MOTT MACDONALD

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

Monthly EM&A Report for July 2024

August 2024

Culture, Sports and Tourism Bureau

Culture, Sports and Tourism
Bureau & Recreation Branch
Kai Tak Sports Park Section
Room 2307-2310, 23/F, Skyline
Tower, 39 Wang Kwong Road,
Kowloon Bay Kai Tak, Kowloon

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

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August 2024

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

Culture, Sports and Tourism Bureau

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:	Monthly EM&A Report No. 64 (July 2024)
Date of Report:	13 August 2024
Date received by IEC:	13 August 2024

Reference EP Condition

Environmental Permit Condition: 3.4

Three hard copies and one electronic copy of the monthly EM&A Report shall be submitted to the Director within 10 working days after the end of each reporting month. The monthly EM&A Reports shall include a summary of all non-compliance with the recommendations in the approved EIA Report (Register No. AEIAR–204/2017) or this Permit. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of submission shall be provided upon request by the Director.

IEC Verification

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

Ms Mandy To

Independent Environmental Checker

Date: 13 August 2024

Our ref: 0500384_IEC Verification Cert_KTSP_Monthly EM&A Rpt No.64.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

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ETL Certification

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

Sunny Chan

Mr Sunny Chan
Environmental Team Leader Date: 13 August 2024

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Executive summary

The Project – hereby meaning the Designated Project (Items O.6 and O.7 Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO)), comprising the "Kai Tak Sports Park" (KTSP) project and the Hotel and Office (H/O) Development of NKIL 6607 adjoining the KTSP – is located in the Kai Tak Development (KTD) area in Kowloon.

An EIA Report for the Project (Register No. AEIAR-204/2017) was approved by the Environmental Protection Department (EPD) on 6 January 2017. The current Environmental Permit (EP) for the Project, namely No. EP-544/2017, was issued on 8 September 2017. These documents are available through the EIA Ordinance Register. The Project construction works commenced on 8 April 2019.

In February 2019, Mott MacDonald Hong Kong Limited was appointed by the Home Affairs Bureau (HAB), as the Environmental Team (ET) to implement the Environmental Monitoring & Audit (EM&A) programme for the construction phase and first year of operation of the Project in accordance with the approved EM&A Manual.

In July 2022, Home Affairs Bureau (HAB) has been reorganized as Culture, Sports and Tourism Bureau (CSTB).

This is the 64th Monthly EM&A Report for the construction phase of the Project which summaries findings of the EM&A programme during the reporting period from 1 to 31 July 2024.

Key Construction Works in the Reporting Period

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

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and
- Landscape work.

H/O Development

- Excavation;
- Concreting; and
- Landscape work.

Environmental Monitoring and Audit Progress

The monthly EM&A programme was undertaken by ET in accordance with the approved EM&A Manual. A summary of the monitoring activities during the reporting period is presented below:

Activity	Monitoring Locations	Date
Air Quality Monitoring (1-hour TSP)	AMS1-T, AMS2, AMS4	4, 10, 16, 22, 26 Jul 2024
Noise Monitoring ($L_{eq\ (30\ min)}$)	NMS1-T, NMS2, NMS4	4, 10, 16, 22 Jul 2024
Weekly environmental site inspections	-	3, 10, 17, 23, 31 Jul 2024
Landscape and visual site inspections	-	10, 23 Jul 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 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. The details of temporary monitoring station are described in Section 2 and Section 3 respectively.

Breaches of Action and Limit Levels

Air Quality

There was no breach of Action or Limit Levels for air quality (1-hr TSP) during the reporting month.

Noise

There was no breach of Action or Limit Levels for noise levels during the reporting month.

Complaint Log

There was one complaint in relation to the environmental impact received during the reporting month.

Summary of Complaints in the Reporting Month

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
22 Jul 2024	12 Jul 2024	- Complaint of light nuisance from the construction site Kai Tak Sports Park - Please be advised to implement practicable	1. Subcontractors had been reminded to finish the light testing at night by 22:30 and completely switch off all external sports light by 23:00.	29 Jul 2024

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
		mitigation measures at your construction site to minimize the environmental nuisance arising from the construction work.	2. An updated memo to nearby residents will be issued to notify the light tests schedule 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.	

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.

Future Key Issues

The future key issues to be undertaken in the upcoming month are:

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and
- Landscape work.

H/O Development

- Concreting; and
- Landscape work.

1 Introduction

1.1 Background

The Project – hereby meaning the Designated Project (Items O.6 and O.7 Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO)), comprising the "Kai Tak Sports Park" (KTSP) project and the Hotel and Office (H/O) Development of NKIL 6607 adjoining the KTSP – is located in the Kai Tak Development (KTD) area in Kowloon.

The key construction works of the Project include:

(i) KTSP project

a. a multi-purpose Main Stadium with a spectator capacity of around 50,000;
b. a Public Sports Ground, with a spectator capacity of around 5,000;
c. an Indoor Sports Centre with a multi-purpose main arena with a seating capacity of up to 10,000 and an ancillary sports hall with a seating capacity of 500;
d. retail and dining outlets with a gross floor area (GFA) of about 57,000 square metres (m^2), a bowling centre with 40 lanes and a health and wellness centre with about 2,500 m^2 GFA;
e. more than 8 hectares of public open space including landscaped deck structures across Shing Kai Road, passive amenities and park features, outdoor ball courts; and
f. ancillary facilities such as car parks, toilets, changing rooms, etc.

(ii) H/O Development

g. an office development;
h. a 300-room hotel with a GFA of about 16,000 m^2; and
i. ancillary facilities such as retails, car parks, etc.

In February 2019, Mott MacDonald Hong Kong Limited (MMHK) was commissioned by the Home Affairs Bureau (HAB) under Agreement No. CE 30/2018 (EP) to undertake the Environmental Team (ET) services for carrying out the Environmental Monitoring & Audit (EM&A) programme during the construction phase and first year of operation of the Project in accordance with the approved Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-204/2017), EM&A Manual (including any subsequent amendments) and EP (including any subsequent variations of it and/or any further environmental permit issued under the EIAO). The current EP (No. EP-544/2017) was issued by EPD on 8 September 2017.

In July 2022, Home Affairs Bureau (HAB) has been reorganized as Culture, Sports and Tourism Bureau (CSTB).

This is the 64th Monthly EM&A Report summarising the key findings of the construction phase EM&A programme from 1 to 31 July 2024 (the "reporting period") and is submitted to fulfil Condition 3.4 of the EP.

1.2 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 (Culture, Sports and Tourism 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	9671 9952	-
24-hour Community Liaison Hotline	-	-	5587 6112	-

1.3 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**.

1.4 Construction Works undertaken during the Reporting Period

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

KTSP

- Mobilization and lifting;
- Concreting;
- Excavation; and
- Landscape work.

H/O Development

- Excavation;
- Concreting; and
- Landscape work.

2 Air Quality Monitoring

2.1 Introduction

In accordance with the EM&A Manual of the Project, baseline 1-hour Total Suspended Particulates (TSP) levels at air quality monitoring stations AMS1 and AMS2 were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days.

2.2 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 Monitoring Locations

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

Table 2.2 describes the impact air quality monitoring stations and **Figure 2.1** shows their locations.

Table 2.2: Construction Dust Monitoring Locations

Monitoring Station	Location	Status
AMS1	Hong Kong Society for the Blind Workshop, Roof Floor	Existing Air Sensitive Receiver (not accessible from 1 September 2022)
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 locations AMS2 and AMS4 were set up at the proposed locations for impact monitoring.

Permission on setting up and carrying out impact monitoring works at AMS3 and AMS5 will be sought once each respective development is completed and occupied.

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 during the reporting period. Details of temporary alternative monitoring location was 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 2.3** and the location of temporary monitoring station is shown in **Figure 2.1**.

Table 2.3: 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

During the reporting period, it is noted that the temporary monitoring station AMS1-T, Kowloon Animal Management Centre, will be relocated from 29 July 2024. An alternative monitoring location was proposed by ET and pending approval.

2.4 Monitoring Action and Limit Levels

The Action and Limit Levels for 1-hr TSP are provided in **Table 2.4**.

Table 2.4: 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**.

If exceedance(s) at these stations is/are recorded by the ET of the Project, it will carry out an investigation and findings will be reported in the monthly EM&A Report.

2.5 Monitoring Schedule for the Reporting Period

The schedule for air quality monitoring at AMS1-T, AMS2 and AMS4 in the reporting period is presented in **Appendix E**.

2.6 Monitoring Equipment

Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. The brand(s) and model(s) of the equipment used for air quality monitoring stations AMS1-T, AMS2 and AMS4 under this Project are given in **Table 2.5**.

Table 2.5: 1-hour TSP Monitoring Equipment

Equipment	Brand	Model No.
Portable direct reading dust meter	Sibata Digital Dust Monitor	LD-3B (S/N: 235780, 235786, 6Z7784)

2.7 Monitoring Methodology

Field Monitoring

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

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

Maintenance and Calibration

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

2.8 Monitoring Results

The monitoring results for 1-hour TSP at AMS1-T, AMS2 and AMS4 are summarized in **Table 2.6**. Detailed impact air quality monitoring results are presented in **Appendix G**.

