MOTT MACDONALD

Agreement No. CE 30/2018 (EP) Environmental Team for Kai Tak Sports Park – Design and Construction

Quarterly EM&A Report (Apr 2024 – Jun 2024)

July 2024

Culture, Sports and Tourism Bureau

Mott MacDonald Restricted

Culture, Sports and Tourism Bureau
Kai Tak Sports Park Project Office
1/F, Block A
Kai Tak Sports Park Site Office
Muk Tai Street
Kai Tak, Kowloon

Agreement No. CE 30/2018 (EP) Environmental Team for Kai Tak Sports Park – Design and Construction

Quarterly EM&A Report (Apr 2024 – Jun 2024)

July 2024

Mott MacDonald Hong Kong Limited
registered in Hong Kong no. 236497

Culture, Sports and Tourism Bureau
The Government of the Hong Kong Special Administrative Region of the People's Republic of China

ERM

Environmental Permit No. EP-544/2017

Kai Tak Sports Park - Investigation

Independent Environmental Checker Verification

Reference Document/Plan

Document/~~Plan~~ to be ~~Certified~~/ Verified:	Quarterly EM&A Report No. 21 (April to June 2024)
Date of Report:	25 July 2024
Date received by IEC:	25 July 2024

Reference EP Condition / EM&A Manual

EM&A Manual (AEIAR-204/2017)	Sections 2.5.1 (v) & 14.1.1

The ET should prepare monthly, quarterly and final EM&A reports to summarize environmental performance and to anticipate future key issues.

The ET shall prepare baseline monitoring report, monthly EM&A reports, quarterly EM&A report and final EM&A report. They shall be submitted to the EPD in paper and electronic formats in a timely manner.

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-544/2017/EM&A Manual.

Ms Mandy To

Independent Environmental Checker

Date: 30 July 2024

Our ref: 0500384_IEC Verification Cert_KTSP_Quarterly EM&A Rpt No.21.docx

Culture, Sports and Tourism Bureau
The Government of the Hong Kong Special Administrative Region of the People's Republic of China

MOTT MACDONALD

Environmental Permit No. EP- 544/2017

Kai Tak Sports Park – Investigation

Environmental Team Leader Certification

Reference Document /Plan

Document/~~Plan~~ to be Certified:	Quarterly EM&A Report (Apr 2024 – Jun 2024)
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The ET shall prepare baseline monitoring report, monthly EM&A reports, quarterly EM&A report and final EM&A report. They shall be submitted to the EPD in paper and electronic formats in a timely manner.

ETL Certification

I hereby certify that the above reference document complies with the above referenced condition of EP-544/2017.

Mr Sunny Chan
Environmental Team Leader Date: 30 July 2024

Contents

Tables

Executive Summary

This is the 21st Quarterly Environmental Monitoring & Audit (EM&A) Report for the construction phase of the Kai Tak Sports Park (KTSP) Project which summaries findings of the EM&A programme during the reporting period from 1 April 2024 to 30 June 2024 (the "reporting period") under the Environmental Permit (No. EP-544/2017) requirement.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was implemented by Environmental Team (ET) in accordance with the approved EM&A Manual. A summary of the EM&A activities during the reporting period is presented below:

Activities	Locations	Dates
Air quality impact monitoring (1-hour TSP)	AMS1-T*, AMS2, AMS4	2, 6, 12, 18, 24, 30 Apr 2024 6, 10, 16, 22, 28 May 2024 3, 7, 13, 19, 25, 28 Jun 2024
Noise impact monitoring ($L_{eq\ (30\ min)}$)	NMS1-T*, NMS2, NMS4	2, 12, 18, 24, 30 Apr 2024 6, 16, 22, 28 May 2024 3, 13, 19, 25 Jun 2024
Weekly environmental site inspections	Kai Tak Sports Park Project Site	3, 10, 17, 23, 30 Apr 2024 8, 14, 21, 29 May 2024 5, 12, 19, 25 Jun 2024
Bi-weekly landscape and visual site inspections	Kai Tak Sports Park Project Site	10, 23 Apr 2024 8, 21 May 2024 5, 19 Jun 2024

*Note:

During the reporting period, monitoring station, Hong Kong Society for the Blind Workshop (AMS1 and NMS1), was no longer open for impact monitoring from 1 September 2022, due to relocation of the Hong Kong Society for the Blind Workshop.

Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre (AMS1-T and NMS1-T) were proposed to conduct dust monitoring and noise impact monitoring during the reporting period.

Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

Breaches of Action and Limit Levels

Air Quality

No Action and Limit Level exceedances of 1-hour TSP level was recorded at AMS1-T, AMS2 and AMS4 during the reporting period.

Noise

One noise related complaint was received during the reporting period. One Action Level exceedance for noise was triggered during the reporting period.

No Limit Level exceedances of noise at NMS1-T, NMS2 and NMS4 was recorded during the reporting period.

Complaint Log

There were four complaints received in relation to the environmental impact during the reporting period.

Summary of Complaints in the Reporting Month

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
23 Apr 2024	17 Apr 2024	- Complaint of construction noise from the construction site of Kai Tak Sports Park at public holidays. - Please ensure the work fulfill the relevant environmental legislations and their subsidiary regulations. - Please take necessary measures to minimize the environmental nuisance arising from the construction site.	1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. 2. Subcontractors had been reminded to observe the Construction Noise Permit for working in holiday during regular subcontractor meetings. 3. A memo to all subcontractors has been issued in Jan 2024 with the latest Construction Noise Permit attached. 4. Permit to work checking system has been implemented for construction works at public holiday. 5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.	25 Apr 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
14 Jun 2024	3 Jun 2024	- Complaint of light nuisance from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park. 3. Spot lights are adjusted to control lighting direction away from nearby residential. 4. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.	19 Jun 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
24 Jun 2024	7 Jun 2024	- Complaint of dust emission from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Covering has been provided for stockpile on site. 2. Water spraying truck has been provided on haul road to maintain wet surface. 3. Water misting cannon has been provided for dust suppression on site. 4. Implementation of construction dust mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.	26 Jun 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
24 Jun 2024	20 Jun 2024	- Complaint of light nuisance from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park Public Sports Ground. 3. Spot lights are adjusted to control lighting direction away from nearby residential. 4. "Guidelines on Industry Best Practices for External Lighting Installations" has been provided to subcontractor for reminder. 5. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.	2 Jul 2024

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during this reporting period.

Reporting Changes

There was no reporting change during the reporting period.

1 Project Information

1.1 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure of the key personnel are shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
Project Proponent (Home Affairs Bureau)	Project Director (Sports Park)	Edwin Wong	3586 3403	3586 0591
Supervising Officer's Representative (Home Affairs Bureau)	Senior Engineer	Keith Man	3586 3149	3586 0591
Environmental Team (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Sunny Chan	2828 5962	2827 1823
	Deputy Environmental Team Leader	Ken Wong	2828 5757	2827 1823
Independent Environmental Checker (ERM Hong Kong Limited)	Independent Environmental Checker	Mandy To	2271 3000	3015 8052
Contracted Party (Kai Tak Sports Park Limited)	Assistant Contract Manager	Eric Chung	3552 5003	2845 9295
	Environmental Officer	Gary Yim	3552 5013	3552 5099
Hotel and Office Development				
Project Manager (Sanon Limited)	Senior Group Project Director	David Lee	2910 8368	2815 9949
	Project Manager	William Chan	2910 8363	2815 9949
Project Architect (P&T Architects & Engineers Limited)	Project Architect	Patrick Chan	2832 7205	-
Contractor (Hip Hing Construction Co. Ltd.)	Project Manager	Michael Wong	96719952	-
24-hour Community Liaison Hotline	-	-	5587 6112	-

1.2 Works Area and Construction Programme

The construction works commenced on 8 April 2019. The works area of the Project is shown in **Appendix B**. The Construction Works Programme of the Project is provided in **Appendix C**.

1.3 Construction Works undertaken during the Reporting Period

A summary of construction activities undertaken during this reporting period is presented below:

Table 1.2: Construction Works undertaken during the Reporting Period

April 2024	May 2024	June 2024
KTSP		
• Mobilization and lifting; • Concreting; • Excavation; • Landscape work.	• Mobilization and lifting; • Concreting; • Excavation; • Landscape work.	• Mobilization and lifting; • Concreting; • Excavation; • Landscape work
H/O Development		
• Concreting; and • Landscape work	• Concreting; and • Landscape work	• Concreting; and • Landscape work

2 Summary of EM&A Requirement

2.1 EM&A Requirement

In accordance with the EM&A Manual of the Project, the EM&A programme was established to assure compliance with the standards and predictions in the EIA study involving the construction and operation of the Project. The environmental performance was routinely monitored and audited for evaluating the effectiveness of the recommended mitigation measures or remedial action. Impact air quality and noise monitoring were required for the Project.

Air Quality

2.2 Air Quality Monitoring Parameters, Frequency and Duration

Table 2.1 summarises the monitoring parameters, frequency and duration of impact air quality monitoring.

Table 2.1: Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
1-hour TSP	3 times every six-days

2.3 Air Quality Monitoring Locations

According to the EM&A Manual, a total of five air quality monitoring stations were identified for impact monitoring. Of these, two air quality sensitive receivers AMS3 and AMS5 are planned residential use and were currently not available for impact monitoring during the reporting period.

Monitoring station AMS4, the originally planned residential use at Kai Tak Area 1K Site 3 (i.e. The Henley) has been in occupation in July 2022. The detail of the proposed monitoring station is shown as follow:

Table 2.2: Detail of Proposed Dust Monitoring Station

Monitoring Station	Description in EM&A Manual	Proposed Monitoring Station
AMS4	Kai Tak Area 1K Site 3 (1K3) (residential use)	Rooftop of Retail Building in front of The Henley

Table 2.3 describes the impact air quality monitoring stations and **Figure 2.1** shows their locations.

Table 2.3: Construction Dust Monitoring Locations

Monitoring Station	Location	Status
AMS1	Hong Kong Society for the Blind Workshop, Roof Floor	Existing Air Sensitive Receiver
AMS2	Sky Tower, Podium of Tower 7	Existing Air Sensitive Receiver
AMS4	Retail Building in front of The Henley, Rooftop	Existing Air Sensitive Receiver
AMS3	Kai Tak Area 2B Site 4 (2B4) (residential use)	Planned Air Sensitive Receiver
AMS5	Kai Tak Area 1L Site 3 (1L3) (residential use)	Planned Air Sensitive Receiver

During the reporting period, monitoring station AMS1 was no longer open for impact monitoring from 1 September 2022, due to relocation of the Hong Kong Society for the Blind Workshop.

Temporary air quality monitoring station, AMS1-T, was used to conduct dust monitoring in September 2022. Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

The details of temporary monitoring station are described in **Table 2.4** and the location of temporary monitoring station is shown in **Figure 2.1**.

Table 2.4: Temporary Construction Dust Monitoring Location

Monitoring Station	Location	Status
AMS1-T	Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre, 102 Sung Wong Toi Road	Existing Air Sensitive Receiver

2.4 Action and Limit Levels for Air Quality Monitoring

The Action and Limit Levels for 1-hr TSP are provided in **Table 2.5**.

Table 2.5: Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level, µg/m^3	Limit Level, µg/m^3
AMS1 – Hong Kong Society for the Blind Workshop, Roof Floor	283	500
AMS2 – Sky Tower, Podium of Tower 7	280	500
AMS3 - Kai Tak Area 2B Site 4 (2B4) (residential use)	287*	500
AMS4 - Kai Tak Area 1K Site 3 (1K3) (residential use)	287*	500
AMS5 - Kai Tak Area 1L Site 3 (1L3) (residential use)	287*	500

*Remarks: the Action Level for AMS3, AMS4 and AMS5 were derived from an alternative monitoring station AMS3-4-5 during the baseline monitoring.

The event and action plan is provided in **Appendix D**.

2.5 Wind Data

Wind data at Kai Tak automatic weather station collected from the Hong Kong Observatory (HKO) were used for the air quality monitoring for recording wind speed and wind direction. It is considered that the wind data obtained at the existing Kai Tak wind station are representative of the Project area and could be used for undertaking the construction phase baseline and impact air quality monitoring programme for the Project.

The detail of the wind data is shown in **Appendix F**.

Noise

2.6 Noise Monitoring Parameters, Frequency and Duration

Table 2.6 summarises the monitoring parameters, frequency and duration of impact noise monitoring.

Table 2.6: Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-minutes measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq}, L_{10} and L_{90} would be recorded.	At least once per week

2.7 Noise Monitoring Locations

According to the approved EM&A Manual, a total of seven noise monitoring stations were identified for the impact monitoring locations. Of these, four noise sensitive receivers NMS1A, NMS2A, NMS3 and NMS5 are planned residential use and were currently not available for impact monitoring during the reporting period.

Monitoring station NMS4, the originally planned residential use at Kai Tak Area 1K Site 3 (i.e. The Henley) has been in occupation in July 2022. The detail of the proposed monitoring stations are shown as follow:

Table 2.7: Detail of Proposed Noise Monitoring Location

Monitoring Station	Description in EM&A Manual	Proposed Monitoring Station
NMS4	Kai Tak Area 1K Site 3 (1K3) (residential use)	Rooftop of Retail Building in front of The Henley (Façade Measurement)

Table 2.8 describes the details of the monitoring stations and **Figure 2.2** shows the locations of noise monitoring stations.

Table 2.8: Construction Noise Monitoring Locations

Monitoring Station	Location Description	Status
NMS1	Hong Kong Society for the Blind Workshop, Roof Floor	Existing Noise Sensitive Receiver
NMS2	Sky Tower, Podium of Tower 7	Existing Noise Sensitive Receiver
NMS4	Retail Building in front of The Henley, Rooftop	Existing Noise Sensitive Receiver
NMS1A	Sung Wong Toi Road Public Housing Site	Planned Noise Sensitive Receiver
NMS2A	Sung Wong Toi Road CDA Site (mixed use)	Planned Noise Sensitive Receiver
NMS3	Kai Tak Area 2B Site 4 (2B4) (residential use)	Planned Noise Sensitive Receiver
NMS5	Kai Tak Area 1L Site 3 (1L3) (residential use)	Planned Noise Sensitive Receiver

During the reporting period, monitoring station NMS1 was no longer open for impact monitoring from 1 September 2022, due to relocation of the Hong Kong Society for the Blind Workshop.

Temporary noise monitoring station, NMS1-T, was used to conduct noise monitoring from September 2022. Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021. The details of temporary monitoring station are described in **Table 2.9** and the location of noise monitoring station is shown in **Figure 2.2**

Table 2.9: Temporary Construction Noise Monitoring Location

Monitoring Station	Location Description	Status	Type of Measurement
NMS1-T	Agriculture, Fisheries and Conservation Department Kowloon Animal Management Centre, 102 Sung Wong Toi Road	Existing Noise Sensitive Receiver	Façade

Action and Limit Levels for Noise Monitoring

The Action and Limit Levels for construction noise are defined in **Table 2.10**

Table 2.10: Action and Limit Level for Construction Noise

Monitoring Station	Time Period	Action Level	Limit Level
NMS1 NMS2 NMS4	0700 – 1900 hours on normal weekdays	When one documented complaint is received	75 dB(A)

The event and action plan is provided in **Appendix D**.

3 Summary of Environmental Status

3.1 Construction Works undertaken during the Reporting Period

A summary of construction activities undertaken during this reporting period is presented below:

Table 3.1: Construction Works undertaken during the Reporting Period

April 2024	May 2024	June 2024
KTSP		
• Mobilization and lifting; • Concreting; • Excavation; • Landscape work	• Mobilization and lifting; • Concreting; • Excavation; • Landscape work	• Mobilization and lifting; • Concreting; • Excavation; • Landscape work
H/O Development		
• Concreting; and • Landscape work	• Concreting; and • Landscape work	• Concreting; and • Landscape work

3.2 Implementation Status of Environmental Mitigation Measures

Regular site inspections and audits were carried out to monitor the implementation of proper environmental pollution control mitigation measures for the Project. **Table 3.2** shows the summary of site inspection and audit conducted during the reporting period.

Table 3.2: Summary of Site Inspection and Landscape Audit during the Reporting Period

Activities	Locations	Dates
Weekly environmental site inspections	Kai Tak Sports Park Project Site	3, 10, 17, 23, 30 Apr 2024 8, 14, 21, 29 May 2024 5, 12, 19, 25 Jun 2024
Bi-weekly landscape and visual site inspections	Kai Tak Sports Park Project Site	10, 23 Apr 2024 8, 21 May 2024 5, 19 Jun 2024

A summary of the environmental mitigation measures implementation status is presented in **Appendix I**. Most of the necessary mitigation measures were implemented properly. A summary of the environmental licenses and permits is presented in **Appendix H**.

3.3 Monitoring Results

The monitoring results for 1-hour TSP at AMS1-T, AMS2, and AMS4 are summarized in **Table 3.3**. Detailed impact air quality monitoring results are presented in **Appendix E**. The calibration certificate for the dust meter used during monitoring is shown in **Appendix K.**

Table 3.3: Summary of 1-hour TSP Monitoring Results during the Reporting Period

Monitoring Station	Average, µg/m³	Min, µg/m³	Max, µg/m³	Action Level, µg/m³	Limit Level, µg/m³
AMS1-T	41	21	60	283	500
AMS2	35	22	61	280	500
AMS4	31	19	45	287	500

There was no Action and Limit Level exceedance of 1-hr TSP level recorded at station AMS1-T, AMS2 and AMS4 by the ET during the reporting period.

The monitoring results for construction noise are summarized in **Table 3.4**. Detailed impact noise monitoring results and relevant graphical plots are presented in **Appendix E**. The calibration certificate for the noise meter used during monitoring is shown in **Appendix K**.

Table 3.4: Summary of Construction Noise Monitoring Results during the Reporting Period

	Measured Noise Level $L_{eq\ (30\ mins)}$, dB(A)			
Monitoring Station	Average	Min	Max	Limit Level
NMS1-T	71	70	72	75
NMS2	70	69	70	75
NMS4	68	65	70	75

No noise exceedances were recorded at stations NMS1-T, NMS2 and NMS4 by the ET during the reporting period.

3.4 Solid and Liquid Waste Management Status

The summary of waste flow table during the reporting period is detailed in **Appendix G**.

The comparison of estimated amount of waste generated for construction of the Project and actual amount generated during the reporting period is showed in **Table 3.5**.

Mitigation measures recommended in EIA Report were implemented by the Contractor as far as practicable and were considered effective in reducing the total quantity of waste generated during the reporting period.

Table 3.5: Comparison of Estimated Amount and Actual Amount of Waste Generated during the Reporting Period

Type of Waste	Estimated Amount for the Project in the EIA (m³)	Actual Amount during Reporting Period (000kg)	Actual Amount during Reporting Period* (m³)
Inert C&D materials (or public fills) to be disposed of	447,464	24,090	18,531
Non-inert C&D materials (or C&D waste) to be disposed of	68,110	4,481	5,601
Total C&D material of the Project	515,574	28,571	24,132

*Note:
Assumed Inert C&D waste density = 1,300 kg/m^3
Assumed Non-inert C&D waste density = 800 kg/m^3

3.5 Summary of Non-compliance Status

Exceedances

Air Quality

No Action and Limit Level exceedances of 1-hour TSP level was recorded at AMS1-T, AMS2 and AMS4 during the reporting period.

Noise

One noise related complaint was received during the reporting period. One Action Level exceedance for noise was triggered during the reporting period.

No Limit Level exceedances of noise at NMS1-T, NMS2 and NMS4 was recorded during the reporting period.

Complaints

There were four complaints received in relation to the environmental impact during the reporting period. Summary of complaints during the reporting period are presented in .

Table 3.6: Summary of Complaints during the Reporting Period

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
23 Apr 2024	17 Apr 2024	- Complaint of construction noise from the construction site of Kai Tak Sports Park at public holidays. - Please ensure the work fulfill the relevant environmental legislations and their subsidiary regulations. - Please take necessary measures to minimize the environmental nuisance arising from the construction site.	1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. 2. Subcontractors had been reminded to observe the Construction Noise Permit for working in holiday during regular subcontractor meetings. 3. A memo to all subcontractors has been issued in Jan 2024 with the latest Construction Noise Permit attached. 4. Permit to work checking system has been implemented for construction works at public holiday. 5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.	25 Apr 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
14 Jun 2024	3 Jun 2024	- Complaint of light nuisance from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park. 3. Spot lights are adjusted to control lighting direction away from nearby residential. 4. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.	19 Jun 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
24 Jun 2024	7 Jun 2024	- Complaint of dust emission from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Covering has been provided for stockpile on site. 2. Water spraying truck has been provided on haul road to maintain wet surface. 3. Water misting cannon has been provided for dust suppression on site. 4. Implementation of construction dust mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.	26 Jun 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
24 Jun 2024	20 Jun 2024	- Complaint of light nuisance from the construction site Kai Tak Sports Park - Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park Public Sports Ground. 3. Spot lights are adjusted to control lighting direction away from nearby residential. 4. "Guidelines on Industry Best Practices for External Lighting Installations" has been provided to subcontractor for reminder. 5. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.	2 Jul 2024

Notification of Summons and Successful Prosecution

No notification of summons or prosecutions was received during the reporting period.

Statistics on notifications of summons and successful prosecutions are summarized in **Appendix J**.

4 Comments, Recommendations and Conclusion

4.1 Comments

Mitigation measures in the EM&A Manual were implemented during the reporting period. The weekly environmental site inspections ensured that all the environmental mitigation measures recommended were effectively implemented. Based on observation from the site inspections, landscape audits, and the air quality and noise impact monitoring results recorded, it was considered that mitigation measures were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period.

4.2 Recommendations

During the reporting period, the following recommendations were provided:

April 2024

KTSP

- The contractor was reminded to provide temporary water pump to clear the stagnant water.
- The contractor was reminded to clear the general refuse regularly.
- The contractor was reminded to display NRMM label on the skid steer loader.
- The contractor was reminded to provide covering for the stockpile.
- The contractor was reminded to dispose of the general refuse properly.
- The contractor was reminded to display the construction noise permit.

H/O Development

- The contractor was reminded to clear the general refuse regularly.

May 2024

KTSP

- The contractor was reminded to provide temporary water pump to clear the stagnant water.
- The contractor was reminded to clear the general refuse regularly.
- The contractor was reminded to provide water spraying to maintain wet surface.
- The contractor was reminded to provide drip tray for the chemical container on site.
- The contractor was reminded to dispose of the general refuse properly.
- The contractor was reminded to provide regular water spraying.

H/O Development

- Nil

June 2024

KTSP

- The contractor was reminded to dispose of the general refuse properly.
- The contractor was reminded to provide water spraying on haul road to maintain wet surface.
- The contractor was reminded to maintain good housekeeping to minimize dust generation.
- The contractor was reminded to provide shelter for cement mixing work to minimise dust emission.
- The contractor was reminded to clear the general refuse regularly.
- The contractor was reminded to provide water spraying for breaking work.

H/O Development

- The contractor was reminded to remove the expired construction noise permit.
- The contractor was reminded to provide water spraying for breaking work.

Review of the effectiveness and efficiency of the EM&A programme will be continued, 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.

4.3 Conclusions

General

The construction works for the Project commenced on 8 April 2019.This is the 21st Quarterly EM&A Report for the Project summarises findings of the EM&A works during the reporting period from 1 April 2024 to 30 June 2024. (the “reporting period”).

Breaches of Action and Limit Levels

Air Quality

No Action and Limit Level exceedances of 1-hour TSP level was recorded at AMS1-T, AMS2 and AMS4 during the reporting period.

Noise

One noise related complaint was received during the reporting period. One Action Level exceedance for noise was triggered during the reporting period.

No Limit Level exceedances of noise at NMS1-T, NMS2 and NMS4 was recorded during the reporting period.

Environmental Site Inspections

Environmental site inspections were carried out fourteen times during the reporting period. Recommendations on remedial actions were given to the Contracted Party for the deficiencies identified during the site inspections.

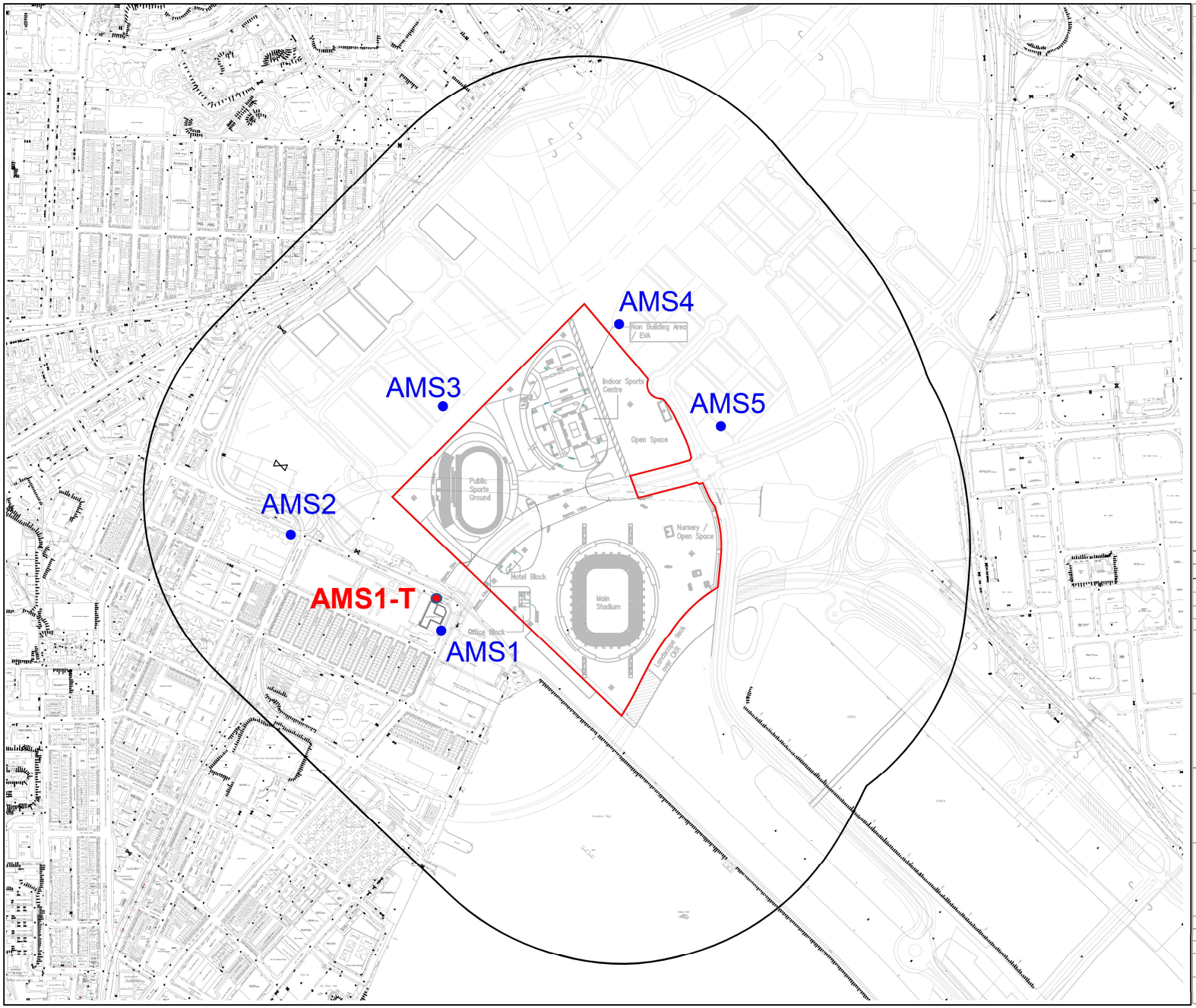
Complaints

There were four complaints received in relation to the environmental impact during the reporting period. Complaint investigations were conducted and mitigation measures were implemented.

Notifications of Summons and Successful Prosecutions

There were no notifications of summons or prosecutions received during the reporting period.

Figures



Key Plan:

Notes:

1. ALL LEVELS ARE METRES TO PRINCIPAL DATUM (PD) UNLESS NOTED OTHERWISE.
2. ALL CO-ORDINATES REFER TO HONG KONG (1980) METRIC GRID CO-ORDINATES SYSTEM.
3. PIPE AND BOX CULVERT SIZES ARE SHOWN IN MILLIMETERS

Key to symbols:

LEGEND:

- Project Site
- 500m from Site Boundary
- AMS1 Air Monitoring Station 1
- AMS1-T **Temporary Air Monitoring Station**

Rev	Date	Drawn	Description	Ch'k'd	App'd

MOTT MACDONALD
3/F Mapletree Bay Point
348 Kwun Tong Road
Kwun Tong, Kowloon
Hong Kong
T +852 2828 5757
F +852 2827 1823
W mottmac.com

Client

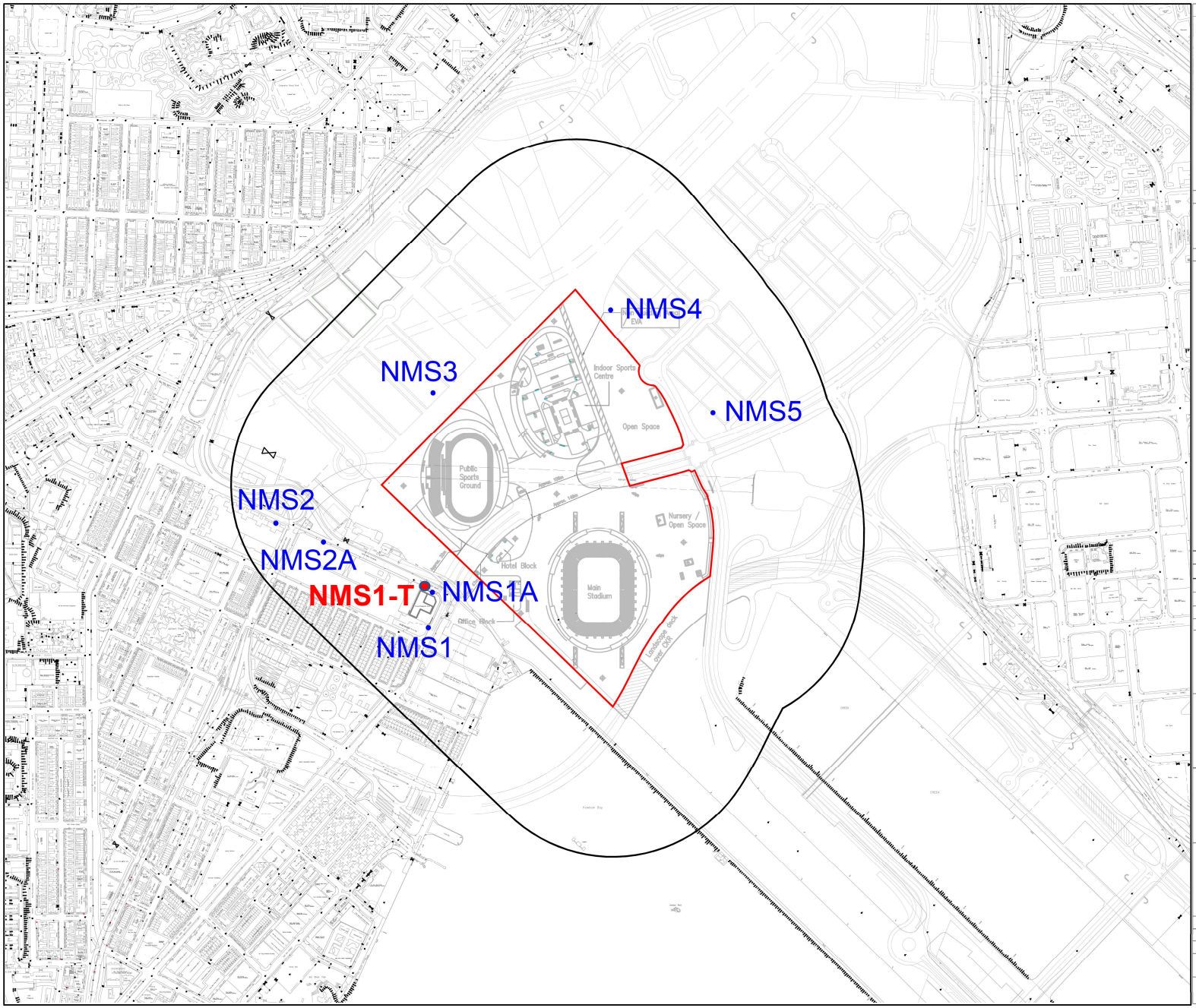
Project

Title

Figure 2.1
Location of Air Quality Monitoring Stations

Designed			Eng check		
Drawn			Coordination		
Dwg check			Approved		
Scale at A3		Status		Rev	

Drawing Number



Key Plan:

Notes:

1. ALL LEVELS ARE METRES TO PRINCIPAL DATUM (PD) UNLESS NOTED OTHERWISE.
2. ALL CO-ORDINATES REFER TO HONG KONG (1980) METRIC GRID CO-ORDINATES SYSTEM.
3. PIPE AND BOX CULVERT SIZES ARE SHOWN IN MILLIMETERS

Key to symbols:

LEGEND:

- Project Site
- 300m from Site Boundary
- NMS1 — Construction Noise Monitoring Station 1
- NMS1-T — **Temporary Noise Monitoring Station**

Rev	Date	Drawn	Description	Ch'k'd	App'd

MOTT MACDONALD
3/F Mapletree Bay Point
348 Kwun Tong Road
Kwun Tong, Kowloon
Hong Kong
T +852 2828 5757
F +852 2827 1823
W mottmac.com

Client:

Project:

Title:

