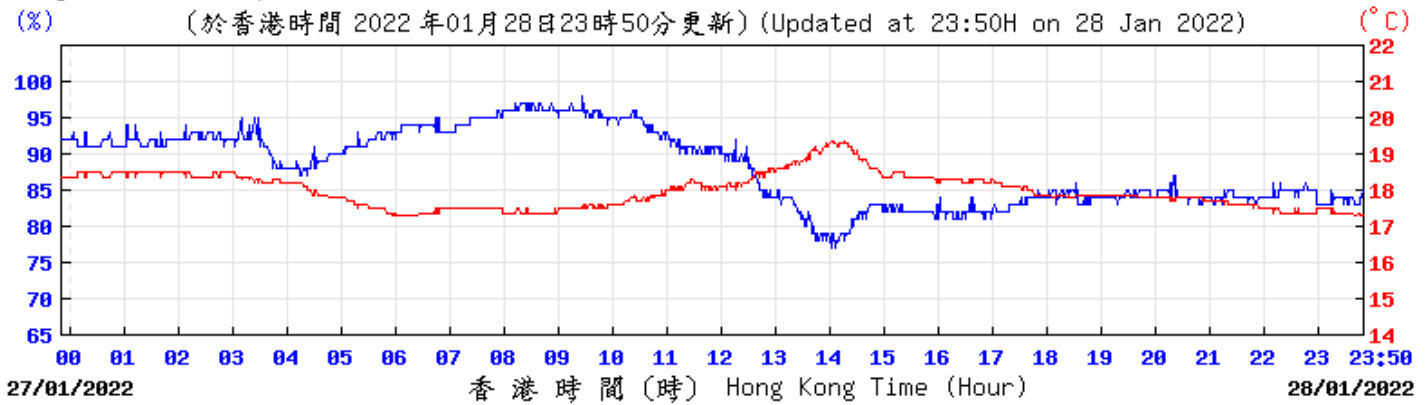
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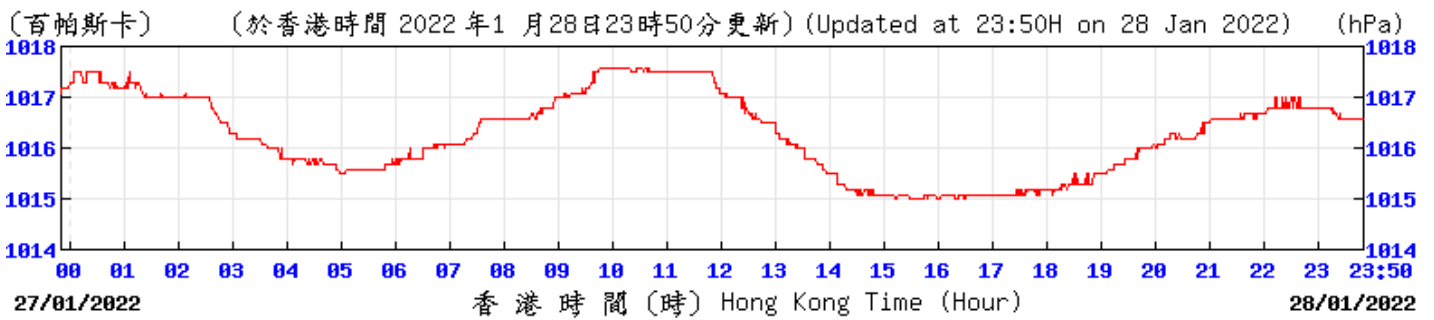
KPC

Temperature/Humidity:



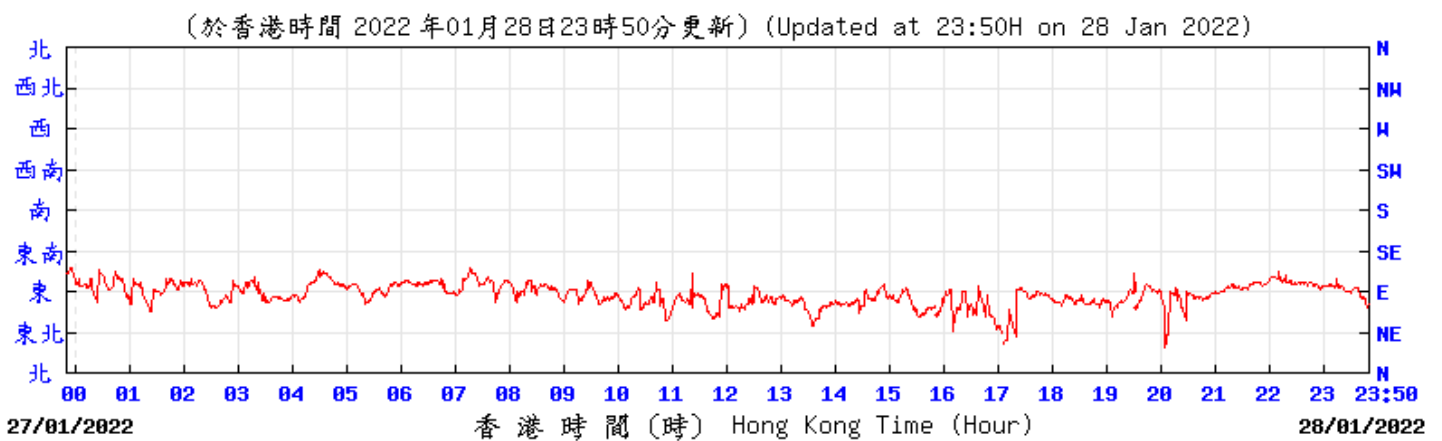
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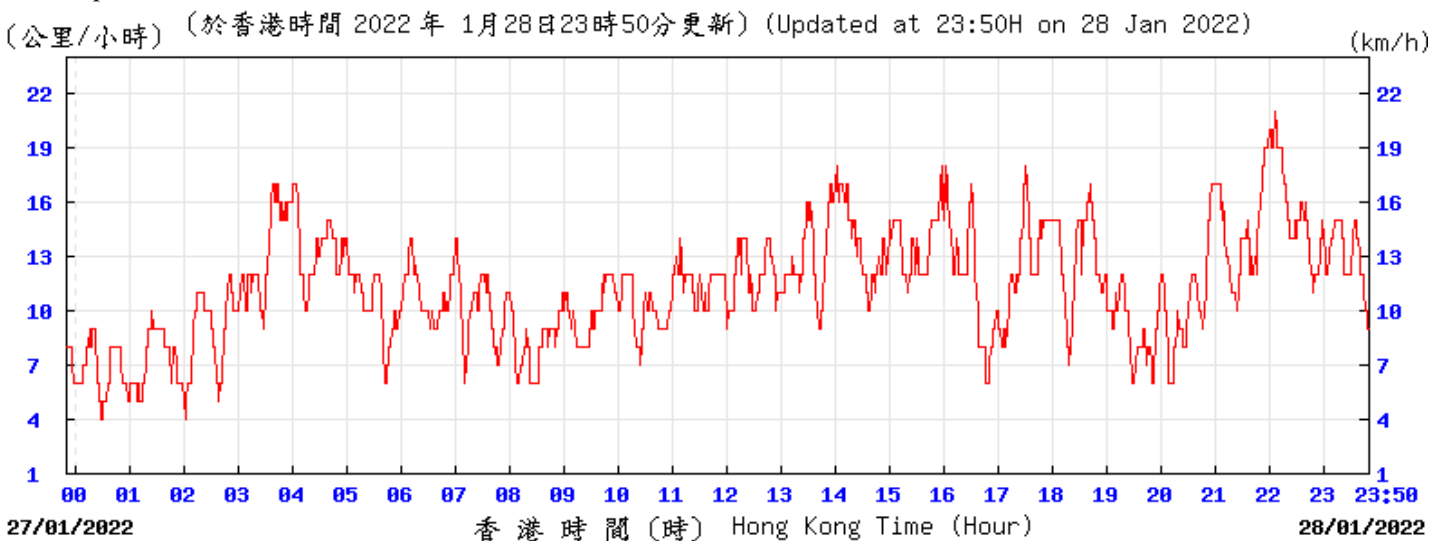
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Wind Direction:



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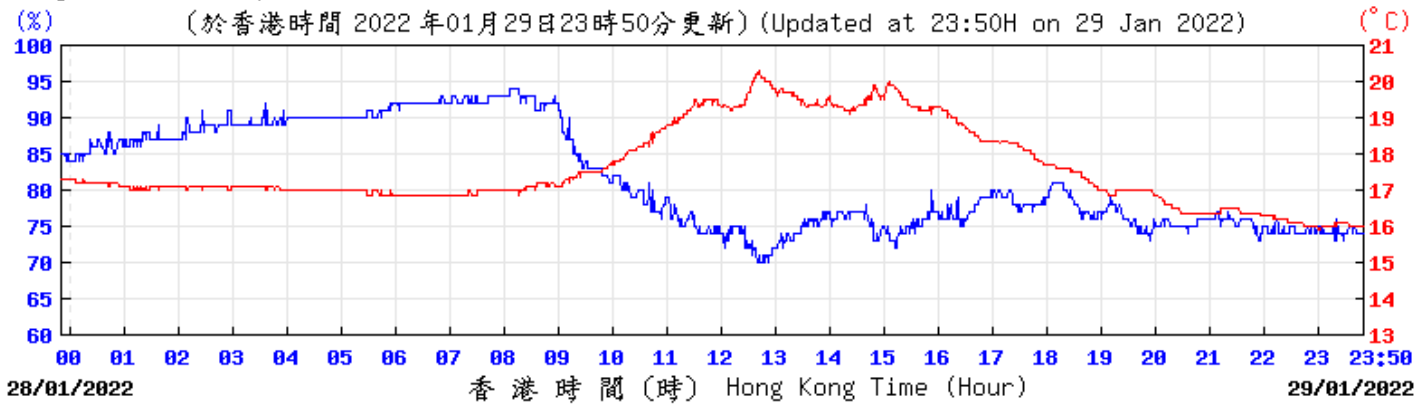
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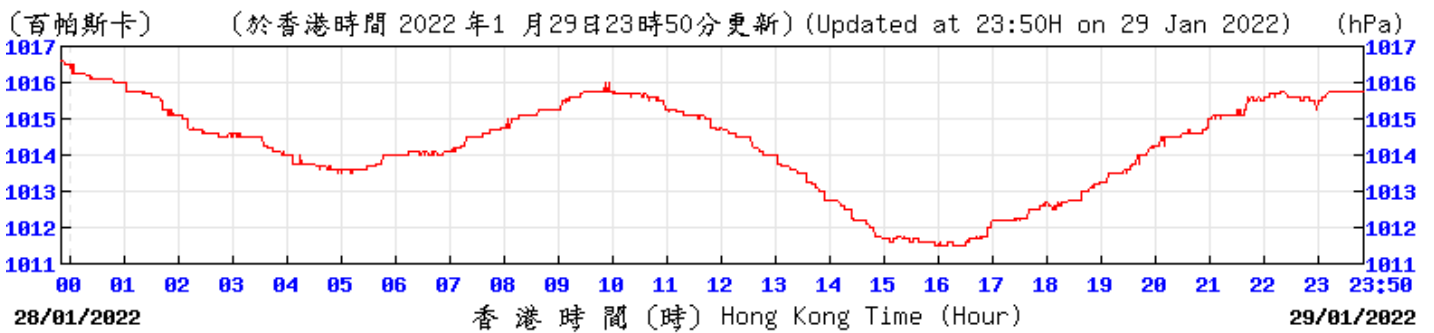
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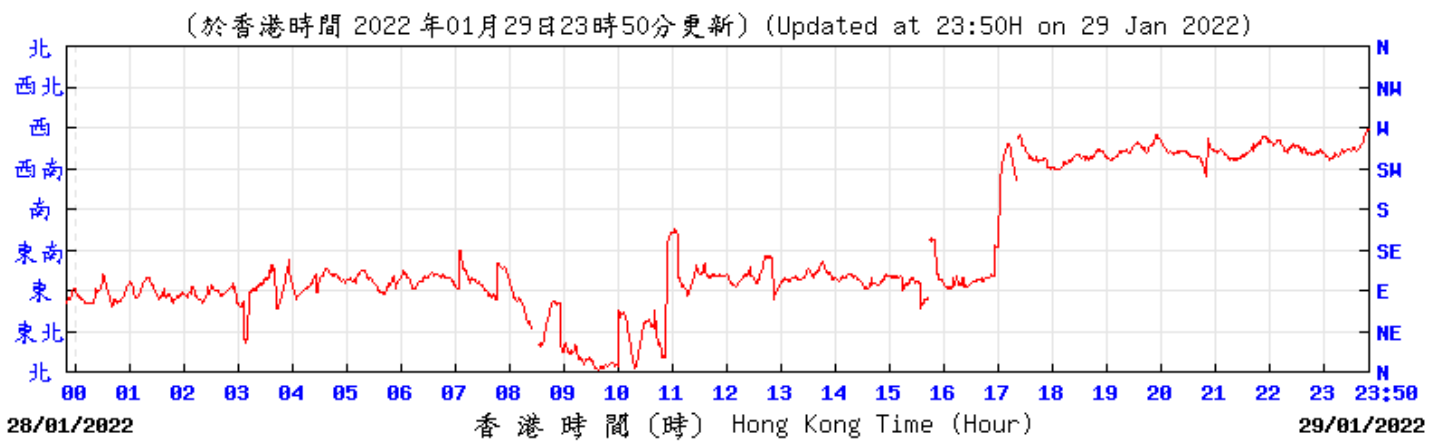
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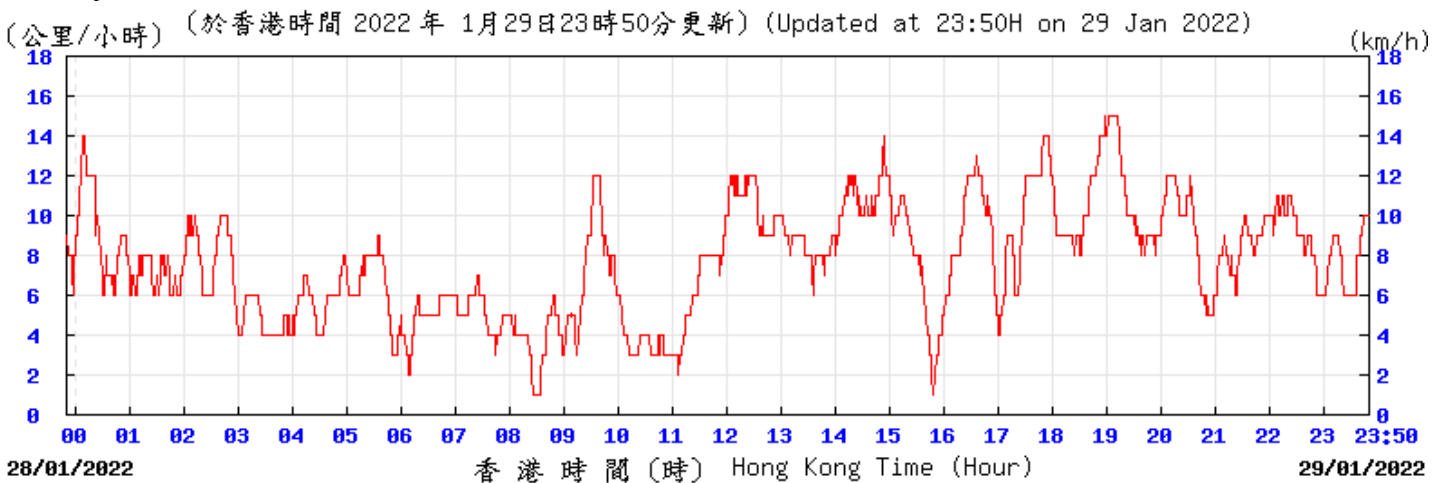
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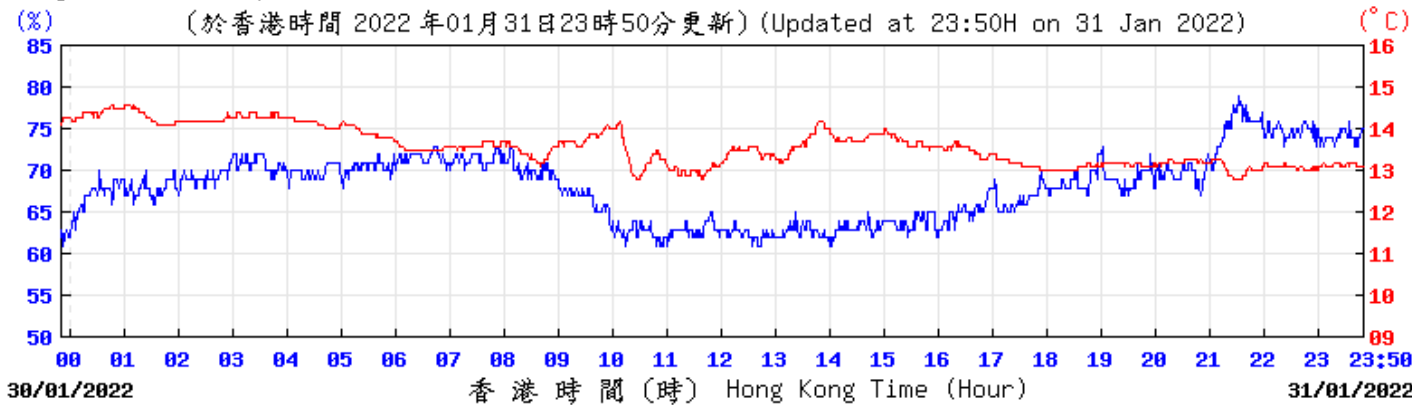
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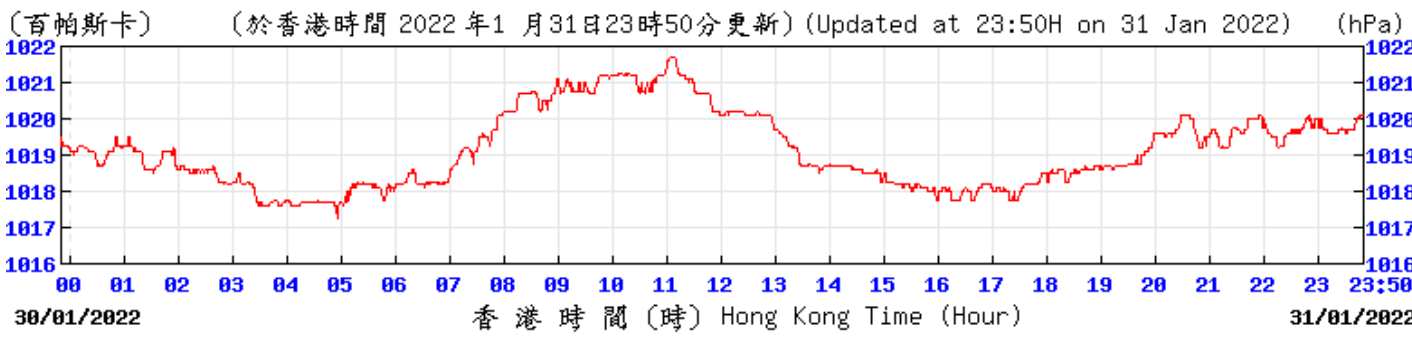
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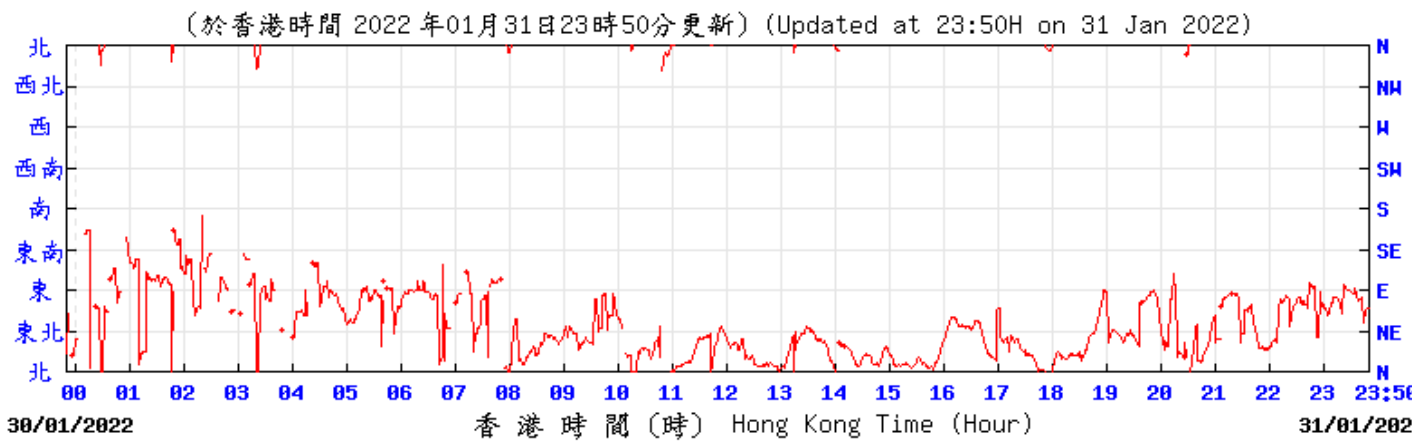
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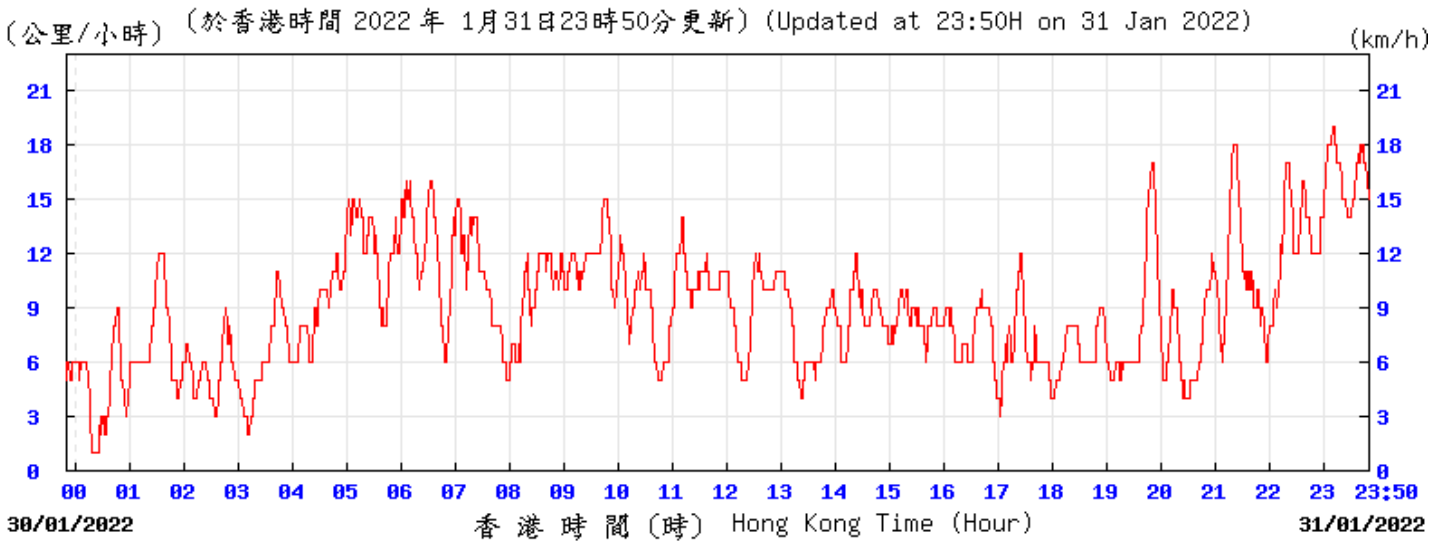
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Wind Direction:



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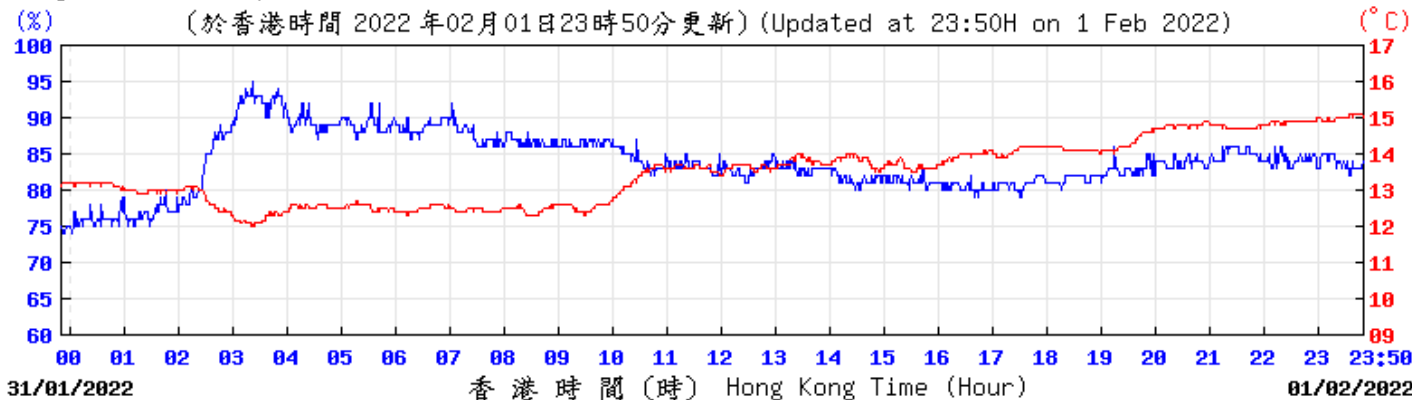
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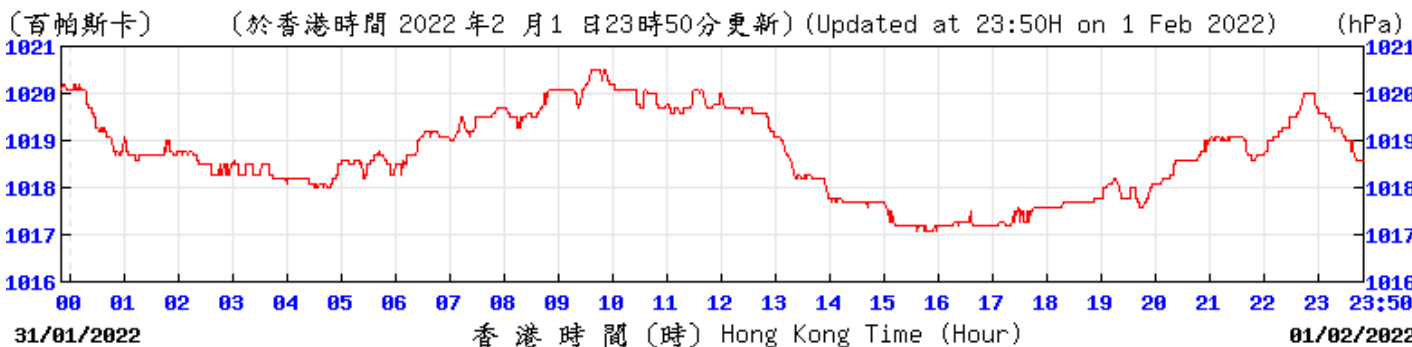
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Temperature/Humidity:



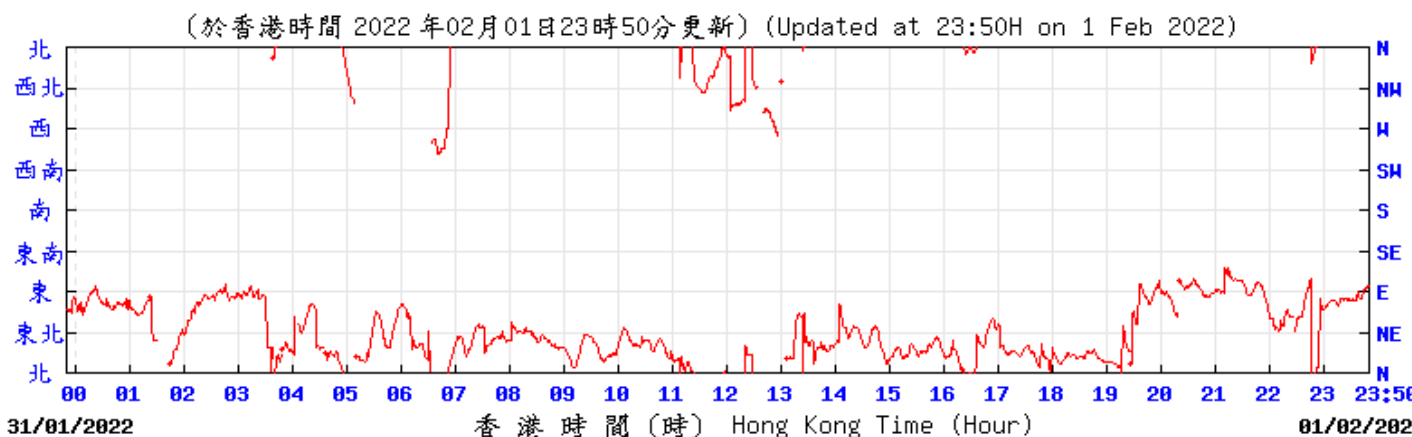
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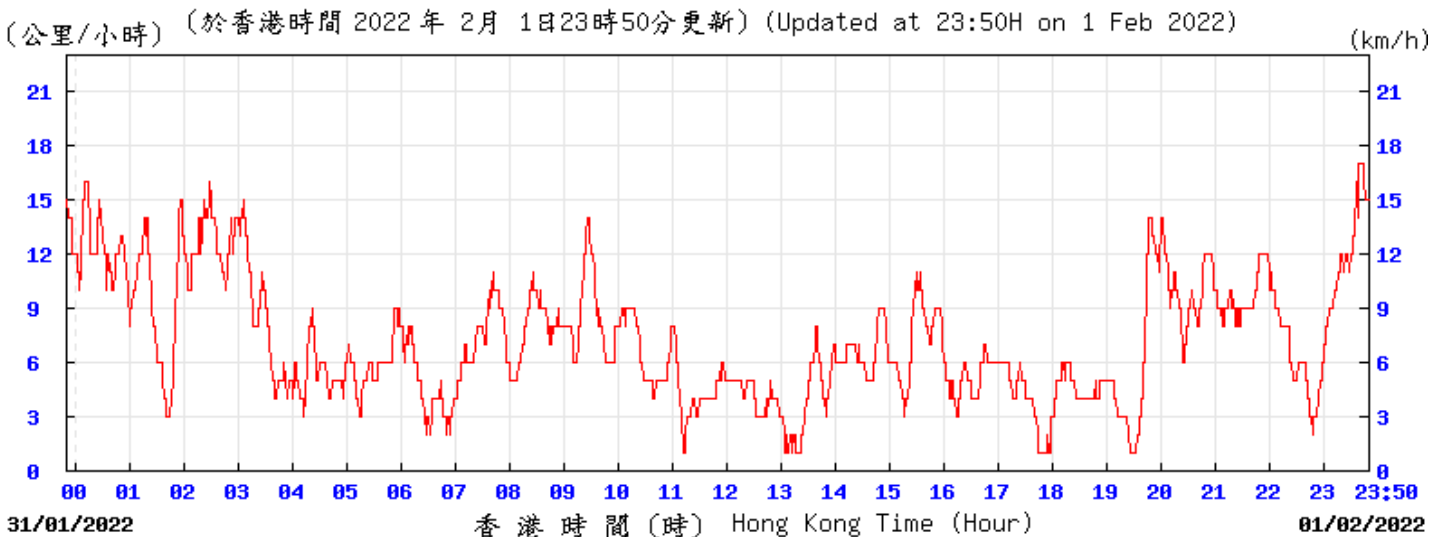
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Wind Direction:



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Wind Speed:



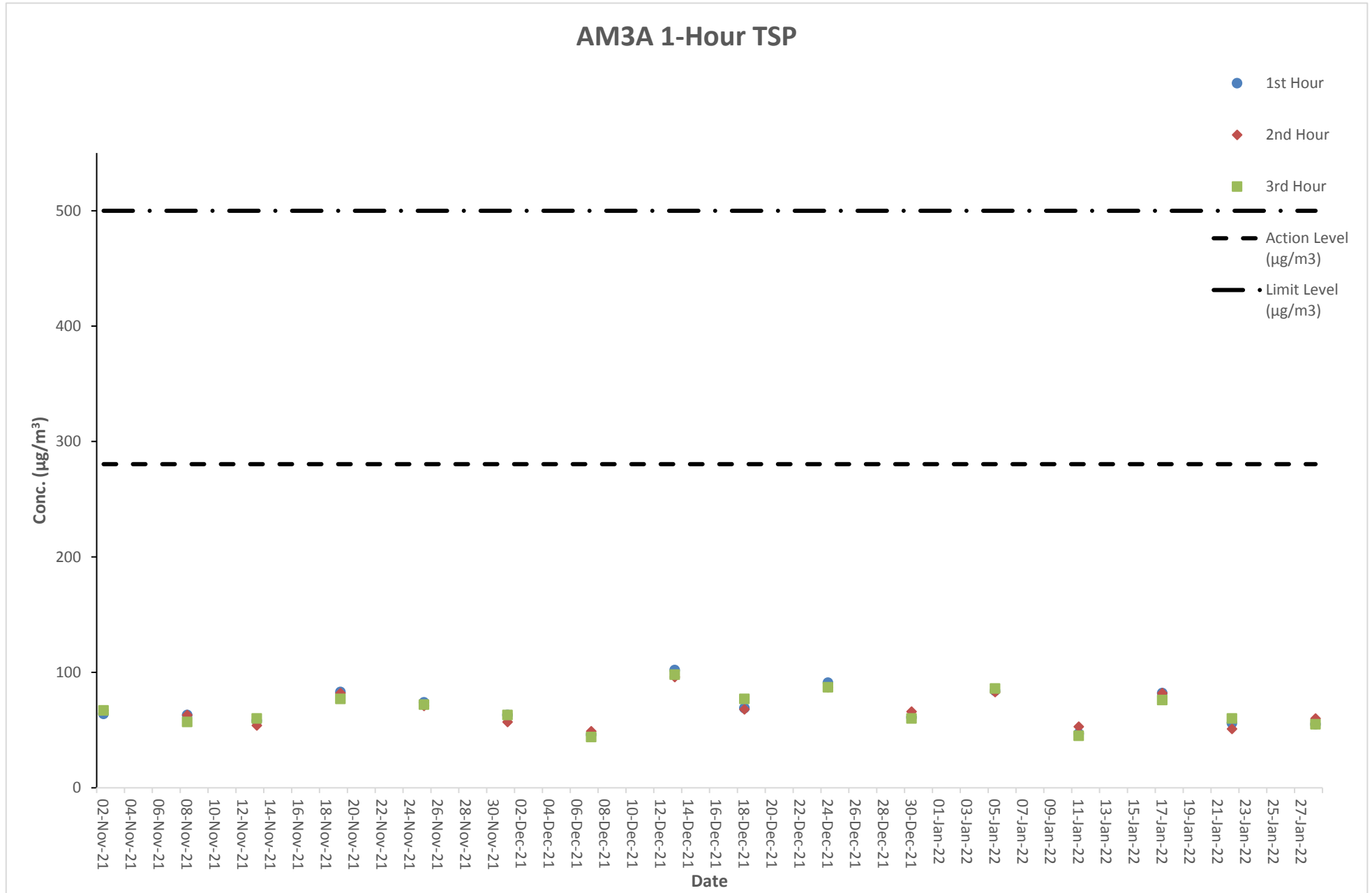
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E. Graphical Plots of the Monitoring Results

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 st Hour	2 nd Hour	3 rd Hour		
02-Nov-21	Fine	14:03 - 17:03	64	67	67	280.4	500
08-Nov-21	Cloudy	8:02 - 11:02	63	63	57	280.4	500
13-Nov-21	Cloudy	14:07 - 17:07	58	54	60	280.4	500
19-Nov-21	Cloudy	8:06 - 11:06	83	82	77	280.4	500
25-Nov-21	Fine	14:05 - 17:05	74	71	72	280.4	500
01-Dec-21	Fine	8:03 - 11:03	63	57	63	280.4	500
07-Dec-21	Fine	14:06 - 17:06	46	49	44	280.4	500
13-Dec-21	Fine	8:01 - 11:01	102	96	98	280.4	500
18-Dec-21	Fine	14:11 - 17:11	69	68	77	280.4	500
24-Dec-21	Cloudy	8:16 - 11:16	91	87	87	280.4	500
30-Dec-21	Fine	14:09 - 17:09	61	66	60	280.4	500
05-Jan-22	Fine	8:09 - 11:09	84	83	86	280.4	500
11-Jan-22	Fine	14:02 - 17:02	47	53	45	280.4	500
17-Jan-22	Fine	8:01 - 11:01	82	82	76	280.4	500
22-Jan-22	Fine	14:07 - 17:07	56	51	60	280.4	500
28-Jan-22	Cloudy	8:11 - 11:11	55	60	55	280.4	500
31-Jan-22	Fine	14:10 - 17:10	49	48	45	280.4	500

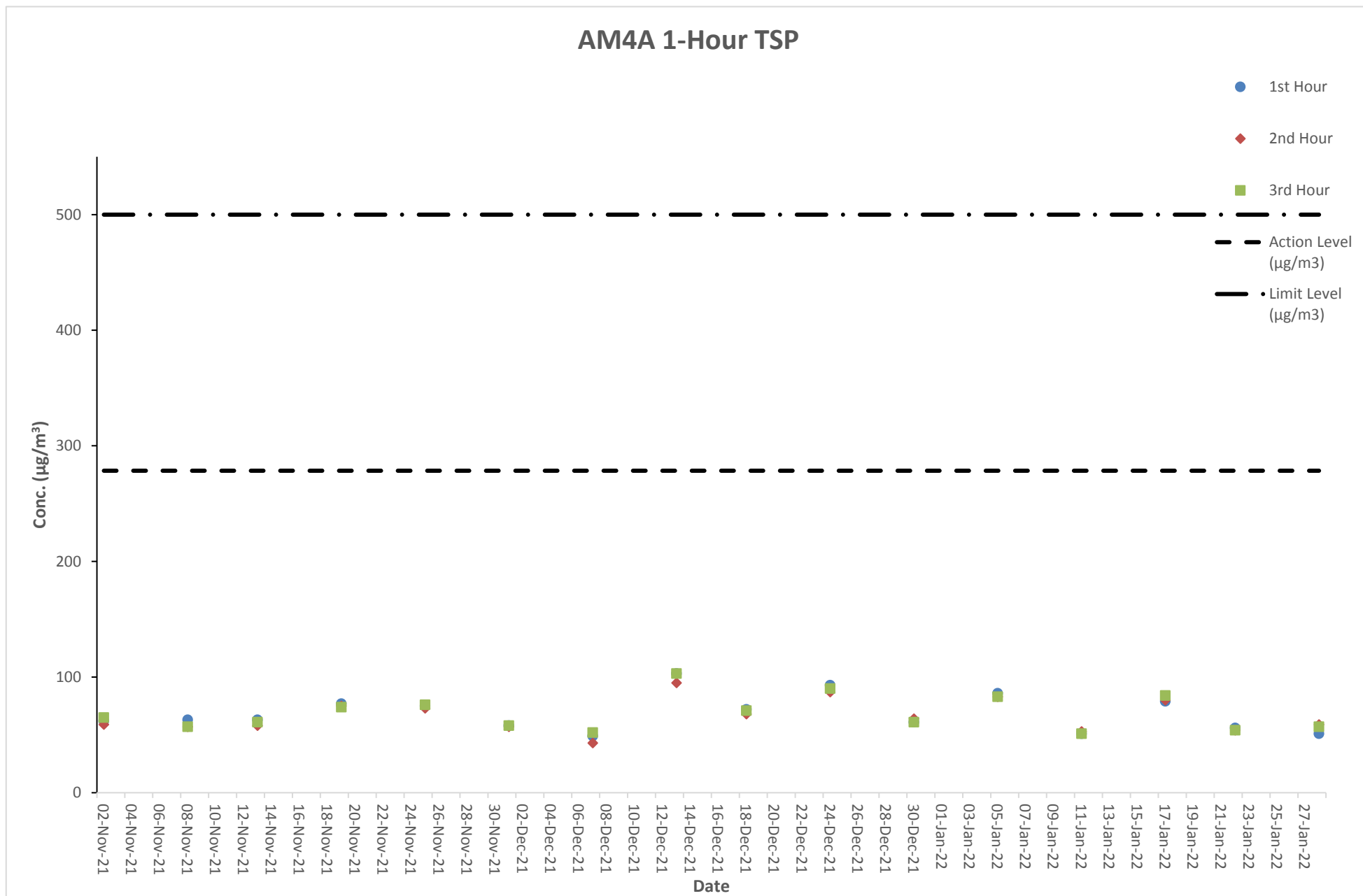
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