Table 2.6: Summary of 1-hour TSP Monitoring Results During the Reporting Period

Monitoring Station	Average, µg/m^3	Min, µg/m^3	Max, µg/m^3	Action Level, µg/m^3	Limit Level, µg/m^3
AMS1-T	35	24	45	283	500
AMS2	27	21	35	280	500
AMS4	26	18	31	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.

2.9 Wind Data

Wind data at Kai Tak automatic weather station collected from the Hong Kong Observatory (HKO) were used for the air quality monitoring and they are shown in **Appendix H**. 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 proposed use of the existing wind data from Kai Tak automatic weather station collected from HKO for wind data collection instead of setting up wind monitoring equipment near the monitoring stations was proposed by ET and agreed by IEC in accordance with the requirements as stated in Section 3.4.7 of the EM&A Manual of the Project.

3 Noise Monitoring

3.1 Introduction

In accordance with the EM&A Manual, impact noise monitoring was conducted at least once per week for each noise monitoring location during the construction phase of the Project.

3.2 Monitoring Parameters, Frequency and Duration

Table 3.1 summarises the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.1: 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

3.3 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 are planned residential use (NMS1A, NMS2A, NMS3 and NMS5). **Table 3.2** describes the details of the monitoring stations and **Figure 3.1** shows the locations of noise monitoring stations.

Table 3.2: Construction Noise Monitoring Locations

Monitoring Station	Location Description	Status
NMS1	Hong Kong Society for the Blind Workshop, Roof Floor	Existing Noise Sensitive Receiver (not accessible from 1 September 2022)
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 locations NMS2 and NMS4 were set up at the proposed locations for impact monitoring.

Since NMS1A & NMS2A are planned (i.e. not existing) noise sensitive receivers, noise monitoring should be carried out initially at NMS1 and NMS2 respectively before the population intake of the planned developments. Once the planned developments are completed and occupied, NMS1A shall replace NMS1, while NMS2A shall replace NMS2. It is proposed that

the baseline noise level and Limit Level at NMS1A and NMS2A will be the same as those derived from the baseline monitoring data recorded at NMS1 and NMS2 respectively.

Permission on setting up and carrying out impact monitoring works at NMS3 and NMS5 will be sought once each respective development is completed and occupied.

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 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. The details of temporary monitoring station are described in **Table 3.3** and the location of noise monitoring station is shown in **Figure 3.1**

Table 3.3: 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	Exiting Noise Sensitive Receiver	Façade

During the reporting period, it is noted that the temporary monitoring station NMS1-T, Kowloon Animal Management Centre, will be relocated from 29 July 2024. An alternative monitoring location was proposed by ET and pending approval.

3.4 Action and Limit Levels

The Action and Limit Levels for construction noise are defined in **Table 3.4**.

Table 3.4: Action and Limit Level for Construction Noise

Monitoring Station	Time Period	Action Level	Limit Level
NMS1-T 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**.

If exceedance(s) at these stations is/are recorded by the ET of the Project, it will carry out an investigation and findings will be reported in the monthly EM&A Report.

3.5 Monitoring Schedule for the Reporting Period

The schedule for noise monitoring in the reporting period is presented in **Appendix E**.

3.6 Monitoring Equipment

Noise monitoring was performed using sound level meters at each designed monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment used for noise monitoring under this Project is given in **Table 3.5**

Table 3.5: Noise Monitoring Equipment

Equipment	Brand	Model No.
Integrated Sound Level Meter	Rion	NL-52 (S/N 00175561)
Acoustic Calibrator	LARSON DAVIS	CAL200 (S/N 11334)

3.7 Monitoring Methodology

- Façade and Free Field measurements were made at the monitoring locations.
- For Façade measurement, the microphone head of the sound level meter was positioned 1m exterior of the noise sensitive façade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
- For free field, the microphone of the Sound Level Meter was set at least 1.2 m above the ground.
- A correction of +3dB(A) was made for free field measurement.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting: A
  - time weighting: Fast
  - time measurement: 30-minute intervals (between 0700-1900 on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1 kHz. If the difference in the calibration level before and after measurement was more than 1 dB, the measurement would be considered invalid and repeated after the re-calibration or repair of the equipment.
- During the monitoring period, the L_{eq}, L_{10} and L_{90} were recorded. In addition, any site observations and noise sources were recorded on a standard record sheet.
- Noise measurements were not made in presence of fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s.

Maintenance and Calibration

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

3.8 Monitoring Results

The monitoring results for construction noise are summarized in **Table 3.6**. Detailed impact noise monitoring results and relevant graphical plots are presented in **Appendix G**.

Table 3.6: 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	71	75
NMS4	65	63	65	75

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

4 Environmental Site and Audit

4.1 Site Inspection

Site inspections were carried out by ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. Key observations were recorded in the site inspection checklist and passed to the Contracted Party together with the appropriate recommended mitigation measures where necessary. During the reporting period, site inspections were carried out on 3, 10, 17, 23 and 31 July 2024. Joint IEC site inspections were carried out on 23 and 31 July 2024.

Bi-weekly landscape and visual site audit was carried out on 10 and 23 July 2024. The landscape and visual audit have been audited by Registered Landscape Architect (RLA). No major observations of landscape and visual impact were identified. The result findings were summarised in **Appendix K.**

Key observations during the site inspections are described in **Table 4.1.**

Table 4.1: Summary of Site Inspections and Recommendations

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
Kai Tak Sports Park			
3 Jul 2024	Accumulation of stagnant water was observed at southern site.	The contractor was reminded to provide temporary water pump to clear stagnant water.	10 Jul 2024
3 Jul 2024	Damaged chemical containers without drip tray was observed at southern site.	The contractor was reminded to provide drip tray for the chemical container.	10 Jul 2024
10 Jul 2024	Chemical containers without drip tray was observed at northern site.	The contractor was reminded to provide drip tray for the chemical containers.	17 Jul 2024
10 Jul 2024	A skid steer loader with damaged NRMM label was observed at northern site.	The contractor was reminded to display new NRMM label on the skid steer loader.	17 Jul 2024
17 Jul 2024	Dry haul road was observed at southern site.	The contractor was reminded to provide water spraying to haul road to maintain wet surface.	23 Jul 2024
17 Jul 2024	Accumulation of general refuse on floor was observed at southern site.	The contractor was reminded to dispose of the general refuse properly.	23 Jul 2024
23 Jul 2024	Accumulation of stagnant water was observed at northern site.	The contractor was reminded to clear the stagnant water.	31 Jul 2024
23 Jul 2024	Damaged drip tray for chemical container was observed at northern site.	The contractor was remind to replace the drip tray for chemical container.	31 Jul 2024
31 Jul 2024	Accumulation of general refuse on ground was observed at southern site.	The contractor was reminded to clear the general refuse regularly.	7 Aug 2024

Inspection Date	Key Observations	Recommendations / Actions	Close-Out Date / Status
Hotel and Office Development			
3 Jul 2024	Nil	N/A	N/A
10 Jul 2024	Nil	N/A	N/A
17 Jul 2024	Nil	N/A	N/A
23 Jul 2024	Nil	N/A	N/A
31 Jul 2024	Nil	N/A	N/A

4.2 Advice on the Solid and Liquid Waste Management Status

KTSP

The Contracted Party was registered as a chemical waste producer for the Project. Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimise the disposal of C&D waste to public fill.

The Contracted Party was reminded to maintain on site waste sorting and recording system and maximize reuse / recycling of C&D wastes, whenever these are generated.

H/O Development

Construction and demolition (C&D) material sorting was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were designated for on temporary site storage and collected for the disposal to public fill.

The Contractor was reminded to maintain on site waste sorting and maximize reuse / recycling of C&D wastes, whenever these are generated.

The monthly summary of waste flow table is detailed in **Appendix I**.

4.3 Environmental Licenses and Permits

The valid environmental licenses and permits for the Project during the reporting period are summarized in **Appendix J**.

4.4 Implementation Status of Environmental Mitigation Measures

In response to the site audit findings, the Contracted Party carried out corrective actions.

A summary of the environmental mitigation measures implementation status is presented in **Appendix K**. Most of the necessary mitigation measures were implemented properly.

4.5 Summary of Exceedance of the Environmental Quality Performance Limit

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

No Action and Limit exceedances of for noise levels was recorded at NMS1-T, NMS2 and NMS4 during the reporting month.

4.6 Summary of Complaints, Notification of Summons and Successful Prosecution

Complaints

There was one complaint received in relation to the environmental impact during the reporting month.

Table 4.2: Summary of Complaints in the Reporting Month

Date of Notification from EPD	Date of Complaint	Description of Complaint	Recommendations / Actions	Close-Out Date / Status
22 Jul 2024	12 Jul 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 by 22:30 and completely switch off all external sports light by 23:00. 2. An updated memo to nearby residents will be issued to notify the light tests schedule 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.	29 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 L**.