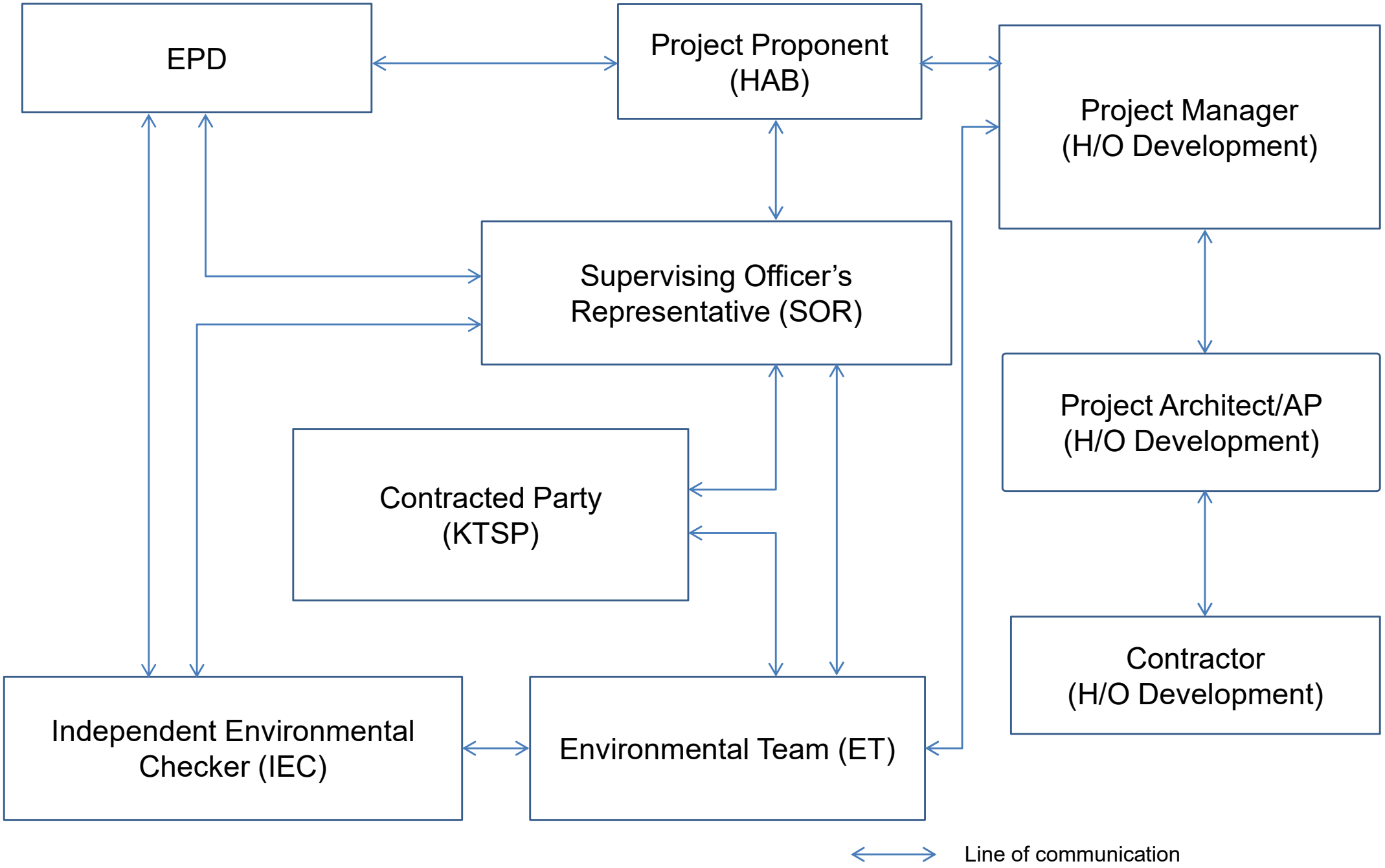
Figure 2.2
Location of Noise Monitoring Stations

Designed			Eng check		
Drawn			Coordination		
Dwg check			Approved		
Scale at A3		Status		Rev	

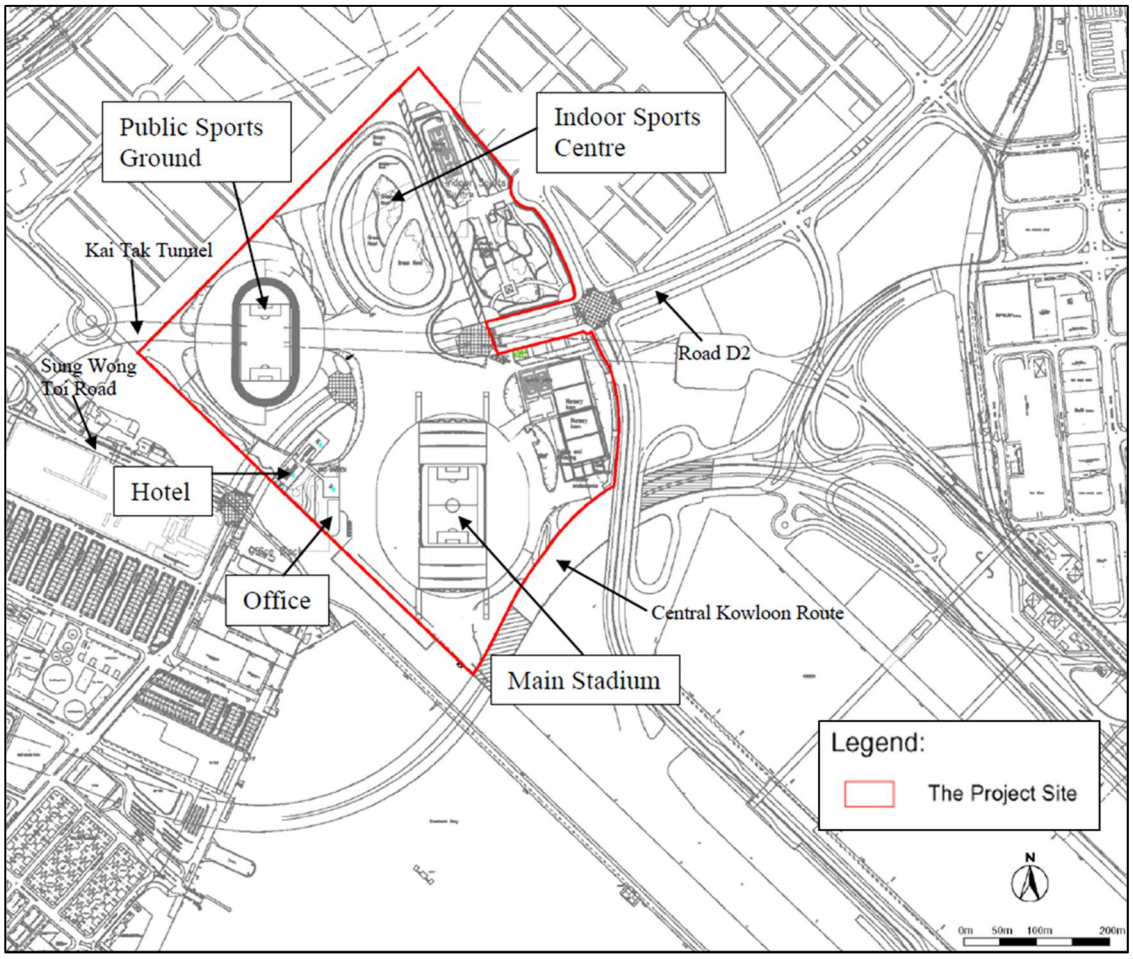
Drawing Number

Appendix A. Project Organization for Environmental Works

Project Organisation for Environmental Works



Appendix B. Location of Works Areas



Appendix C. Construction Programme

Construction Programme (Apr 2024 to Jul 2024)

Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												
Impact Water Sampling (PSG)												

Hotel and Office Development

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Appendix D. Event and Action Plan

Should non-compliance of the air quality criteria occur, actions in accordance with the Event and Action Plan in **Table D.1** and **Table D.2** shall be carried out.

Table D.1: Event and Action Plan for Construction Air Quality (Action Level)

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

Table D.2: Event and Action Plan for Construction Air Quality (Limit Level)

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

Should non-compliance of the noise criteria occur, actions in accordance with the Event and Action Plan in **Table D.3** shall be carried out.

Table D.3: Event and Action Plan for Construction Noise

Event	Action			
	ET	IEC	SOR	Contracted Party
Action Level	1. Notify IEC, SOR and Contracted Party of exceedance; 2. Identify source; 3. Investigate the causes of exceedance and propose remedial measures; 4. Report the results of investigation to the IEC, SOR and Contracted Party; 5. Discuss with the IEC, SOR and Contracted Party and formulate remedial measures; 6. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contracted Party and advise the SOR accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contracted Party; 3. Require Contracted Party to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to SOR with copy to ET and IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, SOR, EPD and Contracted Party; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contracted Party's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, SOR and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contracted Party's remedial actions and keep IEC, EPD and SOR informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst SOR, ET, and Contracted Party on the potential remedial actions; 2. Review Contracted Party's remedial actions whenever necessary to assure their effectiveness and advise the SOR accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contracted Party; 3. Require Contracted Party to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, investigate what portion of the work is responsible and instruct the Contracted Party to terminate that portion of work until the exceedance ceases.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to SOR with copy to ET and IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Terminate the relevant portion of works as determined by the SOR until the exceedance ceases.

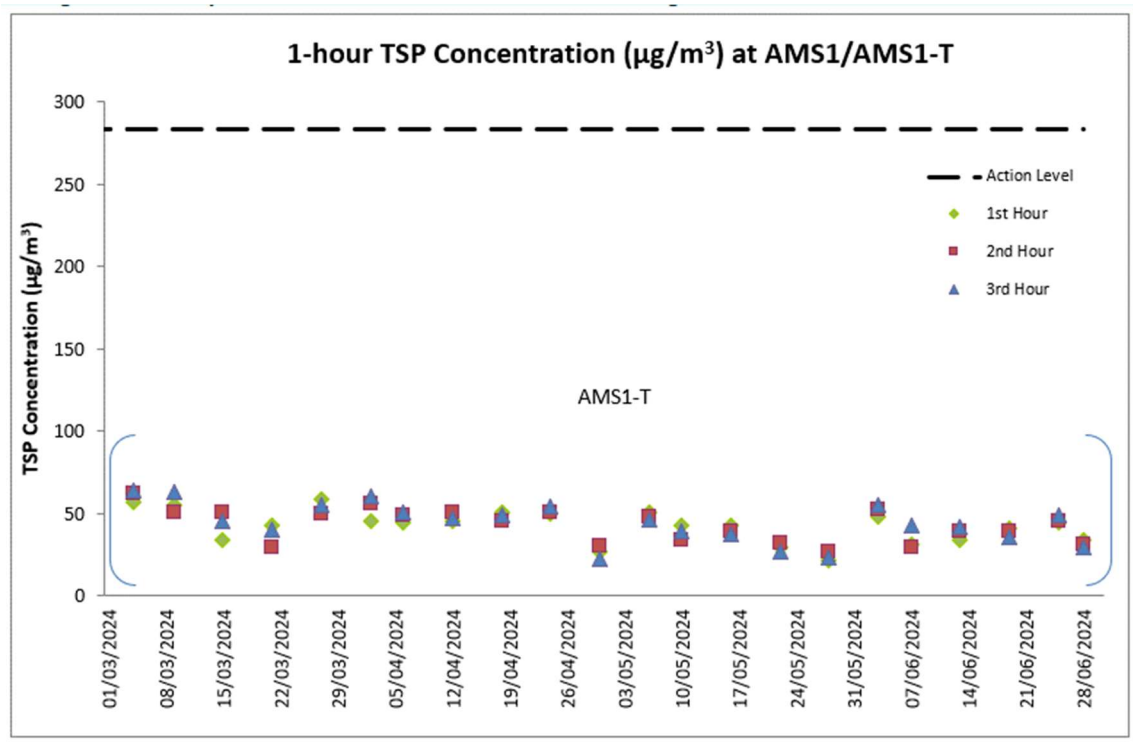
Appendix E. Monitoring Data and Graphical Plots (Air Quality and Noise)

Data for 1-hour TSP Monitoring at Station AMS1/AMS1-T

	Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
*	02-Apr-24	9:27	10:27	Cloudy	2.8	157	45
*	02-Apr-24	10:27	11:27	Cloudy	2.5	145	56
*	02-Apr-24	11:27	12:27	Cloudy	2.5	156	60
*	06-Apr-24	8:59	9:59	Cloudy	3.9	143	44
*	06-Apr-24	9:59	10:59	Cloudy	4.4	148	49
*	06-Apr-24	10:59	11:59	Cloudy	4.4	131	51
*	12-Apr-24	9:32	10:32	Sunny	1.7	159	45
*	12-Apr-24	10:32	11:32	Sunny	1.9	148	51
*	12-Apr-24	11:32	12:32	Sunny	3.6	152	47
*	18-Apr-24	9:50	10:50	Cloudy	1.7	231	51
*	18-Apr-24	10:50	11:50	Cloudy	1.7	228	45
*	18-Apr-24	11:50	12:50	Cloudy	2.5	283	49
*	24-Apr-24	9:27	10:27	Cloudy	0.3	159	50
*	24-Apr-24	10:27	11:27	Cloudy	2.2	160	51
*	24-Apr-24	11:27	12:27	Cloudy	1.7	165	54
*	30-Apr-24	9:33	10:33	Cloudy	2.2	210	27
*	30-Apr-24	10:33	11:33	Cloudy	1.7	196	30
*	30-Apr-24	11:33	12:33	Cloudy	1.7	286	22
*	06-May-24	9:51	10:51	Sunny	2.5	149	51
*	06-May-24	10:51	11:51	Sunny	2.5	148	48
*	06-May-24	11:51	12:51	Sunny	2.8	153	46
*	10-May-24	9:00	10:00	Cloudy	5.0	124	43
*	10-May-24	10:00	11:00	Cloudy	5.0	134	34
*	10-May-24	11:00	12:00	Cloudy	5.3	106	39
*	16-May-24	9:28	10:28	Sunny	7.2	119	43
*	16-May-24	10:28	11:28	Sunny	7.5	119	39
*	16-May-24	11:28	12:28	Sunny	8.9	126	37
*	22-May-24	9:30	10:30	Cloudy	0.8	155	29
*	22-May-24	10:30	11:30	Cloudy	1.1	175	32
*	22-May-24	11:30	12:30	Cloudy	2.2	164	27
*	28-May-24	9:33	10:33	Cloudy	2.5	155	21
*	28-May-24	10:33	11:33	Cloudy	0.8	163	27
*	28-May-24	11:33	12:33	Cloudy	0.3	155	23
*	03-Jun-24	9:30	10:30	Cloudy	3.6	129	48
*	03-Jun-24	10:30	11:30	Cloudy	3.9	126	52
*	03-Jun-24	11:30	12:30	Cloudy	3.3	128	55
*	07-Jun-24	8:50	9:50	Cloudy	5.0	116	31
*	07-Jun-24	9:50	10:50	Cloudy	4.7	117	29
*	07-Jun-24	10:50	11:50	Cloudy	5.0	102	43
*	13-Jun-24	9:44	10:44	Cloudy	3.3	264	34
*	13-Jun-24	10:44	11:44	Cloudy	1.7	271	39
*	13-Jun-24	11:44	12:44	Cloudy	1.1	variable	42
*	19-Jun-24	9:34	10:34	Cloudy	0.8	268	41
*	19-Jun-24	10:34	11:34	Cloudy	1.4	254	39
*	19-Jun-24	11:34	12:34	Cloudy	1.7	227	36
*	25-Jun-24	9:31	10:31	Cloudy	2.5	151	44
*	25-Jun-24	10:31	11:31	Cloudy	2.8	156	45
*	25-Jun-24	11:31	12:31	Cloudy	3.9	153	49
*	28-Jun-24	8:40	9:40	Fine	2.5	144	34
*	28-Jun-24	9:40	10:40	Fine	1.7	149	31
*	28-Jun-24	10:40	11:40	Fine	2.8	150	29

*Note: During the reporting period, monitoring station AMS1 was no longer open for monitoring from September 2022, due to relocation of the Hong Kong Society for the Blind Workshop. Temporary air quality monitoring station, AMS1-T was used to conduct dust monitoring in September 2022. Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

Graphical Presentation for 1-hour TSP Monitoring at AMS1/AMS1-T



Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

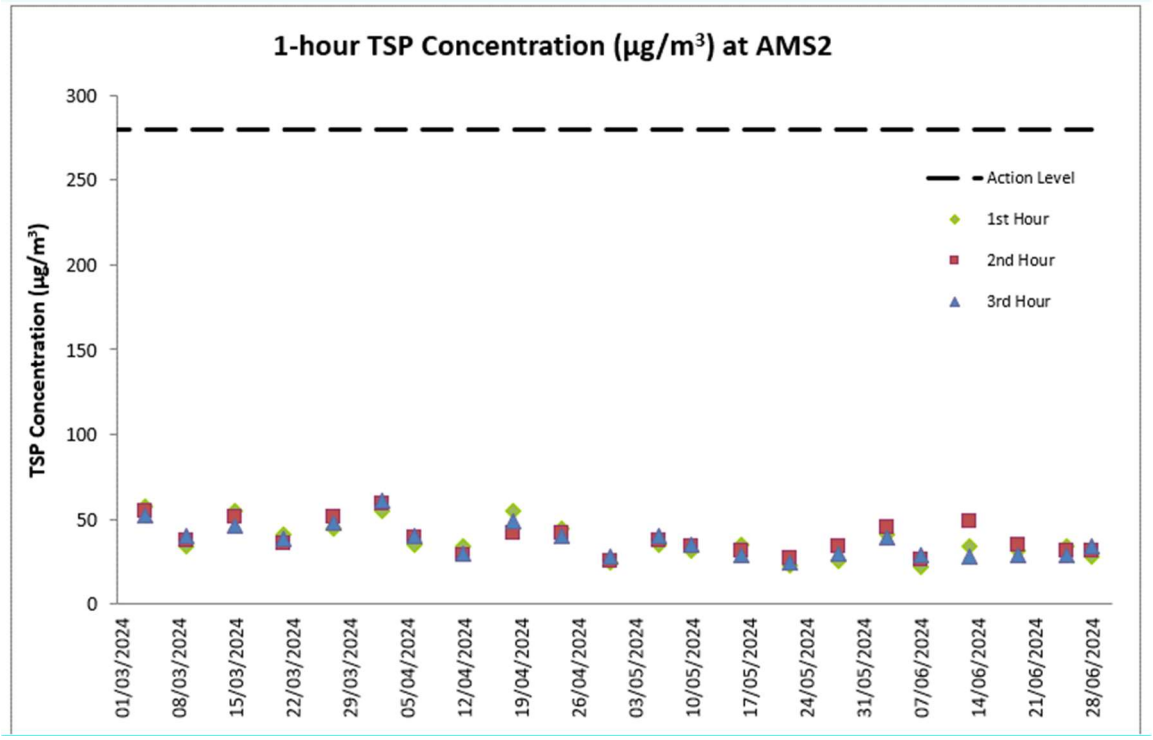
Hotel and Office Development

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Data for 1-hour TSP Monitoring at Station AMS2

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
02-Apr-24	8:43	9:43	Cloudy	3.3	149	55
02-Apr-24	9:43	10:43	Cloudy	3.1	150	59
02-Apr-24	10:43	11:43	Cloudy	1.7	154	61
06-Apr-24	8:49	9:49	Cloudy	5.3	138	35
06-Apr-24	9:49	10:49	Cloudy	4.7	135	39
06-Apr-24	10:49	11:49	Cloudy	2.5	163	40
12-Apr-24	8:48	9:48	Sunny	1.7	149	34
12-Apr-24	9:48	10:48	Sunny	2.2	149	29
12-Apr-24	10:48	11:48	Sunny	2.2	148	30
18-Apr-24	9:04	10:04	Cloudy	1.1	231	55
18-Apr-24	10:04	11:04	Cloudy	1.7	239	42
18-Apr-24	11:04	12:04	Cloudy	2.5	207	49
24-Apr-24	8:43	9:43	Cloudy	0.8	261	44
24-Apr-24	9:43	10:43	Cloudy	1.7	160	42
24-Apr-24	10:43	11:43	Cloudy	1.7	157	40
30-Apr-24	8:50	9:50	Cloudy	2.5	222	24
30-Apr-24	9:50	10:50	Cloudy	2.2	223	25
30-Apr-24	10:50	11:50	Cloudy	2.2	232	28
06-May-24	9:02	10:02	Sunny	2.5	157	35
06-May-24	10:02	11:02	Sunny	2.5	151	37
06-May-24	11:02	12:02	Sunny	1.7	147	40
10-May-24	8:50	9:50	Cloudy	5.0	121	31
10-May-24	9:50	10:50	Cloudy	5.3	111	34
10-May-24	10:50	11:50	Cloudy	5.3	118	35
16-May-24	8:45	9:45	Sunny	6.9	115	35
16-May-24	9:45	10:45	Sunny	7.8	118	31
16-May-24	10:45	11:45	Sunny	7.5	111	29
22-May-24	8:47	9:47	Cloudy	1.4	176	23
22-May-24	9:47	10:47	Cloudy	0.8	160	27
22-May-24	10:47	11:47	Cloudy	1.1	167	24
28-May-24	8:49	9:49	Cloudy	0.3	164	25
28-May-24	9:49	10:49	Cloudy	2.5	154	34
28-May-24	10:49	11:49	Cloudy	0.0	variable	30
03-Jun-24	8:47	9:47	Cloudy	4.2	129	41
03-Jun-24	9:47	10:47	Cloudy	5.0	127	45
03-Jun-24	10:47	11:47	Cloudy	4.4	124	39
07-Jun-24	8:40	9:40	Cloudy	4.4	123	22
07-Jun-24	9:40	10:40	Cloudy	4.7	116	26
07-Jun-24	10:40	11:40	Cloudy	4.2	117	29
13-Jun-24	9:05	10:05	Cloudy	2.2	280	34
13-Jun-24	10:05	11:05	Cloudy	1.7	325	49
13-Jun-24	11:05	12:05	Cloudy	0.8	192	28
19-Jun-24	8:50	9:50	Cloudy	0.3	73	31
19-Jun-24	9:50	10:50	Cloudy	0.8	149	35
19-Jun-24	10:50	11:50	Cloudy	1.7	228	29
25-Jun-24	8:47	9:47	Cloudy	2.8	138	34
25-Jun-24	9:47	10:47	Cloudy	2.8	159	31
25-Jun-24	10:47	11:47	Cloudy	3.9	150	29
28-Jun-24	9:30	10:30	Fine	1.4	145	28
28-Jun-24	10:30	11:30	Fine	2.8	147	31
28-Jun-24	11:30	12:30	Fine	2.8	146	34

Graphical Presentation for 1-hour TSP Monitoring at AMS2



Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

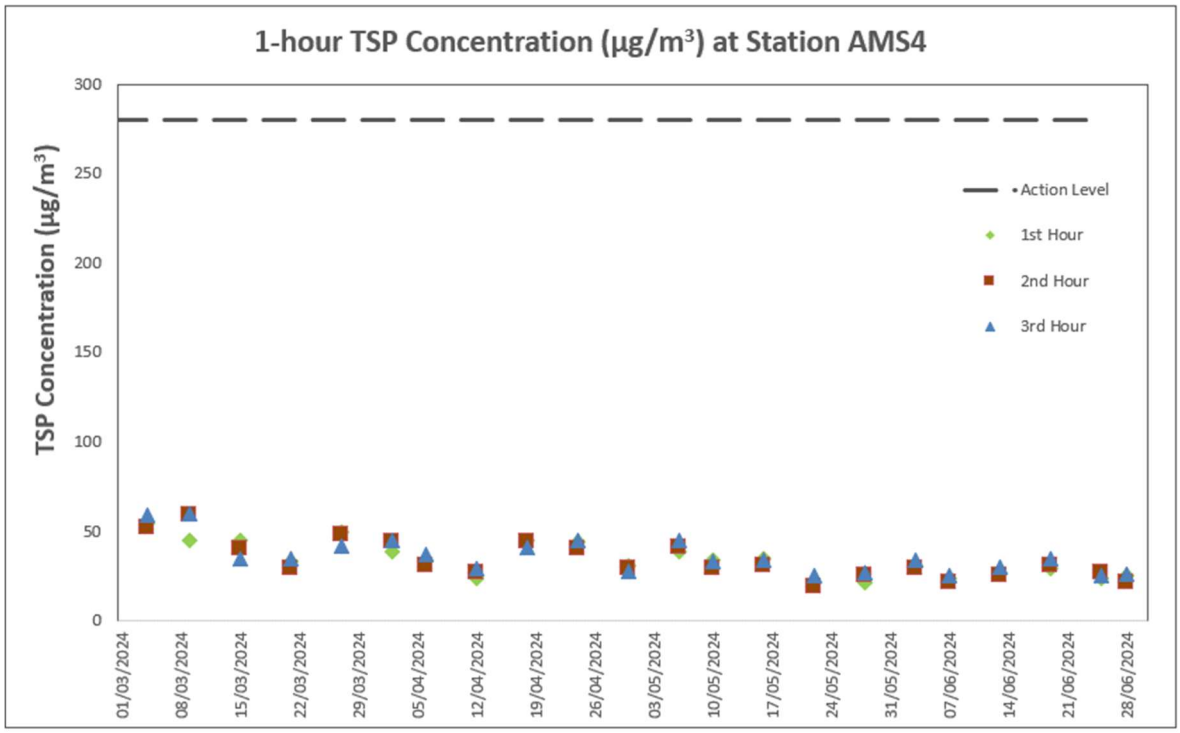
Hotel and Office Development

	2024										
ctivities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
ading of Materials											
ork											
isposal											

Data for 1-hour TSP Monitoring at Station AMS4

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
02-Apr-24	10:20	11:20	Cloudy	2.8	145	39
02-Apr-24	11:20	12:20	Cloudy	3.1	148	44
02-Apr-24	12:20	13:20	Cloudy	1.9	173	45
06-Apr-24	9:20	10:20	Cloudy	4.2	146	34
06-Apr-24	10:20	11:20	Cloudy	3.3	159	31
06-Apr-24	11:20	12:20	Cloudy	6.4	141	37
12-Apr-24	10:26	11:26	Sunny	1.7	147	24
12-Apr-24	11:26	12:26	Sunny	3.3	152	27
12-Apr-24	12:26	13:26	Sunny	2.5	149	29
18-Apr-24	10:42	11:42	Cloudy	1.7	233	45
18-Apr-24	11:42	12:42	Cloudy	1.7	276	44
18-Apr-24	12:42	13:42	Cloudy	3.3	317	41
24-Apr-24	10:20	11:20	Cloudy	2.2	158	44
24-Apr-24	11:20	12:20	Cloudy	1.7	164	40
24-Apr-24	12:20	13:20	Cloudy	1.9	158	45
30-Apr-24	10:27	11:27	Cloudy	1.4	213	31
30-Apr-24	11:27	12:27	Cloudy	0.8	227	29
30-Apr-24	12:27	13:27	Cloudy	1.9	244	28
06-May-24	10:40	11:40	Sunny	2.2	154	39
06-May-24	11:40	12:40	Sunny	2.5	151	41
06-May-24	12:40	13:40	Sunny	1.9	147	45
10-May-24	9:21	10:21	Cloudy	5.0	115	34
10-May-24	10:21	11:21	Cloudy	5.0	107	29
10-May-24	11:21	12:21	Cloudy	5.6	125	33
16-May-24	10:22	11:22	Sunny	7.5	112	35
16-May-24	11:22	12:22	Sunny	7.5	124	31
16-May-24	12:22	13:22	Sunny	5.8	108	34
22-May-24	10:21	11:21	Cloudy	1.1	172	21
22-May-24	11:21	12:21	Cloudy	1.7	168	19
22-May-24	12:21	13:21	Cloudy	1.9	162	25
28-May-24	10:27	11:27	Cloudy	0.8	175	21
28-May-24	11:27	12:27	Cloudy	0.6	177	25
28-May-24	12:27	13:27	Cloudy	1.9	170	27
03-Jun-24	10:23	11:23	Cloudy	4.2	122	31
03-Jun-24	11:23	12:23	Cloudy	3.9	129	29
03-Jun-24	12:23	13:23	Cloudy	3.3	135	34
07-Jun-24	9:11	10:11	Cloudy	5.3	115	24
07-Jun-24	10:11	11:11	Cloudy	4.2	117	21
07-Jun-24	11:11	12:11	Cloudy	4.7	123	25
13-Jun-24	10:51	11:51	Cloudy	1.4	184	27
13-Jun-24	11:51	12:51	Cloudy	1.1	220	25
13-Jun-24	12:51	13:51	Cloudy	3.9	270	30
19-Jun-24	10:27	11:27	Cloudy	1.7	195	29
19-Jun-24	11:27	12:27	Cloudy	1.7	213	31
19-Jun-24	12:27	13:27	Cloudy	2.8	223	35
25-Jun-24	10:25	11:25	Cloudy	3.1	146	24
25-Jun-24	11:25	12:25	Cloudy	4.7	139	27
25-Jun-24	12:25	13:25	Cloudy	3.3	150	25
28-Jun-24	8:59	9:59	Fine	2.8	137	25
28-Jun-24	9:59	10:59	Fine	2.2	149	21
28-Jun-24	10:59	11:59	Fine	3.3	141	26

Graphical Presentation for 1-hour TSP Monitoring at AMS4



Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

Hotel and Office Development

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Data for Noise Monitoring at Station NMS1/NMS1-T

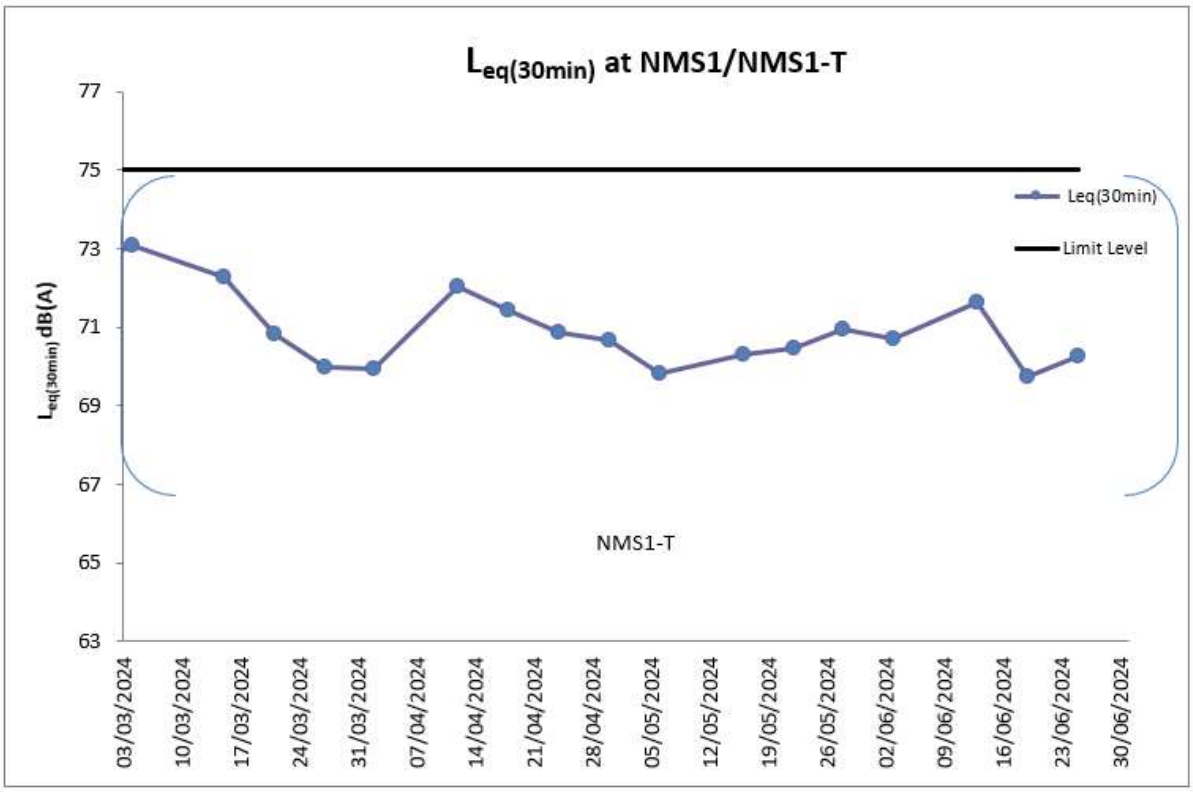
	Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
*	02-Apr-24	09:30	Cloudy	70.8	74.0	64.9	69.9
*	02-Apr-24	09:35	Cloudy	71.1	73.6	65.7	
*	02-Apr-24	09:40	Cloudy	69.0	72.2	63.0	
*	02-Apr-24	09:45	Cloudy	70.5	73.4	63.3	
*	02-Apr-24	09:50	Cloudy	68.4	71.7	62.4	
*	02-Apr-24	09:55	Cloudy	69.1	72.9	64.2	
*	12-Apr-24	09:35	Sunny	71.9	74.0	63.1	72.0
*	12-Apr-24	09:40	Sunny	72.1	75.2	62.9	
*	12-Apr-24	09:45	Sunny	70.0	74.8	62.3	
*	12-Apr-24	09:50	Sunny	71.7	74.4	63.6	
*	12-Apr-24	09:55	Sunny	72.5	75.6	63.7	
*	12-Apr-24	10:00	Sunny	73.4	75.5	64.0	
*	18-Apr-24	09:53	Cloudy	71.3	73.7	67.8	71.4
*	18-Apr-24	09:58	Cloudy	71.8	73.5	68.8	
*	18-Apr-24	10:03	Cloudy	70.7	72.6	67.3	
*	18-Apr-24	10:08	Cloudy	71.8	73.1	68.1	
*	18-Apr-24	10:13	Cloudy	71.6	74.0	68.8	
*	18-Apr-24	10:18	Cloudy	71.2	73.2	68.7	
*	24-Apr-24	09:30	Cloudy	70.9	73.7	62.8	70.9
*	24-Apr-24	09:35	Cloudy	71.6	74.5	63.4	
*	24-Apr-24	09:40	Cloudy	69.7	72.3	62.0	
*	24-Apr-24	09:45	Cloudy	70.6	73.2	63.7	
*	24-Apr-24	09:50	Cloudy	71.1	73.0	63.4	
*	24-Apr-24	09:55	Cloudy	71.0	74.9	64.2	
*	30-Apr-24	09:36	Cloudy	69.4	73.4	64.5	70.7
*	30-Apr-24	09:41	Cloudy	70.9	73.0	65.3	
*	30-Apr-24	09:46	Cloudy	71.1	74.2	65.8	
*	30-Apr-24	09:51	Cloudy	69.6	72,7	63.6	
*	30-Apr-24	09:56	Cloudy	71.6	74.9	64.7	
*	30-Apr-24	10:01	Cloudy	71.0	74.6	64.0	
*	06-May-24	09:50	Sunny	69.7	72.6	60.9	69.8
*	06-May-24	09:55	Sunny	69.9	73.2	62.0	
*	06-May-24	10:00	Sunny	70.1	73.6	61.6	
*	06-May-24	10:05	Sunny	69.0	72.0	62.2	
*	06-May-24	10:10	Sunny	70.2	73.8	60.0	
*	06-May-24	10:15	Sunny	70.0	73.6	62.1	
*	16-May-24	09:31	Sunny	70.0	73.4	63.5	70.3
*	16-May-24	09:36	Sunny	69.3	72.7	62.6	
*	16-May-24	09:41	Sunny	69.8	72.2	62.9	
*	16-May-24	09:46	Sunny	70.1	73.0	63.1	
*	16-May-24	09:51	Sunny	70.7	73.9	63.2	
*	16-May-24	09:56	Sunny	71.5	74.4	64.0	
*	22-May-24	09:33	Cloudy	69.9	72.7	63.8	70.5
*	22-May-24	09:38	Cloudy	68.1	71.0	62.2	
*	22-May-24	09:43	Cloudy	71.6	74.3	65.4	
*	22-May-24	09:48	Cloudy	70.5	73.9	64.6	
*	22-May-24	09:53	Cloudy	71.7	74.6	65.0	
*	22-May-24	09:58	Cloudy	70.0	73.4	64.2	
*	28-May-24	09:36	Cloudy	69.9	73.6	62.5	71.0
*	28-May-24	09:41	Cloudy	70.7	74.4	64.8	
*	28-May-24	09:46	Cloudy	70.3	73.9	63.0	
*	28-May-24	09:51	Cloudy	71.4	74.2	64.7	
*	28-May-24	09:56	Cloudy	71.1	74.0	64.5	
*	28-May-24	10:01	Cloudy	72.0	75.6	65.4	

	Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
*	03-Jun-24	09:33	Cloudy	69.4	73.5	62.6	70.7
*	03-Jun-24	09:38	Cloudy	70.7	73.0	64.2	
*	03-Jun-24	09:43	Cloudy	71.1	74.3	63.5	
*	03-Jun-24	09:48	Cloudy	71.9	74.8	62.9	
*	03-Jun-24	09:53	Cloudy	69.6	72.7	62.6	
*	03-Jun-24	09:58	Cloudy	71.0	74.6	64.0	
*	13-Jun-24	10:02	Cloudy	69.9	73.5	62.8	71.6
*	13-Jun-24	10:07	Cloudy	72.7	75.1	63.4	
*	13-Jun-24	10:12	Cloudy	70.5	73.9	63.5	
*	13-Jun-24	10:17	Cloudy	71.8	74.9	65.1	
*	13-Jun-24	10:22	Cloudy	72.8	75.8	67.8	
*	13-Jun-24	10:27	Cloudy	71.3	73.8	65.2	
*	19-Jun-24	09:37	Cloudy	68.7	71.4	63.0	69.7
*	19-Jun-24	09:42	Cloudy	69.5	72.6	64.3	
*	19-Jun-24	09:47	Cloudy	70.6	73.2	64.7	
*	19-Jun-24	09:52	Cloudy	71.1	74.9	65.9	
*	19-Jun-24	09:57	Cloudy	69.8	72.0	64.4	
*	19-Jun-24	10:02	Cloudy	68.0	71.8	63.5	
*	25-Jun-24	09:34	Cloudy	69.8	72.3	63.2	70.3
*	25-Jun-24	09:39	Cloudy	70.4	73.0	64.5	
*	25-Jun-24	09:44	Cloudy	68.1	71.7	62.6	
*	25-Jun-24	09:49	Cloudy	69.0	72.9	63.9	
*	25-Jun-24	09:54	Cloudy	71.7	74.4	64.7	
*	25-Jun-24	09:59	Cloudy	71.5	74.6	64.0	

* Note:

During the reporting period, monitoring station NMS1 was no longer open for impact monitoring from September 2022, due to relocation of the Hong Kong Society for the Blind Workshop. Temporary noise monitoring station, NMS1-T was used to conduct noise monitoring in September 2022. Details of temporary alternative monitoring locations are presented in Temporary Alternative Proposal for Monitoring Station as proposed by ET and agreed by IEC dated 6 January 2021.