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 st Hour	2 nd Hour	3 rd Hour		
02-Nov-21	Fine	14:11 - 17:11	62	59	65	278.5	500
08-Nov-21	Cloudy	8:10 - 11:10	63	57	57	278.5	500
13-Nov-21	Cloudy	14:15 - 17:15	63	58	61	278.5	500
19-Nov-21	Cloudy	8:14 - 11:14	77	75	74	278.5	500
25-Nov-21	Fine	14:13 - 17:13	75	73	76	278.5	500
01-Dec-21	Fine	8:11 - 11:11	58	57	58	278.5	500
07-Dec-21	Fine	14:14 - 17:14	49	43	52	278.5	500
13-Dec-21	Fine	8:09 - 11:09	103	95	103	278.5	500
18-Dec-21	Fine	14:19 - 17:19	72	68	71	278.5	500
24-Dec-21	Cloudy	8:24 - 11:24	93	87	90	278.5	500
30-Dec-21	Fine	14:17 - 17:17	61	64	61	278.5	500
05-Jan-22	Fine	8:17 - 11:17	86	83	83	278.5	500
11-Jan-22	Fine	14:10 - 17:10	51	53	51	278.5	500
17-Jan-22	Fine	8:09 - 11:09	79	80	84	278.5	500
22-Jan-22	Fine	14:15 - 17:15	56	54	54	278.5	500
28-Jan-22	Cloudy	8:19 - 11:19	51	59	57	278.5	500
31-Jan-22	Fine	14:18 - 17:18	47	50	49	278.5	500

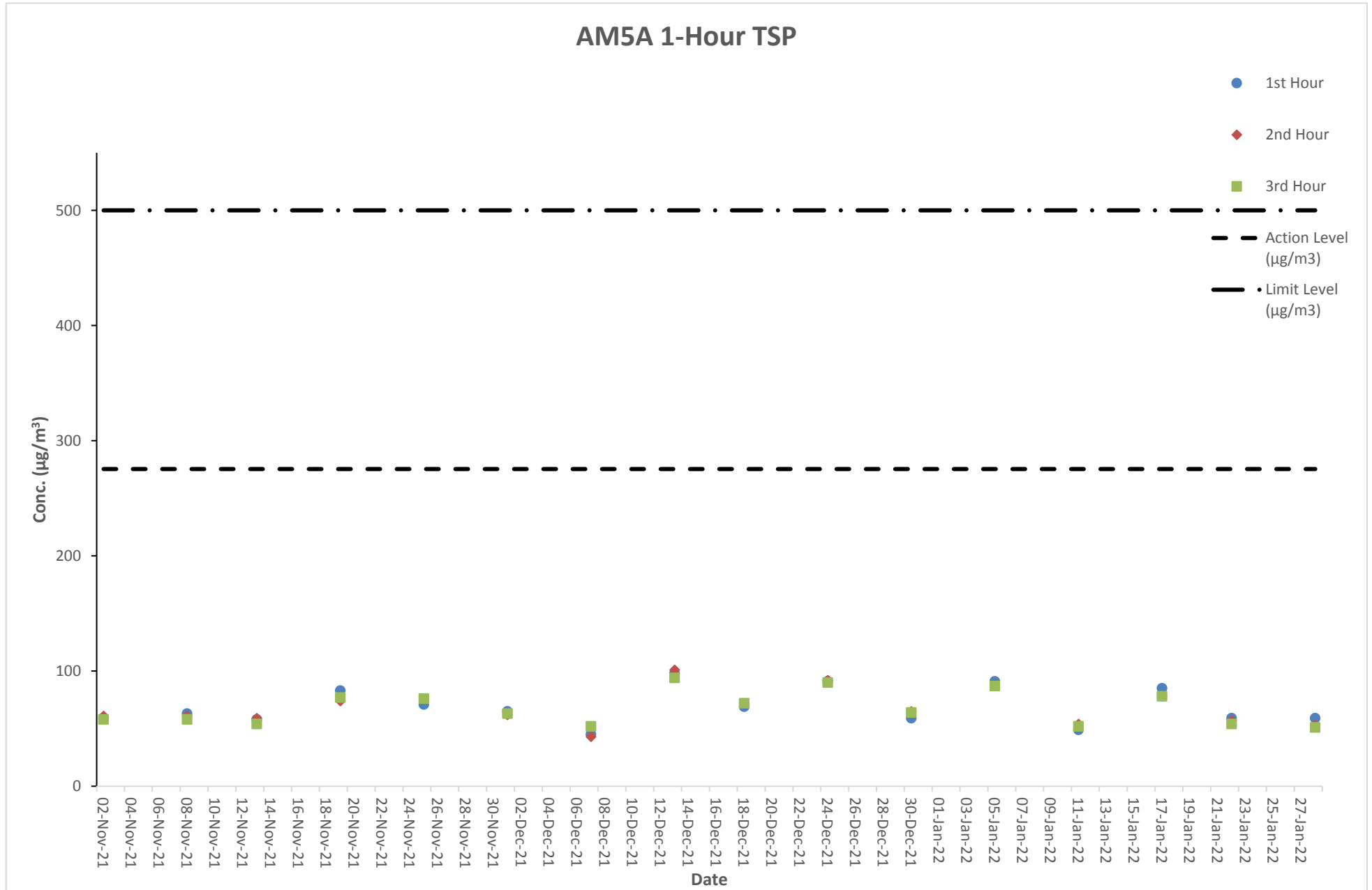
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (1-hour TSP)



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 st Hour	2 nd Hour	3 rd Hour		
02-Nov-21	Fine	14:26 - 17:26	59	61	58	275.4	500
08-Nov-21	Cloudy	8:27 - 11:27	63	61	58	275.4	500
13-Nov-21	Cloudy	14:30 - 17:30	58	59	54	275.4	500
19-Nov-21	Cloudy	8:31 - 11:31	83	74	77	275.4	500
25-Nov-21	Fine	14:28 - 17:28	71	76	76	275.4	500
01-Dec-21	Fine	8:26 - 11:26	65	62	63	275.4	500
07-Dec-21	Fine	14:31 - 17:31	45	43	52	275.4	500
13-Dec-21	Fine	8:24 - 11:24	98	101	94	275.4	500
18-Dec-21	Fine	14:36 - 17:36	69	72	72	275.4	500
24-Dec-21	Cloudy	8:39 - 11:39	91	92	90	275.4	500
30-Dec-21	Fine	14:25 - 17:25	59	65	64	275.4	500
05-Jan-22	Fine	8:32 - 11:32	91	88	87	275.4	500
11-Jan-22	Fine	14:27 - 17:27	49	54	52	275.4	500
17-Jan-22	Fine	8:24 - 11:24	85	78	78	275.4	500
22-Jan-22	Fine	14:32 - 17:32	59	57	54	275.4	500
28-Jan-22	Cloudy	8:34 - 11:34	59	53	51	275.4	500
31-Jan-22	Fine	14:26 - 17:26	47	53	47	275.4	500

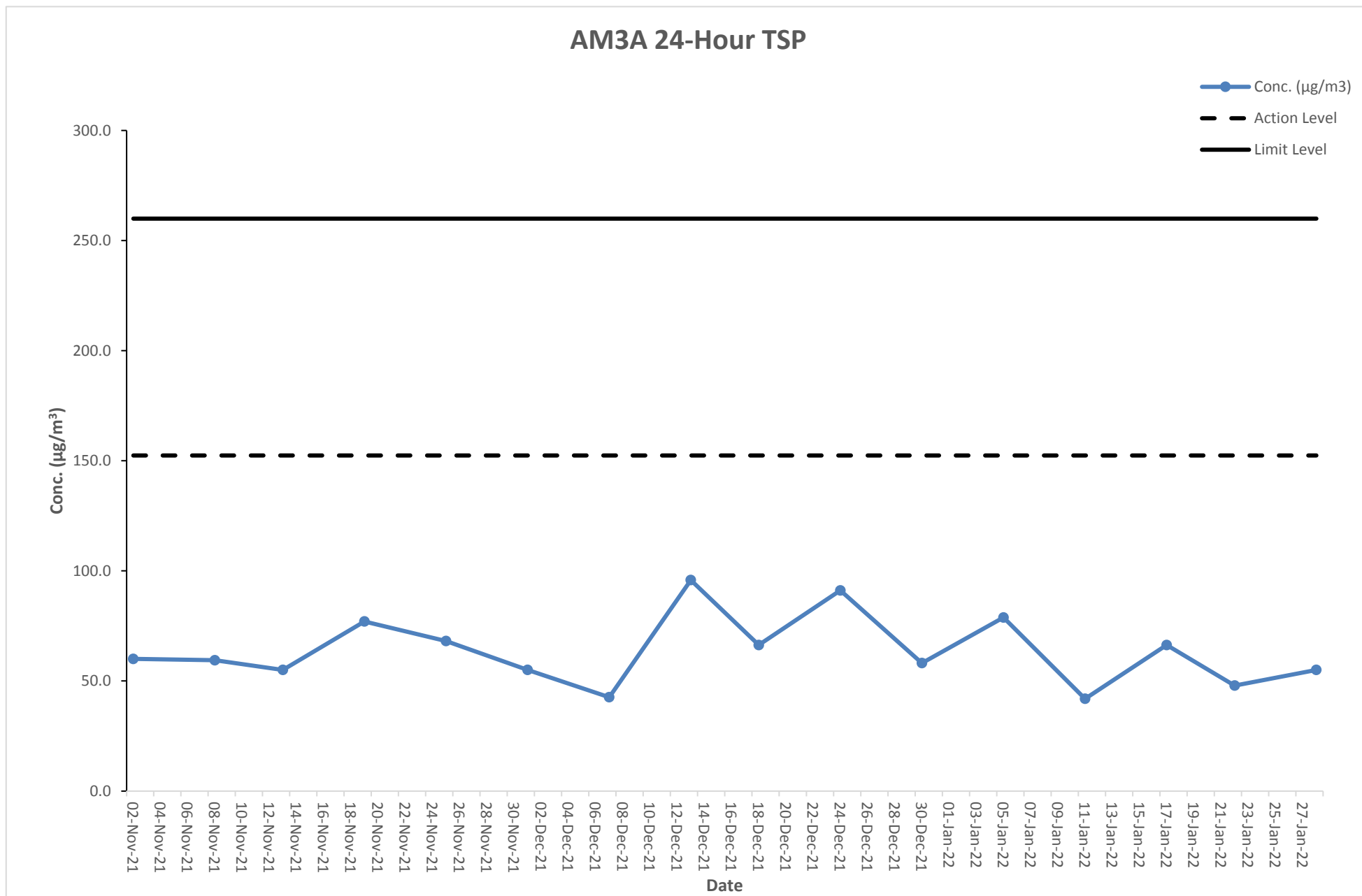
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Nov-21	10:00	03-Nov-21	10:00	2.8074	2.9040	2734.8	2758.8	24	1.12	1.12	1.12	60.0	Fine	152.4	260
08-Nov-21	10:00	09-Nov-21	10:00	2.8052	2.9008	2758.8	2782.8	24	1.12	1.12	1.12	59.4	Rainy	152.4	260
13-Nov-21	10:00	14-Nov-21	10:00	2.8026	2.8912	2782.8	2806.8	24	1.12	1.12	1.12	55.0	Sunny	152.4	260
19-Nov-21	10:00	20-Nov-21	10:00	2.8090	2.9328	2806.8	2830.8	24	1.12	1.12	1.12	77.0	Sunny	152.4	260
25-Nov-21	10:00	26-Nov-21	10:00	2.8039	2.9135	2830.8	2854.8	24	1.12	1.12	1.12	68.1	Fine	152.4	260
01-Dec-21	10:00	02-Dec-21	10:00	2.8015	2.8901	2854.8	2878.8	24	1.12	1.12	1.12	55.0	Fine	152.4	260
07-Dec-21	10:00	08-Dec-21	10:00	2.8083	2.8768	2878.8	2902.8	24	1.12	1.12	1.12	42.6	Fine	152.4	260
13-Dec-21	10:00	14-Dec-21	10:00	2.8019	2.9561	2902.8	2926.8	24	1.12	1.12	1.12	95.8	Sunny	152.4	260
18-Dec-21	10:00	19-Dec-21	10:00	2.8079	2.9146	2926.8	2950.8	24	1.12	1.12	1.12	66.3	Sunny	152.4	260
24-Dec-21	10:00	25-Dec-21	10:00	2.8060	2.9527	2950.8	2974.8	24	1.12	1.12	1.12	91.1	Cloudy	152.4	260
30-Dec-21	10:00	31-Dec-21	10:00	2.8041	2.8976	2974.8	2998.8	24	1.12	1.12	1.12	58.1	Fine	152.4	260
05-Jan-22	10:00	06-Jan-22	10:00	2.8085	2.9353	2999.8	3023.8	24	1.12	1.12	1.12	78.8	Cloudy	152.4	260
11-Jan-22	10:00	12-Jan-22	10:00	2.8037	2.8712	3023.8	3047.8	24	1.12	1.12	1.12	41.9	Cloudy	152.4	260
17-Jan-22	10:00	18-Jan-22	10:00	2.8023	2.9089	3047.8	3071.8	24	1.12	1.12	1.12	66.3	Sunny	152.4	260
22-Jan-22	10:00	23-Jan-22	10:00	2.8081	2.8851	3071.8	3095.8	24	1.12	1.12	1.12	47.9	Cloudy	152.4	260
28-Jan-22	10:00	29-Jan-22	10:00	2.8055	2.8941	3095.8	3119.8	24	1.12	1.12	1.12	55.0	Fine	152.4	260
31-Jan-22	10:00	01-Feb-22	10:00	2.8088	2.8838	3119.8	3143.8	24	1.12	1.12	1.12	46.6	Fine	152.4	260