5 Future Key Issues

5.1 Construction Programme for the Coming Months

As informed by the Contracted Party, the major construction activities for the next reporting period (August 2024) are summarized in **Table 5.1**.

Table 5.1: Construction Activities for the Next Reporting Period

Site Area	Description of Activities
• Kai Tak Sports Park	• Mobilization and lifting; • Concreting; • Excavation; • Landscape work
• Hotel and Office Development	• Concreting; and • Landscape Work.

The tentative schedule for weekly site inspection and monitoring for air quality and noise for the next reporting period is provided in **Appendix E**.

6 Conclusions

6.1 Conclusions

General

The construction works for the Project commenced on 8 April 2019.

The ET of the Project has implemented the air quality and noise environmental impact monitoring under the construction phase EM&A programme during the reporting period.

Breaches of Action and Limit Levels

Air Quality

No Action or Limit Level exceedances of 1-hour TSP level was recorded during the reporting period.

Noise

No Action or Limit Level exceedances for noise level was recorded during the reporting period.

Environmental Site Inspections

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

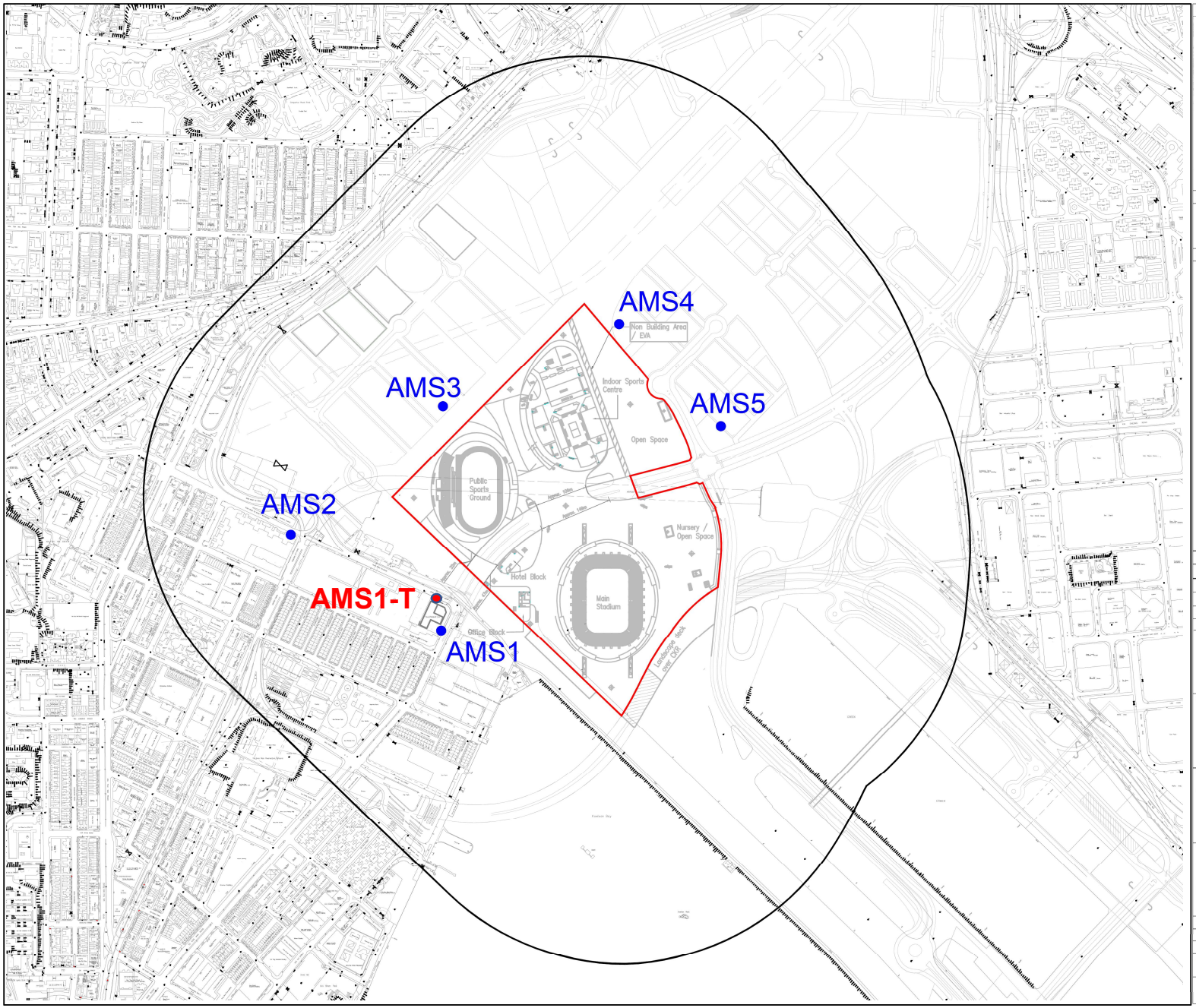
Complaints

There was one complaint received in relation to the environmental impact during the reporting period. Complaint investigation was 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