Graphical Presentation for Noise Monitoring at NMS1/NMS1-T



Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

Hotel and Office Development

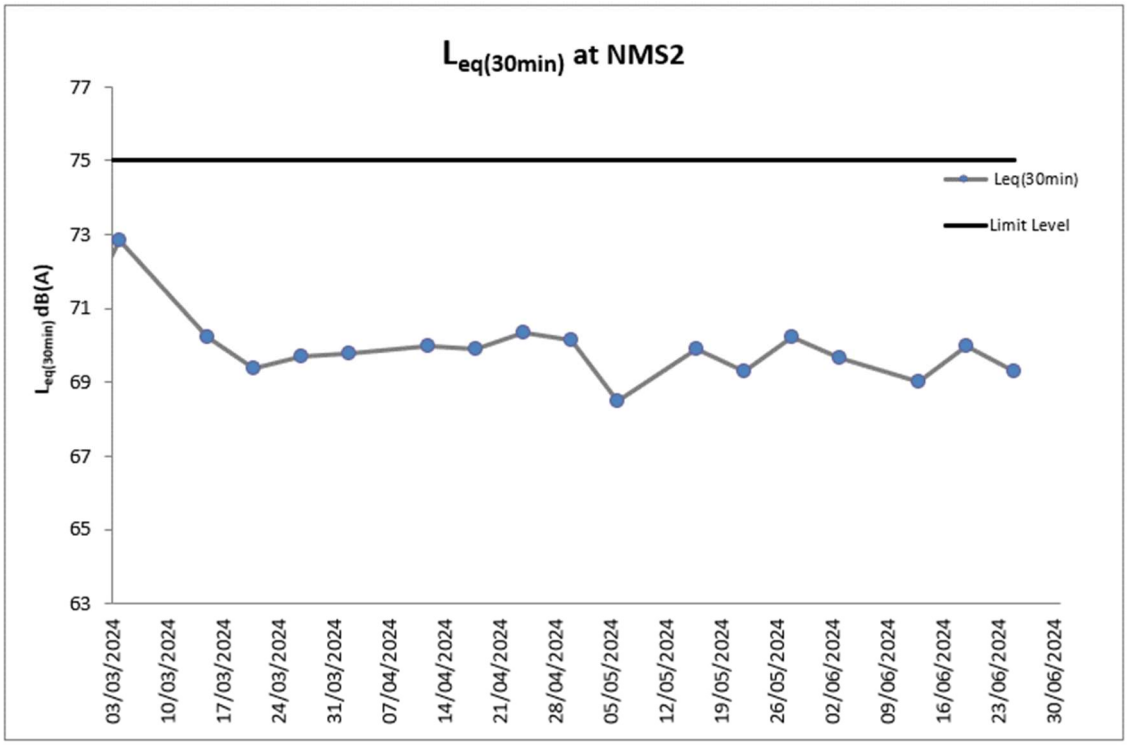
	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Data for Noise Monitoring at Station NMS2

Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
02-Apr-24	08:46	Cloudy	69.1	72.0	66.3	69.8
02-Apr-24	08:51	Cloudy	68.9	71.2	65.1	
02-Apr-24	08:56	Cloudy	68.4	71.5	65.6	
02-Apr-24	09:01	Cloudy	70.7	73.8	66.9	
02-Apr-24	09:06	Cloudy	69.0	72.7	66.0	
02-Apr-24	09:11	Cloudy	71.6	74.4	67.2	
12-Apr-24	08:51	Sunny	68.3	71.4	65.5	70.0
12-Apr-24	08:56	Sunny	69.6	72.2	66.7	
12-Apr-24	09:01	Sunny	70.1	73.0	67.9	
12-Apr-24	09:06	Sunny	69.8	72.7	66.0	
12-Apr-24	09:11	Sunny	71.0	74.9	67.6	
12-Apr-24	09:16	Sunny	70.7	73.1	67.2	
18-Apr-24	09:07	Cloudy	69.5	71.4	66.6	69.9
18-Apr-24	09:12	Cloudy	69.6	71.8	66.7	
18-Apr-24	09:17	Cloudy	71.0	72.2	66.4	
18-Apr-24	09:22	Cloudy	69.5	71.5	66.6	
18-Apr-24	09:27	Cloudy	70.0	72.8	65.5	
18-Apr-24	09:32	Cloudy	69.5	71.6	65.7	
24-Apr-24	08:46	Cloudy	69.8	72.0	65.9	70.4
24-Apr-24	08:51	Cloudy	70.1	73.7	66.6	
24-Apr-24	08:56	Cloudy	71.7	74.2	66.3	
24-Apr-24	09:01	Cloudy	69.6	72.4	65.0	
24-Apr-24	09:06	Cloudy	69.5	72.9	65.7	
24-Apr-24	09:11	Cloudy	71.0	73.6	66.4	
30-Apr-24	08:53	Cloudy	68.4	71.3	65.4	70.1
30-Apr-24	08:58	Cloudy	69.2	72.5	66.8	
30-Apr-24	09:03	Cloudy	68.5	71.1	65.6	
30-Apr-24	09:08	Cloudy	70.0	73.7	67.5	
30-Apr-24	09:13	Cloudy	71.8	74.0	66.9	
30-Apr-24	09:18	Cloudy	71.6	74.9	67.3	
06-May-24	09:05	Cloudy	68.4	71.0	65.2	68.5
06-May-24	09:10	Cloudy	68.3	70.5	64.7	
06-May-24	09:15	Cloudy	68.0	70.7	63.9	
06-May-24	09:20	Cloudy	68.5	71.1	64.8	
06-May-24	09:25	Cloudy	69.0	72.4	63.8	
06-May-24	09:30	Cloudy	68.7	71.9	64.1	
16-May-24	08:48	Sunny	68.9	71.0	65.3	69.9
16-May-24	08:53	Sunny	69.1	73.2	66.4	
16-May-24	08:58	Sunny	69.8	72.5	66.8	
16-May-24	09:03	Sunny	70.6	74.7	67.0	
16-May-24	09:08	Sunny	71.4	74.9	67.7	
16-May-24	09:13	Sunny	69.0	72.4	66.4	
22-May-24	08:50	Cloudy	68.9	71.0	65.1	69.3
22-May-24	08:55	Cloudy	69.1	72.2	66.4	
22-May-24	09:00	Cloudy	69.7	72.3	66.6	
22-May-24	09:05	Cloudy	68.5	71.9	65.8	
22-May-24	09:10	Cloudy	70.4	73.7	67.0	
22-May-24	09:15	Cloudy	69.0	72.6	65.9	
28-May-24	08:52	Cloudy	68.9	71.4	65.3	70.2
28-May-24	08:57	Cloudy	69.5	72.2	66.6	
28-May-24	09:02	Cloudy	70.1	73.0	66.6	
28-May-24	09:07	Cloudy	71.7	74.8	67.9	
28-May-24	09:12	Cloudy	69.6	72.7	65.1	
28-May-24	09:17	Cloudy	71.0	74.6	67.0	

Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
03-Jun-24	08:50	Cloudy	68.7	71.0	64.6	69.7
03-Jun-24	08:55	Cloudy	69.1	72.2	65.5	
03-Jun-24	09:00	Cloudy	69.3	72.4	65.9	
03-Jun-24	09:05	Cloudy	70.0	73.8	66.0	
03-Jun-24	09:10	Cloudy	69.6	72.7	65.6	
03-Jun-24	09:15	Cloudy	70.9	73.5	66.7	
13-Jun-24	09:03	Cloudy	69.3	71.4	66.2	69.0
13-Jun-24	09:08	Cloudy	68.7	70.7	64.7	
13-Jun-24	09:13	Cloudy	69.0	71.7	65.4	
13-Jun-24	09:18	Cloudy	69.0	70.9	66.0	
13-Jun-24	09:23	Cloudy	68.8	70.7	66.2	
13-Jun-24	09:28	Cloudy	69.2	71.1	66.2	
19-Jun-24	08:53	Cloudy	68.9	71.6	66.7	70.0
19-Jun-24	08:58	Cloudy	69.5	72.8	67.4	
19-Jun-24	09:03	Cloudy	69.6	72.3	67.9	
19-Jun-24	09:08	Cloudy	70.4	73.0	67.4	
19-Jun-24	09:13	Cloudy	70.2	73.1	67.1	
19-Jun-24	09:18	Cloudy	71.0	74.9	68.0	
25-Jun-24	08:50	Cloudy	68.9	71.0	66.3	69.3
25-Jun-24	08:55	Cloudy	69.1	72.2	67.5	
25-Jun-24	09:00	Cloudy	70.4	73.7	68.8	
25-Jun-24	09:05	Cloudy	69.6	72.9	67.7	
25-Jun-24	09:10	Cloudy	68.5	71.4	66.6	
25-Jun-24	09:15	Cloudy	69.0	72.2	67.0	

Graphical Presentation for Noise Monitoring at NMS2



Kai Tak Sports Park

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

Hotel and Office Development

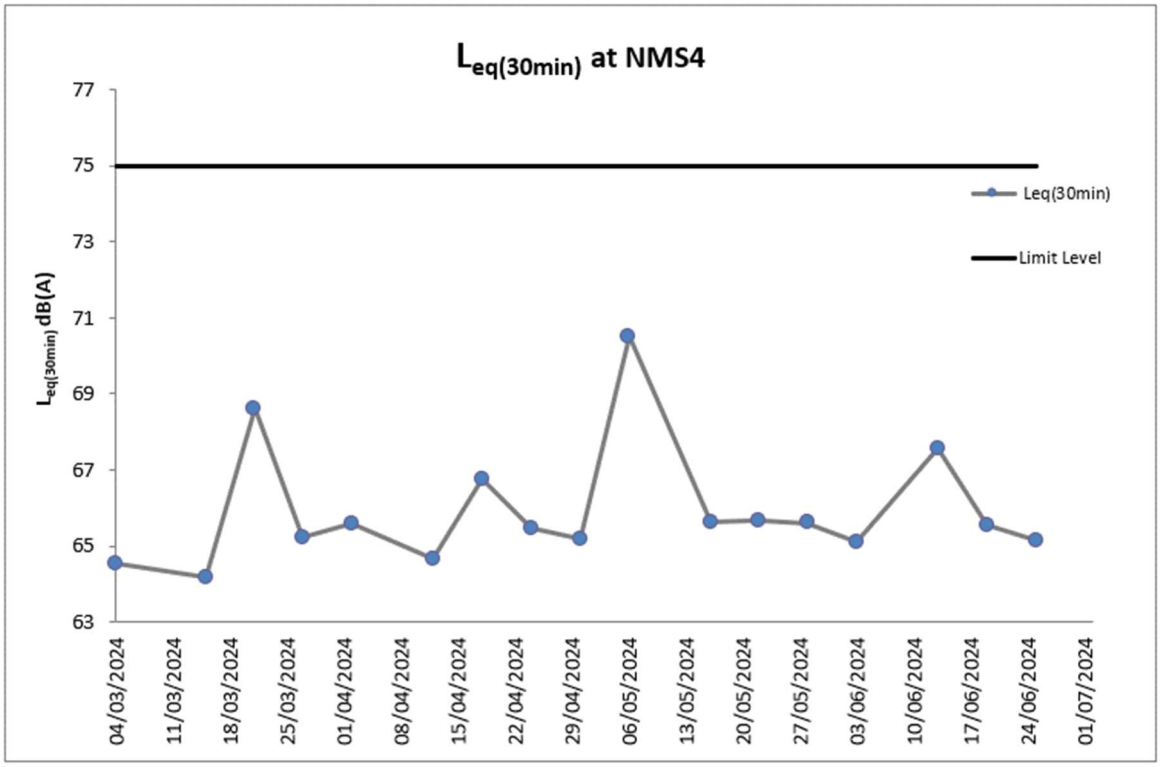
	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Data for Noise Monitoring at Station NMS4

Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
02-Apr-24	08:46	Cloudy	64.0	66.2	62.3	
02-Apr-24	08:51	Cloudy	65.7	67.5	63.4	
02-Apr-24	08:56	Cloudy	64.6	66.7	62.0	65.6
02-Apr-24	09:01	Cloudy	66.9	68.3	64.8	
02-Apr-24	09:06	Cloudy	67.1	69.0	65.7	
02-Apr-24	09:11	Cloudy	64.2	66.9	62.4	
12-Apr-24	08:51	Sunny	64.6	66.7	62.5	
12-Apr-24	08:56	Sunny	63.0	65.4	61.8	
12-Apr-24	09:01	Sunny	65.3	67.8	63.0	64.7
12-Apr-24	09:06	Sunny	64.7	66.2	62.7	
12-Apr-24	09:11	Sunny	65.1	67.0	63.6	
12-Apr-24	09:16	Sunny	64.9	66.9	62.4	
18-Apr-24	09:07	Cloudy	67.9	70.0	64.4	
18-Apr-24	09:12	Cloudy	66.2	68.4	64.4	
18-Apr-24	09:17	Cloudy	65.9	67.5	63.7	66.8
18-Apr-24	09:22	Cloudy	68.2	70.7	64.1	
18-Apr-24	09:27	Cloudy	65.2	66.2	63.8	
18-Apr-24	09:32	Cloudy	66.3	66.6	63.7	
24-Apr-24	08:46	Cloudy	65.7	67.9	63.9	
24-Apr-24	08:51	Cloudy	66.8	68.4	64.5	
24-Apr-24	08:56	Cloudy	64.3	66.6	62.7	65.5
24-Apr-24	09:01	Cloudy	64.0	66.2	62.0	
24-Apr-24	09:06	Cloudy	66.1	68.0	64.4	
24-Apr-24	09:11	Cloudy	65.2	67.3	63.2	
30-Apr-24	08:53	Cloudy	64.9	66.4	62.8	
30-Apr-24	08:58	Cloudy	65.0	67.7	63.6	
30-Apr-24	09:03	Cloudy	66.6	68.5	64.3	65.2
30-Apr-24	09:08	Cloudy	64.7	66.2	62.4	
30-Apr-24	09:13	Cloudy	65.1	67.0	63.0	
30-Apr-24	09:18	Cloudy	64.4	66.9	62.4	
06-May-24	09:05	Sunny	69.2	69.8	66.4	
06-May-24	09:10	Sunny	67.9	69.5	64.9	
06-May-24	09:15	Sunny	70.2	72.1	66.5	70.5
06-May-24	09:20	Sunny	71.4	73.7	67.2	
06-May-24	09:25	Sunny	72.0	73.6	68.9	
06-May-24	09:30	Sunny	71.1	72.9	68.3	
16-May-24	08:48	Sunny	64.0	66.5	62.9	
16-May-24	08:53	Sunny	65.6	67.6	63.4	
16-May-24	08:58	Sunny	65.3	67.2	63.7	65.6
16-May-24	09:03	Sunny	66.9	68.8	64.1	
16-May-24	09:08	Sunny	66.1	68.0	64.1	
16-May-24	09:13	Sunny	65.4	67.5	63.2	
22-May-24	08:50	Cloudy	64.0	66.6	62.5	
22-May-24	08:55	Cloudy	65.7	67.4	63.8	
22-May-24	09:00	Cloudy	66.3	68.9	64.0	65.7
22-May-24	09:05	Cloudy	66.9	68.2	64.7	
22-May-24	09:10	Cloudy	65.1	67.0	63.0	
22-May-24	09:15	Cloudy	65.4	67.5	63.4	
28-May-24	08:52	Cloudy	64.0	66.6	62.5	
28-May-24	08:57	Cloudy	66.7	68.4	64.8	
28-May-24	09:02	Cloudy	65.3	67.9	63.0	65.6
28-May-24	09:07	Cloudy	65.8	67.2	63.7	
28-May-24	09:12	Cloudy	64.1	66.0	62.6	
28-May-24	09:17	Cloudy	66.9	68.4	64.4	

Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
03-Jun-24	08:50	Cloudy	64.7	66.6	62.8	65.1
03-Jun-24	08:55	Cloudy	63.5	65.9	61.4	
03-Jun-24	09:00	Cloudy	65.5	67.2	63.3	
03-Jun-24	09:05	Cloudy	64.1	66.0	62.0	
03-Jun-24	09:10	Cloudy	66.9	68.7	64.6	
03-Jun-24	09:15	Cloudy	65.0	67.6	63.4	
13-Jun-24	09:03	Cloudy	70.6	72.8	66.6	67.5
13-Jun-24	09:08	Cloudy	68.2	70.1	65.9	
13-Jun-24	09:13	Cloudy	67.6	69.2	65.7	
13-Jun-24	09:18	Cloudy	65.7	67.5	64.0	
13-Jun-24	09:23	Cloudy	64.8	65.5	64.0	
13-Jun-24	09:28	Cloudy	65.5	66.2	64.3	
19-Jun-24	08:53	Cloudy	65.4	67.9	63.5	65.6
19-Jun-24	08:58	Cloudy	66.7	68.6	64.8	
19-Jun-24	09:03	Cloudy	64.9	66.1	62.9	
19-Jun-24	09:08	Cloudy	65.2	67.8	63.3	
19-Jun-24	09:13	Cloudy	66.6	68.0	64.7	
19-Jun-24	09:18	Cloudy	64.0	66.2	62.0	
25-Jun-24	08:50	Cloudy	64.6	66.0	62.8	65.1
25-Jun-24	08:55	Cloudy	65.1	67.7	63.2	
25-Jun-24	09:00	Cloudy	66.3	68.4	64.5	
25-Jun-24	09:05	Cloudy	64.9	66.6	62.7	
25-Jun-24	09:10	Cloudy	64.7	66.4	62.6	
25-Jun-24	09:15	Cloudy	65.0	67.9	63.0	

Graphical Presentation for Noise Monitoring at NMS4



Kai Tak Sports Park

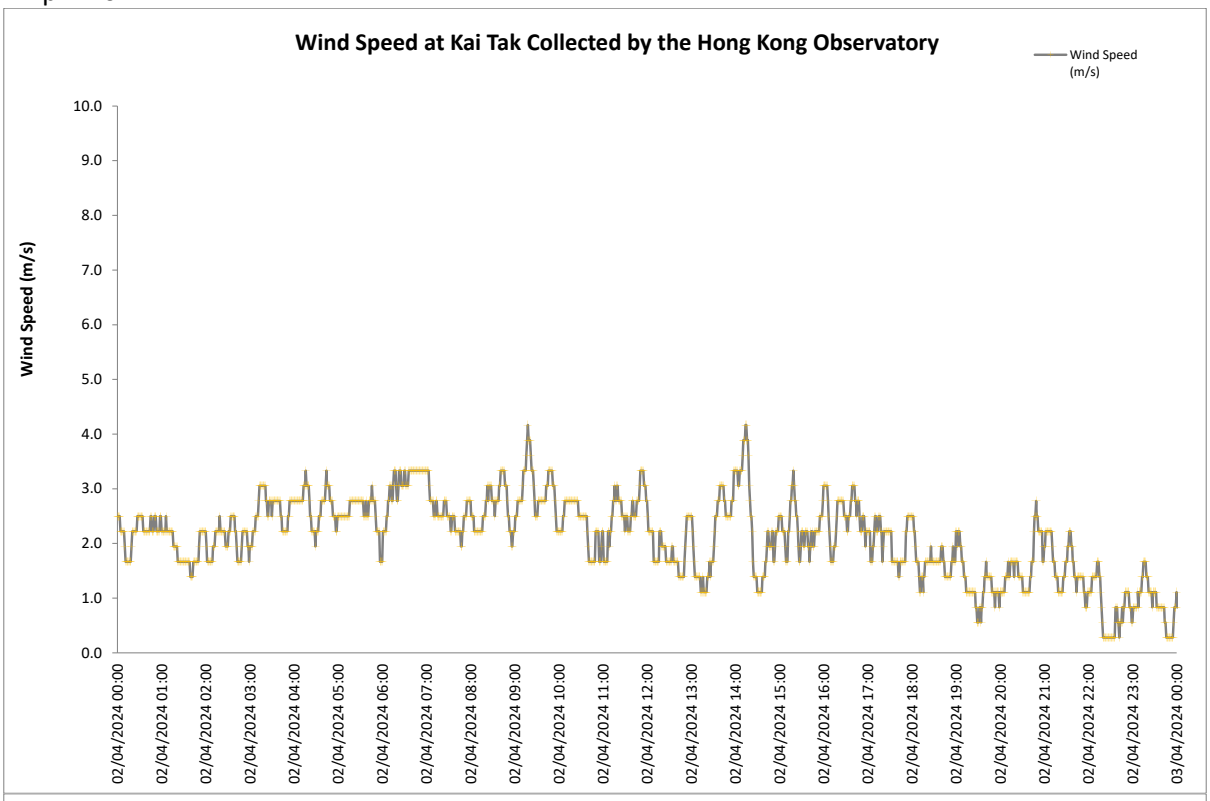
	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plants Mobilization												
Loading/ Unloading of Materials												
Excavation												
C&D Waste Disposal												
Concreting												
Lifting												
C&D Materials Internal Transportation												
Landscape Work												
Turf Laying (PSG)												

Hotel and Office Development

	2024											
Construction Activities	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Loading/Unloading of Materials												
Concreting												
Landscape Work												
C&D Waste Disposal												

Appendix F. Wind Data

2 April 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
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0.0
02/04/2024 00:00
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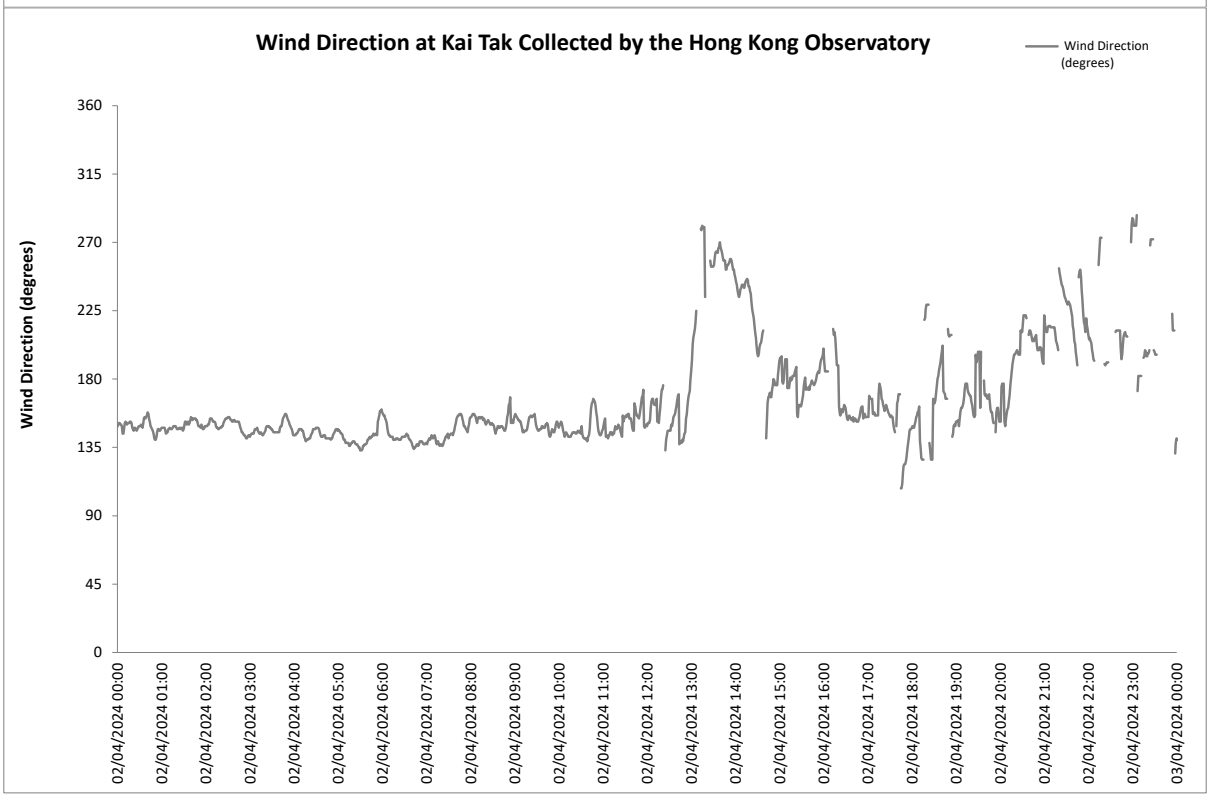
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
270
225
180
135
90
45
0
02/04/2024 00:00
02/04/2024 01:00
02/04/2024 02:00
02/04/2024 03:00
02/04/2024 04:00
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02/04/2024 06:00
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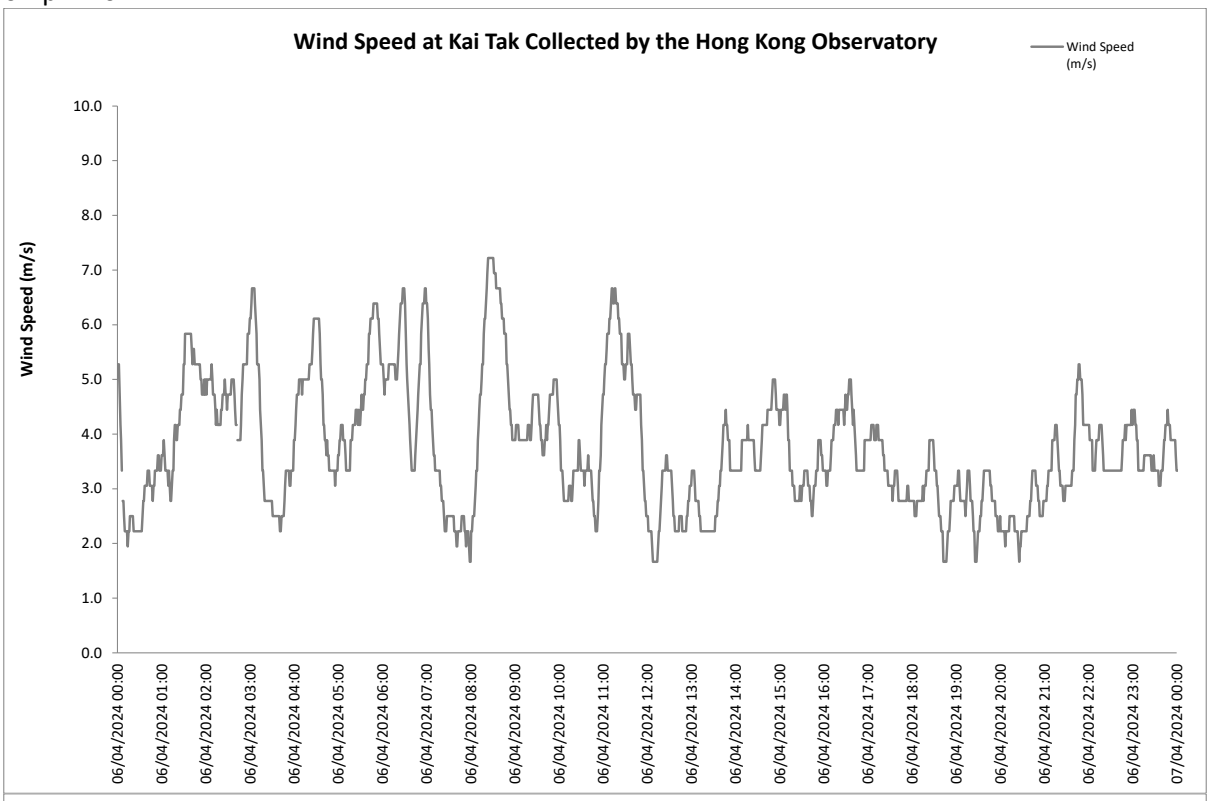
6 April 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
06/04/2024 00:00
06/04/2024 01:00
06/04/2024 02:00
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06/04/2024 04:00
06/04/2024 05:00
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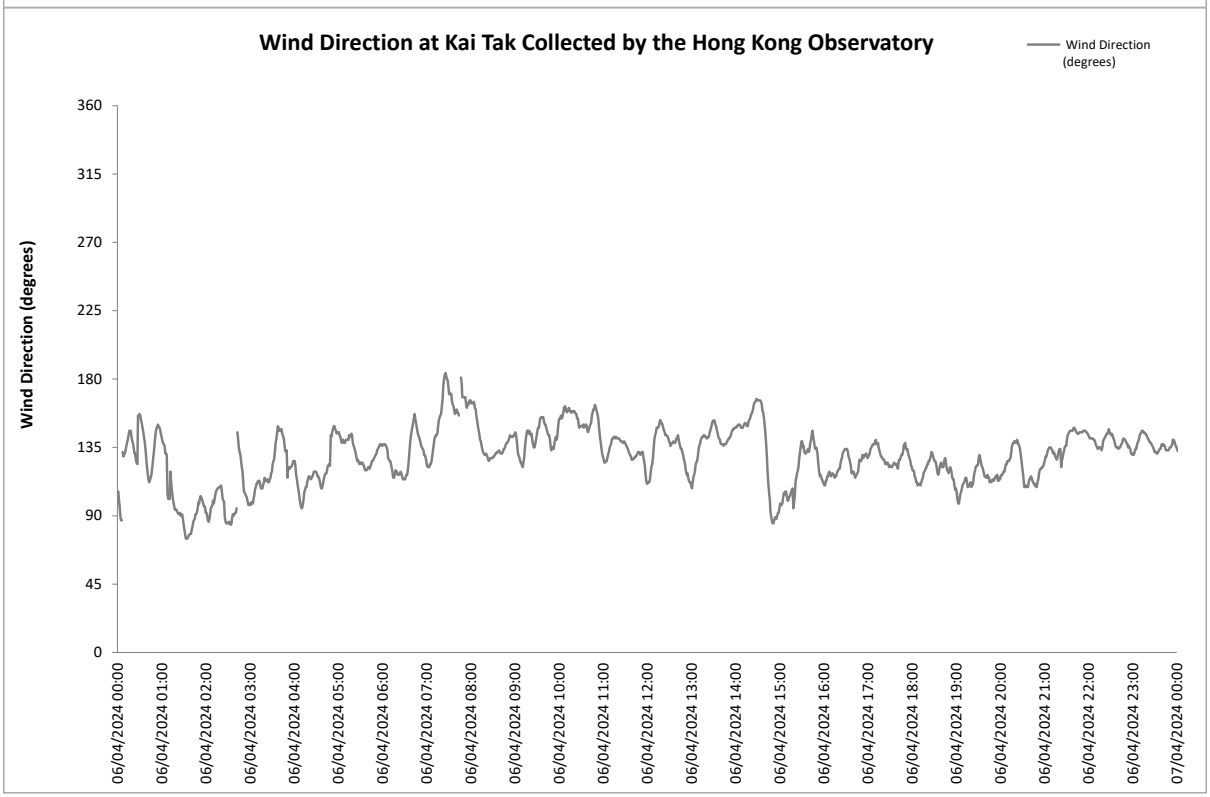
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
270
225
180
135
90
45
0
06/04/2024 00:00
06/04/2024 01:00
06/04/2024 02:00
06/04/2024 03:00
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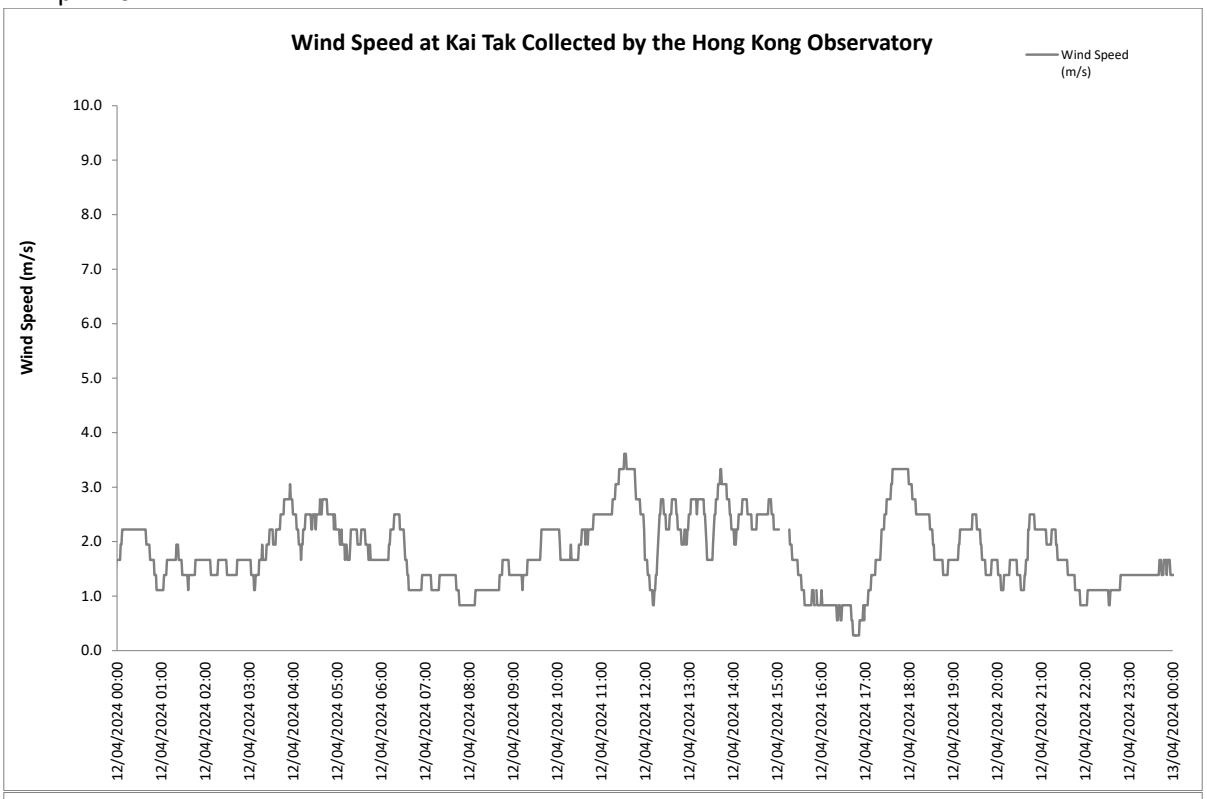
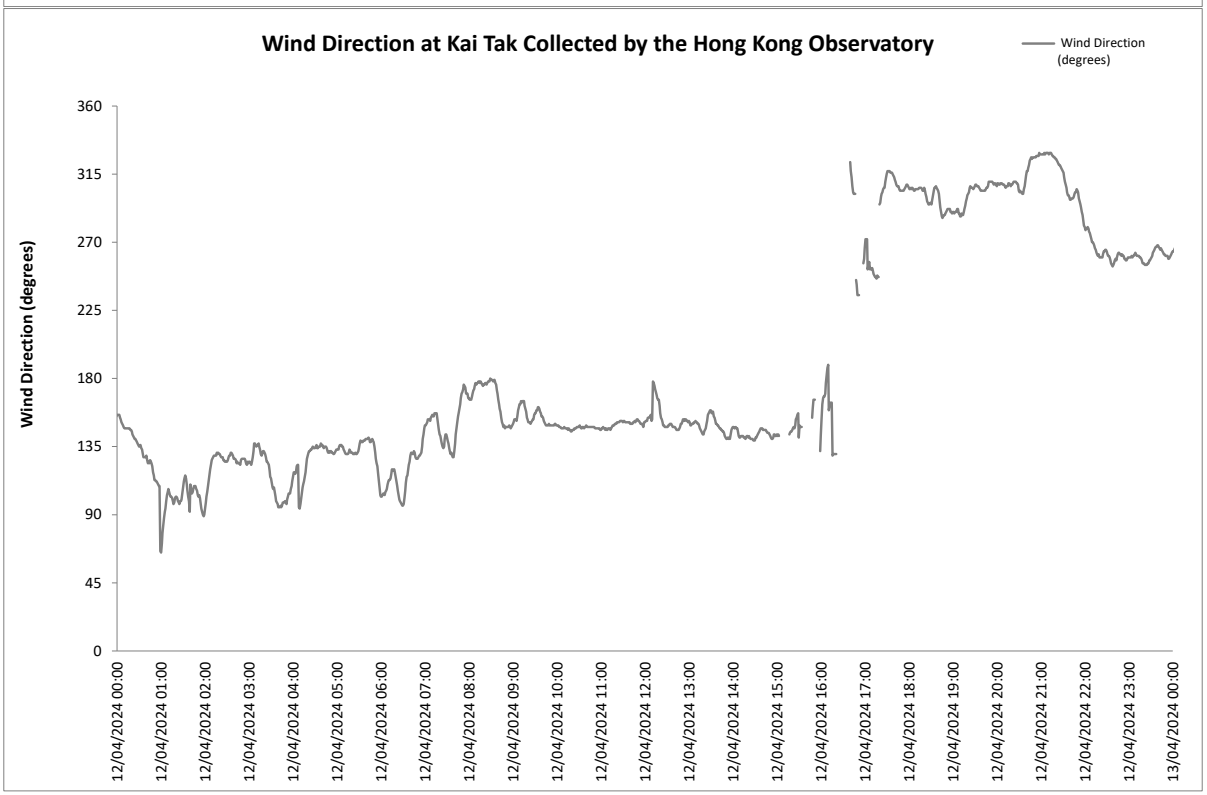
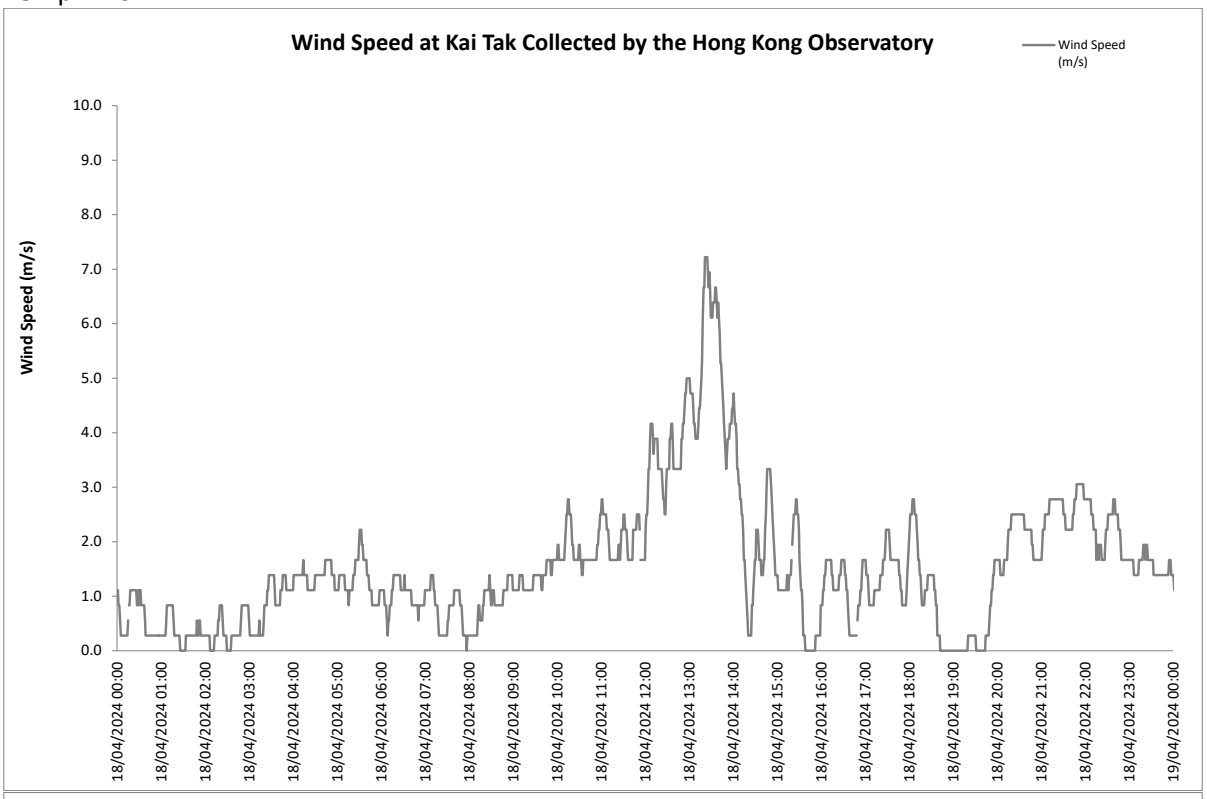
07/04/2024 00:00