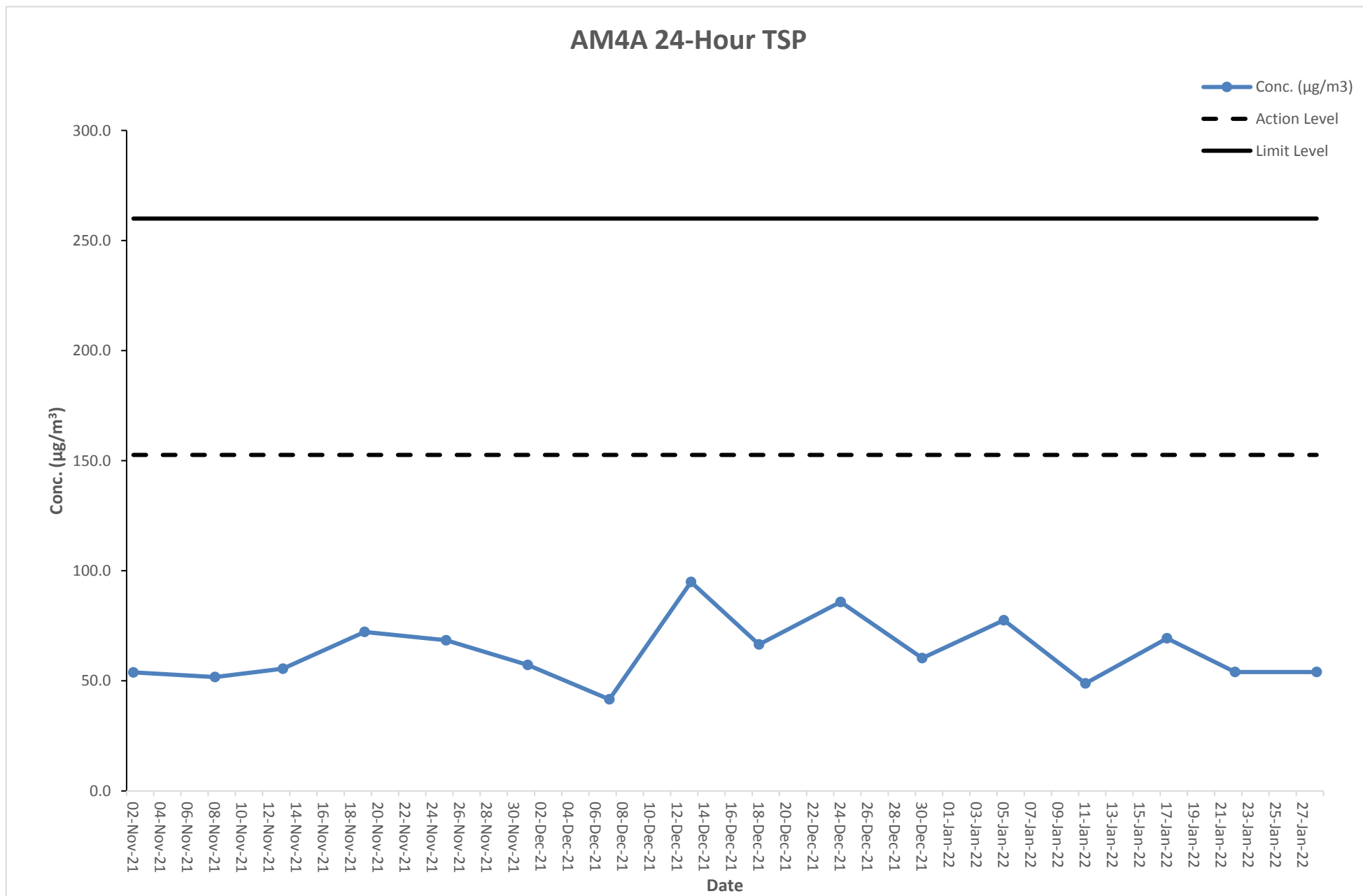
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Nov-21	10:00	03-Nov-21	10:00	2.8019	2.8884	3154.4	3178.4	24	1.12	1.12	1.12	53.8	Fine	152.6	260
08-Nov-21	10:00	09-Nov-21	10:00	2.8068	2.8899	3178.4	3202.4	24	1.12	1.12	1.12	51.7	Rainy	152.6	260
13-Nov-21	10:00	14-Nov-21	10:00	2.8042	2.8934	3202.4	3226.4	24	1.12	1.12	1.12	55.5	Sunny	152.6	260
19-Nov-21	10:00	20-Nov-21	10:00	2.8057	2.9219	3226.4	3250.4	24	1.12	1.12	1.12	72.2	Sunny	152.6	260
25-Nov-21	10:00	26-Nov-21	10:00	2.8061	2.9161	3250.4	3274.4	24	1.12	1.12	1.12	68.4	Fine	152.6	260
01-Dec-21	10:00	02-Dec-21	10:00	2.8073	2.8993	3274.4	3298.4	24	1.12	1.12	1.12	57.2	Fine	152.6	260
07-Dec-21	10:00	08-Dec-21	10:00	2.8049	2.8718	3298.4	3322.4	24	1.12	1.12	1.12	41.6	Fine	152.6	260
13-Dec-21	10:00	14-Dec-21	10:00	2.8073	2.9601	3322.4	3346.4	24	1.12	1.12	1.12	94.9	Sunny	152.6	260
18-Dec-21	10:00	19-Dec-21	10:00	2.8033	2.9104	3346.4	3370.4	24	1.12	1.12	1.12	66.5	Sunny	152.6	260
24-Dec-21	10:00	25-Dec-21	10:00	2.8089	2.9469	3370.4	3394.4	24	1.12	1.12	1.12	85.8	Cloudy	152.6	260
30-Dec-21	10:00	31-Dec-21	10:00	2.8080	2.9050	3394.4	3418.4	24	1.12	1.12	1.12	60.3	Fine	152.6	260
05-Jan-22	10:00	06-Jan-22	10:00	2.8058	2.9305	3419.4	3443.4	24	1.12	1.12	1.12	77.5	Cloudy	152.6	260
11-Jan-22	10:00	12-Jan-22	10:00	2.8057	2.8842	3443.4	3467.4	24	1.12	1.12	1.12	48.8	Cloudy	152.6	260
17-Jan-22	10:00	18-Jan-22	10:00	2.8058	2.9173	3467.4	3491.4	24	1.12	1.12	1.12	69.3	Sunny	152.6	260
22-Jan-22	10:00	23-Jan-22	10:00	2.8067	2.8936	3491.4	3515.4	24	1.12	1.12	1.12	54.0	Cloudy	152.6	260
28-Jan-22	10:00	29-Jan-22	10:00	2.8077	2.8946	3515.4	3539.4	24	1.12	1.12	1.12	54.0	Fine	152.6	260
31-Jan-22	10:00	01-Feb-22	10:00	2.8038	2.8782	3539.4	3563.4	24	1.12	1.12	1.12	46.2	Fine	152.6	260

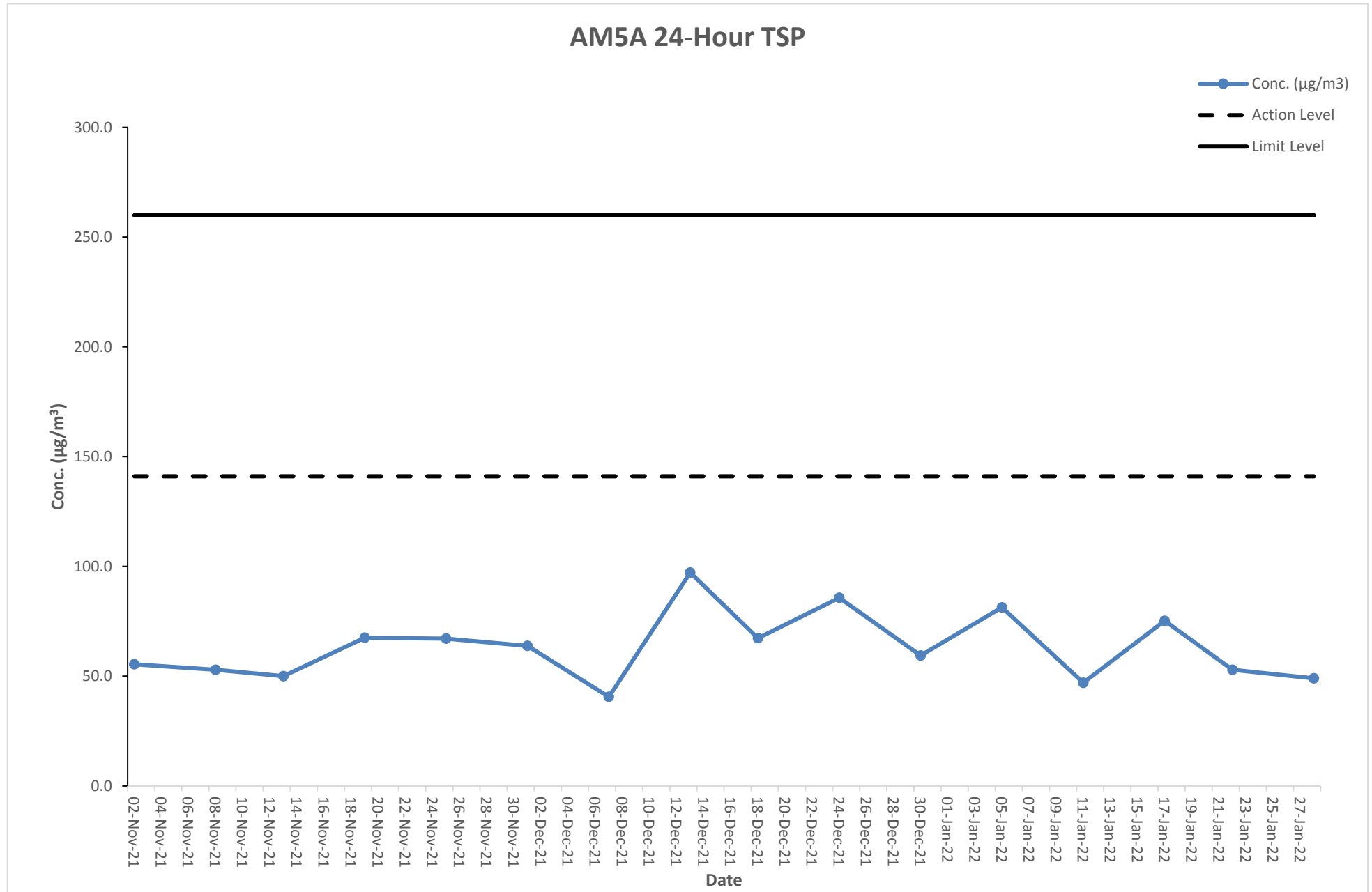
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
02-Nov-21	10:00	03-Nov-21	10:00	2.8043	2.8935	3294.6	3318.6	24	1.12	1.12	1.12	55.4	Fine	141.1	260
08-Nov-21	10:00	09-Nov-21	10:00	2.8021	2.8872	3318.6	3342.6	24	1.12	1.12	1.12	52.9	Rainy	141.1	260
13-Nov-21	10:00	14-Nov-21	10:00	2.8073	2.8878	3342.6	3366.6	24	1.12	1.12	1.12	50.0	Sunny	141.1	260
19-Nov-21	10:00	20-Nov-21	10:00	2.8048	2.9134	3366.6	3390.6	24	1.12	1.12	1.12	67.5	Sunny	141.1	260
25-Nov-21	10:00	26-Nov-21	10:00	2.8060	2.9140	3390.6	3414.6	24	1.12	1.12	1.12	67.1	Fine	141.1	260
01-Dec-21	10:00	02-Dec-21	10:00	2.8068	2.9096	3414.6	3438.6	24	1.12	1.12	1.12	63.8	Fine	141.1	260
07-Dec-21	10:00	08-Dec-21	10:00	2.8042	2.8697	3438.6	3462.6	24	1.12	1.12	1.12	40.6	Fine	141.1	260
13-Dec-21	10:00	14-Dec-21	10:00	2.8011	2.9576	3462.6	3486.6	24	1.12	1.12	1.12	97.2	Sunny	141.1	260
18-Dec-21	10:00	19-Dec-21	10:00	2.8042	2.9126	3486.6	3510.6	24	1.12	1.12	1.12	67.3	Sunny	141.1	260
24-Dec-21	10:00	25-Dec-21	10:00	2.8089	2.9468	3510.6	3534.6	24	1.12	1.12	1.12	85.7	Cloudy	141.1	260
30-Dec-21	10:00	31-Dec-21	10:00	2.8042	2.8999	3534.6	3558.6	24	1.12	1.12	1.12	59.4	Fine	141.1	260
05-Jan-22	10:00	06-Jan-22	10:00	2.8023	2.9331	3559.6	3583.6	24	1.12	1.12	1.12	81.3	Cloudy	141.1	260
11-Jan-22	10:00	12-Jan-22	10:00	2.8062	2.8819	3583.6	3607.6	24	1.12	1.12	1.12	47.0	Cloudy	141.1	260
17-Jan-22	10:00	18-Jan-22	10:00	2.8041	2.9252	3607.6	3631.6	24	1.12	1.12	1.12	75.2	Sunny	141.1	260
22-Jan-22	10:00	23-Jan-22	10:00	2.8019	2.8870	3631.6	3655.6	24	1.12	1.12	1.12	52.9	Cloudy	141.1	260
28-Jan-22	10:00	29-Jan-22	10:00	2.8038	2.8827	3655.6	3679.6	24	1.12	1.12	1.12	49.0	Fine	141.1	260
31-Jan-22	10:00	01-Feb-22	10:00	2.8054	2.8754	3679.6	3703.6	24	1.12	1.12	1.12	43.5	Fine	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-Nov-21	14:33	65.0	54.9	57.5
02-Nov-21	14:38	64.9	54.4	
02-Nov-21	14:43	65.9	54.1	
02-Nov-21	14:48	64.2	54.7	
02-Nov-21	14:53	64.2	54.4	
02-Nov-21	14:58	64.5	55.7	
08-Nov-21	8:32	63.6	54.6	58.0
08-Nov-21	8:37	64.8	55.7	
08-Nov-21	8:42	65.6	55.3	
08-Nov-21	8:47	65.8	54.2	
08-Nov-21	8:52	63.3	55.8	
08-Nov-21	8:57	65.2	55.1	
13-Nov-21	14:37	64.1	56.0	58.6
13-Nov-21	14:42	65.2	55.0	
13-Nov-21	14:47	63.2	55.2	
13-Nov-21	14:52	65.0	55.2	
13-Nov-21	14:57	65.6	55.4	
13-Nov-21	15:02	64.0	55.6	
19-Nov-21	8:36	64.9	55.0	58.1
19-Nov-21	8:41	65.6	55.6	
19-Nov-21	8:46	65.4	55.8	
19-Nov-21	8:51	63.7	55.7	
19-Nov-21	8:56	63.3	54.1	
19-Nov-21	9:01	63.6	54.2	
25-Nov-21	14:35	65.0	55.6	58.1
25-Nov-21	14:40	63.5	56.0	
25-Nov-21	14:45	64.1	54.4	
25-Nov-21	14:50	65.1	54.8	
25-Nov-21	14:55	63.8	55.3	
25-Nov-21	15:00	65.4	55.5	
01-Dec-21	8:33	64.4	55.5	57.9
01-Dec-21	8:38	63.7	55.7	
01-Dec-21	8:43	63.1	54.1	
01-Dec-21	8:48	65.0	55.9	
01-Dec-21	8:53	65.9	54.3	
01-Dec-21	8:58	64.9	55.1	
07-Dec-21	14:36	64.3	55.1	57.7
07-Dec-21	14:41	65.6	54.4	
07-Dec-21	14:46	65.8	54.6	
07-Dec-21	14:51	63.1	55.2	
07-Dec-21	14:56	64.3	54.6	
07-Dec-21	15:01	64.0	55.1	
13-Dec-21	8:31	65.6	54.1	57.9
13-Dec-21	8:36	64.3	55.2	
13-Dec-21	8:41	65.5	55.2	
13-Dec-21	8:46	63.1	54.1	
13-Dec-21	8:51	64.5	54.4	
13-Dec-21	8:56	65.2	55.3	
18-Dec-21	14:41	65.9	56.0	58.0
18-Dec-21	14:46	63.9	54.3	
18-Dec-21	14:51	64.6	54.3	
18-Dec-21	14:56	64.9	55.4	
18-Dec-21	15:01	64.3	54.9	
18-Dec-21	15:06	63.4	54.2	
24-Dec-21	8:46	63.4	54.3	58.5
24-Dec-21	8:51	63.2	56.0	
24-Dec-21	8:56	64.8	55.9	
24-Dec-21	9:01	63.1	55.5	
24-Dec-21	9:06	64.0	54.7	
24-Dec-21	9:11	64.6	55.2	