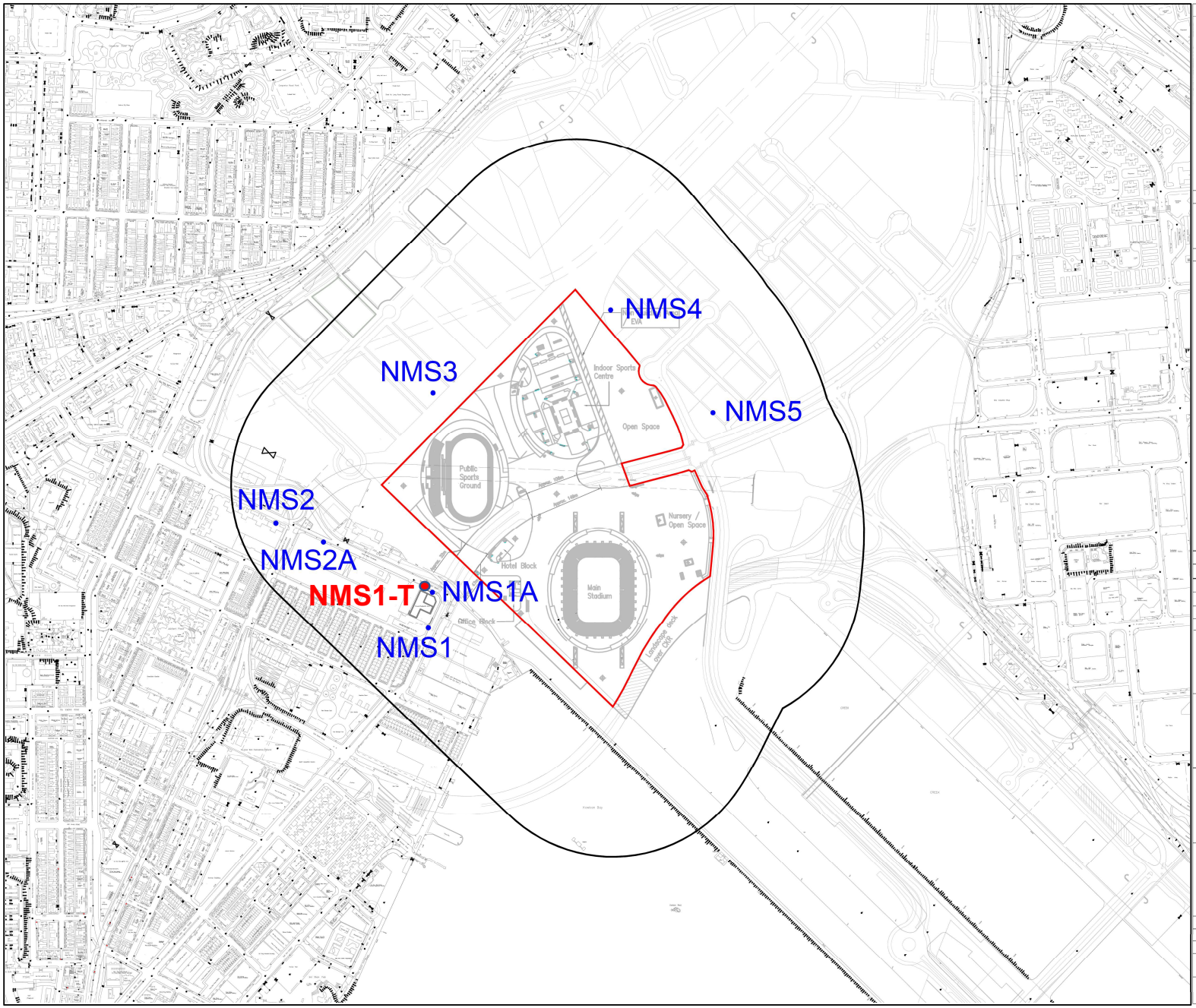
Project

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

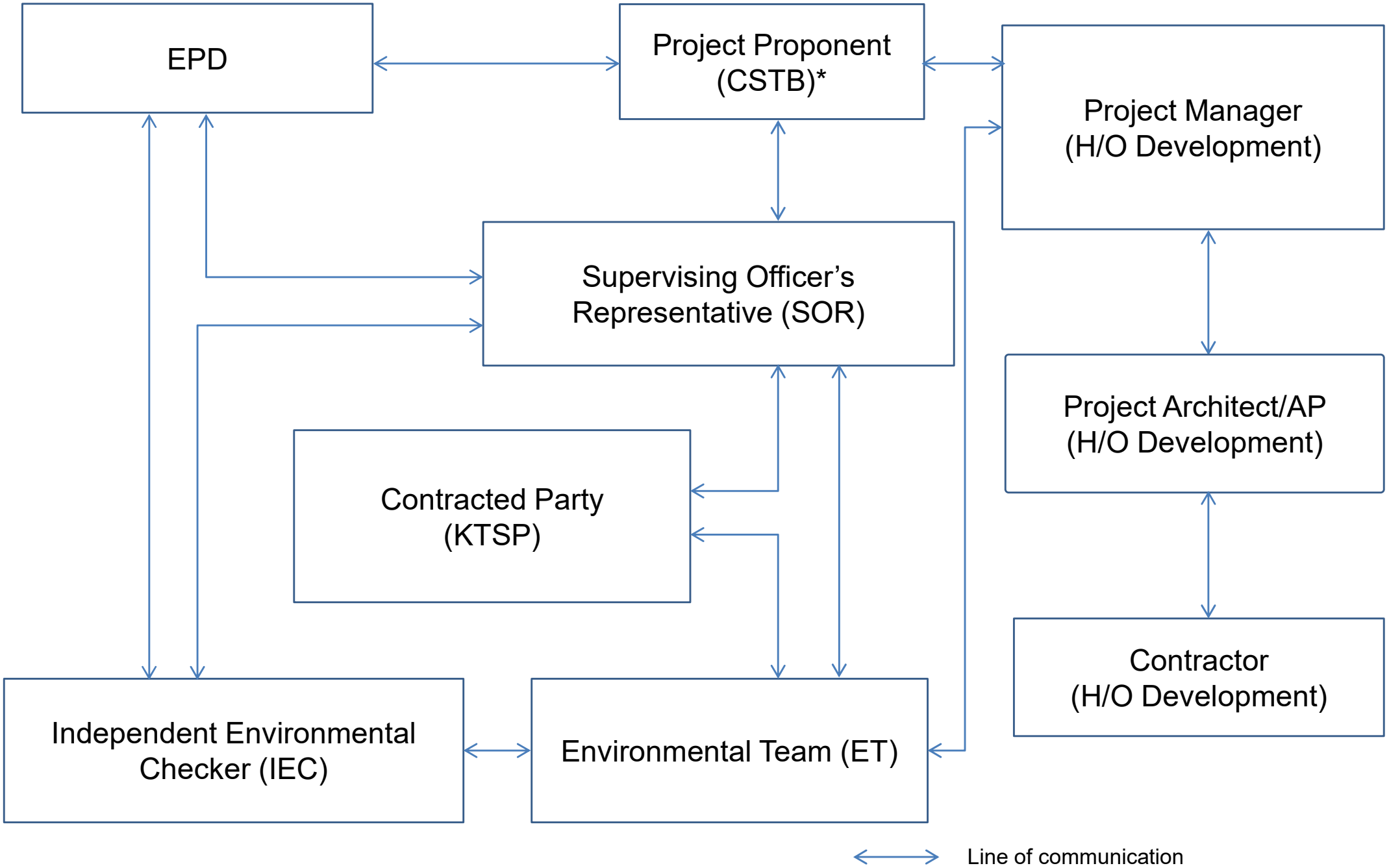
Figure 3.1
Location of Noise Monitoring Stations

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

Drawing Number

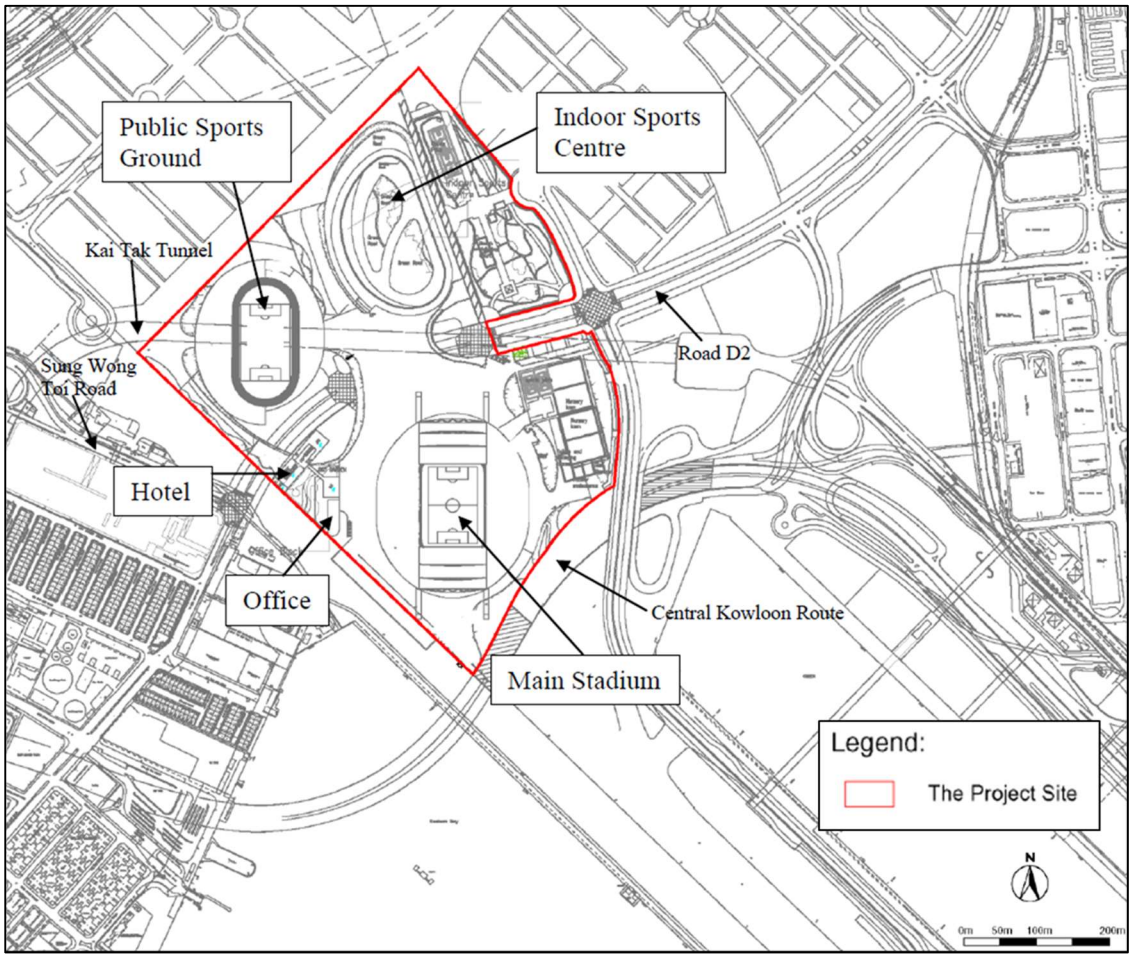
Appendix A. Project Organization for Environmental Works

Project Organisation for Environmental Works



** Home Affairs Bureau (HAB) reorganized as Culture, Sports and Tourism Bureau (CSTB) in July 2022*

Appendix B. Location of Works Areas



Appendix C. Construction Programme

Construction Programme (Jul 2024 to Oct 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												
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. Environmental Site Inspection and Monitoring Schedule

Table E.1: Site Inspection and Monitoring Schedule for July 2024

Impact Environmental Monitoring Schedule for July 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 Hong Kong Special Administrative Region Establishment Day	2	3 site inspection	4 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	5	6
7	8	9	10 site inspection landscape and visual audit AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	11	12	13
14	15	16 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	17 site inspection	18	19	20
21	22 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	23 site inspection landscape and visual audit	24	25	26 AMS1-T, AMS2, AMS4	27
28	29	30	31 site inspection			

Air Quality/Noise Monitoring

Remark: Joint site walk with IEC on 23 and 31 July 2024.