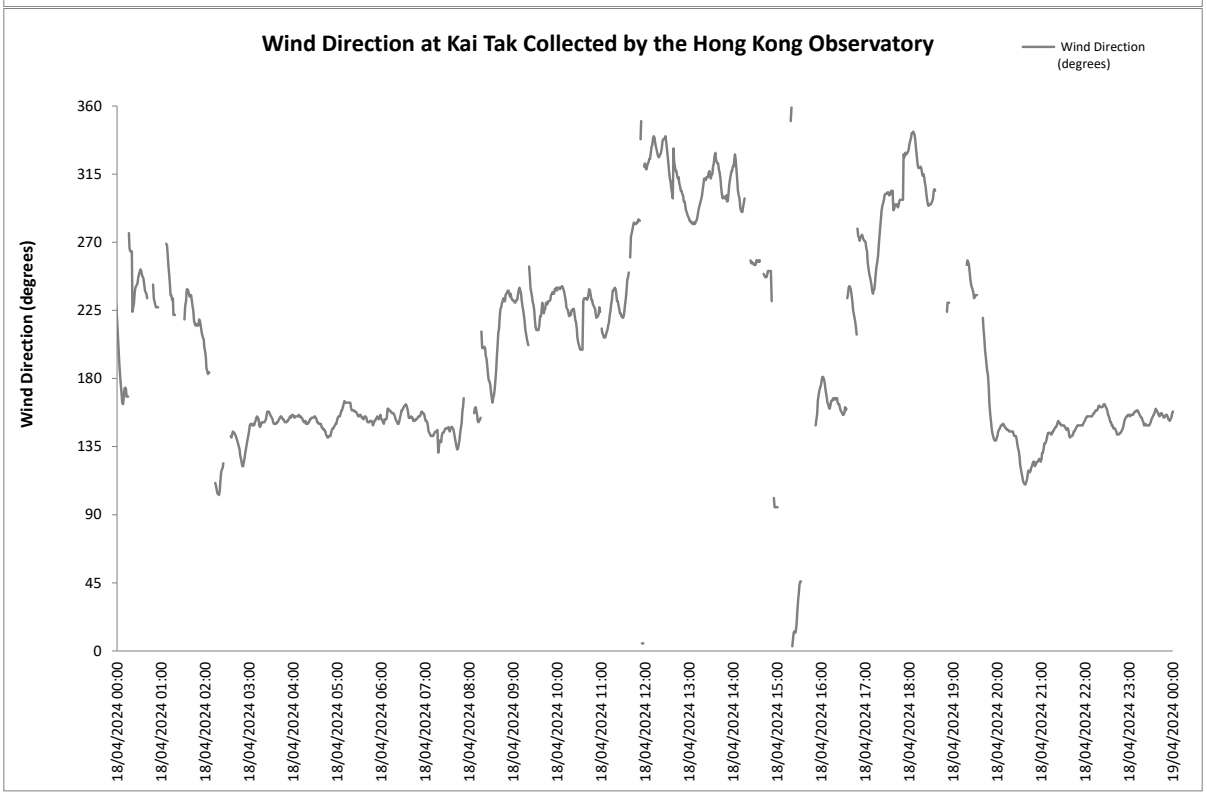
12 April 2024



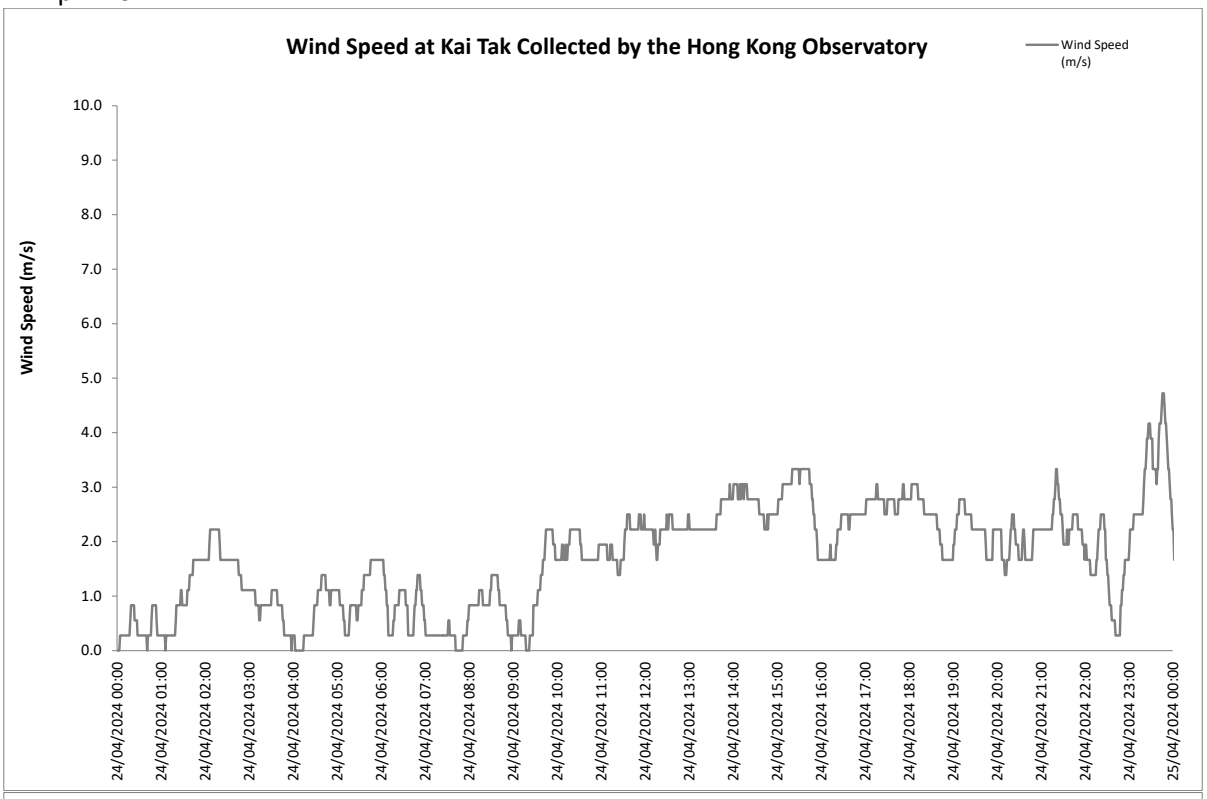


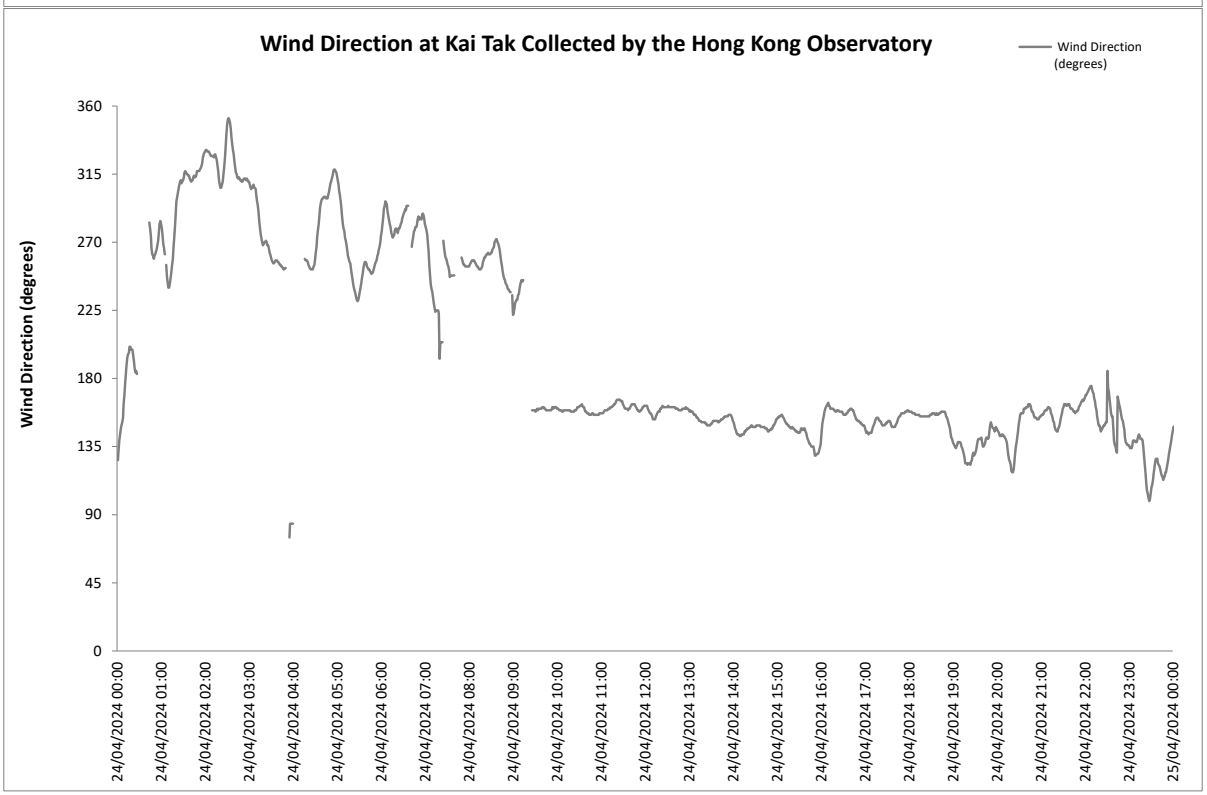
18 April 2024



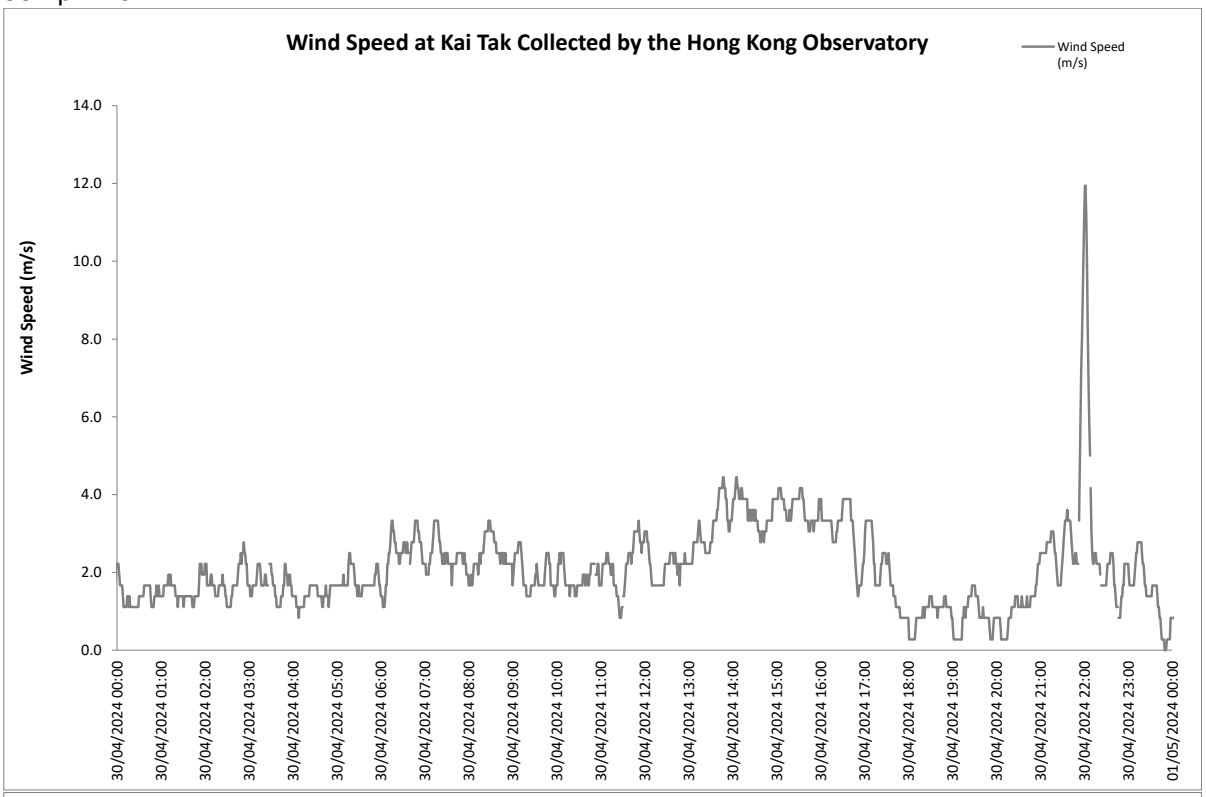


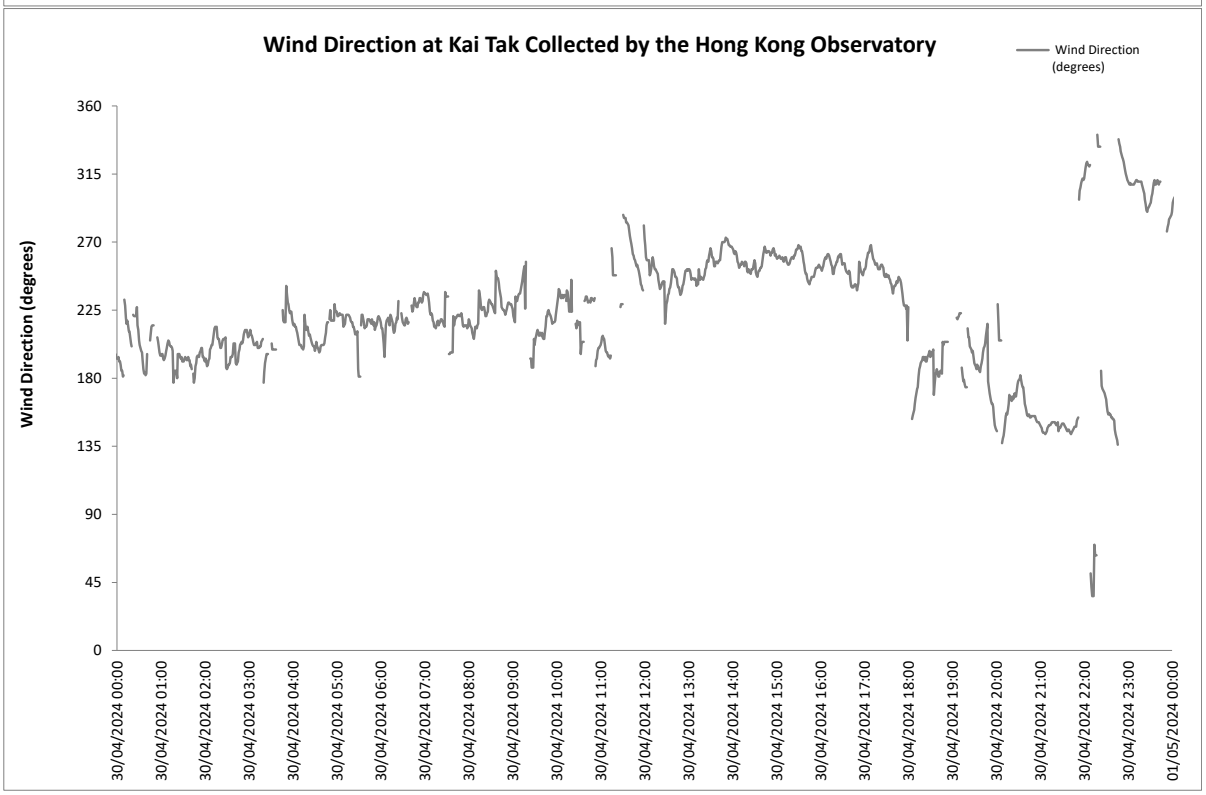
24 April 2024



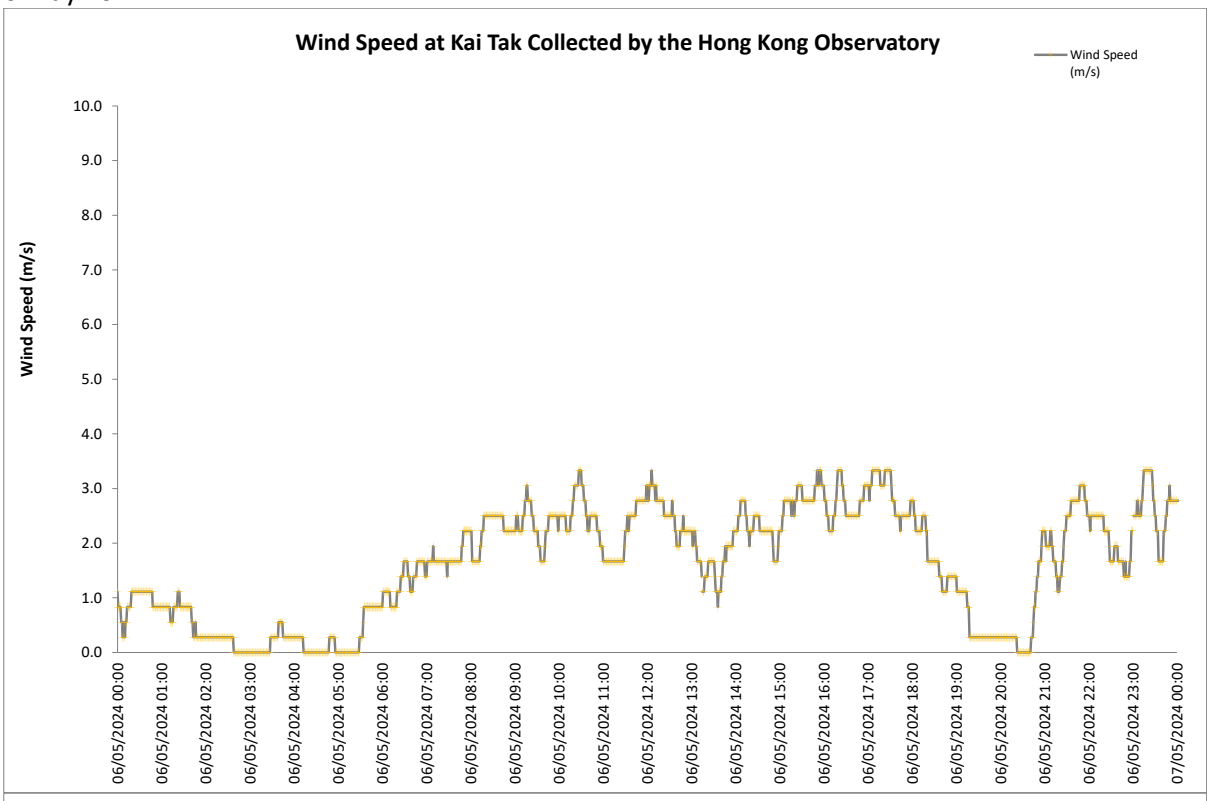


30 April 2024





6 May 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
06/05/2024 00:00
06/05/2024 01:00
06/05/2024 02:00
06/05/2024 03:00
06/05/2024 04:00
06/05/2024 05:00
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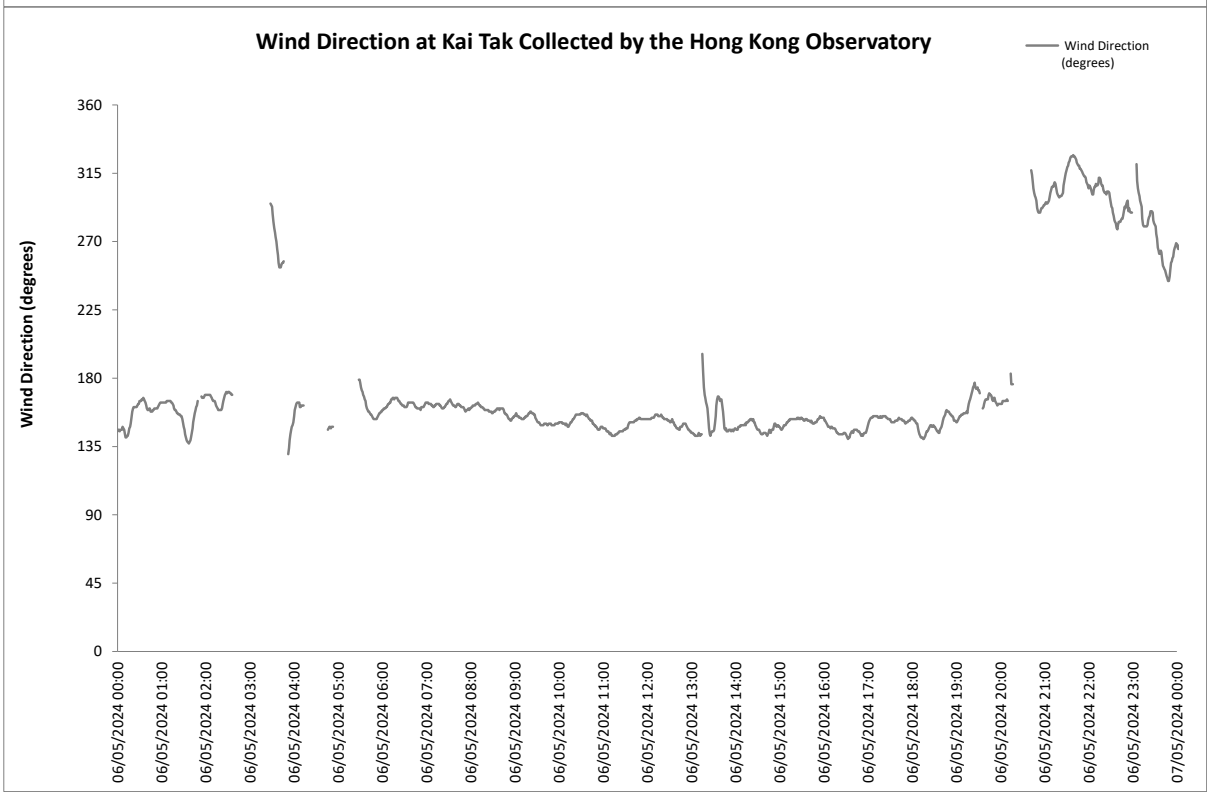
07/05/2024 00:00


Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
270
225
180
135
90
45
0
06/05/2024 00:00
06/05/2024 01:00
06/05/2024 02:00
06/05/2024 03:00
06/05/2024 04:00
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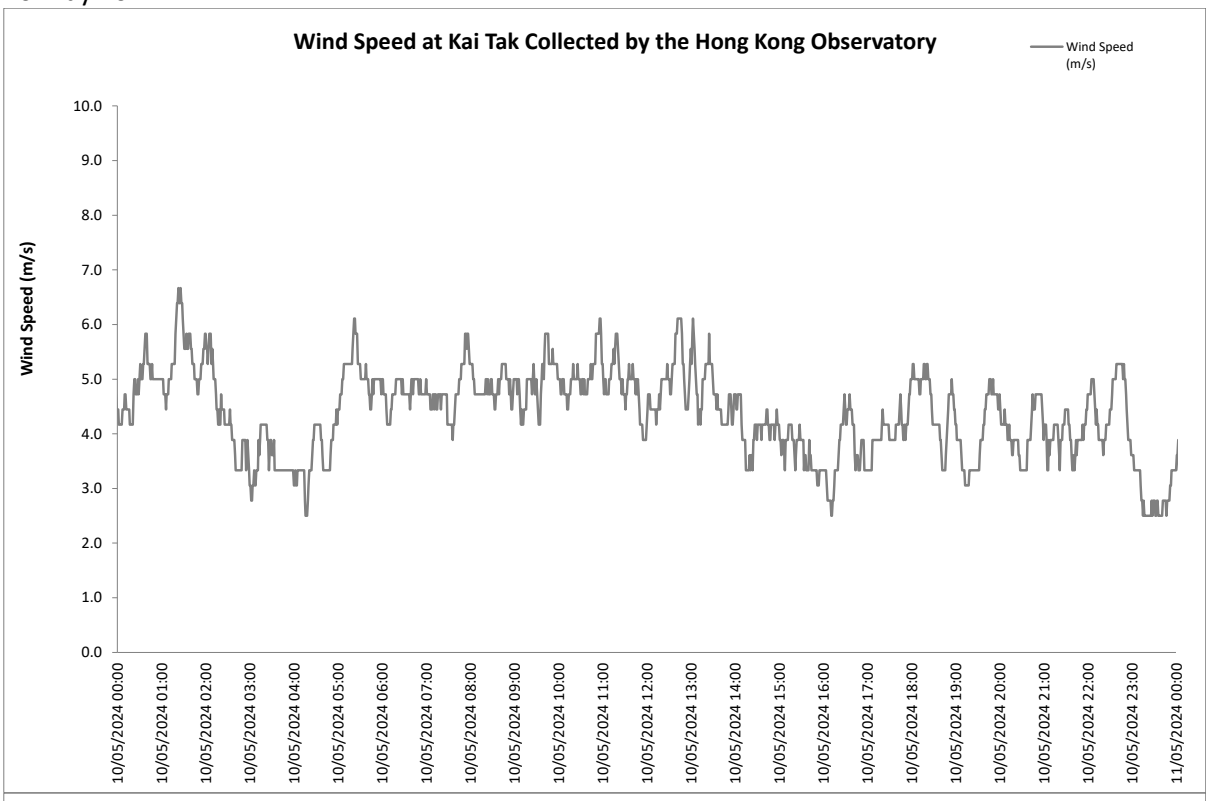
07/05/2024 00:00

10 May 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
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2.0
1.0
0.0
10/05/2024 00:00
10/05/2024 01:00
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10/05/2024 03:00
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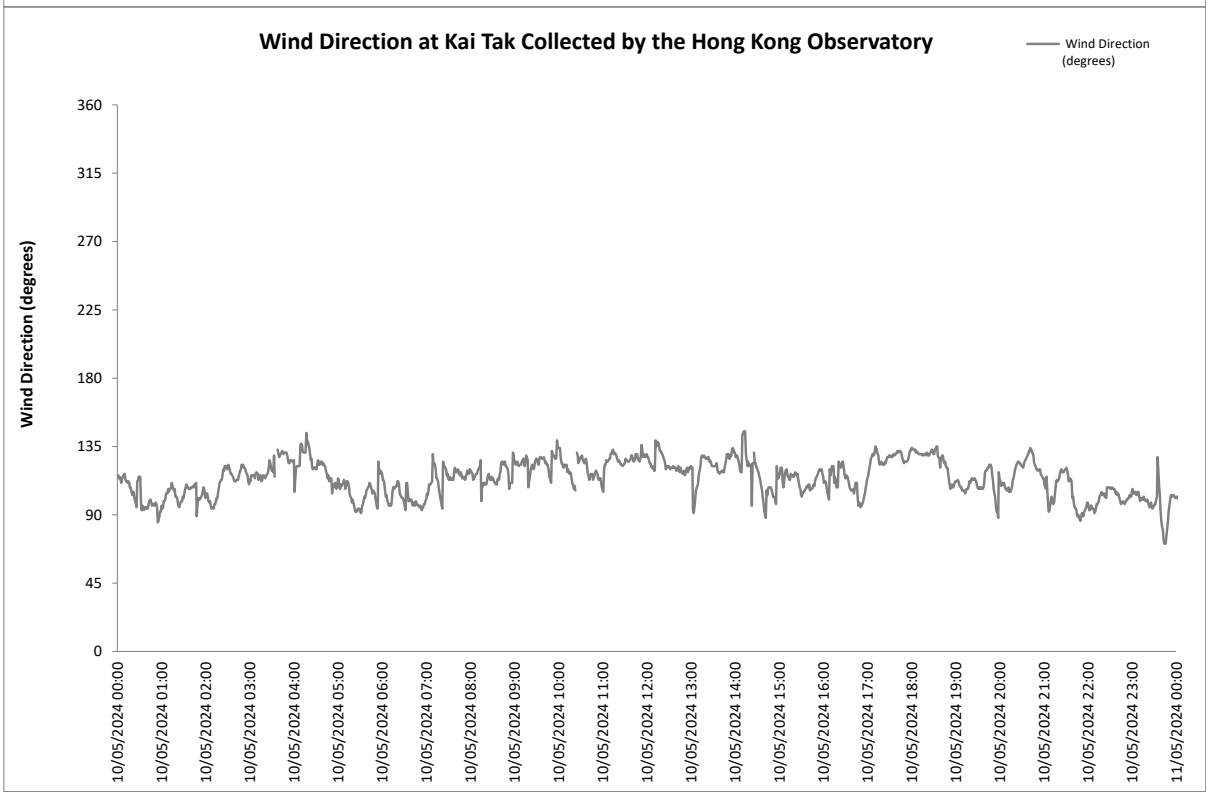
11/05/2024 00:00


Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
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225
180
135
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45
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10/05/2024 00:00
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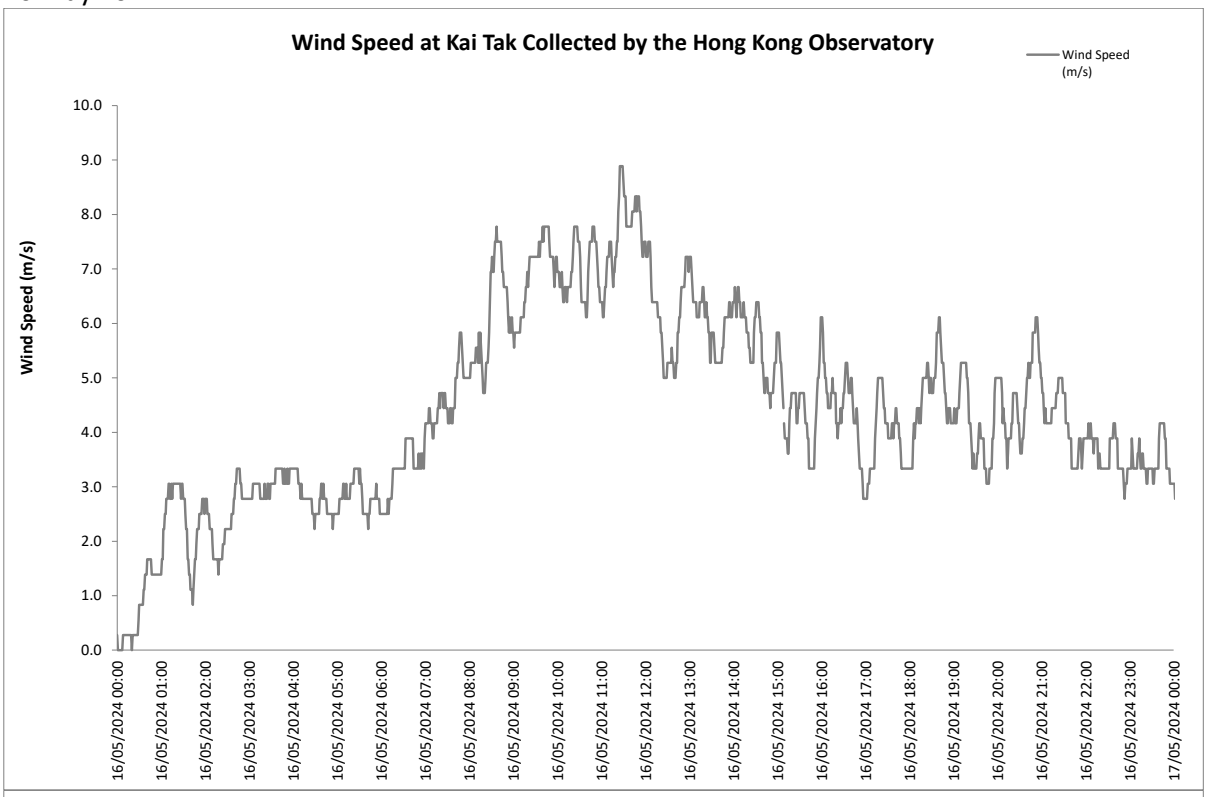
11/05/2024 00:00

16 May 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
16/05/2024 00:00
16/05/2024 01:00
16/05/2024 02:00
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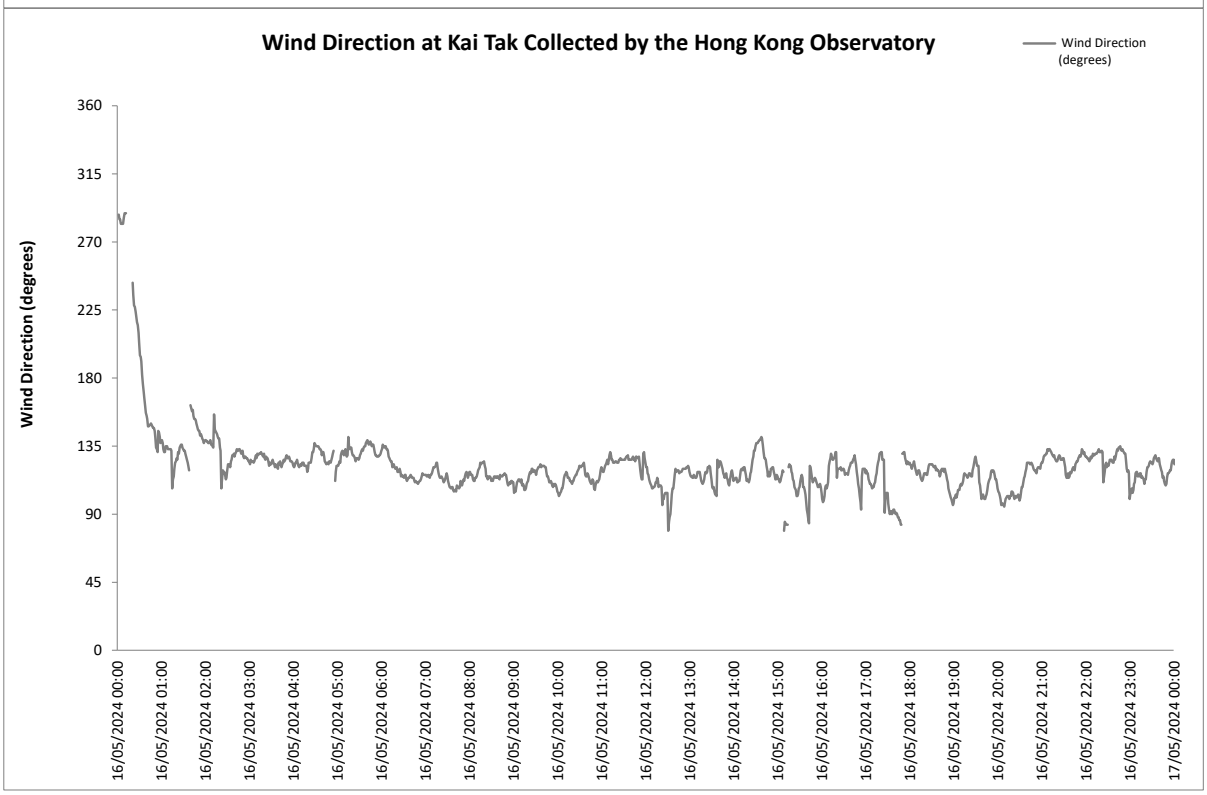
17/05/2024 00:00


Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
270
225
180
135
90
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16/05/2024 00:00
16/05/2024 01:00
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16/05/2024 18:00
16/05/2024 19:00
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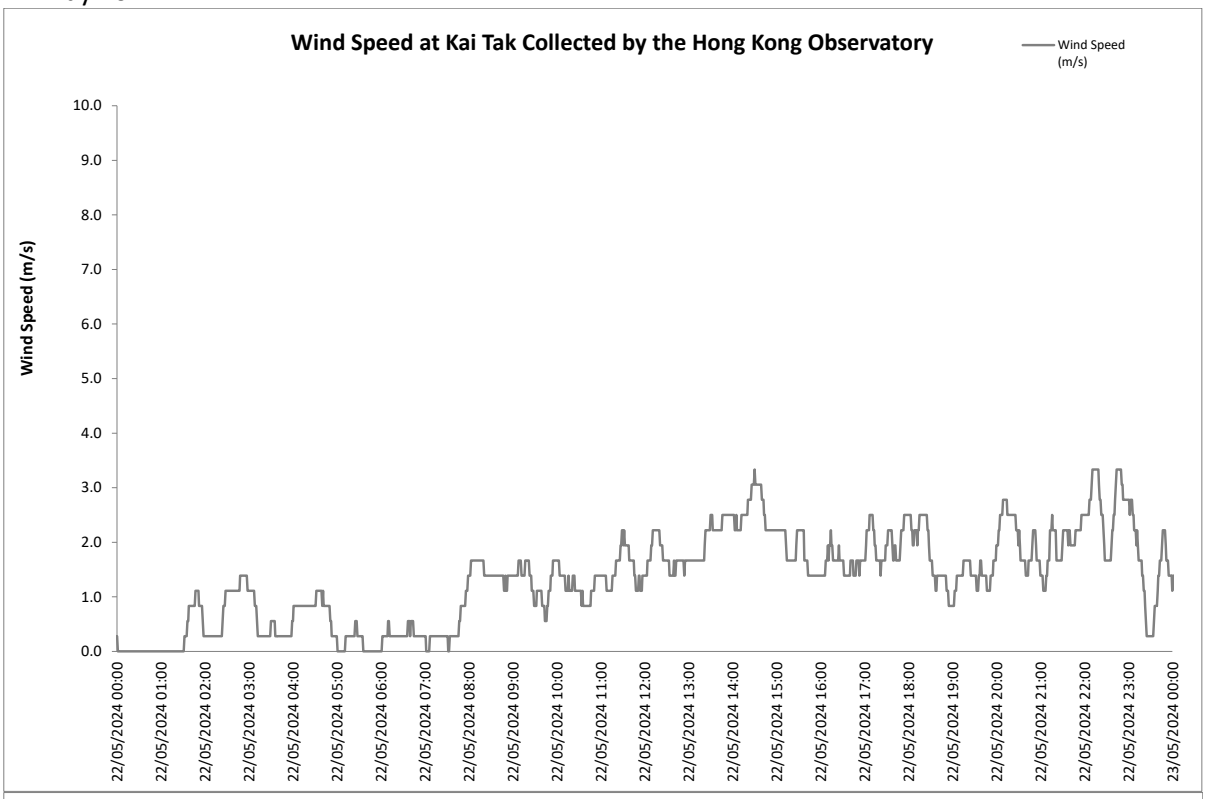
17/05/2024 00:00

22 May 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
22/05/2024 00:00
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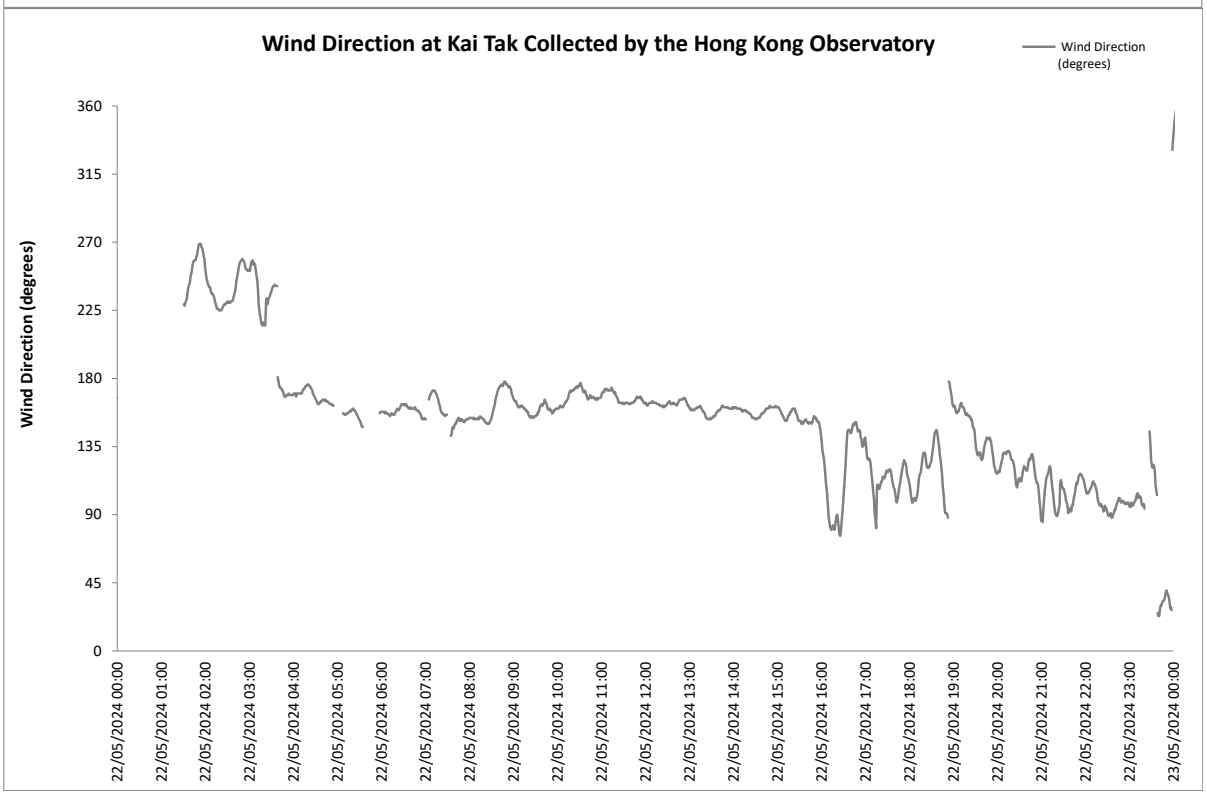
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
315
270
225
180
135
90
45
0
22/05/2024 00:00
22/05/2024 01:00
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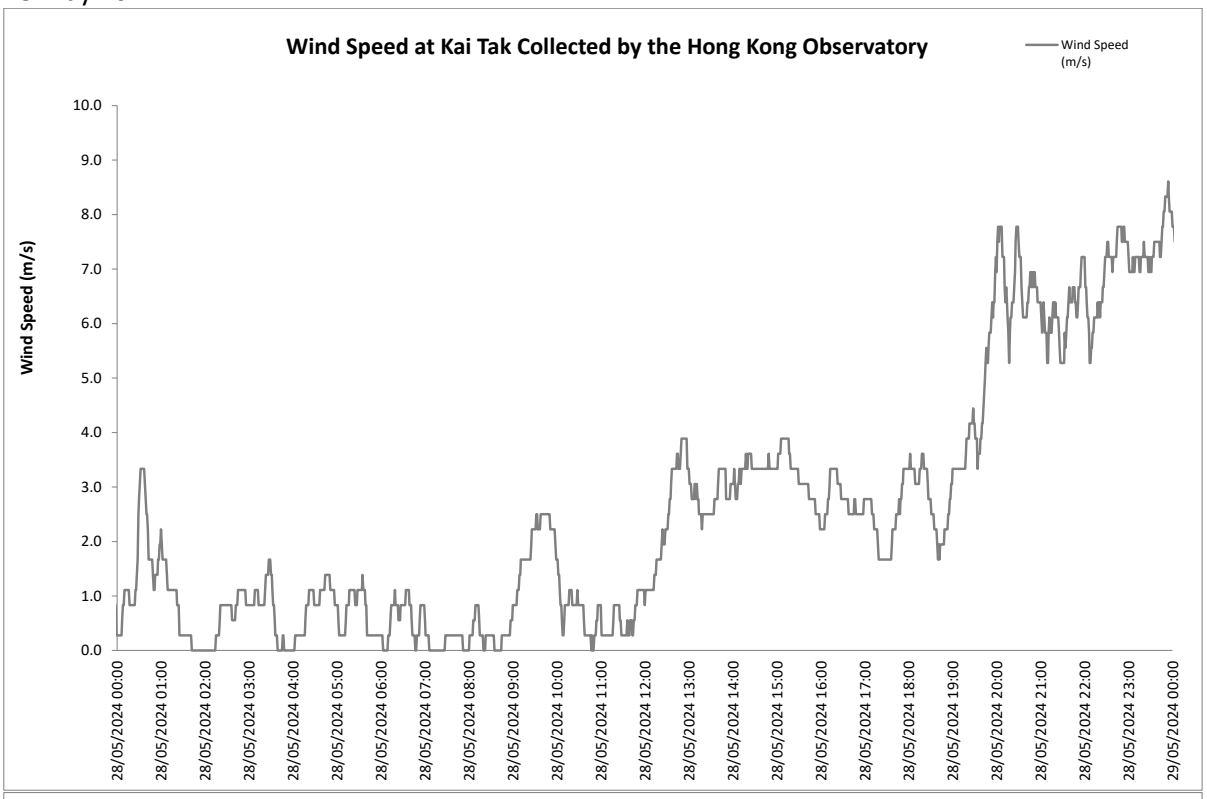
28 May 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
28/05/2024 00:00
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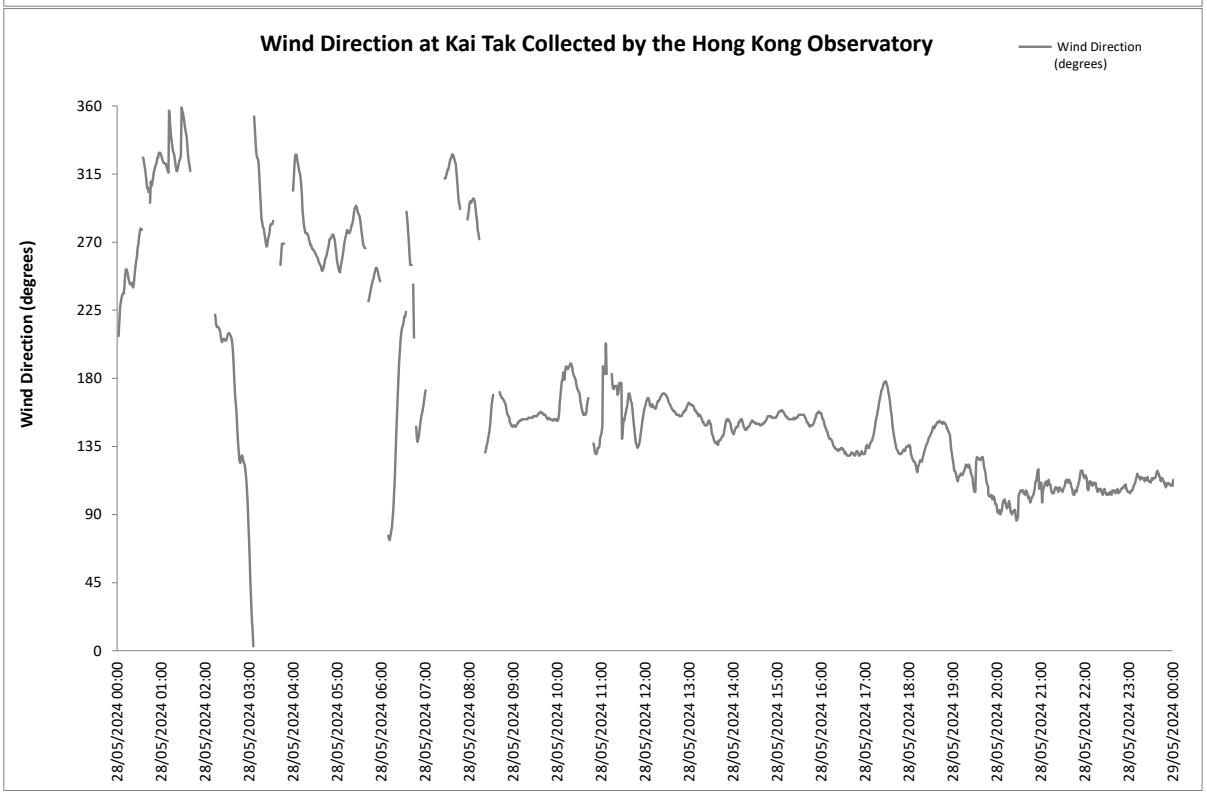
29/05/2024 00:00


Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
360
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28/05/2024 00:00
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28/05/2024 02:00
28/05/2024 03:00
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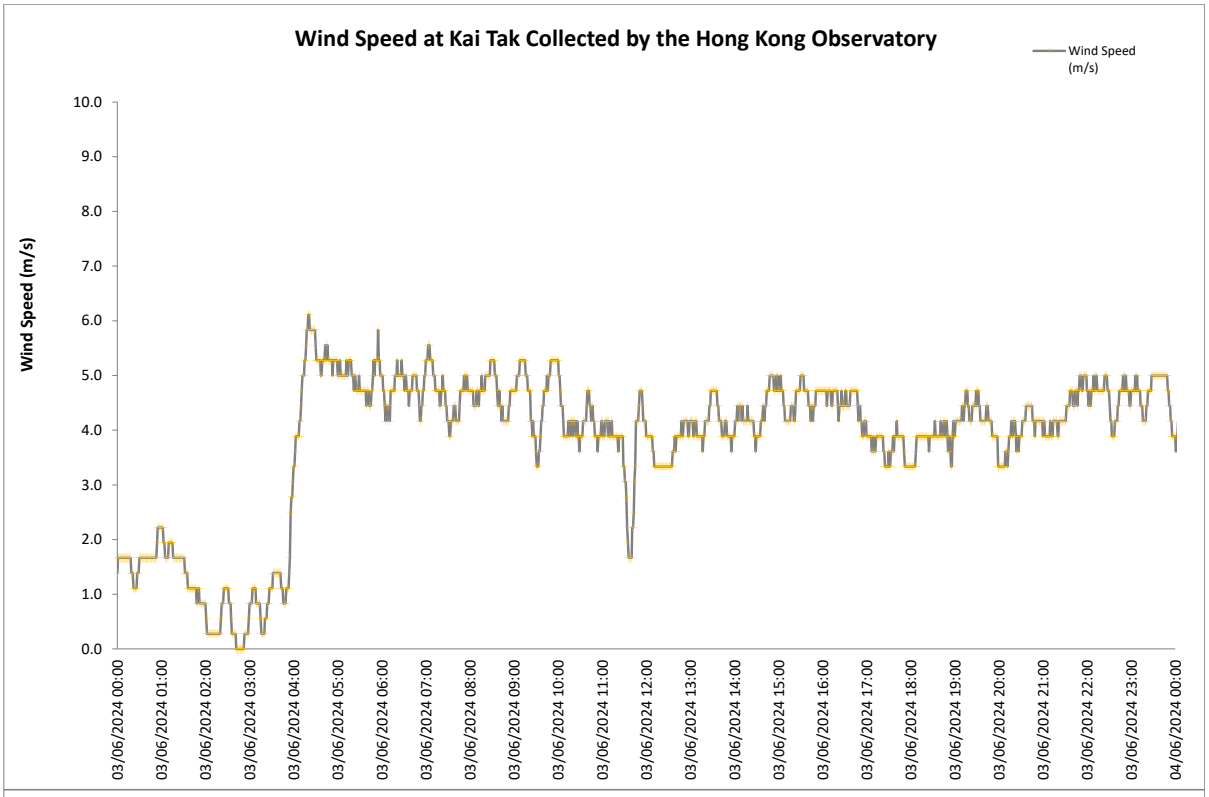
3 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
03/06/2024 00:00
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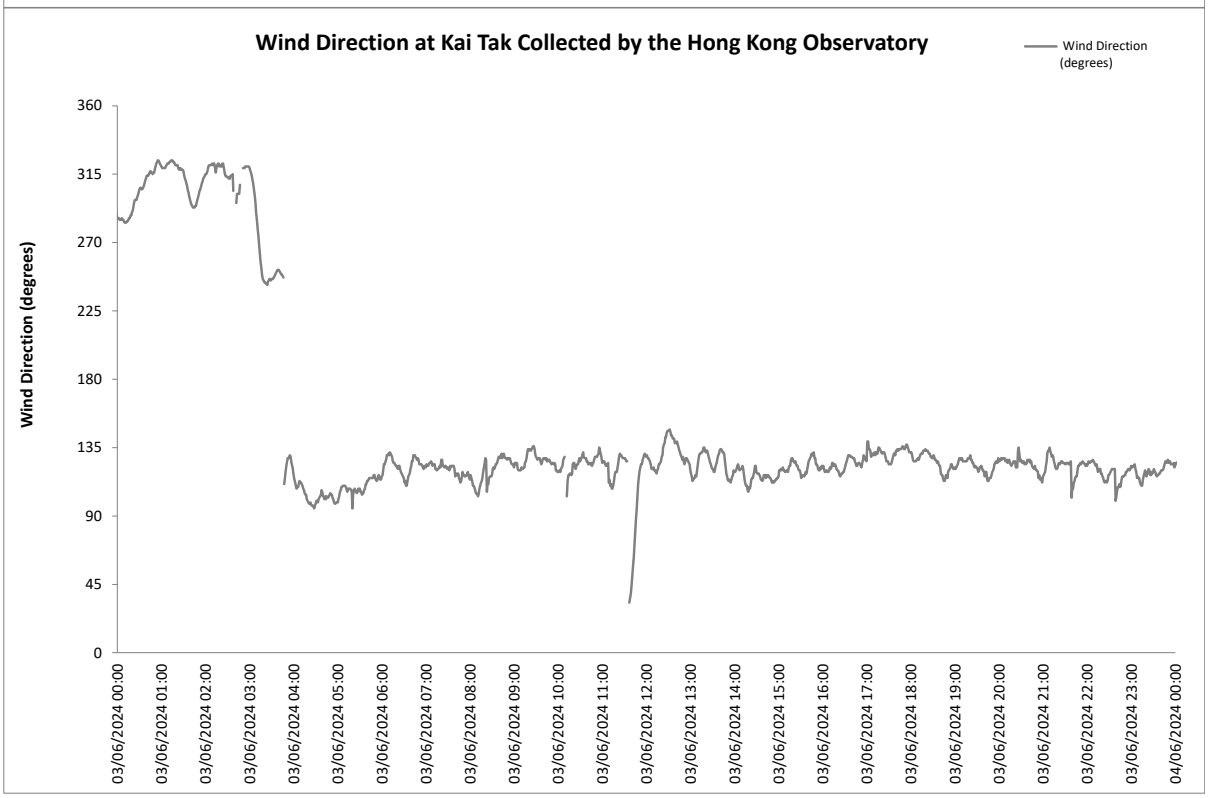
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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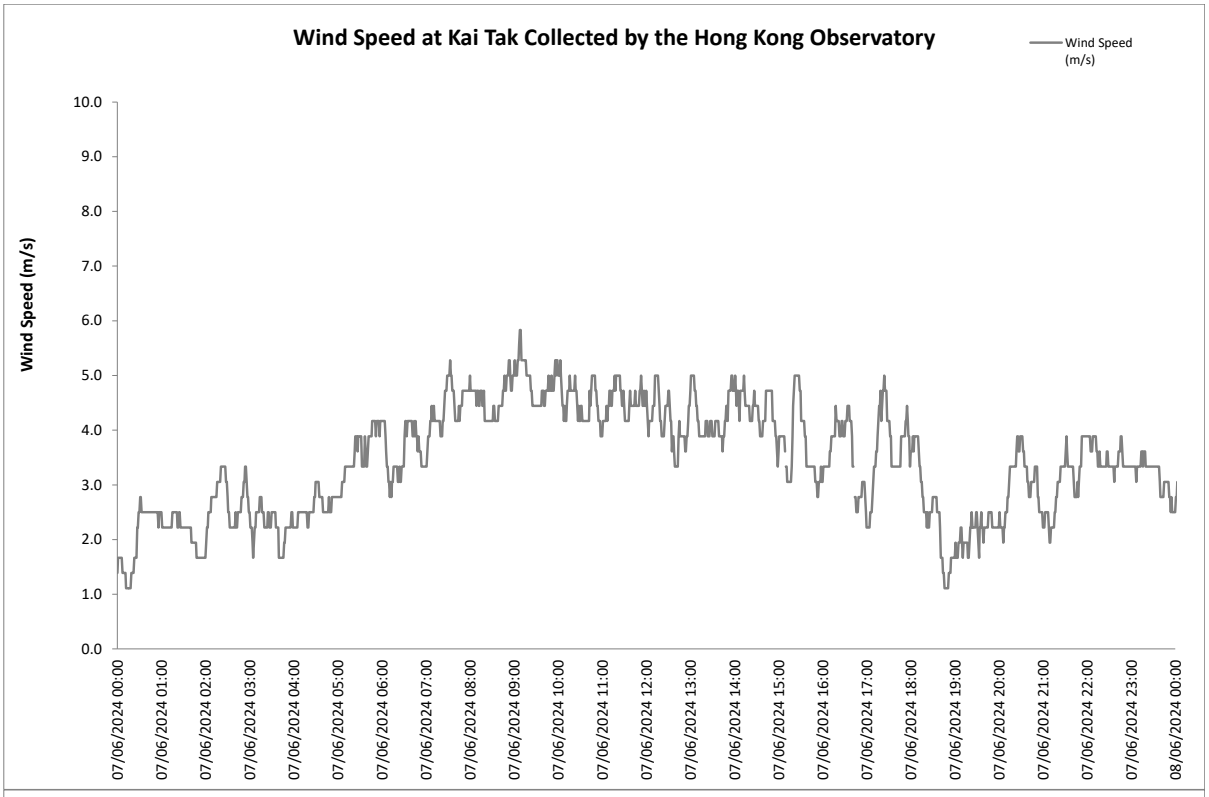
7 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
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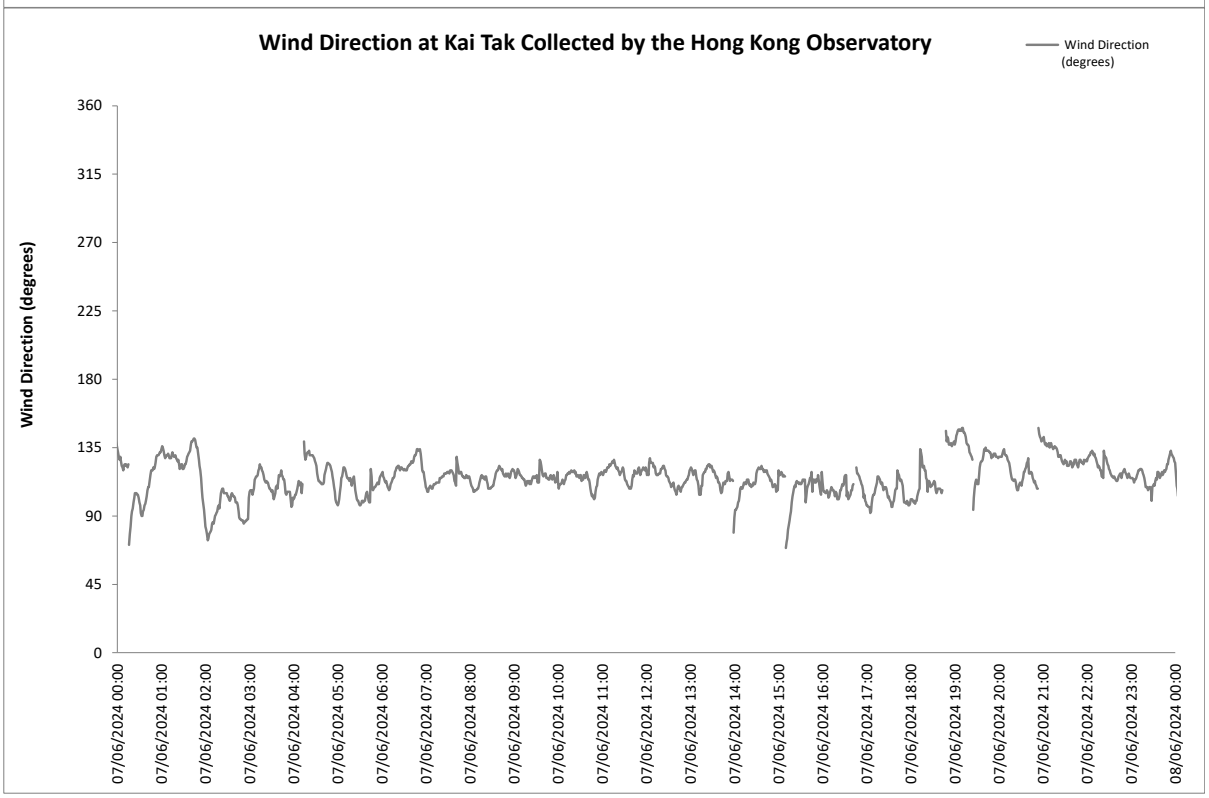
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
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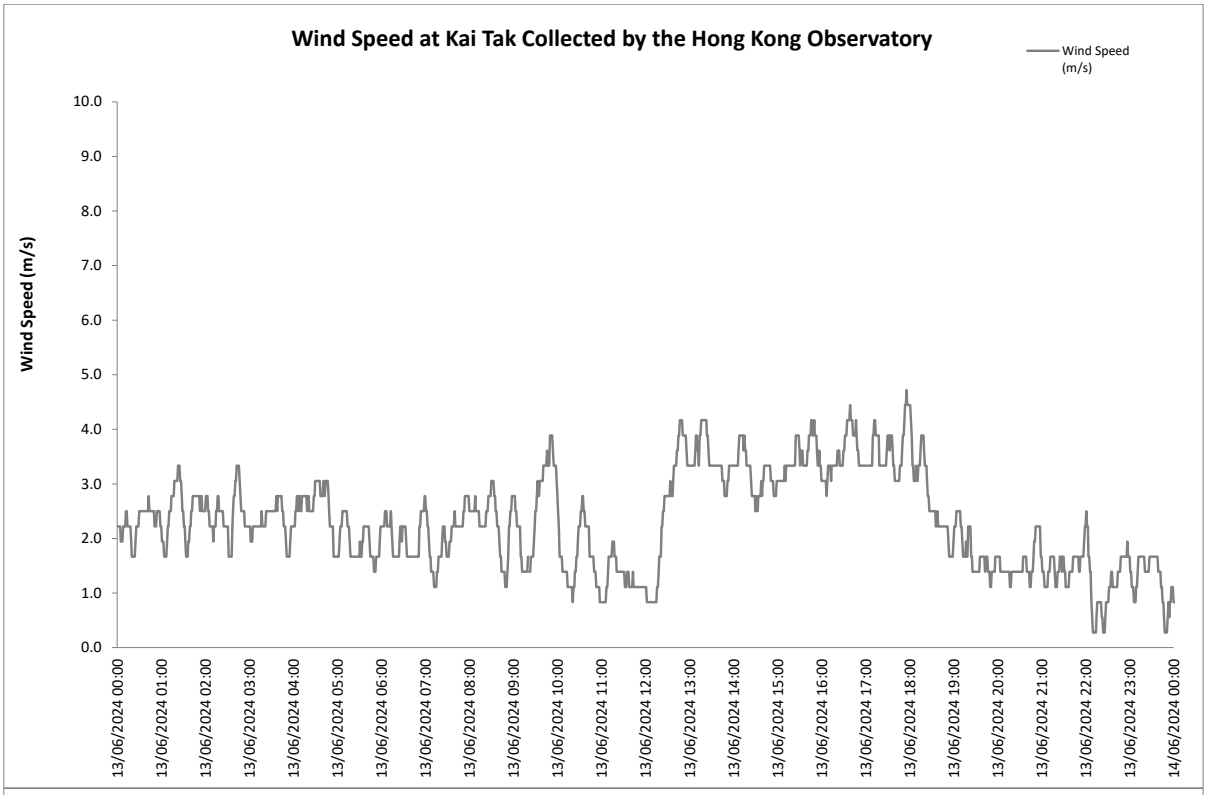
13 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
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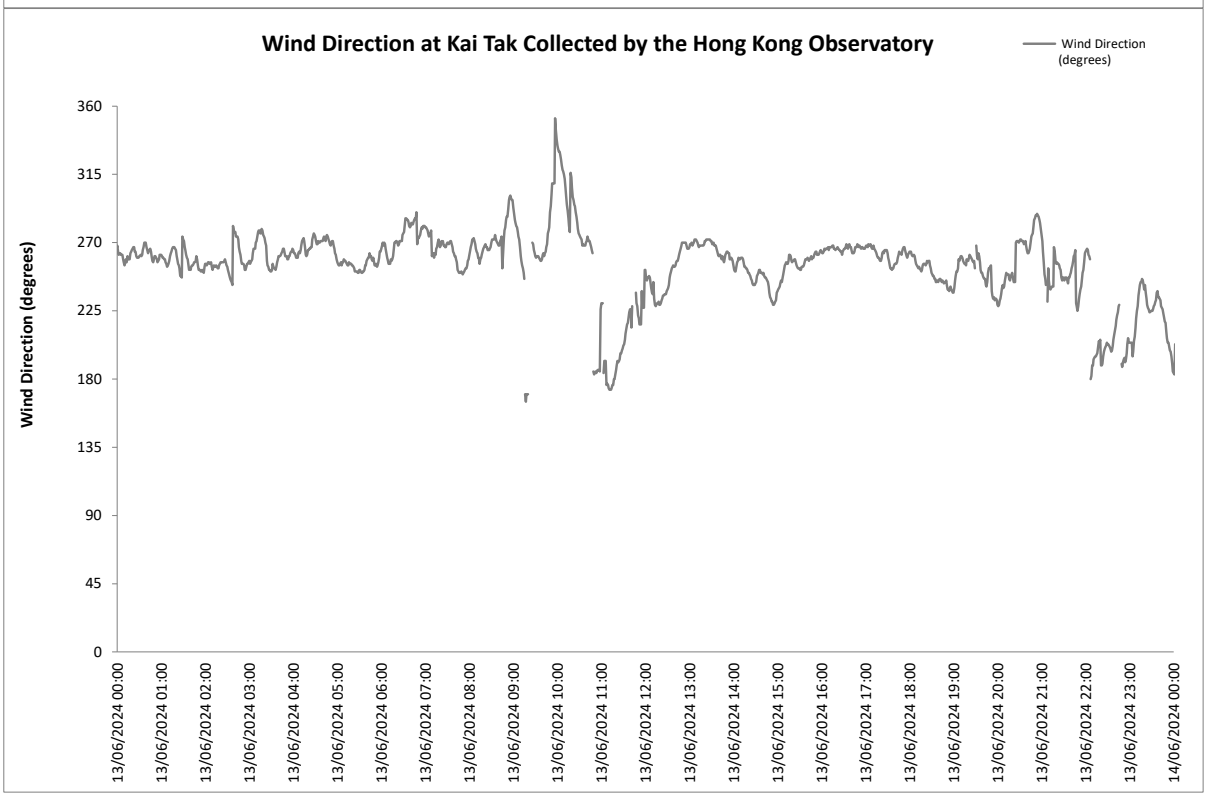
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
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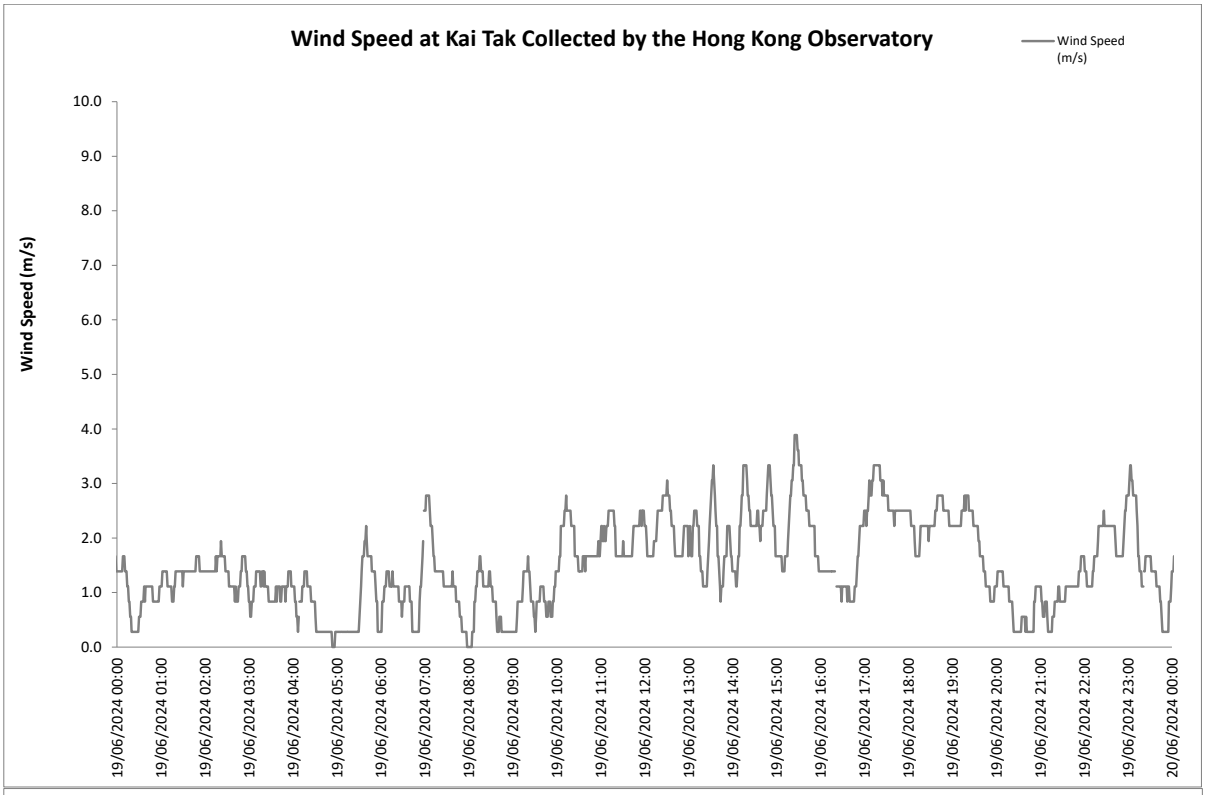
19 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
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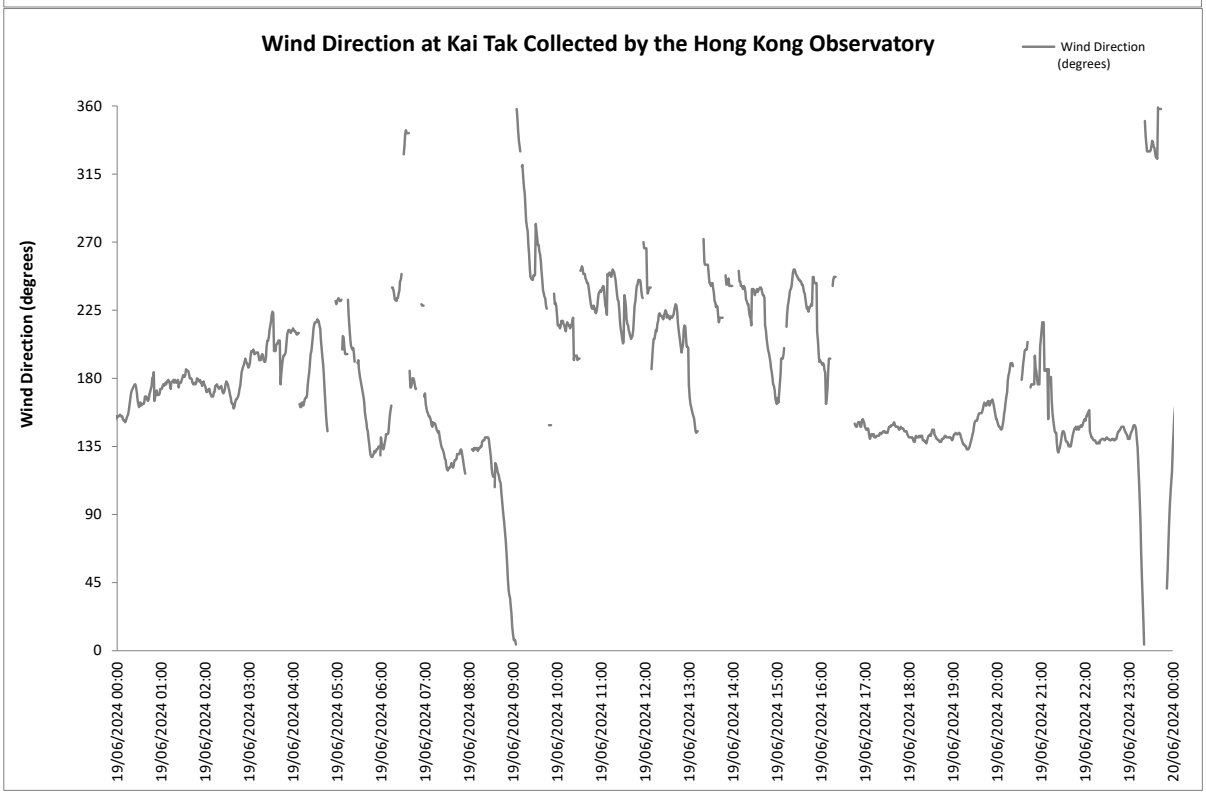
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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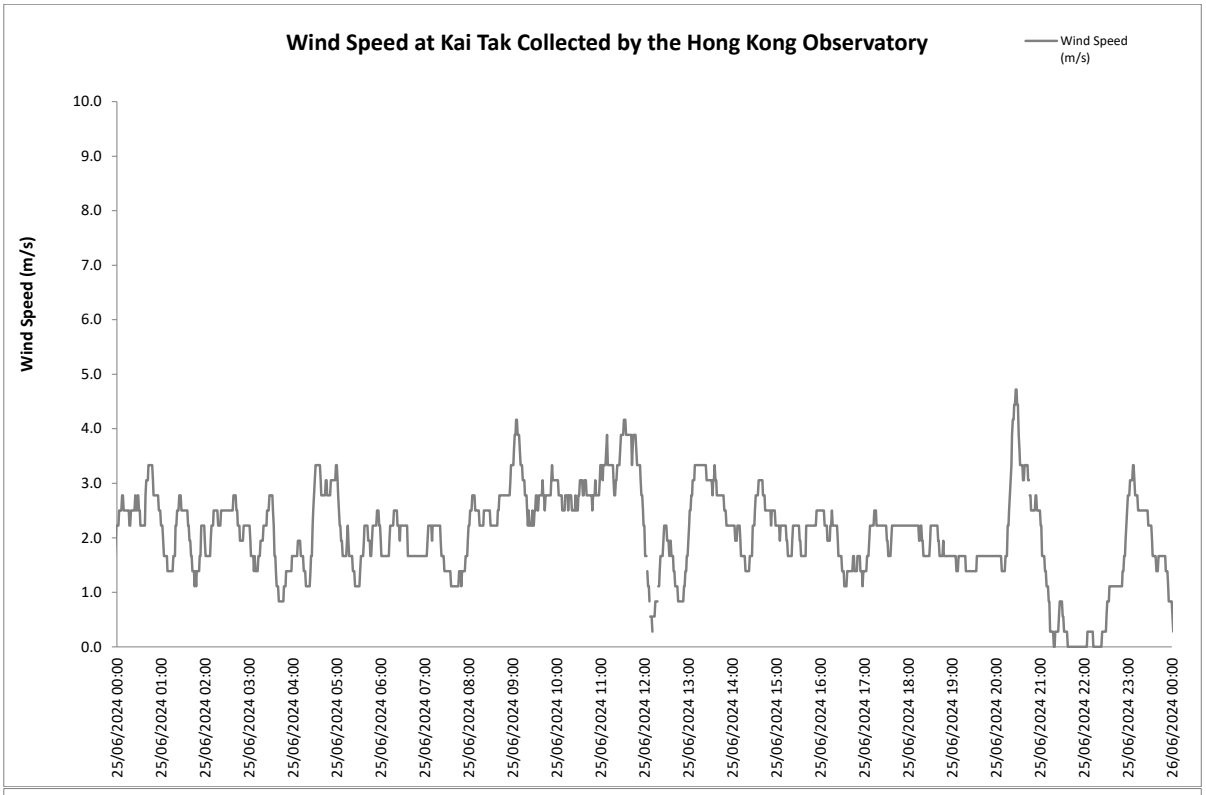
25 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
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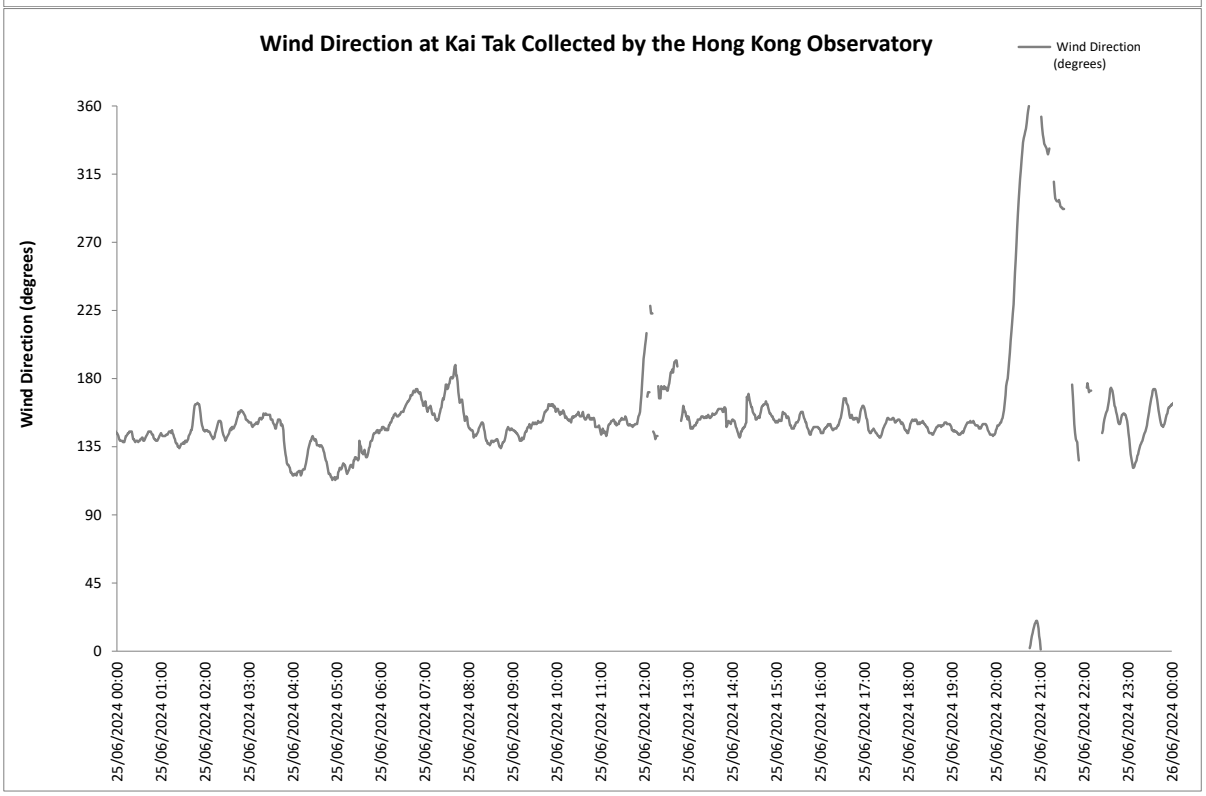
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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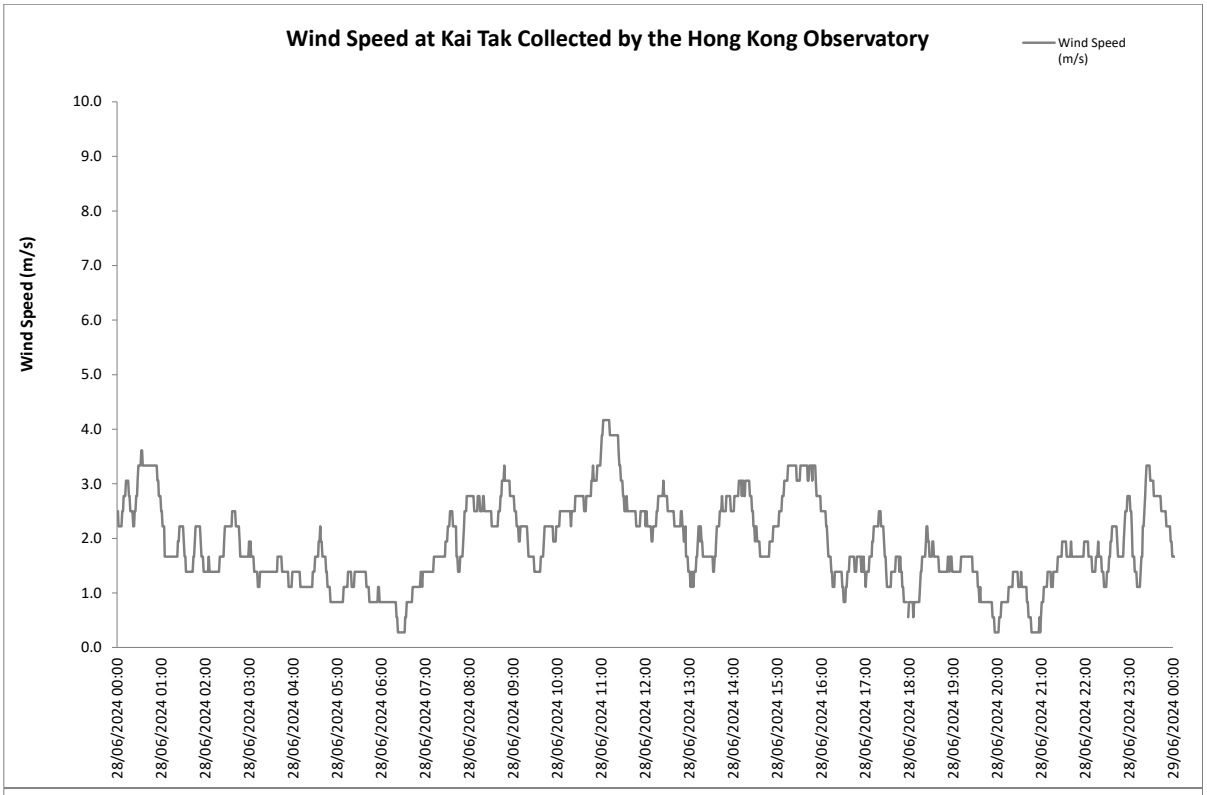
28 June 2024


Wind Speed at Kai Tak Collected by the Hong Kong Observatory
Wind Speed (m/s)
Wind Speed (m/s)
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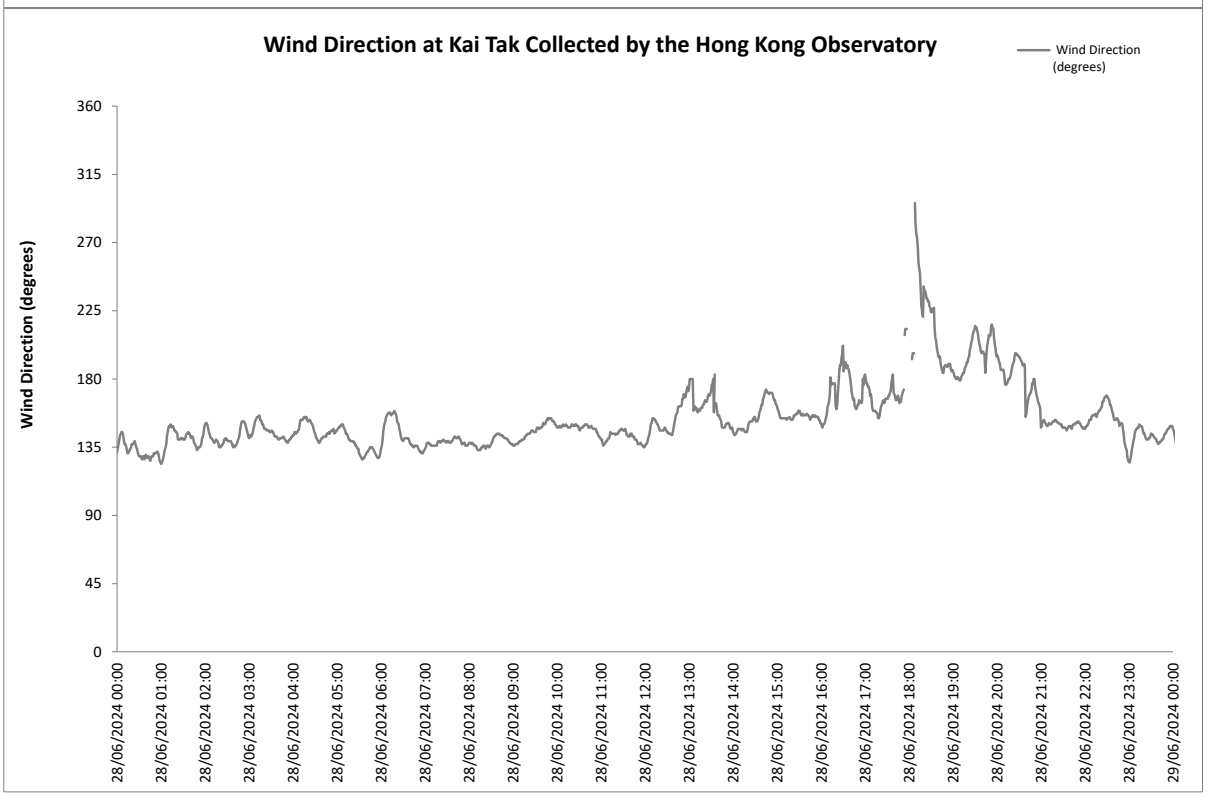
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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Appendix G. Waste Flow Table

Project: Kai Tak Sport Park
Contract No.: HAB/ KTSP/ 01
Contract Title: Design, Construction and Operation of the Kai Tak Sports Park at Kai Tak, Kowloon City District, Hong Kong
Year of Record: 2019-2024

協興工程有限公司
HIP HING ENGINEERING CO LTD
新鴻基集團成員 Member of NWS Holdings

Monthly Waste Flow Table

Month	Total Quantity Generated	Total Quantity Generated (Excluded Excavated Material)	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Materials Generated Monthly						Remarks
			Excavated Materials			Non-excavated Materials											
			Disposed in Public Fill	Disposed in Sorting Facilities	Others (e.g Reused in the Contract / Other Projects)	Broken Concrete or Construction Waste Collected by Recycled Company	Reused in the Contract	Reused in other Projects	Disposed in Public Fill	Disposed in Sorting Facilities	Metals (steel bar / metal strip)(1)	Metals (aluminum can)(1)	Paper / cardboard packaging (1)	Plastics (1) & (4)	Chemical waste (wasted lubricant oil/ oil container)	Other, e.g. general refuse	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
	a1	a2	b	b	b	c	d	e	f	g	h	i	j	k	l	m	
2019	43517.88	8326.30	35191.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	166.07	0.00	2.05	7.92	2.00	8148.27	
2020	811029.24	6341.58	49326.08	0.00	755361.58	0.00	0.00	0.00	0.00	0.00	3170.12	0.47	10.10	20.71	2.20	3137.98	
Jan-21	78129.57	1315.84	4253.06	0.00	72560.67	0.00	0.00	0.00	0.00	0.00	393.38	0.05	2.68	1.96	0.00	917.77	
Feb-21	70013.03	912.17	10767.60	0.00	58333.26	0.00	0.00	0.00	0.00	0.00	386.46	0.07	1.24	0.64	0.00	523.76	
Mar-21	51743.64	1314.81	18740.08	0.00	31688.75	0.00	0.00	0.00	0.00	0.00	320.13	0.12	2.08	2.45	0.00	990.03	
Apr-21	16431.34	1411.19	0.00	0.00	15020.15	0.00	0.00	0.00	0.00	0.00	467.54	0.02	1.84	1.70	0.00	940.09	
May-21	39675.06	1610.42	0.00	0.00	38064.64	0.00	0.00	0.00	0.00	0.00	442.35	0.00	1.31	2.81	0.00	1163.95	
Jun-21	56589.31	1812.39	0.00	0.00	54776.92	0.00	0.00	0.00	0.00	0.00	353.07	0.02	1.10	1.37	0.00	1456.83	
Jul-21	18264.19	2544.22	0.00	0.00	15719.97	0.00	0.00	0.00	0.00	0.00	383.64	0.00	1.55	3.36	0.00	2155.67	
Aug-21	7959.53	2028.39	4150.75	0.00	1780.39	0.00	0.00	0.00	0.00	0.00	326.91	0.00	1.28	1.40	0.00	1698.80	
Sep-21	32389.58	2259.89	30129.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	269.75	0.00	1.99	2.68	0.00	1985.47	
Oct-21	34559.10	2034.74	17144.35	0.00	15380.01	0.00	0.00	0.00	0.00	0.00	289.21	0.00	1.04	2.83	0.00	1741.66	
Nov-21	34821.07	2353.58	6551.45	0.00	25916.04	0.00	0.00	0.00	0.00	0.00	164.09	0.00	1.27	3.80	0.60	2183.82	
Dec-21	10648.02	2282.17	8365.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125.27	0.00	1.54	0.69	0.00	2154.67	
Jan-22	6238.85	2367.85	3871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.89	0.00	1.43	1.76	0.00	2233.77	
Feb-22	6654.84	1294.33	5360.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158.11	0.00	0.51	0.00	0.00	1135.71	
Mar-22	27279.95	1820.78	25459.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162.33	0.00	0.81	0.85	0.00	1656.79	
Apr-22	15402.21	1792.21	13610.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.78	0.00	0.62	3.11	0.00	1751.70	
May-22	8425.54	2151.70	6273.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.12	0.00	0.61	1.47	0.00	2066.50	
Jun-22	8171.01	2700.44	5470.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	192.21	0.00	1.66	1.91	0.00	2504.66	
Jul-22	5804.34	2575.55	3228.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	238.36	0.00	1.56	4.87	0.00	2330.75	
Aug-22	11860.09	2557.97	9302.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	138.66	0.00	0.92	4.03	0.00	2414.36	
Sep-22	14721.29	2391.62	12329.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.67	0.00	0.52	5.72	0.00	2229.71	
Oct-22	12307.08	2428.20	9878.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.57	0.00	0.50	0.73	0.00	2411.40	
Nov-22	16034.69	2332.38	13702.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.73	0.00	1.07	1.24	0.00	2246.34	
Dec-22	21702.52	1944.12	19758.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.41	0.00	0.81	1.96	0.00	1926.94	
Jan-23	14065.32	1261.42	12803.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	1.54	0.00	1259.22	
Feb-23	17813.51	1729.85	16083.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.83	0.00	1726.59	
Mar-23	14767.87	2148.99	12618.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	3.68	0.00	2144.35	
Apr-23	13579.71	1411.83	12167.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.06	0.00	1407.97	
May-23	9704.79	1744.90	7959.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.05	0.00	0.32	4.02	0.00	1733.51	
Jun-23	8426.09	1558.40	6867.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.74	0.00	1.17	2.17	0.00	1544.32	
Jul-23	7550.66	1632.72	5917.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.05	0.00	1.46	2.62	0.00	1615.59	
Aug-23	9846.51	1561.03	8285.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	2.70	0.00	1557.90	
Sep-23	12162.88	1393.05	10769.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	1.63	0.00	1389.71	
Oct-23	13388.21	1474.11	11914.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	5.02	0.00	1468.09	
Nov-23	19026.41	2051.04	16975.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	204.20	0.00	0.20	6.40	0.00	1840.23	
Dec-23	18201.46	1789.64	16411.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.31	0.00	0.00	4.38	0.00	1769.95	
Jan-24	20113.41	1685.40	18428.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.57	0.00	0.29	5.50	0.00	1668.04	
Feb-24	13274.14	898.67	12375.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.00	0.00	5.47	0.00	883.47	
Mar-24	15225.55	1537.94	13687.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	5.37	0.00	1532.37	
Apr-24	13965.14	1614.05	12351.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	6.07	0.00	1607.56	
May-24	6791.26	1238.65	5552.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	7.00	0.00	1231.09	
Jun-24	7715.02	1534.23	6180.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	6.64	0.00	1527.00	
Total	1695990.89	91170.75	520217.78	0.00	1084602.38	0.00	0.00	0.00	0.00	0.00	8939.48	0.75	54.27	157.07	4.80	82014.36	

Total C&D waste generated	1695990.89	tonne	a1=b+c+d+e+f+g+h+i+j+k+l+m
Total C&D waste generated (excluding excavated materials)	91170.75	tonne	a2=c+d+e+f+g+h+i+j+k+l+m
Total recycled C&D waste	9151.58	tonne	a3=c+d+e+h+i+j+k
% of recycled C&D waste for BEAM Plus MA10 or MA11	10.04	%	a4=a3/a2 x 100%

Notes:
(1) Metal, paper & plastic were collected by recycler.
(2) The performance target of waste recycling are specified in the Contract.
(3) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.
(5) Broken concrete for recycling into aggregates.
(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation.
(7) Disposal of inert waste to public fill or sorting facilities will NOT be considered as recycled waste.
(8)Disposal record for April 2024 and May 2024 have been updated according to the latest information from contractor in June 2024.
(9)Recycling record for metals, papers and plastics have been updated according to the latest information from contractor in June 2024.

Project: Proposed Composite Development at NKIL 6607,Shing Kai Road, Kai Tak, Kowloon

Company: Hip Hing Construction Co., Ltd.

Monthly Summary Waste Flow Table

Month	Total Quantities Generated	Total Quantities Generated (excluded excavated material)	Accumulated Quantities of Inert C&D Materials Generated Monthly					Accumulated Quantities of Non-inert C&D Wastes Generated Monthly						
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
			Broken Concrete Recycled	Broken Concrete Diverted to Public Fill	Excavated Materials Reused in this Project	Excavated Materials Reused in other Projects	Excavated Materials Disposed as Public Fill	Mixed Wastes Diverted to Sorting Facility	Metals Recycled	Paper/ Cardboard Packaging Recycled	Timber/Wood Pallet Recycled	Plastics Recycled	Chemical Waste Collected	Others, e.g. General Refuse Disposed at Landfill
	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)	(in'000 kg)
Aug-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Sep-21	1550.68	0.00	0	0	0	1550.68	0.00	0.00	0.00	0.00	0	0	0	0.00
Oct-21	3691.90	28.13	0	0	0	3663.77	0.00	0.00	13.17	0.00	0	0	0	14.96
Nov-21	5447.65	68.57	0	0	0	5309.20	69.88	6.05	32.40	0.00	0	0	0	30.12
Dec-21	400.90	180.45	0	0	0	63.20	157.25	0.00	138.58	0.00	0	0	0	41.87
Jan-22	1454.58	288.36	0	0	0	493.40	672.82	27.52	245.57	0.00	0	0	0	15.27
Feb-22	241.23	207.42	0	0	0	0.00	33.81	4.65	177.65	0.05	0	0	0	25.07
Mar-22	1717.06	373.58	0	0	0	0.00	1343.48	89.56	265.79	0.00	0	0	0	18.23
Apr-22	1657.01	788.84	0	0	0	0.00	868.17	87.83	684.33	0.00	0	0	0	16.68
May-22	1260.80	124.46	0	0	0	0.00	1136.34	102.49	21.97	0.00	0	0	0	0.00
Jun-22	464.11	77.27	0	0	0	0.00	386.84	55.75	21.43	0.09	0	0	0	0.00
Jul-22	813.76	98.52	0	0	0	0.00	715.24	58.30	32.29	0.00	0	0	0	7.93
Aug-22	442.84	55.11	0	0	0	0.00	387.73	54.95	0.00	0.16	0	0	0	0.00
Sep-22	786.99	91.80	0	0	0	0.00	695.19	91.80	0.00	0.00	0	0	0	0.00
Oct-22	1428.67	157.88	0	0	0	0.00	1270.79	154.05	0.00	0.00	0	0	0	3.83
Nov-22	2134.86	174.01	0	0	0	0.00	1960.85	147.07	0.00	0.63	0	0	0	26.31
Dec-22	864.13	212.59	0	0	0	0.00	651.54	198.44	0.00	0.00	0	0	0	14.15
Jan-23	885.60	135.88	0	0	0	0.00	749.72	133.59	0.00	0.00	0	0	0	2.29
Feb-23	1286.59	225.50	0	0	0	0.00	1061.09	181.53	24.35	0.52	0	0	0	19.10
Mar-23	691.22	253.47	0	0	0	0.00	437.75	149.17	71.86	0.16	0	0	0	32.28
Apr-23	3744.20	56.11	0	0	0	0.00	3688.09	30.39	0.00	0.28	0	0	0	25.44
May-23	2344.73	127.50	0	0	0	0.00	2217.23	121.58	0.00	0.00	0	0	0	5.92
Jun-23	184.99	84.02	0	0	0	0.00	100.97	82.67	0.00	0.00	0	0	0	1.35
Jul-23	465.69	79.17	0	0	0	0.00	386.52	74.46	0.00	0.00	0	0	0	4.71
Aug-23	92.13	92.13	0	0	0	0.00	0.00	83.60	0.00	0.00	0	0	0	8.53
Sep-23	114.83	101.37	0	0	0	0.00	13.46	94.65	0.00	0.20	0	0	0	6.52
Oct-23	143.00	121.62	0	0	0	0.00	21.38	112.81	0.00	0.16	0	0	0	8.65
Nov-23	106.87	106.87	0	0	0	0.00	0.00	98.35	0.00	0.00	0	0	0	8.52
Dec-23	169.09	43.68	0	0	0	0.00	125.41	42.12	0.00	0.00	0	0	0	1.56
Jan-24	339.23	24.43	0	0	0	0.00	314.80	22.15	0.00	0.00	0	0	0	2.28
Feb-24	16.43	16.43	0	0	0	0.00	0.00	10.25	0.00	0.00	0	0	0	6.18
Mar-24	42.68	22.19	0	0	0	0.00	20.49	17.77	0.00	0.00	0	0	0	4.42
Apr-24	20.41	15.13	0	0	0	0.00	5.28	5.70	0.00	0.00	0	0	0	9.43
May-24	36.80	36.80	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	36.80
Jun-24	42.54	42.54	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	42.54
Total	**35084.20**	**4511.83**	**0**	**0**	**0**	**11080.25**	**19492.12**	**2339.25**	**1729.39**	**2.24**	**0.00**	**0.00**	**0.00**	**440.94**

Total C&D Waste generated	35084.20	Tons
Total C&D waste generated (Excluded excavated materials)	4511.83	Tons
Total C&D waste recycled	1731.64	Tons

$$\text{Waste Recycling Rate} = \frac{(a) + (g) + (h) + (i) + (j)}{(a) + (b) + (f) + (g) + (h) + (i) + (j) + (l)} \times 100\% = 38.38\%$$

Note:
For BEAM Plus certification scheme, excavated materials are excluded from the calculation of the waste reduction rate Record with Underlined indicated updated content