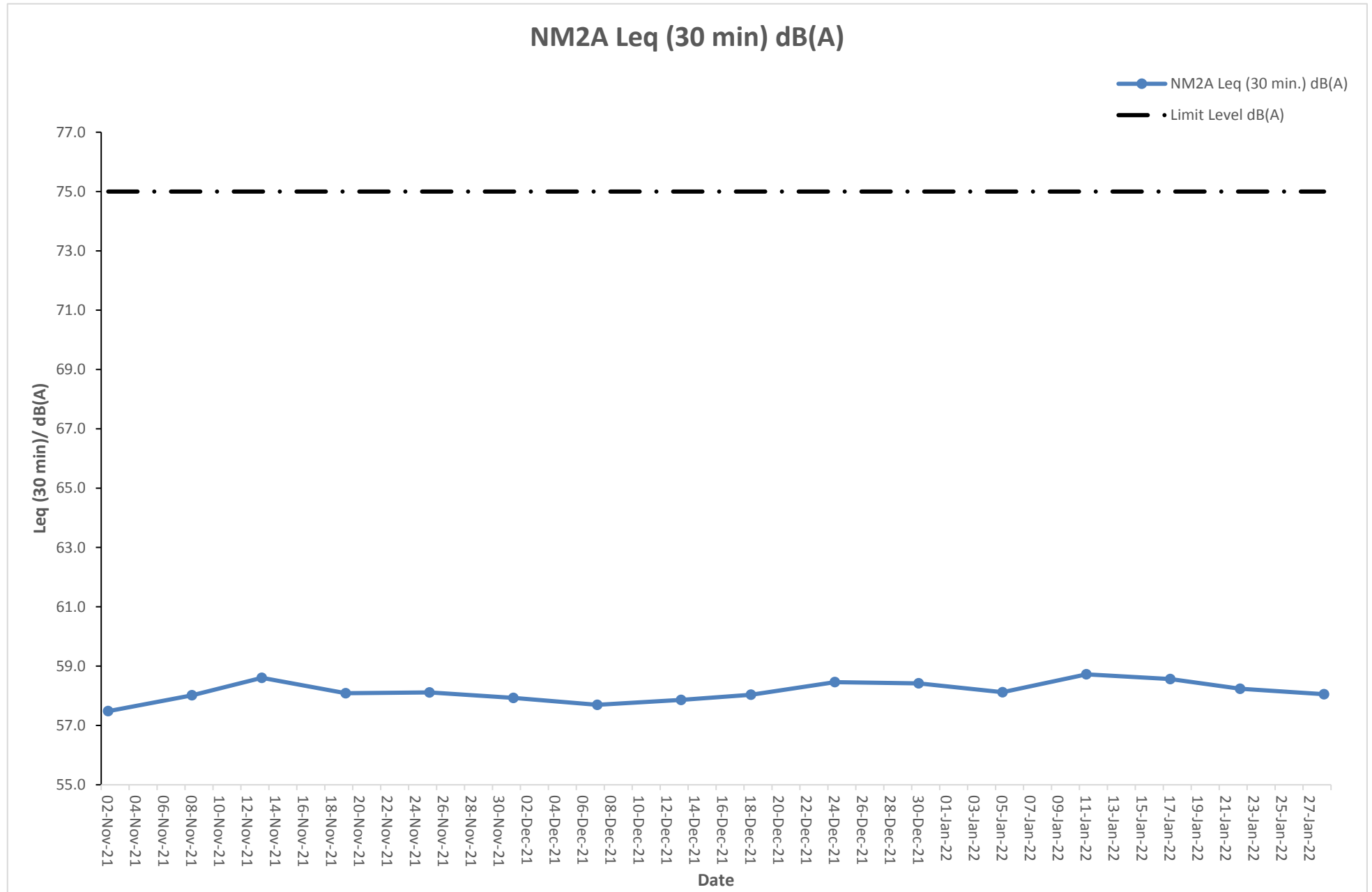
Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Dec-21	14:09	64.7	55.9	58.4
30-Dec-21	14:14	64.8	55.5	
30-Dec-21	14:19	63.1	54.6	
30-Dec-21	14:24	65.9	55.8	
30-Dec-21	14:29	64.7	54.4	
30-Dec-21	14:34	64.6	55.7	
05-Jan-22	8:39	65.0	54.1	58.1
05-Jan-22	8:44	64.3	54.1	
05-Jan-22	8:49	65.6	54.6	
05-Jan-22	8:54	64.8	54.8	
05-Jan-22	8:59	65.6	55.8	
05-Jan-22	9:04	65.7	54.4	58.7
11-Jan-22	14:32	64.6	55.1	
11-Jan-22	14:37	64.7	54.5	
11-Jan-22	14:42	64.9	55.0	
11-Jan-22	14:47	65.9	54.3	
11-Jan-22	14:52	64.3	54.7	
11-Jan-22	14:57	64.4	56.0	58.6
17-Jan-22	8:31	63.2	55.9	
17-Jan-22	8:36	63.9	55.7	
17-Jan-22	8:41	65.1	56.0	
17-Jan-22	8:46	65.8	54.8	
17-Jan-22	8:51	63.4	54.5	
17-Jan-22	8:56	64.7	55.3	58.2
22-Jan-22	14:37	63.4	54.1	
22-Jan-22	14:42	65.8	55.5	
22-Jan-22	14:47	63.8	55.0	
22-Jan-22	14:52	65.5	55.8	
22-Jan-22	14:57	64.1	54.3	
22-Jan-22	15:02	63.7	54.3	58.1
28-Jan-22	8:41	64.9	55.9	
28-Jan-22	8:46	63.4	54.1	
28-Jan-22	8:51	65.8	56.0	
28-Jan-22	8:56	63.4	55.3	
28-Jan-22	9:01	64.8	54.6	
28-Jan-22	9:06	63.6	56.0	58.0
31-Jan-22	14:10	65.4	54.8	
31-Jan-22	14:15	64.4	54.6	
31-Jan-22	14:20	66.0	55.0	
31-Jan-22	14:25	64.9	54.8	
31-Jan-22	14:30	63.3	54.3	
31-Jan-22	14:35	65.1	55.1	



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-Nov-21	16:03	73.9	66.4	70.2
02-Nov-21	16:08	74.4	65.0	
02-Nov-21	16:13	73.7	64.5	
02-Nov-21	16:18	73.0	66.2	
02-Nov-21	16:23	73.6	66.5	
02-Nov-21	16:28	74.0	64.2	
08-Nov-21	10:05	72.8	66.2	69.3
08-Nov-21	10:10	73.3	66.6	
08-Nov-21	10:15	72.8	64.9	
08-Nov-21	10:20	74.5	65.9	
08-Nov-21	10:25	73.8	66.2	
08-Nov-21	10:30	72.7	66.3	
13-Nov-21	16:07	72.7	65.2	69.2
13-Nov-21	16:12	74.5	64.4	
13-Nov-21	16:17	72.7	65.4	
13-Nov-21	16:22	73.4	64.9	
13-Nov-21	16:27	74.0	66.1	
13-Nov-21	16:32	73.1	66.3	
19-Nov-21	10:09	73.5	66.2	70.0
19-Nov-21	10:14	73.5	66.8	
19-Nov-21	10:19	73.5	66.6	
19-Nov-21	10:24	74.0	65.9	
19-Nov-21	10:29	73.1	66.4	
19-Nov-21	10:34	73.3	65.2	
25-Nov-21	16:05	73.7	65.5	70.1
25-Nov-21	16:10	74.5	64.4	
25-Nov-21	16:15	72.7	64.5	
25-Nov-21	16:20	73.6	64.8	
25-Nov-21	16:25	73.1	66.4	
25-Nov-21	16:30	72.7	65.2	
01-Dec-21	10:03	73.6	64.6	69.6
01-Dec-21	10:08	73.9	66.0	
01-Dec-21	10:13	73.1	66.1	
01-Dec-21	10:18	73.1	65.9	
01-Dec-21	10:23	73.0	65.1	
01-Dec-21	10:28	74.5	66.4	
07-Dec-21	16:09	72.8	66.8	69.6
07-Dec-21	16:14	73.2	65.8	
07-Dec-21	16:19	74.3	64.5	
07-Dec-21	16:24	73.1	65.2	
07-Dec-21	16:29	74.2	64.5	
07-Dec-21	16:34	73.2	66.1	
13-Dec-21	10:01	73.0	64.3	69.4
13-Dec-21	10:06	73.8	66.8	
13-Dec-21	10:11	74.5	64.4	
13-Dec-21	10:16	73.2	64.9	
13-Dec-21	10:21	73.6	65.0	
13-Dec-21	10:26	73.6	64.7	
18-Dec-21	16:14	74.2	64.5	70.0
18-Dec-21	16:19	74.0	64.8	
18-Dec-21	16:24	72.8	65.7	
18-Dec-21	16:29	73.6	66.0	
18-Dec-21	16:34	73.5	65.5	
18-Dec-21	16:39	74.5	66.7	
24-Dec-21	10:16	73.7	66.1	69.7
24-Dec-21	10:21	73.5	64.2	
24-Dec-21	10:26	74.3	65.4	
24-Dec-21	10:31	73.8	65.9	
24-Dec-21	10:36	72.9	64.7	
24-Dec-21	10:41	73.5	66.4	