Table E.2: Tentative Site Inspection and Monitoring Schedule for August 2024

Tentative Impact Environmental Monitoring Schedule for August 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	2	3
4	5	6	7 site inspection landscape and visual audit AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	8	9	10
11	12	13 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	14 site inspection	15	16	17
18	19 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	20	21 site inspection landscape and visual audit	22	23 AMS1-T, AMS2, AMS4	24
25	26	27	28 site inspection	29 AMS1-T, AMS2, AMS4 NMS1-T, NMS2, NMS4	30	31

Air Quality/Noise Monitoring

Remark: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix F. Calibration Certificates

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

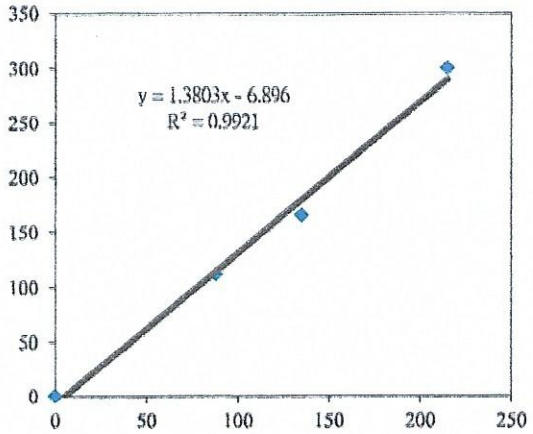
Equipment Verification Results:

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 F.F.Y Date: 15 December 2023

QC Reviewer: K.F.Ho Signature Fat 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	: 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

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

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
Mv Loft,
9 Hoi Wing Road,
Tuen Mun, H K.
Tel : 2460 8460
Fax : 2460 6553
E-mail: envirotech@pmagmail.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

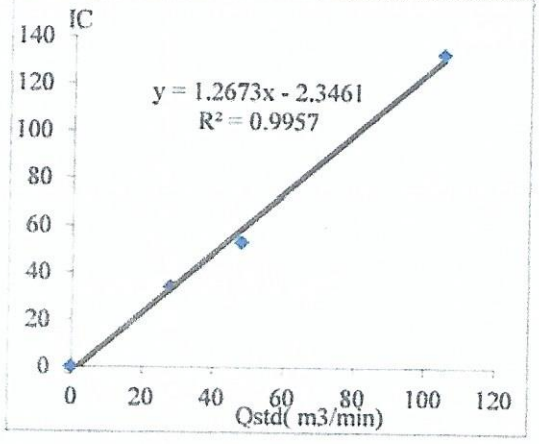
Equipment Verification Results:

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 Date: 19 May 2024

QC Reviewer: K.F.Ho 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	: 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

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 : 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 8460
Fax : 2660 8663
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

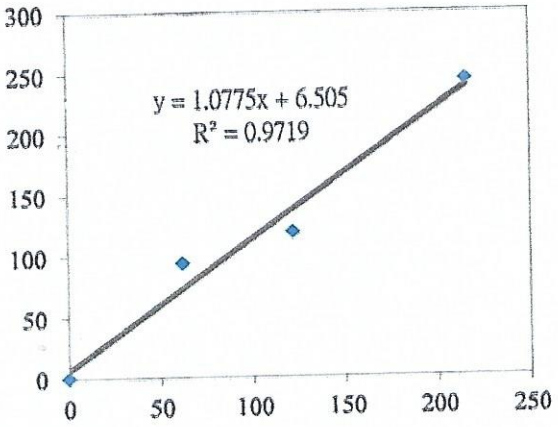
Equipment Verification Results:

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

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

Certificate of Calibration
校正證書

Certificate No. : C242738
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC24-0781) Date of Receipt / 收件日期 : 3 May 2024

Description / 儀器名稱 : Precision Acoustic Calibrator
Manufacturer / 製造商 : LARSON DAVIS
Model No. / 型號 : CAL200
Serial No. / 編號 : 11334
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 : 19 May 2024

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 or user's specified 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 : 20 May 2024

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

Certificate of Calibration
校正證書

Certificate No. : C242738
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	C241879

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	User's Limit (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.60	± 0.5	± 0.20
114 dB, 1 kHz	113.60		

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

Remarks : - The user's limit is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

- 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.

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 - 校正及檢測實驗所
c/o 香港新界屯門興安里一號四樓
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

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

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

Sun Creation Engineering Limited – Calibration & Testing Laboratory
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輝創工程有限公司 - 校正及檢測實驗所
c/o 香港新界屯門興安里 -號四樓
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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)

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.

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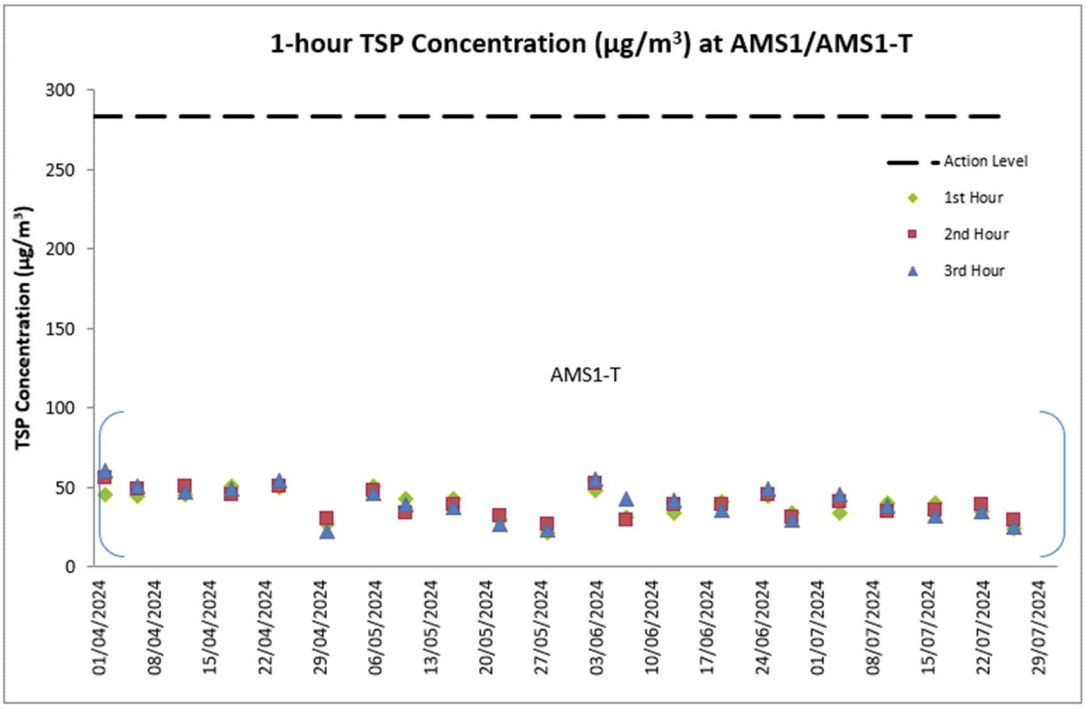
Appendix G. Monitoring Data and Graphical Plots (Air Quality and Noise)

Data for 1-hour TSP Monitoring at Station AMS1/AMS1-T during the Reporting Month

	Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
*	04-Jul-24	9:33	10:33	Fine	0.3	variable	34
*	04-Jul-24	10:33	11:33	Fine	1.9	133	41
*	04-Jul-24	11:33	12:33	Fine	2.2	154	45
*	10-Jul-24	9:31	10:31	Fine	0.8	287	40
*	10-Jul-24	10:31	11:31	Fine	1.7	255	35
*	10-Jul-24	11:31	12:31	Fine	1.4	266	38
*	16-Jul-24	9:46	10:46	Cloudy	3.1	107	40
*	16-Jul-24	10:46	11:46	Cloudy	1.4	173	36
*	16-Jul-24	11:46	12:46	Cloudy	0.8	143	32
*	22-Jul-24	9:34	10:34	Cloudy	4.2	135	35
*	22-Jul-24	10:34	11:34	Cloudy	4.4	131	39
*	22-Jul-24	11:34	12:34	Cloudy	3.9	135	35
*	26-Jul-24	8:50	9:50	Cloudy	2.8	274	24
*	26-Jul-24	9:50	10:50	Cloudy	1.7	271	29
*	26-Jul-24	10:50	11:50	Cloudy	3.3	262	25

* During the reporting period, monitoring station AMS1 was no longer open for impact monitoring from 1 September 2022, due to the 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.