Appendix H. Environmental Licences and Permits

Table H.1: Summary of Environmental Licences and Permits Status (KTSP)

Item No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
1	Environmental Permit under EIAO	EP-544/2017	21 Aug 2017	8 Sep 2017	N/A	Issued
2	Construction Dust Notification under APCO	441733	25 Jan 2019	29 Jan 2019	N/A	N/A
3	Construction Waste Disposal Account (Main)	7033182	12 Feb 2019	12 Feb 2019	N/A	N/A
4	Registration as a Chemical Waste Producer	WPN5213-286-H3906-02	29 Jan 2019	12 Feb 2019	N/A	N/A
5	Discharge Licence under WPCO	WT00034082-2019	15 Feb 2019	26 Jun 2019	30 Jun 2024	Issued
6	Construction Noise Permit (Construction Works, Barging Point)	GW-RE1442-23	3 Nov 2023	21 Nov 2023	20 May 2024	Issued
7	Construction Noise Permit (Construction Works, Southern Site)	GW-RE1507-23	15 Nov 2023	6 Dec 2023	5 Apr 2024	Superseded by GW-RE0311-24 on 22 Mar 2024
8	Construction Noise Permit (Construction Works, Northern Site)	GW-RE1677-23	19 Dec 2023	30 Jan 2024	29 Apr 2024	Superseded by GW-RE0498-24 on 30 Apr 2024
9	Construction Noise Permit (Special Shing Kai Road)	GW-RE0415-24	13 Mar 2024	8 Apr 2024	30 May 2024	Supeseded by GW-RE0666-24 on 3 Jun 2024
10	Construction Noise Permit (Construction Works,	GW-RE0440-24	22 Mar 2024	20 Apr 2024	19 Aug 2024	Issued

Item No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
	Southern Site)					
11	Construction Noise Permit (Construction Works, Northern Site)	GW-RE0498-24	8 Apr 2024	30 Apr 2024	29 Aug 2024	Issued
12	Construction Noise Permit (Special Shing Kai Road)	GW-RE0666-24	23 May 2024	3 Jun 2024	27 Jun 2024	Issued

Table H.2: Summary of Environmental Licences and Permits Status (H/O Development)

Item No.	Type of Permit / Licence	Reference No.	Application Date	Valid from	Valid until	Remark
1	Environmental Permit under EIAO	EP-544/2017	21 Aug 2017	8 Sep 2017	N/A	Issued
2	Construction Dust Notification under APCO	458255	17 Jul 2020	17 Jul 2020	N/A	N/A
		470045	29 Jul 2021	29 Jul 2021	N/A	N/A
3	Construction Waste Disposal Account (Main)	7041267	29 Jul 2021	11 Aug 2021	N/A	Issued
4	Registration as a Chemical Waste Producer	WPN5211-286-H1103-23	29 Jul 2021	24 Aug 2021	N/A	Issued
5	Discharge Licence under WPCO	WT00039490-2021	6 Aug 2021	9 Nov 2021	30 Nov 2026	Issued
6	Construction Noise Permit	GW-RE1673-23	15 Dec 2023	6 Jan 2024	6 Jun 2024	Issued

Appendix I. Environmental Mitigation Measures Implementation Status

Air Quality – Recommended Mitigation Measures

Air Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Good housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	P	✓
• Store cement in shelter with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags	✓	✓
• Cement delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed	N/A	N/A
• Loading, unloading, transfer, handling or storage of bulk cement should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system	P	✓
• Dusty materials (e.g. debris) should be wetted by misting / water-spraying before any loading, unloading, transfer or transport operation	✓	✓
• Any skip hoist for material transport should be fully enclosed by impervious sheeting	✓	✓
• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously	P	P
• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities to maintain the entire surface wet	✓	✓
• Excavation area should be minimized as far as possible	✓	✓
• Stockpile of dusty materials should not be extended beyond the pedestrian barriers, fencing or traffic cones	✓	✓
• Excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet, and then removed, backfilled or reinstated where practicable within 24 hours of the excavation or unloading	P	✓
• Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads	✓	✓
• Properly fitted side and tail boards are necessary for any vehicle with open load area	✓	✓
• While transporting materials that potentially create dust (e.g. debris), materials should not be loaded higher than side and tail boards, and should be fully covered by tarpaulin or similar materials which extent at least 300 mm over the edges of the side and tail boards to prevent leakage.	✓	✓
• Limit the maximum vehicle speed within the site to 10km/hr	✓	✓
• Haulage and delivery vehicles should be confined to designated roads	✓	✓
• Every main haul road should either be 1.) paved with concrete and kept clear of dusty materials, or 2.) sprayed or watered to maintain the entire road surface wet	P	✓
• All on-site unpaved roads should be compacted and kept free of lose materials as possible	✓	✓
• Provide vehicle washing (e.g. wheel washing bay & high pressure water jet where practicable) at every vehicle exit point for cleaning vehicle body and wheels	✓	✓
• The vehicle washing area and the road between washing area and site exit should be paved with concrete, bituminous or other hardcores	✓	✓
• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.	✓	✓
• Dusty materials on every vehicle's body and wheels should be removed in washing area before leaving the site	✓	✓

• Regular maintenance of all plant equipment	✓	✓
• Throttle down or switch off unused machines or machine in intermittent use	✓	✓
• If the site is adjacent to area where accessible to the public (e.g. road and service lane etc.), hoarding of not less than 2.4 m high from ground level should be erected along the adjoining the entire length of that portion of the site boundary, except for a site entrance or exit. The hoarding should be well maintained throughout the construction period.	✓	✓
• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding	✓	N/A
• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies	✓	✓
• Carry out air quality monitoring throughout the construction period	✓	✓
• Carry out weekly site inspection to audit the implementation of mitigation measures	✓	✓
• Regular watering once per hour on exposed worksites and haul road with an equivalent intensity of not less than 1.3L/m3 to achieve 91.7% dust removal efficiency.	✓	✓
• Provision of electrical vehicle (EV) charging facilities in at least one-third of the car parking spaces for private cars. Provision of EV charging enabling facilities in all car parking spaces provided for private cars.	✓	N/A
Non-Road Mobile Machinery (NRMMs)		
• All NRMMs operated on-site are approved or exempted (as the case may be) and affixed with the requisite approval/exemption labels under the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation or are in the process of application for such approval/exemption during the relevant grace period.	P	✓

Noise – Recommended Mitigation Measures

Noise Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Adopt good site practice, such as throttle down or switch off equipment unused or intermittently used between works	✓	✓
• Regular maintenance of equipment to prevent noise emission due to impair	✓	✓
• Position mobile noisy equipment in locations away from NSRs and point the noise sources to directions away from NSRs	✓	✓
• Use silencer or muffler for equipment	✓	✓
• Make good use structures for noise screening	✓	✓
• Use Quality Powered Mechanical Equipment (QPME) and quiet equipment which produces lower noise level.	✓	✓
• Erect movable noise barrier of 3m height to shed large plant equipment (e.g. breaker, backhoe & mobile crane) or hand-held items (e.g. poker, wood saw, power rammer & compactor) near low-rise NSR. Where necessary, special design (e.g. with noise absorbing material or bend top) should be adopted. The barrier's length should be at least five times greater than its height, and the minimum surface density is 10 kg/m2. Alternatively, acoustic shed, enclosure or silencer (for generator, air compressor and concrete pump) or acoustic mat (for piling) can be adopted.	N/A	N/A
• Carry out regular site inspection to audit the implementation of mitigation measures	✓	✓
• Carry out noise monitoring throughout the construction period	✓	✓

Water Quality – Recommended Mitigation Measures

Water Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted.	✓	✓
• Install perimeter channels in the works areas to intercept runoff from boundary prior to the commencement of any earthwork	✓	✓
• To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided.	✓	✓
• Drainage channels are required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance to ensure the normal operation of these facilities throughout the construction period.	✓	✓
• Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements	✓	✓
• Minimum distances of 100 m should be maintained between the discharge points of construction site runoff and the existing WSD saltwater intake and EMSD cooling water intake.	✓	✓
• The following good site measures should be adopted for the use of the existing barging facilities being operated by the MTR SCL Project: - 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. - All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material. - Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. - 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. Whole construction site Contractor P WPCO, EIAO-TM Page	N/A	N/A
• The runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS.	✓	✓
• Reuse and recycling of the treated effluent from construction site runoff.	✓	✓
• Weekly site audit should be carried out to check the implementation status of the recommended water quality impact mitigation measures throughout construction period.	✓	✓
• The construction programme should be properly planned to minimise soil excavation, if any, in rainy seasons.	✓	✓
• Any exposed soil surfaces should be properly protected to minimise dust emission.	✓	✓
• In areas where a large amount of exposed soils exist, earth bunds or sand bags should be provided.	✓	✓
• Exposed stockpiles should be covered with tarpaulin or impervious sheets at all times.	✓	✓
• The stockpiles of materials should be placed at locations away from any stream courses so as to avoid releasing materials into the water bodies.	✓	✓
• Final surfaces of earthworks should be compacted and protected by permanent work.	✓	✓
• Haul roads should be paved with concrete and the temporary access roads protected using crushed stone or gravel, wherever practicable.	✓	✓
• Wheel washing facilities should be provided at all site exits to ensure that earth, mud and debris would not be carried out of the works areas by vehicles.	✓	✓
• Good site practices should be adopted to keep the site dry and tidy, such as clean the rubbish and litter on the construction sites.	✓	✓
• Adequate temporary site drainage and pumping should be provided, if necessary.	P	✓
• Provide sufficient temporary toilets in the works areas. The toilet facilities should be more than 30 m from any watercourse. A licensed waste collector should be deployed to clean the temporary toilets on a regular basis.	✓	✓
• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.	✓	✓

• Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	✓	✓
• Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	✓	✓
• Clean the construction sites on a regular basis.	✓	✓
• Oil interceptor in car parking area shall be designed and constructed according to Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers, APP-46 (PNAP 124)	✓	N/A
• Provide two sequential storage tanks to contain surface water with residual fertilizers and pesticides and third holding tank for incidental rainstorm	N/A	N/A
Sewerage and Sewage Treatment Implications		
• Implementation of Sewer No. 1 and Sewer No.2 as proposed in Sections 7.2.2 - 7.2.3 of the EIA Report	✓	✓

Waste Management – Recommended Mitigation Measures

Waste Management Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Inert C&D materials (or public fills) will be used to form the ramps and other filling area as far as civil engineering design permits.	✓	✓
• The contractor should formulate waste management measures on waste minimization, storage, handling and disposal in a Waste Management Plan as part of Environmental Management Plan.	✓	✓
• Adopt good site practice as follows: - Provide training to workers on site cleanliness, waste management (waste reduction, reuse and recycle) and chemical handling procedures - Provide sufficient waste collection points and regular removal - Cover waste materials with tarpaulin or in enclosure during transportation - Maintain drainage systems, sumps and oil interceptors - Sort out chemical waste for proper handling and treatment onsite or offsite	P	P
• Adopt waste reduction measures as follows: - Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans.) Remove waste from the Site for sorting once generated if no suitable space can be identified. - Allocate area for proper storage of construction materials to prevent contamination - Minimize wastage through careful planning and avoiding over-purchase of construction materials	✓	✓
• Store waste materials properly as follows: - Avoid contamination by proper handling and storing waste - Prevent erosion by covering waste - Apply water spray on excavated materials - Maintain and clean storage area regularly - Sort and stockpile different materials at designated location to enhance reuse	P	✓
• Apply for relevant waste disposal permits in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), Dumping at Sea Ordinance (Cap. 466).	✓	✓
• Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities.	✓	✓
• Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes	✓	✓
• Reduce water content in wet spoil generated from piling work by mixing with dry materials. Only dispose treated spoil with less than 25% dry density to Public Fill Reception Facilities	✓	✓

• Dispose dry waste or waste with less than 70% water content by weight to landfill	✓	✓
• Follow the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste as follows: - Store chemical wastes with suitable containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport - Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation - The container capacity should be smaller than 450 litres unless agreed by the EPD	✓	✓
• Comply with the requirement of the chemical storage area: - Store only chemical waste and label clearly the chemical characters of the waste - Have at least 3 sides enclosed and protected from rainfall with cover - Provide sufficient ventilation - Have impermeable floor and has bunds to contain 110% of the capacity of the largest container or 20% of the total volume of the stored waste in the area, whichever is larger - Adequately spaced incompatible materials	P	✓
• Transfer used lubricants, waste oils and other chemicals to oil recycling companies, if possible, and empty oil drums for reuse or refill. No direct or indirect discharge is permitted	✓	✓
• Hire licensed chemical waste disposal contractors for waste collection and removal. Dispose chemical waste at the approved Chemical Waste Treatment Centre at Tsing Yi or other licensed facility	✓	✓
• Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away	✓	✓
• The hauling of C&D materials shall follow established environmental mitigation measures as stated in Practice Note for Registered Contractors No. 17 “Control of Environmental Nuisance from Construction Sites” issued by the Buildings Department	✓	✓
• Provide recycling bins for sorting out recyclables for collection by recycling companies. Non-recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance.	✓	✓
• Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling	✓	✓
• Bentonite slurry which will not be reused shall be disposed of from the Site as soon as possible. Residual used dewatered bentonite slurry should be disposed to a public filling area and liquid bentonite slurry if mixed with inert fill material should be disposed to a public filling area.	N/A	N/A
• If chemical wastes were to be produced at the construction site, the Contractor would 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 waste such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport the chemical wastes. • The licensed collector shall deliver the waste to the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation	✓	✓
• Carry out weekly site inspection to check the implementation status of the recommended waste management measures.	✓	✓
• The barging of C&DM for this Project shall use the existing Kai Tak Barging Facility (KTBF), or otherwise approved by the Director.	N/A	N/A

Ecology – Recommended Mitigation Measures

Ecology Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• Erection of hoarding, fencing or provision of clear demarcation of work zone	✓	✓
• Designate areas for placement of equipment, building materials and wastes away from drainage channels	✓	✓

• Carry out weekly site inspection to check the implementation status and the effectiveness of the proposed mitigation measures	✓	✓

Landscape and Visual – Recommended Mitigation Measures

Landscape and Visual Mitigation Measures during construction	Implementation Status KTSP	H/O
• Construction Lighting Control - All security floodlights for construction sites should be equipped with adjustable shields, frosted diffusers and reflective covers, and be controlled to minimize light pollution and night-time glare to the visual sensitive receivers (VSRs).	✓	✓
• Temporary Landscape Treatments - Including vertical greening, pot planting and application of green roofing to site offices, Hydroseeding of site formation areas and short term greening of site boundaries and land not immediately developed.	✓	N/A
• Decoration of Hoarding - Erection of screen hoardings should be designed appropriately to be compatible with the existing urban context, either brightly and imaginatively or with visually unobtrusive design and colours where more appropriate.	✓	✓
• All security floodlights for construction sites shall be equipped with adjustable shield, frosted diffusers and reflective covers, and be carefully controlled to minimize light pollution and night-time glare to nearby receivers	✓	N/A
• Site inspection should be undertaken once every two weeks.	✓	✓
• Compensatory Tree Planting - A new parkland area is created in the project development to be used for the implementation of compensatory tree planting to offset the net loss of key landscape resources. It is recommended that 340 trees be planted in this regard and a compensatory tree planting proposal outlining the locations of tree compensation will be submitted separately in seeking relevant government department's approval in accordance with DEVB TC No.7/2015.	✓	N/A

Other – Recommended Mitigation Measures

• Relevant environmental permits/licences should be posted at all vehicle entrances/exits.	P	P

Legend:
✓ Implemented
× Not implemented
P Partially implemented
N/A Not applicable

Appendix J. Statistics on Environmental Complaints, Notification of Summons and Successful Prosecutions

Table J.1: Statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period (Apr to Jun 2024)	4	0	0
From commencement date of construction to end of reporting month	39	0	0

Appendix K. Calibration Certificate

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2351432
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 18-DEC-2023
		DATE OF ISSUE	: 27-DEC-2023
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to Envirotech Services Company.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.

Signatories

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

Signatories	Position
Richard Fung	Managing Director

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

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

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

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

WORK ORDER	: HK2351432
SUB-BATCH	: 1
CLIENT	: ENVIROTECH SERVICES CO.
PROJECT	: ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2351432-001	Sibata LD-3B (235780)	Equipments	09-Dec-2023	S/N: 235780

Envirotech Services Co.
Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2580 8460
Fax : 2580 8563
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	235780
Equipment Ref.:	N/A
ALS Job Order:	HK2349963

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	13-Oct-2023

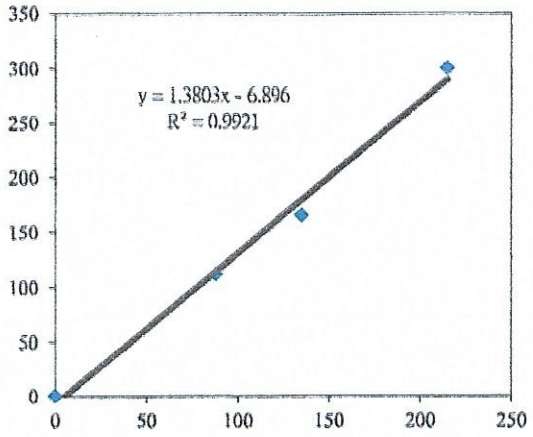
Equipment Verification Results:

Verification Date: 9-Dec-2023

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	Concentration in µg/m³ (Standard Equipment) Y(axis)	Concentration in µg/m³ (Calibrated Equipment) x(axis)
1hr 00mins	1010-1110	26.5	1016.0	112	88
2hr 00mins	1300-1500	26.2	1015.5	165	135
3hr 00mins	1505-1805	26.2	1015.5	300	215

Linear Regression of Y or X

Slope (K-factor):	1.3803(µg/m³)/CPM
Correlation Coefficient (R):	0.9960
Date of Issue:	15-Dec-2023



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 1.3803 (µg/m³)/CPM should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature P.F.Y Date: 15 December 2023

QC Reviewer: K.F.Ho Signature K.F.Ho Date: 15 December 2023

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2319585
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T., HK	SUB-BATCH	: 1
		DATE RECEIVED	: 18-MAY-2023
		DATE OF ISSUE	: 24-MAY-2023
PROJECT	: ---	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- No sample is received in this Work Order. The report presents non-laboratory testing data only.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.

Signatories

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

Signatories	*Position*
Richard Fung	Managing Director

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

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Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER : HK2319585
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2319585-001	Sibata (235786)	Equipments	04-May-2023	S/N: 235786

Envirotech Services Co.
Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2560 9450
Fax : 2560 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	235786
Equipment Ref.:	N/A
ALS Job Order:	HK2317739

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location & Location ID:	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	26-Apr-2023

Equipment Verification Results:

Verification Date: 4, 5 & 6 May 2023

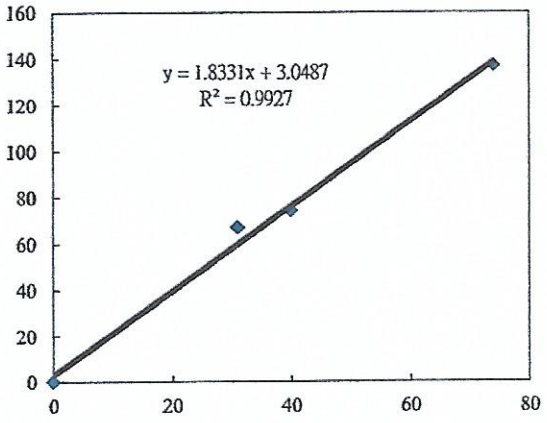
Hour	Time	Mean Temp °C	Mean Pressure (hpa)	Concentration in µg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count /Minute (Total Count/min)
1hr 00mins	0930-1030	24.2	1015.2	137	4431	74
1hr 00mins	1640-1740	28.5	1008.5	67	1870	31
1hr 00mins	1300-1400	29.2	1006.5	74	2410	40

Linear Regression of Y or X

Slope (K-factor): 1.8331(µg/m³)/CPM

Correlation Coefficient (R): 0.9963

Date of Issue: 12-May-2023



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 1.8331 (µg/m³)/CPM should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Fai Date: 12 May 2023

QC Reviewer: K.F.Ho Signature Fat Date: 12 May 2023

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2419604
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 20-MAY-2024
		DATE OF ISSUE	: 24-MAY-2024
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

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Signatories	*Position*
Richard Fung	Managing Director

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

WORK ORDER : HK2419604
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2419604-001	Sibata LD-3B (235786)	Equipments	11-May-2024	S/N: 235786

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

Envirotech Services Co.

Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2640 8460
Fax : 2640 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	235786
Equipment Ref.:	N/A
ALS Job Order:	HK2418944

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	25-Mar-2024

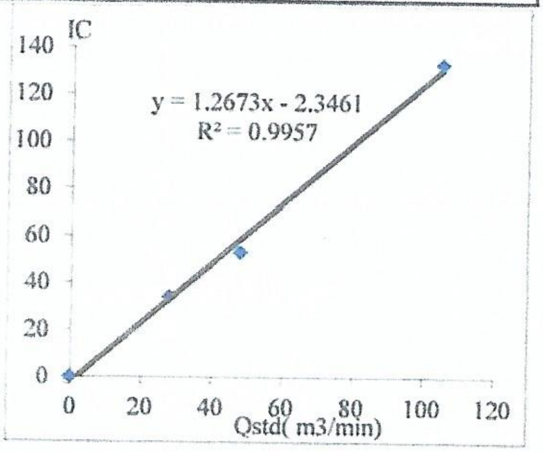
Equipment Verification Results:

Verification Date: 11-May-2024

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	Concentration in μg/m³ (Standard Equipment) (Y-Axis)	Concentration in μg/m³ (Calibrated Equipment) (X-Axis)
1hr 00mins	0830-0930	26.8	1015	34	28
2hr 00mins	0935-1135	28.5	1015	53	48
3hr 00mins	1310-1610	29.5	1016	133	105

Linear Regression of Y or X

Slope (K-factor):	1.2673(μg/m³)/CPM
Correlation Coefficient (R):	0.9978
Date of Issue:	19-May-2024



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 1.2673(μg/m³)/CPM should be applied for TSP monitoring

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

Operator:	P.F.Yeung	Signature	Fai	Date: 19 May 2024
QC Reviewer:	K.F.Ho	Signature	[signature]	Date: 19 May 2024

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2321489
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T., HK	SUB-BATCH	: 1
		DATE RECEIVED	: 2-JUN-2023
		DATE OF ISSUE	: 8-JUN-2023
PROJECT	: ---	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ---

General Comments

- No sample is received in this Work Order. The report presents non-laboratory testing data only.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

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Signatories	*Position*
Richard Fung	Managing Director

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Part of the **ALS Laboratory Group**

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
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WORK ORDER : HK2321489
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2321489-001	SIBATA (456668)	Equipments	25-May-2023	S/N: 456668

Envirotech Services Co.
Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, N.K.
Tel : 2560 8450
Fax : 2560 6553
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	456668
Equipment Ref.:	N/A
ALS Job Order:	HK2320686

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location & Location ID:	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	26-Apr-2023

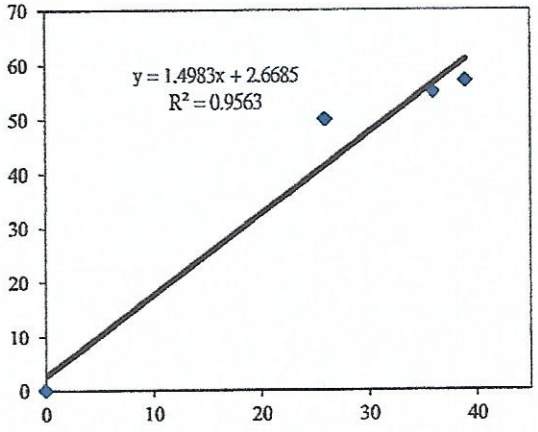
Equipment Verification Results:

Verification Date: 25, 26 & 27 May 2023

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	Concentration in µg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count /Minute (Total Count/min)
1hr 00mins	1620-1720	27.5	1011.2	57	2334	39
1hr 00mins	1030-1130	28.5	1013.6	55	2165	36
1hr 00mins	0915-1015	28.8	1011.1	50	1537	26

Linear Regression of Y or X

Slope (K-factor):	1.4983(µg/m³)/CPM
Correlation Coefficient (R):	0.9779
Date of Issue:	1-Jun-2023



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 1.4983 (µg/m³)/CPM should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Faj Date: 01 June 2023

QC Reviewer: K.F.Ho Signature Fat Date: 01 June 2023

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR MAGNUM FAN	WORK ORDER	: HK2412745
CLIENT	: ENVIROTECH SERVICES CO.		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 5-APR-2024
		DATE OF ISSUE	: 12-APR-2024
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

General Comments

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
- Calibration was subcontracted to Envirotech Services Company.

Signatories

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Signatories	*Position*
Richard Fung	Managing Director

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Part of the **ALS Laboratory Group**

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

WORK ORDER : HK2412745
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2412745-001	Sibata LD-3B (6Z7784)	Equipments	25-Mar-2024	S/N: 6Z7784

Envirotech Services Co.
Rm. 712, 7/F
My Loft,
9 Hoi Wing Road,
Tuen Mun, H.K.
Tel : 2660 8450
Fax : 2660 8653
E-mail: envirotech@netvigator.com

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust Monitor
Manufacturer:	Sibata LD-3B
Serial No.:	6Z7784
Equipment Ref.:	N/A
ALS Job Order:	HK2411837

Standard Equipment

Standard Equipment:	High Volume Sampler (TSP)
Location :	Envirotech Room (Calibration Room)
Equipment Ref.:	HVS 8162
Last Calibration Date:	25-Mar-2024

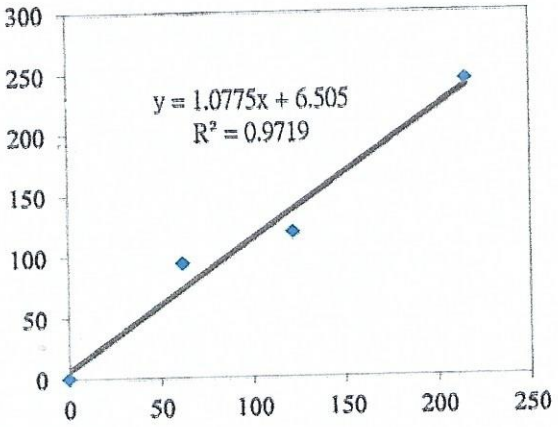
Equipment Verification Results:

Verification Date: 25-Mar-2024

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	Concentration in µg/m³ (Standard Equipment) (Y-Axis)	Concentration in µg/m³ (Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	24.5	1016	94	62
2hr 00mins	1005-1205	26.2	1017	119	122
3hr 00mins	1315-1615	29.0	1014	244	216

Linear Regression of Y or X

Slope (K-factor):	1.0775(µg/m³)/CPM
Correlation Coefficient (R):	0.9859
Date of Issue:	5-Apr-2024



Remarks:

1 . Strong Correlation (>0.8)

2. Factor 1.0775 (µg/m³)/CPM should be applied for TSP monitoring

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

Operator: P.F.Yeung Signature Fai Date: 05 April 2024

QC Reviewer: K.F.Ho Signature at Date: 05 April 2024

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***RION***
Type No.:	***NL-52 (Serial No.: 00131627)***
Microphone:	***UC-59 (Serial No.: 04870)***
Preamplifier:	***NH-25 (Serial No.: 10403)***

Submitted by:

Customer:	*Envirotech Services Co.*
Address:	*Rm.113, 1/F., My Loft, 9 Hoi Wing Road,*
	Tuen Mun, Hong Kong

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

☑ **Within (31.5Hz – 8kHz)**
☐ **Outside**

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 07 June 2023

Date of calibration: 08 June 2023

Date of NEXT calibration: 07 June 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **08 June 2023**

Certificate No.: APJ23-029-CC001

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

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

1. *Calibration Precaution:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Conditions:*

Air Temperature:	22.5 °C
Air Pressure:	1006 hPa
Relative Humidity:	64.5 %

3. *Calibration Equipment:*

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. *Calibration Results*

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

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

Time Weighting

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

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Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dB SPL	Fast	94	31.5	93.9	±2.0
				63	93.9	±1.5
				125	94.0	±1.5
				250	94.0	±1.4
				500	94.0	±1.4
				1000	94.0	Ref
				2000	93.9	±1.6
				4000	94.0	±1.6
				8000	92.2	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	31.5	54.4	-39.4 ±2.0
				63	67.7	-26.2 ±1.5
				125	77.9	-16.1 ±1.5
				250	85.3	-8.6 ±1.4
				500	90.7	-3.2 ±1.4
				1000	94.0	Ref
				2000	95.1	+1.2 ±1.6
				4000	95.0	+1.0 ±1.6
				8000	91.2	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBC SPL	Fast	94	31.5	90.8	-3.0 ±2.0
				63	93.1	-0.8 ±1.5
				125	93.8	-0.2 ±1.5
				250	93.9	-0.0 ±1.4
				500	94.0	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.7	-0.2 ±1.6
				4000	93.2	-0.8 ±1.6
				8000	89.3	–3.0 +2.1: –3.1

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5. *Calibration Results Applied*

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:
The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

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輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C237046
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC23-2316) Date of Receipt / 收件日期 : 15 November 2023

Description / 儀器名稱	:	Sound Level Meter
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NL-52
Serial No. / 編號	:	00175561
Supplied By / 委託者	:	Envirotech Services Co. Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 6 December 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed specified limits.
These limits refer to manufacturer's published tolerances as requested by the customer.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : C K Lo, Project Engineer

Certified By 核證 : K C Lee, Engineer

Date of Issue 簽發日期 : 6 December 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration
校正證書

Certificate No. : C237046
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C230306
CL281	Multifunction Acoustic Calibrator	CDK2302738

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.2	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L_A	A	Fast	94.00	1	93.2 (Ref.)
				104.00		103.3
				114.00		113.4

IEC 61672 Class 1 Limit : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.2	Ref.
			Slow			93.2	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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c/o 香港新界屯門興安里 -號四樓
Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website 網址: www.suncreation.com

Certificate of Calibration
校正證書

Certificate No. : C237046
證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_A	A	Fast	94.00	63 Hz	66.9	-26.2 ± 1.5
					125 Hz	77.0	-16.1 ± 1.5
					250 Hz	84.5	-8.6 ± 1.4
					500 Hz	89.9	-3.2 ± 1.4
					1 kHz	93.2	Ref.
					2 kHz	94.4	+1.2 ± 1.6
					4 kHz	94.2	+1.0 ± 1.6
					8 kHz	92.1	-1.1 (+2.1 ; -3.1)
					16 kHz	85.2	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_C	C	Fast	94.00	63 Hz	92.3	-0.8 ± 1.5
					125 Hz	93.0	-0.2 ± 1.5
					250 Hz	93.2	0.0 ± 1.4
					500 Hz	93.2	0.0 ± 1.4
					1 kHz	93.2	Ref.
					2 kHz	93.0	-0.2 ± 1.6
					4 kHz	92.4	-0.8 ± 1.6
					8 kHz	90.2	-3.0 (+2.1 ; -3.1)
					16 kHz	83.3	-8.5 (+3.5 ; -17.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Certificate of Calibration
校正證書

Certificate No. : C237046
證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16651

- Mfr's Limit : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	16 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
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輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C234377
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC23-1403) Date of Receipt / 收件日期 : 11 July 2023

Description / 儀器名稱	:	Precision Acoustic Calibrator
Manufacturer / 製造商	:	LARSON DAVIS
Model No. / 型號	:	CAL200
Serial No. / 編號	:	11333
Supplied By / 委託者	:	Envirotech Services Co. Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 30 July 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed specified limits.
These limits refer to manufacturer's published tolerances as requested by the customer.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : H T Wong, Assistant Engineer

Certified By 核證 : K C Lee, Engineer

Date of Issue 簽發日期 : 31 July 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C234377
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C233799
CL281	Multifunction Acoustic Calibrator	CDK2302738
TST150A	Measuring Amplifier	C221750

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Limit (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.80	± 0.2	± 0.20
114 dB, 1 kHz	113.80		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Limit	Uncertainty of Measured Value (Hz)
1	1.000	1 kHz ± 1 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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Appendix L. Complaint Investigation Report

Complaint Investigation Report

RECEIPT OF COMPLAINT			**Ref: COM_0036**
Date:	24 April 2024		
Time:	10:37		
From:	Public complaint referred by EPD		
Via:	email by contractor representative		
Contact no.:	-		
COMPLAINANT			
Name:	-	Address:	-
Contact no.:	-		
DETAILS OF COMPLAINT			
Date:	17 April 2024		
Time:	-		
Parameter:*	~~Dust~~ Noise ~~Water~~ ~~Other (specify)~~:		
Description:			
- Complaint of construction noise from the construction site of Kai Tak Sports Park at public holidays.			
- Please ensure the work fulfill the relevant environmental legislations and their subsidiary regulations.			
- Please take necessary measures to minimize the environmental nuisance arising from the construction site.			
INVESTIGATION RESULT & RESPONSE			
ET, IEC and SOR notified on:	24 April 2024		
Investigation conducted on:	25 April 2024		
Result of investigation:			
Complaint investigation was carried out with the contractor on 25 April 2024, the results of investigation were summarized as following:			
According to the information from contractor, regular site inspection was carried out on 17 April 2024. (Photo 1) Noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule were generally implemented during the time of inspection. All construction works carried out on site have strictly followed the Construction Noise Permit requirement. Permit to work system has been implemented for all construction activities at public holidays. (Photo 5) The CNP (Ref. No.: GW-RE1677-23) for the construction works effective in April 2024 is attached for information. (Photos 6a and 6b)			
Regular noise mitigation measure had been implemented to prevent possible environmental nuisance included: 1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2) 2. Subcontractors had been reminded to observe the Construction Noise Permit for working in holiday during regular subcontractor meetings. (Photo 3) 3. A memo to all subcontractors has been issued in Jan 2024 with the latest Construction Noise Permit attached. (Photo 4) 4. Permit to work checking system has been implemented for construction works at public holiday. (Photo 5)			
In conclusion, construction noise mitigation measures at the Kai Tak Sports Park have been implemented and maintained. All construction works carried out have been fulfilling the relevant environmental legislations and their subsidiary regulations during the concerned period.			