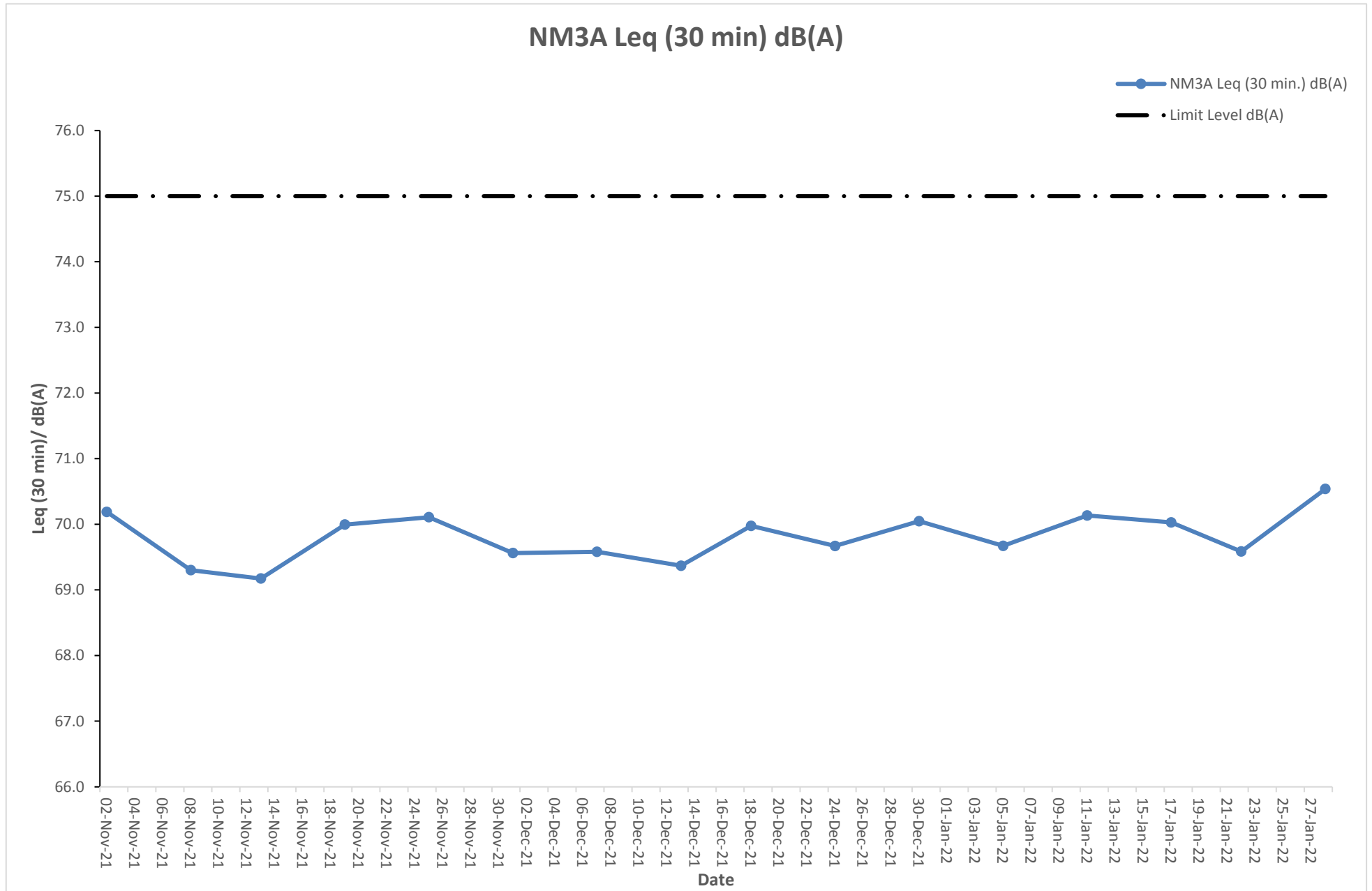
Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Dec-21	15:51	74.5	64.7	70.0
30-Dec-21	15:56	73.5	64.3	
30-Dec-21	16:01	74.2	64.2	
30-Dec-21	16:06	74.5	64.8	
30-Dec-21	16:11	73.1	66.4	
30-Dec-21	16:16	74.2	65.8	
05-Jan-22	10:09	72.7	65.1	69.7
05-Jan-22	10:14	72.7	64.7	
05-Jan-22	10:19	73.1	66.0	
05-Jan-22	10:24	74.4	64.4	
05-Jan-22	10:29	74.0	65.8	
05-Jan-22	10:34	72.8	66.2	
11-Jan-22	16:05	74.3	65.1	70.1
11-Jan-22	16:10	74.5	64.3	
11-Jan-22	16:15	72.8	64.2	
11-Jan-22	16:20	72.8	64.8	
11-Jan-22	16:25	74.1	66.2	
11-Jan-22	16:30	74.3	65.3	
17-Jan-22	10:01	73.8	65.6	70.0
17-Jan-22	10:06	73.2	64.7	
17-Jan-22	10:11	74.3	65.0	
17-Jan-22	10:16	74.4	64.2	
17-Jan-22	10:21	73.6	66.4	
17-Jan-22	10:26	73.9	65.6	
22-Jan-22	16:10	74.2	65.8	69.6
22-Jan-22	16:15	73.2	65.5	
22-Jan-22	16:20	73.1	66.4	
22-Jan-22	16:25	73.4	64.3	
22-Jan-22	16:30	74.1	65.6	
22-Jan-22	16:35	73.5	66.7	
28-Jan-22	10:11	73.4	65.0	70.5
28-Jan-22	10:16	73.8	66.6	
28-Jan-22	10:21	72.8	64.8	
28-Jan-22	10:26	74.4	65.3	
28-Jan-22	10:31	73.3	65.9	
28-Jan-22	10:36	73.8	65.2	
31-Jan-22	15:52	69.8	60.7	66.2
31-Jan-22	15:57	69.4	63.0	
31-Jan-22	16:02	69.0	62.3	
31-Jan-22	16:07	70.4	60.3	
31-Jan-22	16:12	68.8	62.0	
31-Jan-22	16:17	68.7	60.3	



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-Nov-21	16:38	72.0	63.1	68.4
02-Nov-21	16:43	70.4	66.0	
02-Nov-21	16:48	71.5	65.9	
02-Nov-21	16:53	71.6	65.6	
02-Nov-21	16:58	69.3	63.9	
02-Nov-21	17:03	71.5	64.8	
08-Nov-21	10:40	69.1	63.2	67.9
08-Nov-21	10:45	70.9	65.7	
08-Nov-21	10:50	70.9	63.2	
08-Nov-21	10:55	71.7	65.0	
08-Nov-21	11:00	71.7	65.2	
08-Nov-21	11:05	71.8	65.7	
13-Nov-21	16:42	69.8	63.1	68.4
13-Nov-21	16:47	71.2	65.8	
13-Nov-21	16:52	69.2	66.0	
13-Nov-21	16:57	71.7	63.4	
13-Nov-21	17:02	71.5	63.6	
13-Nov-21	17:07	71.1	65.1	
19-Nov-21	10:44	65.2	61.3	64.1
19-Nov-21	10:49	67.0	61.8	
19-Nov-21	10:54	67.8	59.9	
19-Nov-21	10:59	65.5	60.0	
19-Nov-21	11:04	66.4	59.5	
19-Nov-21	11:09	66.2	59.2	
25-Nov-21	16:40	71.2	65.7	68.4
25-Nov-21	16:45	70.7	63.6	
25-Nov-21	16:50	69.9	64.8	
25-Nov-21	16:55	70.6	63.5	
25-Nov-21	17:00	69.9	64.9	
25-Nov-21	17:05	71.7	64.4	
01-Dec-21	10:38	69.5	65.2	68.4
01-Dec-21	10:43	71.0	63.2	
01-Dec-21	10:48	70.5	63.9	
01-Dec-21	10:53	70.8	64.9	
01-Dec-21	10:58	69.1	64.7	
01-Dec-21	11:03	70.7	64.5	
07-Dec-21	16:44	67.8	62.6	64.8
07-Dec-21	16:49	69.0	62.9	
07-Dec-21	16:54	68.4	60.3	
07-Dec-21	16:59	66.1	60.1	
07-Dec-21	17:04	68.9	61.9	
07-Dec-21	17:09	68.9	61.0	
13-Dec-21	10:36	67.7	62.3	64.9
13-Dec-21	10:41	66.5	62.3	
13-Dec-21	10:46	66.7	62.7	
13-Dec-21	10:51	68.0	61.9	
13-Dec-21	10:56	67.1	60.6	
13-Dec-21	11:01	68.8	61.0	
18-Dec-21	16:49	69.6	64.6	68.1
18-Dec-21	16:54	70.1	65.3	
18-Dec-21	16:59	70.2	65.4	
18-Dec-21	17:04	70.3	63.8	
18-Dec-21	17:09	70.2	65.2	
18-Dec-21	17:14	71.9	63.6	
24-Dec-21	10:51	69.2	65.0	67.9
24-Dec-21	10:56	69.4	65.8	
24-Dec-21	11:01	71.0	65.3	
24-Dec-21	11:06	71.9	63.8	
24-Dec-21	11:11	69.3	64.3	
24-Dec-21	11:16	71.8	65.5	

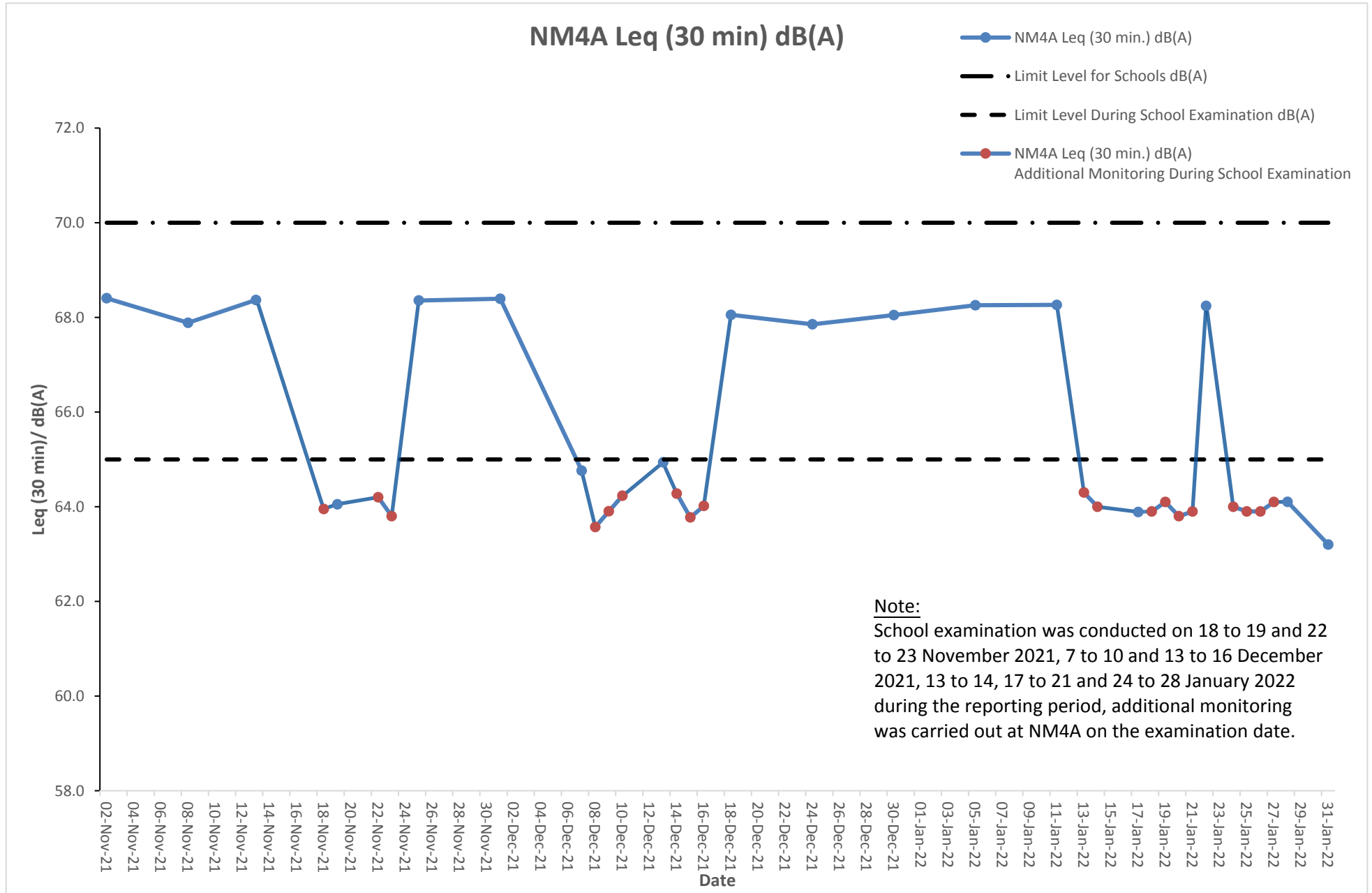
Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Dec-21	16:26	71.8	63.6	68.0
30-Dec-21	16:31	70.0	65.6	
30-Dec-21	16:36	69.2	64.6	
30-Dec-21	16:41	71.6	64.1	
30-Dec-21	16:46	69.4	65.5	
30-Dec-21	16:51	70.2	65.7	
05-Jan-22	10:44	70.7	63.7	68.3
05-Jan-22	10:49	69.9	64.2	
05-Jan-22	10:54	69.6	65.9	
05-Jan-22	10:59	71.6	63.8	
05-Jan-22	11:04	69.5	64.0	
05-Jan-22	11:09	70.2	64.2	
11-Jan-22	16:40	71.6	63.1	68.3
11-Jan-22	16:45	70.9	65.4	
11-Jan-22	16:50	69.5	65.9	
11-Jan-22	16:55	70.0	64.5	
11-Jan-22	17:00	69.8	65.2	
11-Jan-22	17:05	71.8	65.2	
17-Jan-22	10:36	65.2	61.0	63.9
17-Jan-22	10:41	66.7	60.1	
17-Jan-22	10:46	67.0	61.3	
17-Jan-22	10:51	66.4	60.2	
17-Jan-22	10:56	66.6	60.3	
17-Jan-22	11:01	65.6	60.2	
22-Jan-22	16:45	69.8	63.9	68.2
22-Jan-22	16:50	70.9	64.5	
22-Jan-22	16:55	71.9	63.3	
22-Jan-22	17:00	71.2	65.3	
22-Jan-22	17:05	71.8	65.1	
22-Jan-22	17:10	71.9	64.4	
28-Jan-22	10:46	65.2	61.9	64.1
28-Jan-22	10:51	65.5	61.1	
28-Jan-22	10:56	65.8	61.9	
28-Jan-22	11:01	66.0	60.8	
28-Jan-22	11:06	66.2	60.5	
28-Jan-22	11:11	66.6	61.8	
31-Jan-22	16:27	64.6	58.1	63.2
31-Jan-22	16:32	64.2	60.1	
31-Jan-22	16:37	64.5	59.0	
31-Jan-22	16:42	64.8	59.9	
31-Jan-22	16:47	65.4	60.1	
31-Jan-22	16:52	65.7	59.9	