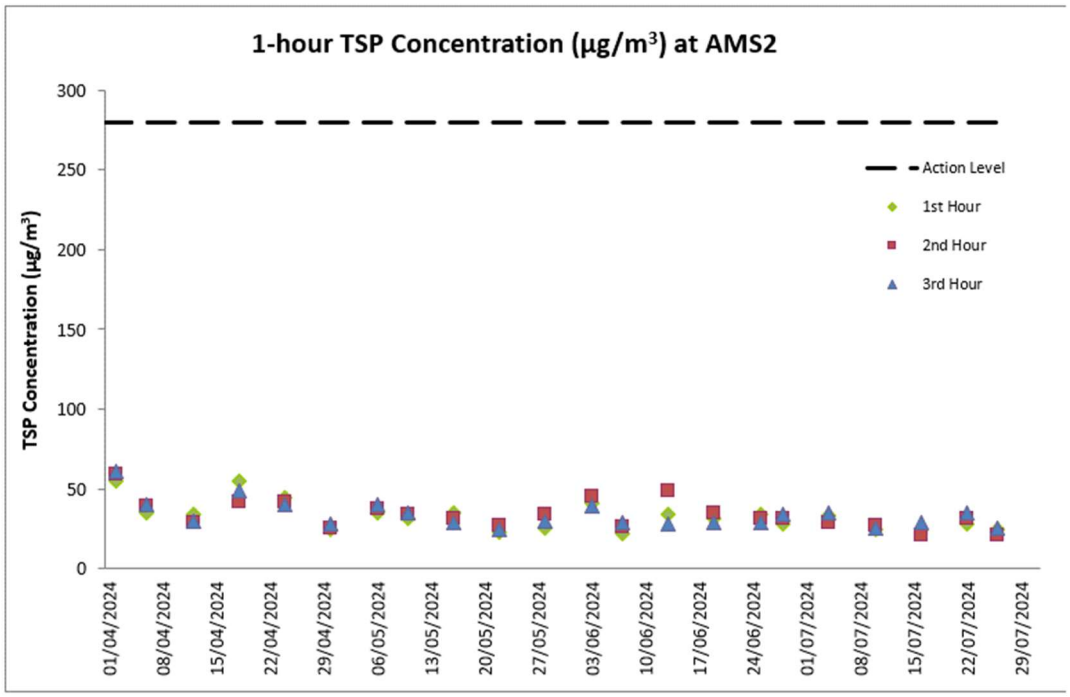
Graphical Presentation for 1-hour TSP Monitoring at AMS1/AMS1-T



Data for 1-hour TSP Monitoring at Station AMS2 during the Reporting Month

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
04-Jul-24	8:49	9:49	Fine	0.3	259	33
04-Jul-24	9:49	10:49	Fine	0.3	variable	29
04-Jul-24	10:49	11:49	Fine	2.5	142	35
10-Jul-24	8:49	9:49	Fine	0.3	99	24
10-Jul-24	9:49	10:49	Fine	0.3	238	27
10-Jul-24	10:49	11:49	Fine	1.7	241	25
16-Jul-24	8:56	9:56	Cloudy	3.3	85	24
16-Jul-24	9:56	10:56	Cloudy	3.3	110	21
16-Jul-24	10:56	11:56	Cloudy	7.8	154	29
22-Jul-24	8:50	9:50	Cloudy	4.2	135	28
22-Jul-24	9:50	10:50	Cloudy	4.2	138	31
22-Jul-24	10:50	11:50	Cloudy	3.9	131	35
26-Jul-24	8:40	9:40	Cloudy	4.7	278	24
26-Jul-24	9:40	10:40	Cloudy	1.7	275	21
26-Jul-24	10:40	11:40	Cloudy	3.1	266	25

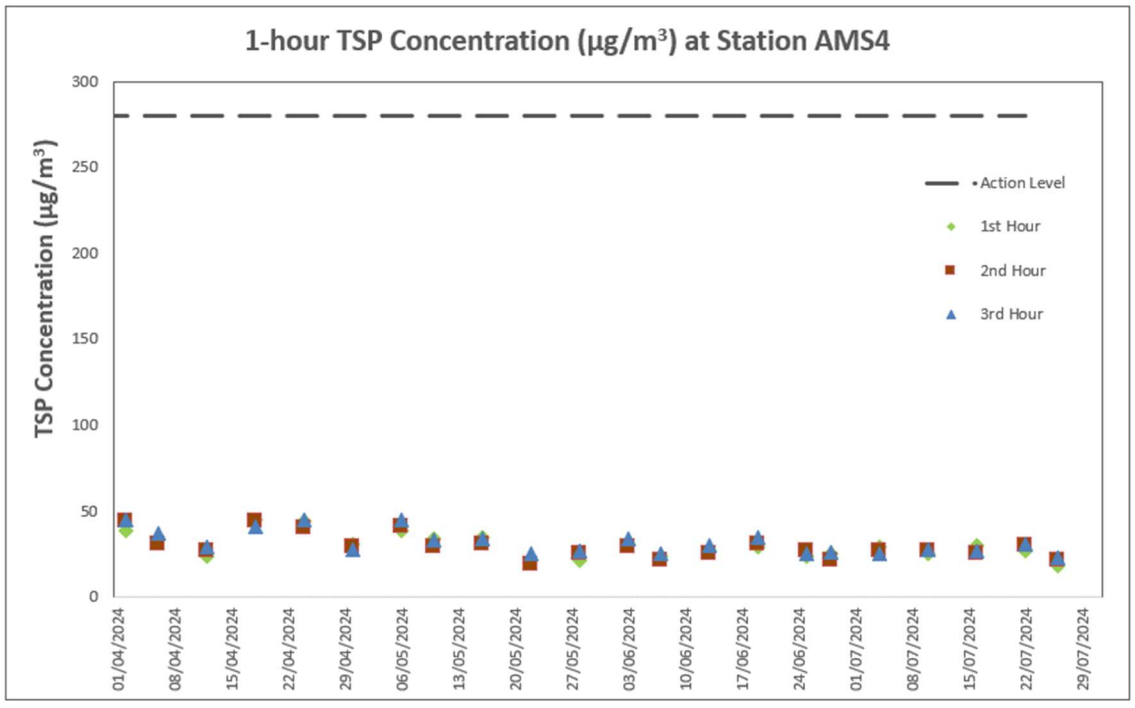
Graphical Presentation for 1-hour TSP Monitoring at AMS2



Data for 1-hour TSP Monitoring at Station AMS4 during the Reporting Month

Date	Start Time	Finish Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hour TSP ($\mu g/m^3$)
04-Jul-24	10:25	11:25	Fine	1.7	132	29
04-Jul-24	11:25	12:25	Fine	2.2	152	27
04-Jul-24	12:25	13:25	Fine	3.3	154	25
10-Jul-24	10:25	11:25	Fine	1.1	247	25
10-Jul-24	11:25	12:25	Fine	1.7	269	27
10-Jul-24	12:25	13:25	Fine	1.7	189	28
16-Jul-24	10:37	11:37	Cloudy	2.5	114	30
16-Jul-24	11:37	12:37	Cloudy	0.3	313	25
16-Jul-24	12:37	13:37	Cloudy	1.4	5	27
22-Jul-24	10:28	11:28	Cloudy	3.9	133	27
22-Jul-24	11:28	12:28	Cloudy	4.4	131	30
22-Jul-24	12:28	13:28	Cloudy	3.3	148	31
26-Jul-24	9:22	10:22	Cloudy	3.3	275	18
26-Jul-24	10:22	11:22	Cloudy	2.8	265	21
26-Jul-24	11:22	12:22	Cloudy	3.1	265	23