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS			
Environmental mitigation measures have been maintained as follow: 1. Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents. (Photo 2) 2. Subcontractors had been reminded to observe the Construction Noise Permit for working in holiday during regular subcontractor meetings. (Photo 3) 3. A memo to all subcontractors has been issued in Jan 2024 with the latest Construction Noise Permit attached. (Photo 4) 4. Permit to work checking system has been implemented for construction works at public holiday. (Photo 5) 5.Implementation of construction noise mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.			
Prepared by:	Sunny Chan	Title:	Environmental Team Leader
Signature:		Date:	25 April 2024

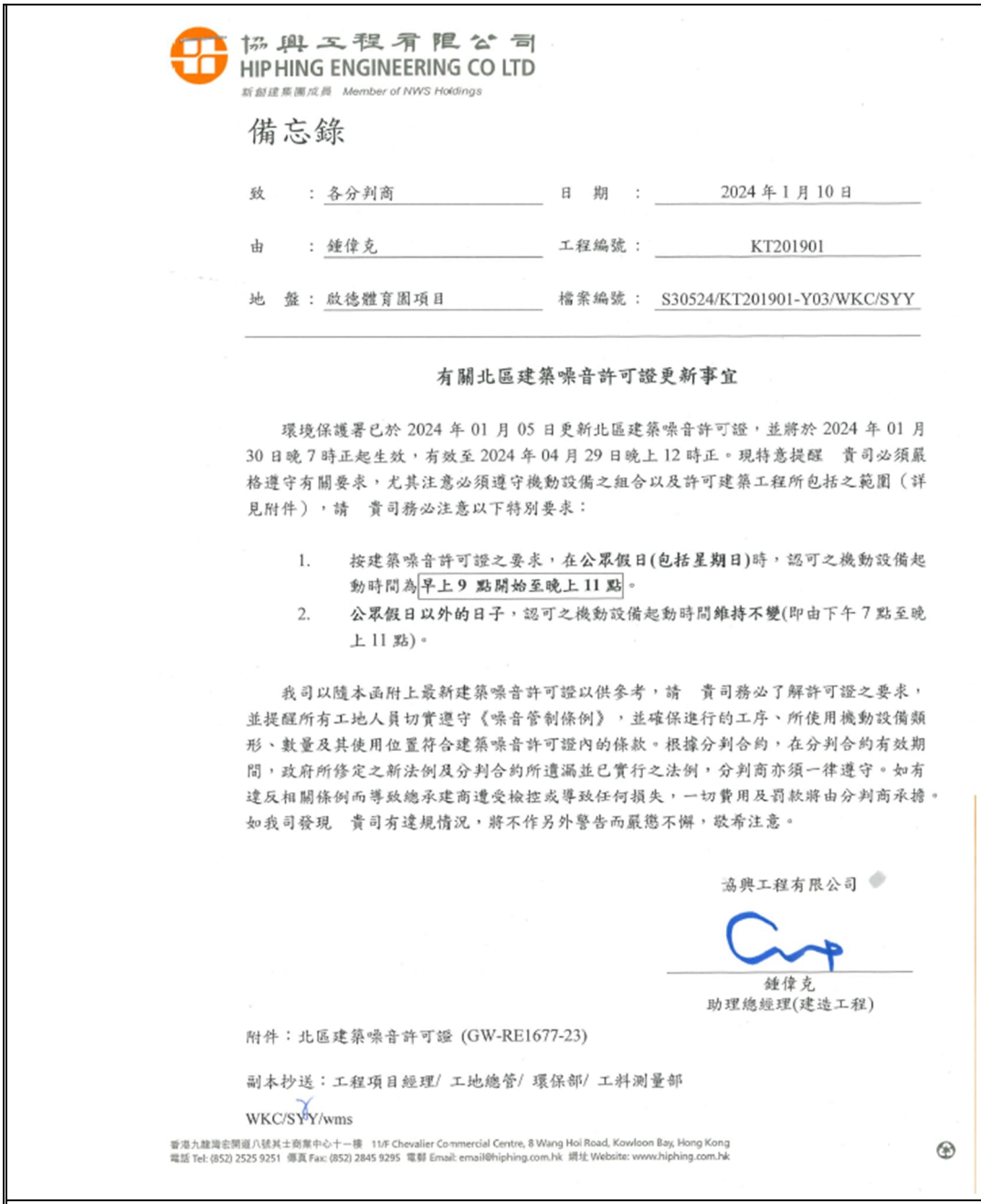
Attachment:
1. Photo Records of Environmental Measure Implemented
Photo Record:

Photo 1: Regular site inspection carried out with contractor on 17 April 2024.

Environmental Measure Implemented:

Photo 2: Power Mechanical Equipment with Quality Power Mechanical Equipment (QPME) labels were used at site to lower the noise nuisance to the nearby residents.

Photo 3: Subcontractors had been reminded to observe the Construction Noise Permit for working in holiday during regular subcontractor meetings.



協興工程有限公司
HIP HING ENGINEERING CO LTD
新創建集團成員 Member of NWS Holdings

備忘錄

致 : 各分判商 日 期 : 2024 年 1 月 10 日

由 : 鍾偉克 工程編號 : KT201901

地 盤 : 啟德體育園項目 檔案編號 : S30524/KT201901-Y03/WKC/SYY

有關北區建築噪音許可證更新事宜

環境保護署已於 2024 年 01 月 05 日更新北區建築噪音許可證，並將於 2024 年 01 月 30 日晚 7 時正起生效，有效至 2024 年 04 月 29 日晚上 12 時正。現特意提醒 貴司必須嚴格遵守有關要求，尤其注意必須遵守機動設備之組合以及許可建築工程所包括之範圍（詳見附件），請 貴司務必注意以下特別要求：

1. 按建築噪音許可證之要求，在**公眾假日(包括星期日)**時，認可之機動設備起動時間為**早上 9 點開始至晚上 11 點**。
2. **公眾假日以外的日子**，認可之機動設備起動時間**維持不變**(即由下午 7 點至晚上 11 點)。

我司以隨本函附上最新建築噪音許可證以供參考，請 貴司務必了解許可證之要求，並提醒所有工地人員切實遵守《噪音管制條例》，並確保進行的工序、所使用機動設備類形、數量及其使用位置符合建築噪音許可證內的條款。根據分判合約，在分判合約有效期間，政府所修定之新法例及分判合約所遺漏並已實行之法例，分判商亦須一律遵守。如有違反相關條例而導致總承建商遭受檢控或導致任何損失，一切費用及罰款將由分判商承擔。如我司發現 貴司有違規情況，將不作另外警告而嚴懲不懈，敬希注意。

協興工程有限公司

鍾偉克
助理總經理(建造工程)

附件：北區建築噪音許可證 (GW-RE1677-23)

副本抄送：工程項目經理/ 工地總管/ 環保部/ 工料測量部

WKC/SYY/wms

香港九龍灣宏開道八號其士商業中心十一樓 11/F Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong
電話 Tel: (852) 2525 9251 傳真 Fax: (852) 2845 9295 電郵 Email: email@hiphing.com.hk 網址 Website: www.hiphing.com.hk

Photo 4: A memo to all subcontractors has been issued in Jan 2024 with the latest Construction Noise Permit attached.

協興建築
HIP HING CONSTRUCTION GROUP
新創建集團成員 Member of NWS Holdings

假日工作許可證 – 申請表格

第一部份: 工地假日施工資料 [1]

工地名稱: 啟德體育園　　工地編號: KT201901

申請假日施工日期: 2024 年 4 月 14 日　　☑ 持有有效的建築噪音許可證 (North: GW-RE1677-23; South: GW-RE0311-24)

公司名稱	行業	員工人數	施工理由、工程性質 及 施工位置(例如:樓層或座數)	符合法例及建築噪音許可證內條款要求 (由註工地環境工程師填寫)	
協興	總承建商	35	監工	☑是	☐否
駿峰	裝修	34	裝修及木器	☑是	☐否
震昇	泥井	9	工地整理	☑是	☐否
東方	機房	5	供電、入油	☑是	☐否
登基	雲石	8	掛石	☑是	☐否
鄭文記	地台墊層	4	整地台油	☑是	☐否
萬利寶	地台	3	砌磚	☑是	☐否
中興	鐵器	12	物料安裝	☑是	☐否
KPA	鐵器	64	物料安裝	☑是	☐否
鼎豐	天幕	10	ETFE工程	☑是	☐否
遠東	幕牆	44	物料安裝	☑是	☐否
威安(東區)	電氣	79	喉管、開槽安裝	☑是	☐否
永興	裝修	62	木工、油漆	☑是	☐否
俊業	裝修	92	木工、油漆、鐵器	☑是	☐否
登基	地台	26	鋪地台石	☑是	☐否
ICGL	玻璃	13	物料安裝	☑是	☐否
國利信	泥水	24	泥水工程	☑是	☐否
銳興	什項	400	清場	☑是	☐否
天和	紮鐵	29	紮鐵	☑是	☐否
				☐是	☐否
				☐是	☐否

特殊情況:
工地未能安排一位助理項目經理 / 助理工地總管或以上職級的同事在假日施工當日當值，現指派右方同事當值並監督工程進行，原因如下。　: ________ (職位:)
________ (職位:)
[此情況須交董事(營運) 作最後審批 [3]]
☐ 只有一名上述職位之員工
☐ 沒有上述職位之員工

項目經理或工地總管簽署 : (姓名: Jackson Lau)
日期: 12 / 4 / 2024

環境工程師簽署 : (姓名: Gary Yim)
日期: 12 / 4 / 2024

生效日期: 2023 年 4 月 25 日　　ENV/PRO01/01 Revision: 7

Photo 5: Permit to work checking system has been implemented for construction works at public holiday.

FORM 3 [reg.5(a)]
NOISE CONTROL ORDINANCE
(Chapter 400)
SECTION 8(9)

CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK

CONSTRUCTION NOISE PERMIT NO. GW-RE1677-23

To : HIP HING ENGINEERING COMPANY LIMITED

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of powered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of prescribed construction work, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence.

CONDITIONS

1. Construction site where the powered mechanical equipment and/or prescribed construction work may be employed :
   Full address : Construction site of Kai Tak Sports Park (North), Kai Tak, Kowloon.
   Lot No.: ---
   The site boundary, that is, the boundary of the area within which the powered mechanical equipment may be used and the prescribed construction work may be carried out is delineated on the attached plan which forms part of this construction noise permit.

2. * ~~PART~~/WHOLE of the site falls * ~~WITHIN~~/OUTSIDE a designated area.

3. Powered Mechanical Equipment

   a. Items of powered mechanical equipment which may be used inside the site boundary :

Identification code of item of powered mechanical equipment (if applicable)	*Description of item of powered mechanical equipment*	*No. of units*
	Refer to attached sheet	

   b. Validity of the construction noise permit for the use of the powered mechanical equipment:
   Date and time of commencement : 30 January 2024 at 0000 hours
   Days and hours : 0000-2400 hours on general holiday (including Sunday), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday [but note condition 3.d.1. below for the operating hours within which the use of the above listed powered mechanical equipment is allowed].
   This part of the permit expires on : 29 April 2024 at 2400 hours

   c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit is required to be kept on the construction site and made available for inspection by the Authority.

   d. Other conditions imposed on the use of the powered mechanical equipment:
   Refer to attached sheet.

EPD76A(s) - 1 -

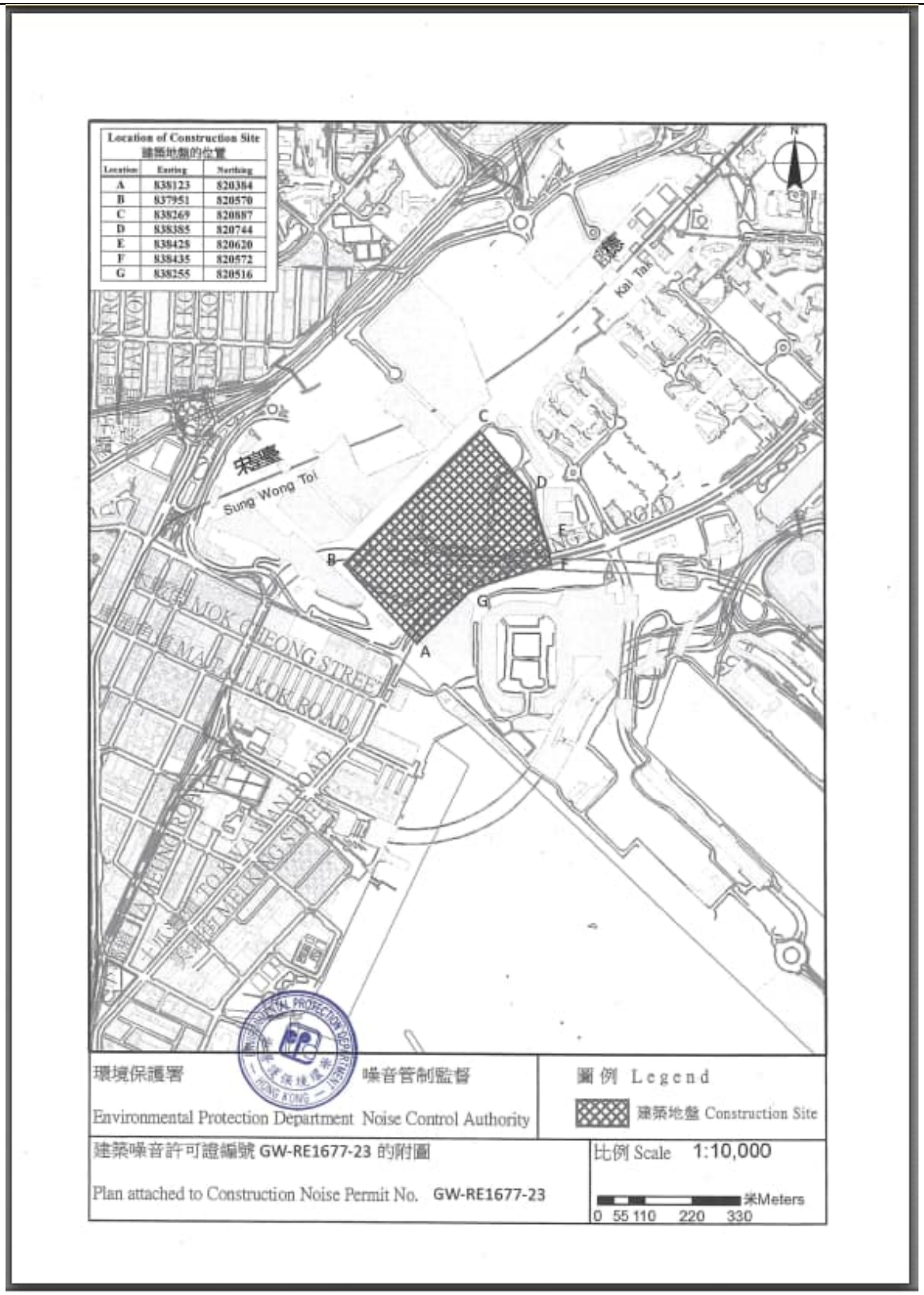


Photo 6a and 6b: Record of Construction Noise Permit - GW-RE1677-23

Complaint Investigation Report

RECEIPT OF COMPLAINT			**Ref: COM_0037**
Date:	14 June 2024		
Time:	14:26		
From:	Public complaint referred by EPD		
Via:	email by contractor representative		
Contact no.:	-		
COMPLAINANT			
Name:	-	Address:	-
Contact no.:	-		
DETAILS OF COMPLAINT			
Date:	3 June 2024		
Time:	-		
Parameter:*	~~Dust~~ ~~Noise~~ ~~Water~~ Other (Light):		
Description:			
- Complaint of light nuisance from the construction site Kai Tak Sports Park			
- Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.			
INVESTIGATION RESULT & RESPONSE			
ET, IEC and SOR notified on:	14 June 2024		
Investigation conducted on:	17 June 2024		

Result of investigation:

Complaint investigation was carried out with the contractor on 17 June 2024, the results of investigation were summarized as following:

According to the information from contractor, night time light testing was carried out between 7:00 p.m. and 11:00 p.m. in June 2024. Environmental mitigation measures were generally implemented during the time of inspection. All construction works carried out on site have strictly followed the relevant environmental guideline and legislation requirement.

Regular environmental mitigation measure had been implemented to prevent possible environmental nuisance included:

1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. (Photo 1)
2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park. (Photo 2)
3. Spot lights are adjusted to control lighting direction away from nearby residential. (Photo 3a and 3b)

In conclusion, light control mitigation measures at the Kai Tak Sports Park have been implemented and maintained. All construction works carried out to minimise the environmental nuisance during the concerned period.

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS			
Environmental mitigation measures have been maintained as follow: 1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. (Photo 1) 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park. (Photo 2) 3. Spot lights are adjusted to control lighting direction away from nearby residential. (Photo 3a and 3b) 4. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.			
Prepared by:	Sunny Chan	Title:	Environmental Team Leader
Signature:		Date:	19 June 2024

Attachment:
1. Photo Records of Environmental Measure Implemented
Photo Record:

Environmental Measure Implemented:

Photo 1: Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents.

協興工程有限公司
HIP HING ENGINEERING CO LTD
新創建集團成員 Member of NWS Holdings

Our Ref. No: S33294/KT201901-Y02/YTH/SYY

敬啟者:

啟德體育園項目

公眾運動場戶外照明系統測試通知

為確保啟德體育園項目的戶外照明系統符合國際標準和指引，適合舉辦不同的國際及本地體育賽事，啟德體育園的公眾運動場將於 2024 年 6 月起，於晚上 7 時至 11 時期間，進行約 31 個工作天的戶外照明系統測試。

戶外照明系統測試旨在確保照明系統的正常運作和安全性，並符合國際球場照明標準，能提升場地使用者，包括運動員、觀眾及公眾等的使用質素和體驗，以提供具國際水平的體育場地設施；若上述測試帶來任何不便，敬請見諒。如有任何查詢，歡迎致電項目工程熱線 5587 6112 與我們聯絡。

協興工程有限公司 謹啟

二零二四年五月十六日

To whom it may concern,

16th May, 2024

Kai Tak Sports Park (KTSP) Project

Notification of Public Sports Ground Outdoor Lighting System Tests

To ensure the outdoor lighting system of the Kai Tak Sports Park meets international standards for hosting international or local sports events, tests will be carried out from 7pm to 11pm at the Kai Tak Sports Park Public Sports for a period of some 31 working days, starting from June 2024.

By conducting the tests, we aim to ensure the proper functioning and safety of the lighting system, as well as compliance with international lighting standards for sports venues. This will enhance the quality and overall experience for venue users, including athletes, spectators, and the general public, and provide a world-class sports facility. We apologise for any inconvenience caused during the tests. Should you have any enquiries, please contact our project hotline at 5587 6112.

Yours faithfully,

Hip Hing Engineering Company Limited

Page 1 of 2

香港九龍海宏開道八號其士商業中心十一樓 11/F Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong
電話 Tel: (852) 2525 9251 傳真 Fax: (852) 2845 9295 電郵 Email: email@hiphing.com.hk 網址 Website: www.hiphing.com.hk

Photo 2: A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park.

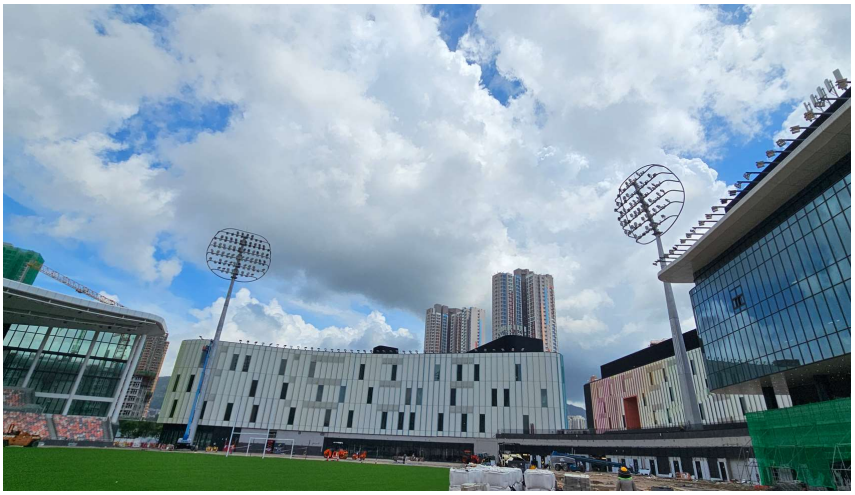


Photo 3a and 3b: Spot lights are adjusted to control lighting direction away from nearby residential.

Complaint Investigation Report

RECEIPT OF COMPLAINT			**Ref: COM_0038**
Date:	24 June 2024		
Time:	12:50		
From:	Public complaint referred by EPD		
Via:	email by contractor representative		
Contact no.:	-		
COMPLAINANT			
Name:	-	Address:	-
Contact no.:	-		
DETAILS OF COMPLAINT			
Date:	7 June 2024		
Time:	-		
Parameter:*	Dust ~~Noise~~ ~~Water~~ ~~Other (Specify):~~		

Description:

- Complaint of dust emission from the construction site Kai Tak Sports Park
- Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.

INVESTIGATION RESULT & RESPONSE

ET, IEC and SOR notified on: 24 June 2024

Investigation conducted on: 25 June 2024

Result of investigation:

Complaint investigation was carried out with the contractor on 25 June 2024, the results of investigation were summarized as following:

According to the information from contractor, regular site inspection was carried out on site to ensure covering of stockpile. (Photo 1) Regular site inspection at Kai Tak Sports Park was conducted on 25 June 2024. (Photo 1) Dust mitigation measures recommended in EIA's Mitigation Implementation Schedule were generally implemented during the time of inspection. No dust emission was observed.

Regular dust mitigation measure had been implemented to prevent possible environmental nuisance included:

1. Covering has been provided for stockpile on site. (Photo 2)
2. Water spraying truck has been provided on haul road to maintain wet surface. (Photo 3)
3. Water misting cannon has been provided for dust suppression on site. (Photo 4)

In conclusion, construction dust mitigation measures at the Kai Tak Sports Park have been implemented and maintained. All construction works carried out have been fulfilling the relevant environmental legislation and their subsidiary regulations during the concerned period.

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS			
Environmental mitigation measures have been maintained as follow: 1. Covering has been provided for stockpile on site. (Photo 2) 2. Water spraying truck has been provided on haul road to maintain wet surface. (Photo 3) 3. Water misting cannon has been provided for dust suppression on site. (Photo 4) 4. Implementation of construction dust mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule.			
Prepared by:	Sunny Chan	Title:	Environmental Team Leader
Signature:		Date:	26 June 2024

Attachment:
1. Photo Records of Environmental Measure Implemented
Photo Record:

Environmental Measure Implemented:

Photo 1: Regular site inspection carried out for checking dust mitigation measure on site. (25 June 2024)

Photo 2: Covering sheet has been provided for stockpile on site.

Photo 2: Water spraying truck has been provided on haul road to maintain wet surface.

Photo 4: Water misting cannon has been provided for dust suppression on site.

Complaint Investigation Report

RECEIPT OF COMPLAINT			**Ref: COM_0039**
Date:	24 June 2024		
Time:	12:50		
From:	Public complaint referred by EPD		
Via:	email by contractor representative		
Contact no.:	-		
COMPLAINANT			
Name:	-	Address:	-
Contact no.:	-		
DETAILS OF COMPLAINT			
Date:	20 June 2024		
Time:	-		
Parameter:*	~~Dust~~ ~~Noise~~ ~~Water~~ Other (Light)		
Description:			
- Complaint of light nuisance from the construction site Kai Tak Sports Park.			
- Please be advised to implement practicable mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.			
INVESTIGATION RESULT & RESPONSE			
ET, IEC and SOR notified on:	24 June 2024		
Investigation conducted on:	25 June 2024		

Result of investigation:

Complaint investigation was carried out with the contractor on 25 June 2024, the results of investigation were summarized as following:

According to the information from contractor, night time light testing was carried out at Public Sports Ground (PSG) between 7:00 p.m. and 11:00 p.m. in June 2024. Environmental mitigation measures were generally implemented during the time of inspection. All construction works carried out on site have strictly followed the relevant environmental guideline and legislation requirement.

Regular environmental mitigation measure had been implemented to prevent possible environmental nuisance included:

1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. (Photo 1)
2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park Public Sports Ground. (Photo 2a and 2b)
3. Spot lights are adjusted to control lighting direction away from nearby residential. (Photo 3a and 3b)
4. "Guidelines on Industry Best Practices for External Lighting Installations" had been provided to subcontractor for reminder. (Photo 4a and 4b)

In conclusion, light control mitigation measures at the Kai Tak Sports Park have been implemented and maintained. All construction works carried out to minimise the environmental nuisance during the concerned period.

RECOMMENDATIONS / MITIGATION MEASURES / ACTIONS			
Environmental mitigation measures have been maintained as follow: 1. Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents. (Photo 1) 2. A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park Public Sports Ground. (Photo 2a and 2b) 3. Spot lights are adjusted to control lighting direction away from nearby residential. (Photo 3a and 3b) 4. "Guidelines on Industry Best Practices for External Lighting Installations" has been provided to subcontractor for reminder. (Photo 4a and 4b) 5. Implementation of potential glare and light control mitigation measures recommended in EIA's Environmental Mitigation Implementation Schedule and Landscape and Visual Mitigation Plan.			
Prepared by:	Sunny Chan	Title:	Environmental Team Leader
Signature:		Date:	2 July 2024

Attachment:
1. Photo Records of Environmental Measure Implemented
Photo Record:

Environmental Measure Implemented:

Photo 1: Subcontractors had been reminded to finish the light testing at night as early as possible to minimize the nuisance to the residents.

協興工程有限公司
HIP HING ENGINEERING CO LTD
新創建集團成員 Member of NWS Holdings

Our Ref. No: S33294/KT201901-Y02/YTH/SYY

敬啟者:

啟德體育園項目

公眾運動場戶外照明系統測試通知

為確保啟德體育園項目的戶外照明系統符合國際標準和指引，適合舉辦不同的國際及本地體育賽事，啟德體育園的公眾運動場將於 2024 年 6 月起，於晚上 7 時至 11 時期間，進行約 31 個工作天的戶外照明系統測試。

戶外照明系統測試旨在確保照明系統的正常運作和安全性，並符合國際球場照明標準，能提升場地使用者，包括運動員、觀眾及公眾等的使用質素和體驗，以提供具國際水平的體育場地設施；若上述測試帶來任何不便，敬請見諒。如有任何查詢，歡迎致電項目工程熱線 5587 6112 與我們聯絡。

協興工程有限公司 謹啟

二零二四年五月十六日

To whom it may concern,

16th May, 2024

Kai Tak Sports Park (KTSP) Project

Notification of Public Sports Ground Outdoor Lighting System Tests

To ensure the outdoor lighting system of the Kai Tak Sports Park meets international standards for hosting international or local sports events, tests will be carried out from 7pm to 11pm at the Kai Tak Sports Park Public Sports for a period of some 31 working days, starting from June 2024.

By conducting the tests, we aim to ensure the proper functioning and safety of the lighting system, as well as compliance with international lighting standards for sports venues. This will enhance the quality and overall experience for venue users, including athletes, spectators, and the general public, and provide a world-class sports facility. We apologise for any inconvenience caused during the tests. Should you have any enquiries, please contact our project hotline at 5587 6112.

Yours faithfully,

Hip Hing Engineering Company Limited

Page **1** of **2**

香港九龍海宏開道八號其士商業中心十一樓 11/F Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong
電話 Tel: (852) 2525 9251 傳真 Fax: (852) 2845 9295 電郵 Email: email@hiphing.com.hk 網址 Website: www.hiphing.com.hk

協興工程有限公司
HIP HING ENGINEERING CO LTD
新創建集團成員 Member of NWS Holdings

Our Ref. No: S33294/KT201901-Y02/YTH/SYY

附圖 (Attachment)

Page 2 of 2

香港九龍灣宏開道八號其士商業中心十一樓 11/F Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong
電話 Tel: (852) 2525 9251 傳真 Fax: (852) 2845 9295 電郵 Email: email@hiphing.com.hk 網址 Website: www.hiphing.com.hk

Photo 2a and 2b : A memo to nearby residents has been issued in May 2024 to notify the light tests in Kai Tak Sports Park Public Sports Ground.

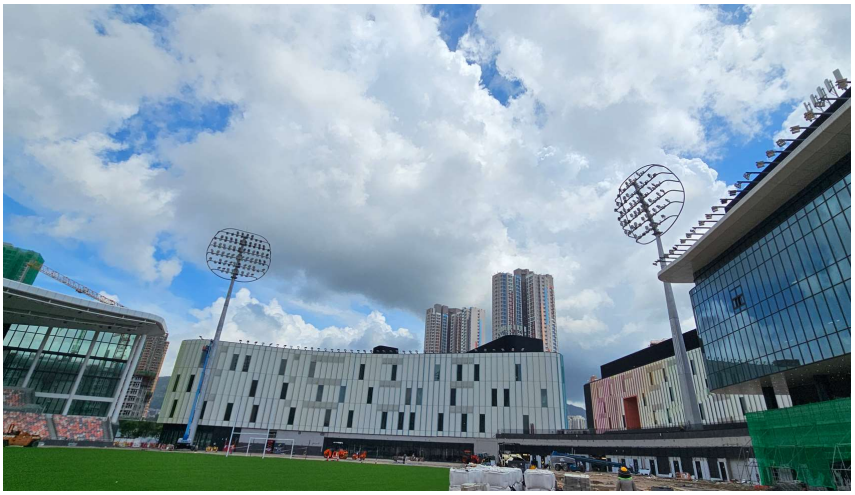
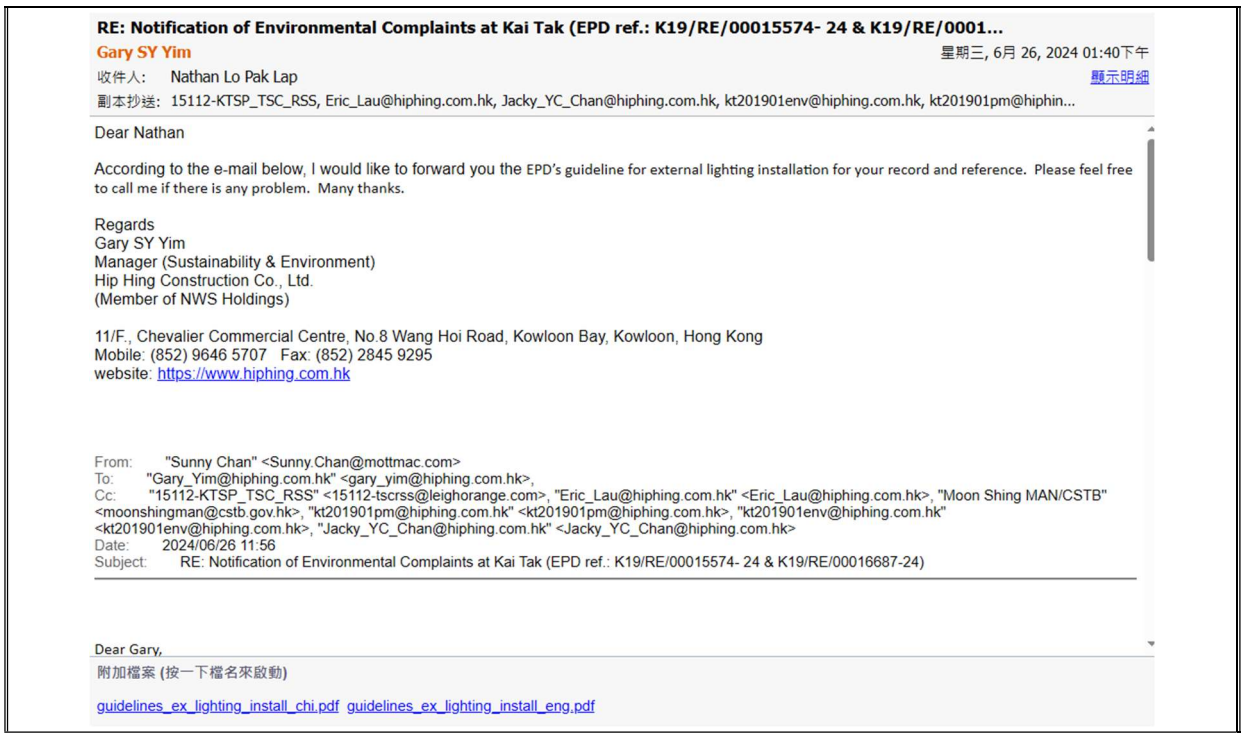


Photo 3a and 3b: Spot lights are adjusted to control lighting direction away from nearby residential.



RE: Notification of Environmental Complaints at Kai Tak (EPD ref.: K19/RE/00015574- 24 & K19/RE/0001...

Gary SY Yim 星期三, 6月 26, 2024 01:40下午

收件人: Nathan Lo Pak Lap 顯示明細

副本抄送: 15112-KTSP_TSC_RSS, Eric_Lau@hiphing.com.hk, Jacky_YC_Chan@hiphing.com.hk, kt201901env@hiphing.com.hk, kt201901pm@hiphin...

Dear Nathan

According to the e-mail below, I would like to forward you the EPD's guideline for external lighting installation for your record and reference. Please feel free to call me if there is any problem. Many thanks.

Regards
Gary SY Yim
Manager (Sustainability & Environment)
Hip Hing Construction Co., Ltd.
(Member of NWS Holdings)

11/F., Chevalier Commercial Centre, No.8 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong
Mobile: (852) 9646 5707 Fax: (852) 2845 9295
website: https://www.hiphing.com.hk

From: "Sunny Chan" <Sunny.Chan@mottmac.com>
To: "Gary_Yim@hiphing.com.hk" <gary_yim@hiphing.com.hk>,
Cc: "15112-KTSP_TSC_RSS" <15112-tscrss@leighorange.com>, "Eric_Lau@hiphing.com.hk" <Eric_Lau@hiphing.com.hk>, "Moon Shing MAN/CSTB" <moonshingman@cstb.gov.hk>, "kt201901pm@hiphing.com.hk" <kt201901pm@hiphing.com.hk>, "kt201901env@hiphing.com.hk" <kt201901env@hiphing.com.hk>, "Jacky_YC_Chan@hiphing.com.hk" <Jacky_YC_Chan@hiphing.com.hk>
Date: 2024/06/26 11:56
Subject: RE: Notification of Environmental Complaints at Kai Tak (EPD ref.: K19/RE/00015574- 24 & K19/RE/00016687-24)

Dear Gary,

附加檔案 (按一下檔名來啟動)

guidelines_ex_lighting_install_chi.pdf guidelines_ex_lighting_install_eng.pdf

《戶外燈光裝置業界良好作業指引》

本指引建議政府部門和私人機構在處理戶外燈光裝置事宜時應參考之良好作業指引。

簡介

1. 香港有不同類型的戶外燈光裝置，當中一些典型的例子包括標誌/招牌(內部照亮或外部照亮模式)、建築物外牆和特徵照明、建築物外圍的燈光(包括店舖門面燈光)、運動場地和遊樂場地的燈光，和戶外影視設施(如影視幕牆及顯示屏)。

2. 本指引的目的是概述在戶外燈光裝置設計、安裝和運作等方面一般的良好作業指引，供照明設計師、承辦商、裝置擁有人和用戶作參考，以減低戶外燈光裝置帶來的不良影響。

3. 本指引並不適用於由路政署負責的路燈，有關路燈須遵守路政署所出版的《公共照明設施設計手冊》。此外，本指引並不適用於由運輸署管理而具備燈光裝置的交通燈號、可變信息標誌，以及其他交通/運輸設施。該些燈光裝置須遵守相關的交通規例或運輸署出版的設計指南。

4. 為方便參閱，本文件內的各項指引會按以下標題分類：燈光裝置的操作時段、燈光裝置的自動控制、光滋擾控制措施、能源效益措施、燈光裝置項目設計規劃、預防眩光影響道路使用者，及廣告招牌。

5. 本文件並非詳盡無遺。如有需要，應向適當的專業人士如照

1

Photo 4a and 4b: "Guidelines on Industry Best Practices for External Lighting Installations" has been sent to subcontractor for reminder.