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-Nov-21	15:23	66.1	56.6	63.0	66.0
02-Nov-21	15:28	64.6	57.4		
02-Nov-21	15:33	66.4	57.1		
02-Nov-21	15:38	66.7	58.8		
02-Nov-21	15:43	66.2	57.9		
02-Nov-21	15:48	65.8	58.7	62.7	65.7
08-Nov-21	9:24	64.6	58.0		
08-Nov-21	9:29	66.7	59.0		
08-Nov-21	9:34	65.5	57.7		
08-Nov-21	9:39	65.0	57.3		
08-Nov-21	9:44	64.6	58.6	62.2	65.2
08-Nov-21	9:49	66.9	57.0		
13-Nov-21	15:27	66.8	56.1		
13-Nov-21	15:32	65.3	56.5		
13-Nov-21	15:37	64.8	58.5		
13-Nov-21	15:42	65.2	58.8	62.8	65.8
13-Nov-21	15:47	66.2	58.8		
13-Nov-21	15:52	67.1	58.6		
19-Nov-21	9:28	65.4	56.1		
19-Nov-21	9:33	65.4	58.3		
19-Nov-21	9:38	66.3	58.9	62.8	65.8
19-Nov-21	9:43	65.8	56.9		
19-Nov-21	9:48	67.1	57.0		
19-Nov-21	9:53	65.7	58.2		
25-Nov-21	15:25	66.8	56.7		
25-Nov-21	15:30	64.4	57.9		
25-Nov-21	15:35	64.3	58.2		
25-Nov-21	15:40	65.9	59.0		
25-Nov-21	15:45	66.5	59.0		
25-Nov-21	15:50	65.3	58.1	62.7	65.7
01-Dec-21	9:23	66.2	58.6		
01-Dec-21	9:28	65.2	57.0		
01-Dec-21	9:33	65.3	56.1		
01-Dec-21	9:38	66.4	58.6		
01-Dec-21	9:43	65.9	58.9	62.7	65.7
01-Dec-21	9:48	65.2	57.8		
07-Dec-21	15:28	65.1	57.0		
07-Dec-21	15:33	66.4	56.6		
07-Dec-21	15:38	64.4	57.0		
07-Dec-21	15:43	66.6	57.2	62.7	65.7
07-Dec-21	15:48	66.1	56.2		
07-Dec-21	15:53	65.6	56.9		
13-Dec-21	9:21	64.3	57.2		
13-Dec-21	9:26	67.0	58.1		
13-Dec-21	9:31	64.5	58.3		
13-Dec-21	9:36	64.9	56.5		
13-Dec-21	9:41	66.5	56.3		
13-Dec-21	9:46	65.8	58.4		
18-Dec-21	15:33	66.6	56.7	62.8	65.8
18-Dec-21	15:38	65.5	57.7		
18-Dec-21	15:43	65.7	56.6		
18-Dec-21	15:48	65.2	56.2		
18-Dec-21	15:53	64.5	56.3		
18-Dec-21	15:58	66.8	57.1	62.4	65.4
24-Dec-21	9:36	66.4	58.2		
24-Dec-21	9:41	65.6	57.3		
24-Dec-21	9:46	64.4	57.2		
24-Dec-21	9:51	64.4	57.2		
24-Dec-21	9:56	66.5	57.1		
24-Dec-21	10:01	66.0	56.8		

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-Dec-21	15:10	65.9	59.0	62.7	65.7
30-Dec-21	15:15	64.2	57.7		
30-Dec-21	15:20	65.5	56.2		
30-Dec-21	15:25	66.0	58.2		
30-Dec-21	15:30	66.8	56.2		
30-Dec-21	15:35	66.0	56.7		
05-Jan-22	9:29	66.8	57.7	62.5	65.5
05-Jan-22	9:34	65.6	56.8		
05-Jan-22	9:39	66.5	58.9		
05-Jan-22	9:44	64.9	58.8		
05-Jan-22	9:49	64.8	58.1		
05-Jan-22	9:54	66.1	57.5	62.6	65.6
11-Jan-22	15:24	64.3	56.9		
11-Jan-22	15:29	65.5	58.8		
11-Jan-22	15:34	64.7	57.7		
11-Jan-22	15:39	65.5	57.2		
11-Jan-22	15:44	65.8	58.3		
11-Jan-22	15:49	66.5	57.5	62.4	65.4
17-Jan-22	9:21	67.1	56.8		
17-Jan-22	9:26	66.6	58.5		
17-Jan-22	9:31	65.1	58.4		
17-Jan-22	9:36	66.5	58.9		
17-Jan-22	9:41	65.2	58.3		
17-Jan-22	9:46	64.8	57.8	62.1	65.1
22-Jan-22	15:29	64.2	58.7		
22-Jan-22	15:34	65.8	57.2		
22-Jan-22	15:39	64.2	56.6		
22-Jan-22	15:44	65.1	58.3		
22-Jan-22	15:49	66.0	58.6		
22-Jan-22	15:54	66.2	58.2	62.5	65.5
28-Jan-22	9:31	66.9	59.0		
28-Jan-22	9:36	66.5	57.3		
28-Jan-22	9:41	66.7	56.3		
28-Jan-22	9:46	65.5	57.5		
28-Jan-22	9:51	66.7	57.3		
28-Jan-22	9:56	65.4	57.8	62.2	65.2
31-Jan-22	15:11	65.4	57.7		
31-Jan-22	15:16	64.5	56.7		
31-Jan-22	15:21	65.2	56.9		
31-Jan-22	15:26	63.9	57.9		
31-Jan-22	15:31	66.6	57.1		
31-Jan-22	15:36	63.8	57.7		

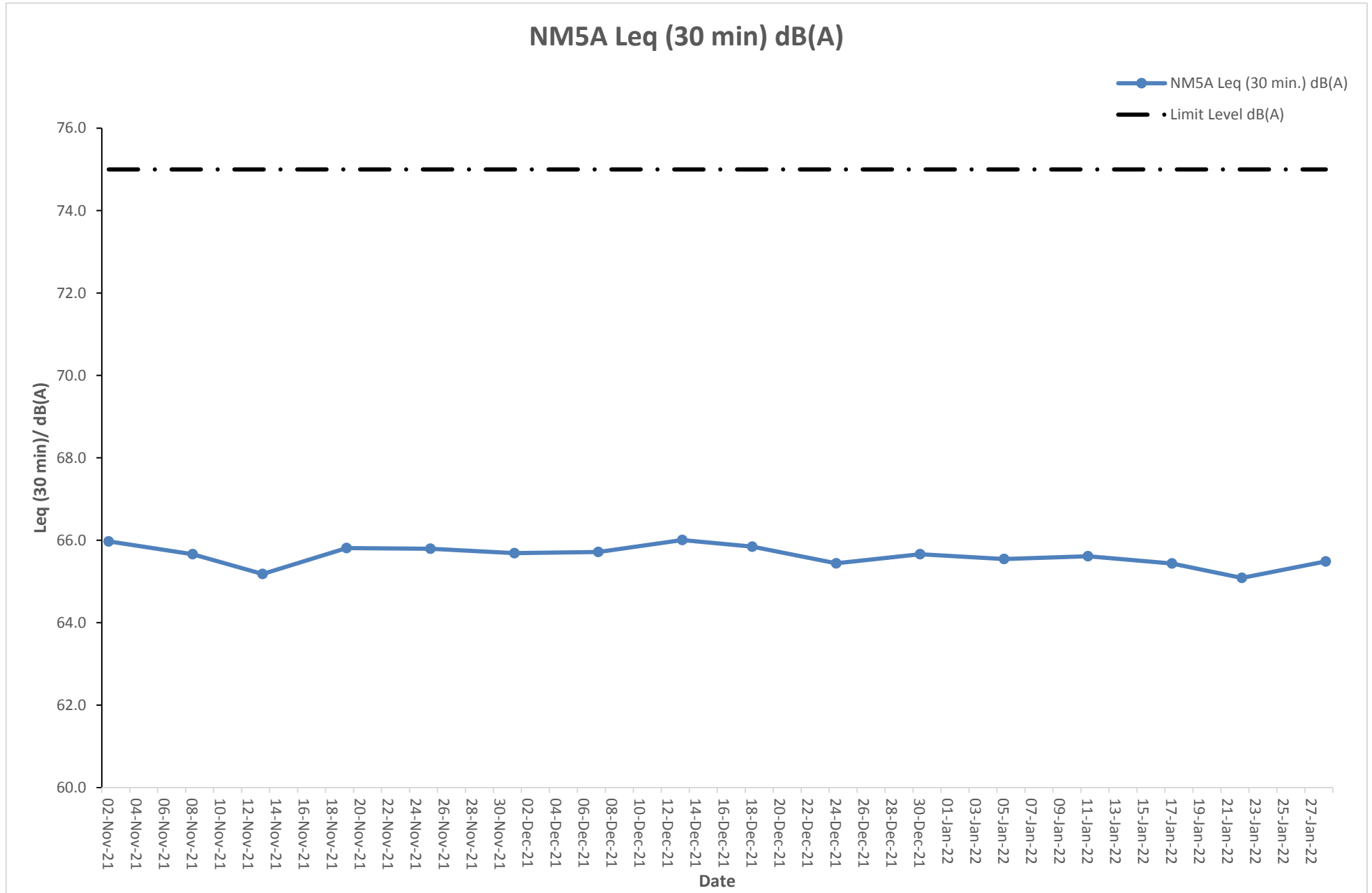
Remarks:

+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

Zone 2A

Table F-1: Monthly Waste Flow Table for Zone 2A

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 Srotng 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)
Aug													
Sep													
Oct													
Nov													
Dec													
Sub-total (2022)	1868.21	0.00	120.00	0.00	1748.21	0.00	0.00	0.00	0.00	0.00	0.00	0.40	16.33
Total	88556.20	0.00	1272.72	10730.98	76552.50	0.00	1246.44	220.40	0.00	0.00	0.00	2.60	389.52

Note:

- 44.85 tonnes, 336.22 tonnes, 7459.48 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter.

Zone 2B & 2C

Table F-2: Monthly Waste Flow Table for Zone 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 Srotng 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)
2021													
Sep	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
Oct	60.33	0.00	37.75	0.00	22.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.19
Nov	9265.04	0.00	125.93	0.00	9139.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12
Dec	13462.3	0.00	1041.17	0.00	12421.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.62
Sub-total (2021)	22787.67	0.00	1204.85	0.00	21582.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.93
2022													
Jan	17327.60	0.00	2091.32	0.00	15236.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.33
Sub-total (2022)	17327.60	0.00	2091.32	0.00	15236.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.33
Total	40115.27	0.00	3296.17	0.00	36819.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.26

Note:

- 22001.83 tonnes and 6445.94 tonnes of inert C&D material were disposed of as public fill to Tuen Mun Area 38 and Tseung Kwan O Area 137 Public Fill respectively in the reporting quarter.

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. 3 October 2020 for Zone 2A Foundation, Excavation and Lateral Support Works; 30 September 2021 for Zone 2B & 2C Piling Works) 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 Zone 2A Foundation, Excavation and Lateral Support Works

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting quarter (Nov 21 – Jan 22)	0	0	0
From 03 October 2020 to end of the reporting quarter	17	0	0

Table G-2: Statistics for complaints, notifications of summons and successful prosecutions for Zone 2B & 2C Piling Works

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting quarter (Nov 21 – Jan 22)	0	0	0
From 30 September 2021 to end of the reporting quarter	2	0	0

END OF THE REPORT