Graphical Presentation for 1-hour TSP Monitoring at AMS4

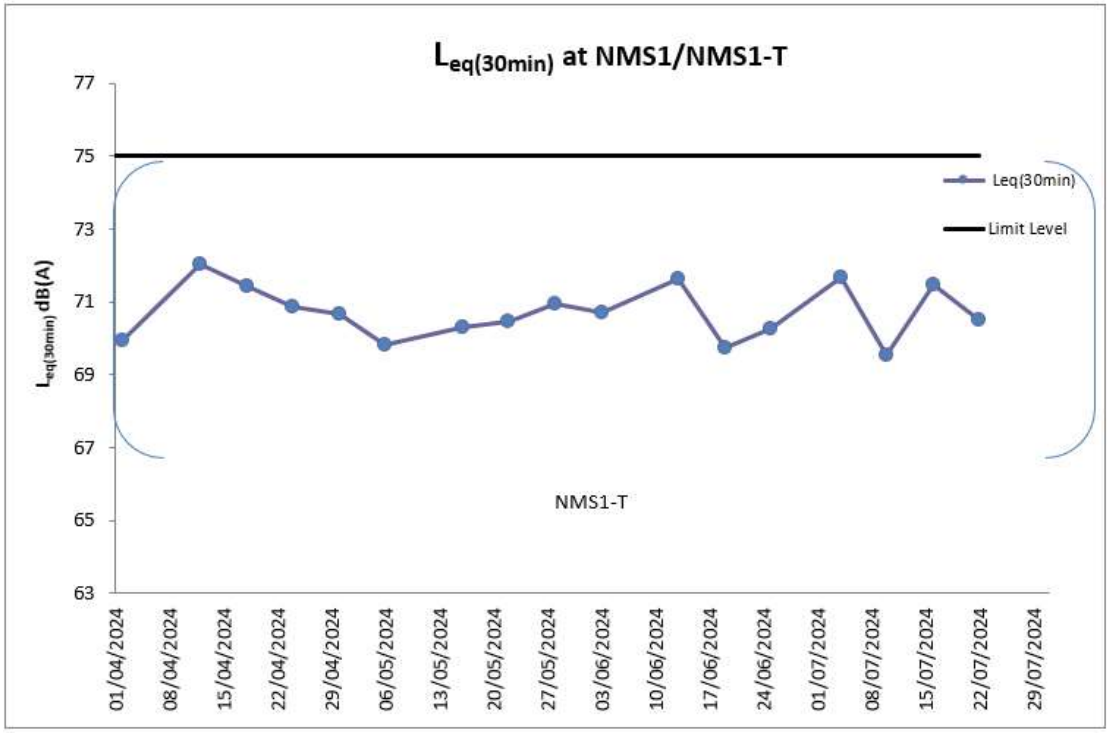


Data for Noise Monitoring at Station NMS1/NMS1-T during the Reporting Month

	Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
*	04-Jul-24	09:36	Fine	71.2	73.1	63.3	71.7
*	04-Jul-24	09:41	Fine	72.4	74.5	64.6	
*	04-Jul-24	09:46	Fine	71.6	73.0	63.1	
*	04-Jul-24	09:51	Fine	70.7	73.8	63.9	
*	04-Jul-24	09:56	Fine	71.9	73.7	64.0	
*	04-Jul-24	10:01	Fine	72.0	74.2	65.6	
*	10-Jul-24	09:34	Fine	70.9	73.0	65.8	69.5
*	10-Jul-24	09:39	Fine	69.1	72.9	64.2	
*	10-Jul-24	09:44	Fine	68.7	71.6	63.7	
*	10-Jul-24	09:49	Fine	69.0	72.8	64.5	
*	10-Jul-24	09:54	Fine	68.7	71.4	63.1	
*	10-Jul-24	09:59	Fine	70.3	73.6	64.0	
*	16-Jul-24	09:45	Cloudy	72.0	74.0	68.1	71.5
*	16-Jul-24	09:50	Cloudy	71.5	73.6	67.7	
*	16-Jul-24	09:55	Cloudy	70.6	73.3	67.5	
*	16-Jul-24	10:00	Cloudy	69.4	71.5	66.4	
*	16-Jul-24	10:05	Cloudy	71.5	73.5	67.0	
*	16-Jul-24	10:10	Cloudy	73.0	74.5	67.6	
*	22-Jul-24	09:37	Cloudy	69.9	73.0	64.9	70.5
*	22-Jul-24	09:42	Cloudy	70.1	73.2	65.3	
*	22-Jul-24	09:47	Cloudy	71.7	74.8	66.6	
*	22-Jul-24	09:52	Cloudy	71.0	74.5	66.4	
*	22-Jul-24	09:57	Cloudy	69.4	73.1	64.0	
*	22-Jul-24	10:02	Cloudy	70.6	73.7	65.1	

* 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 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.

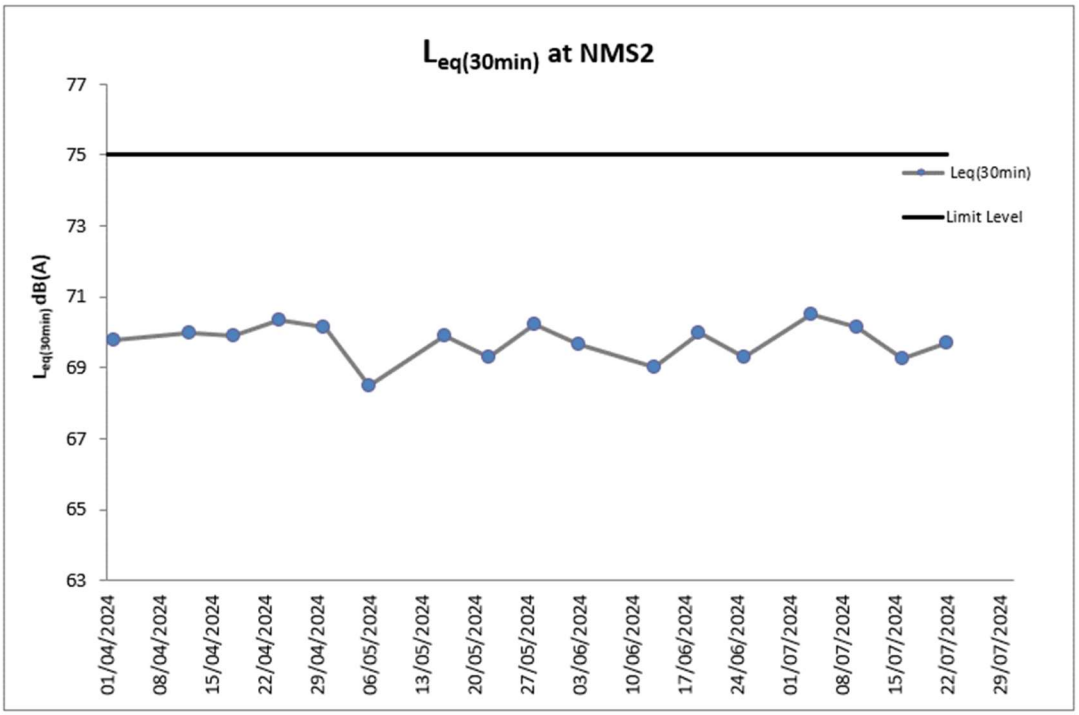
Graphical Presentation for Noise Monitoring at NMS1/NMS1-T



Data for Noise Monitoring at Station NMS2 during the Reporting Month

Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
04-Jul-24	08:52	Fine	69.9	73.0	66.2	70.5
04-Jul-24	08:57	Fine	70.1	73.3	67.4	
04-Jul-24	09:02	Fine	71.4	74.7	67.5	
04-Jul-24	09:07	Fine	69.7	72.6	66.8	
04-Jul-24	09:12	Fine	70.0	73.9	67.7	
04-Jul-24	09:17	Fine	71.6	74.8	67.0	
10-Jul-24	08:51	Fine	69.1	72.6	65.2	70.1
10-Jul-24	08:56	Fine	70.7	73.0	66.8	
10-Jul-24	09:01	Fine	68.3	71.4	65.7	
10-Jul-24	09:06	Fine	70.7	73.9	66.5	
10-Jul-24	09:11	Fine	71.9	74.5	67.0	
10-Jul-24	09:16	Fine	69.0	72.4	66.6	
16-Jul-24	08:49	Cloudy	68.7	71.0	65.2	69.2
16-Jul-24	08:54	Cloudy	69.0	71.2	65.4	
16-Jul-24	08:59	Cloudy	68.4	70.9	64.3	
16-Jul-24	09:04	Cloudy	67.8	70.0	64.5	
16-Jul-24	09:09	Cloudy	70.9	73.2	66.2	
16-Jul-24	09:14	Cloudy	69.9	72.0	66.8	
22-Jul-24	08:53	Cloudy	68.9	71.0	65.2	69.7
22-Jul-24	08:58	Cloudy	69.1	72.9	66.8	
22-Jul-24	09:03	Cloudy	69.6	72.7	66.0	
22-Jul-24	09:08	Cloudy	70.3	73.6	67.1	
22-Jul-24	09:13	Cloudy	70.0	73.4	67.5	
22-Jul-24	09:18	Cloudy	70.1	73.2	67.6	

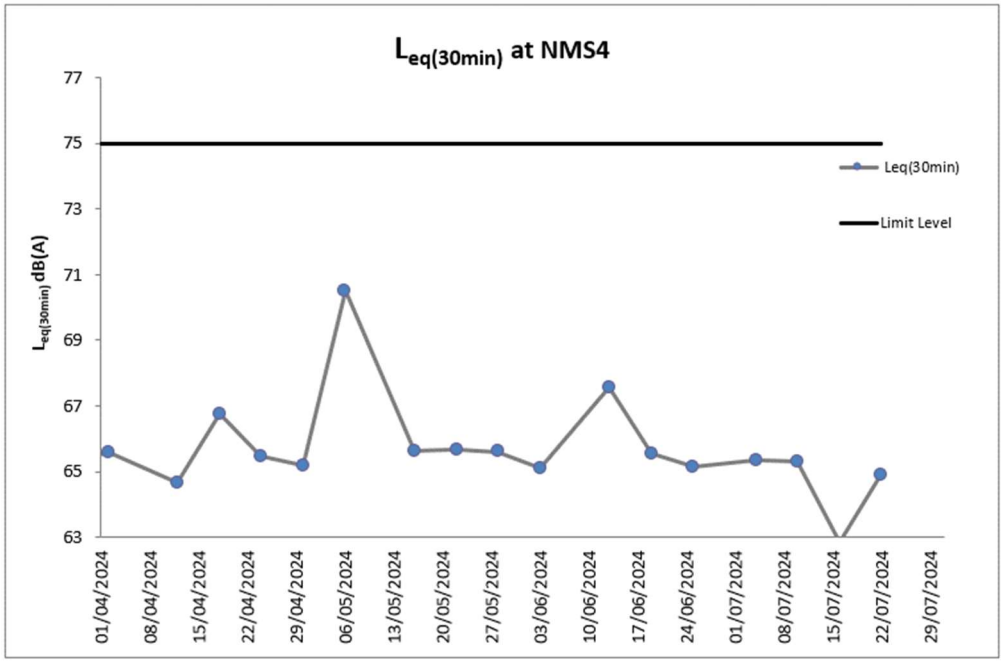
Graphical Presentation for Noise Monitoring at NMS2



Data for Noise Monitoring at Station NMS4 during the Reporting Month

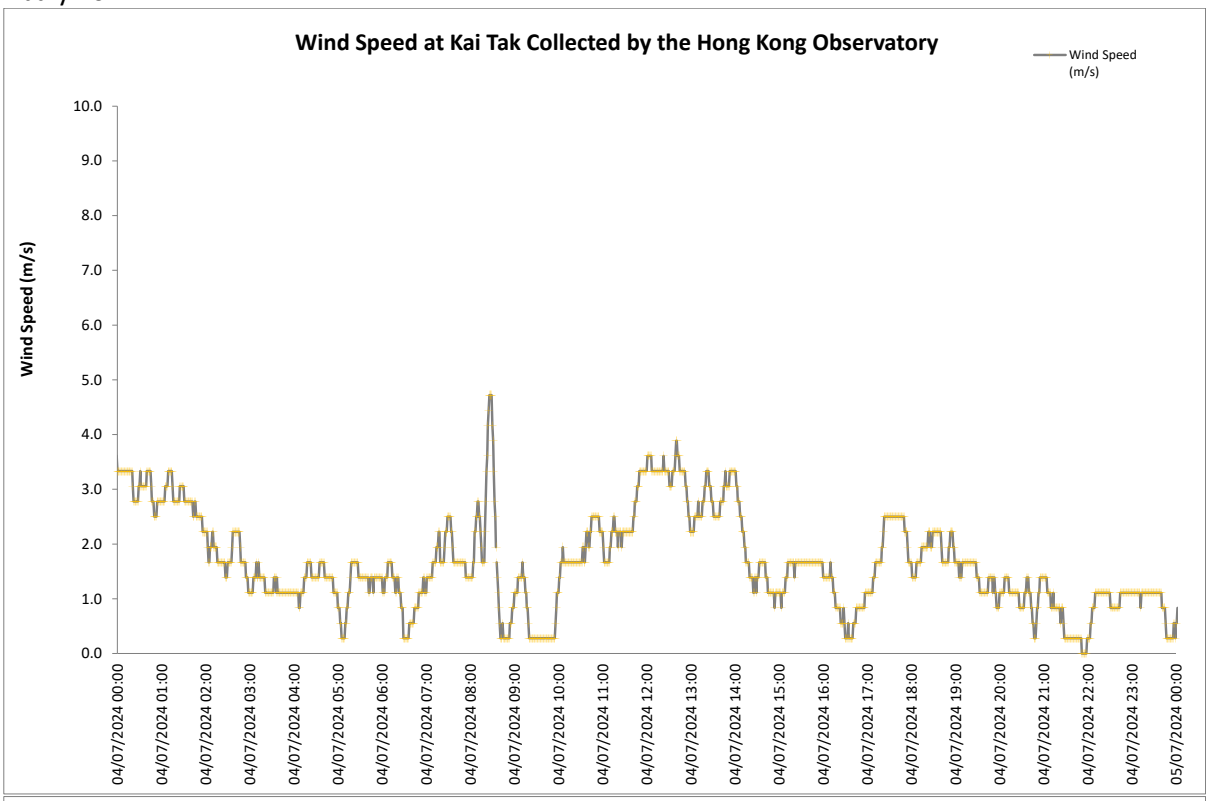
Date	Time	Weather	$L_{eq(5min)}$	L_{10}	L_{90}	Measured $L_{eq(30min)}$
04-Jul-24	08:52	Fine	64.4	66.3	62.2	
04-Jul-24	08:57	Fine	65.1	67.0	63.5	
04-Jul-24	09:02	Fine	65.7	67.6	63.6	65.4
04-Jul-24	09:07	Fine	64.9	66.9	62.8	
04-Jul-24	09:12	Fine	66.7	68.4	64.7	
04-Jul-24	09:17	Fine	65.0	67.6	63.0	
10-Jul-24	08:51	Fine	64.3	66.6	62.5	
10-Jul-24	08:56	Fine	65.4	67.4	63.9	
10-Jul-24	09:01	Fine	65.8	67.9	63.2	65.3
10-Jul-24	09:06	Fine	64.1	66.7	62.0	
10-Jul-24	09:11	Fine	66.7	68.0	64.6	
10-Jul-24	09:16	Fine	65.0	67.2	63.7	
16-Jul-24	08:49	Cloudy	63.1	64.3	61.4	
16-Jul-24	08:54	Cloudy	63.7	64.5	60.4	
16-Jul-24	08:59	Cloudy	62.9	64.4	60.0	62.8
16-Jul-24	09:04	Cloudy	63.9	64.8	60.0	
16-Jul-24	09:09	Cloudy	61.7	62.7	59.0	
16-Jul-24	09:14	Cloudy	61.0	62.4	59.2	
22-Jul-24	08:53	Cloudy	64.9	66.4	62.5	
22-Jul-24	08:58	Cloudy	65.3	67.9	63.2	
22-Jul-24	09:03	Cloudy	65.1	67.7	63.8	64.9
22-Jul-24	09:08	Cloudy	64.4	66.0	62.6	
22-Jul-24	09:13	Cloudy	64.6	66.1	62.4	
22-Jul-24	09:18	Cloudy	65.0	67.2	63.0	

Graphical Presentation for Noise Monitoring at NMS4



Appendix H. Wind Data

4 July 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
04/07/2024 00:00
04/07/2024 01:00
04/07/2024 02:00
04/07/2024 03:00
04/07/2024 04:00
04/07/2024 05:00
04/07/2024 06:00
04/07/2024 07:00
04/07/2024 08:00
04/07/2024 09:00
04/07/2024 10:00
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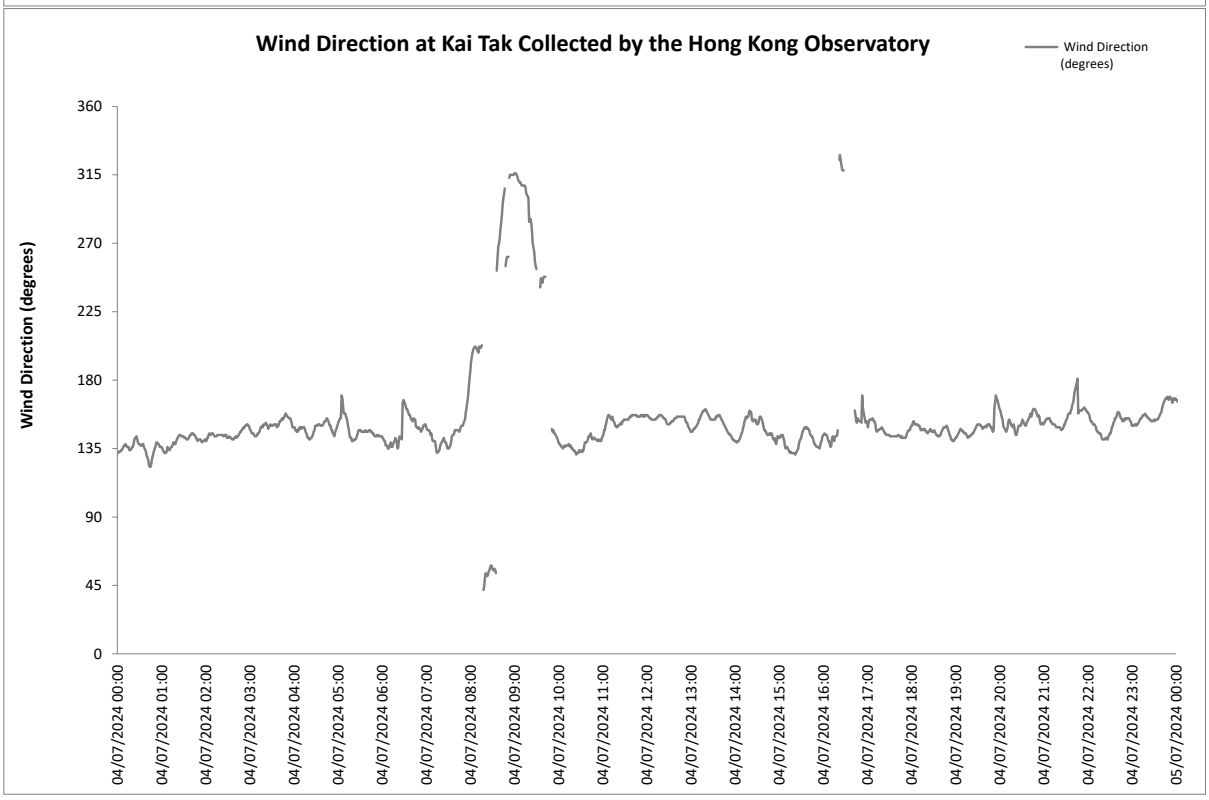
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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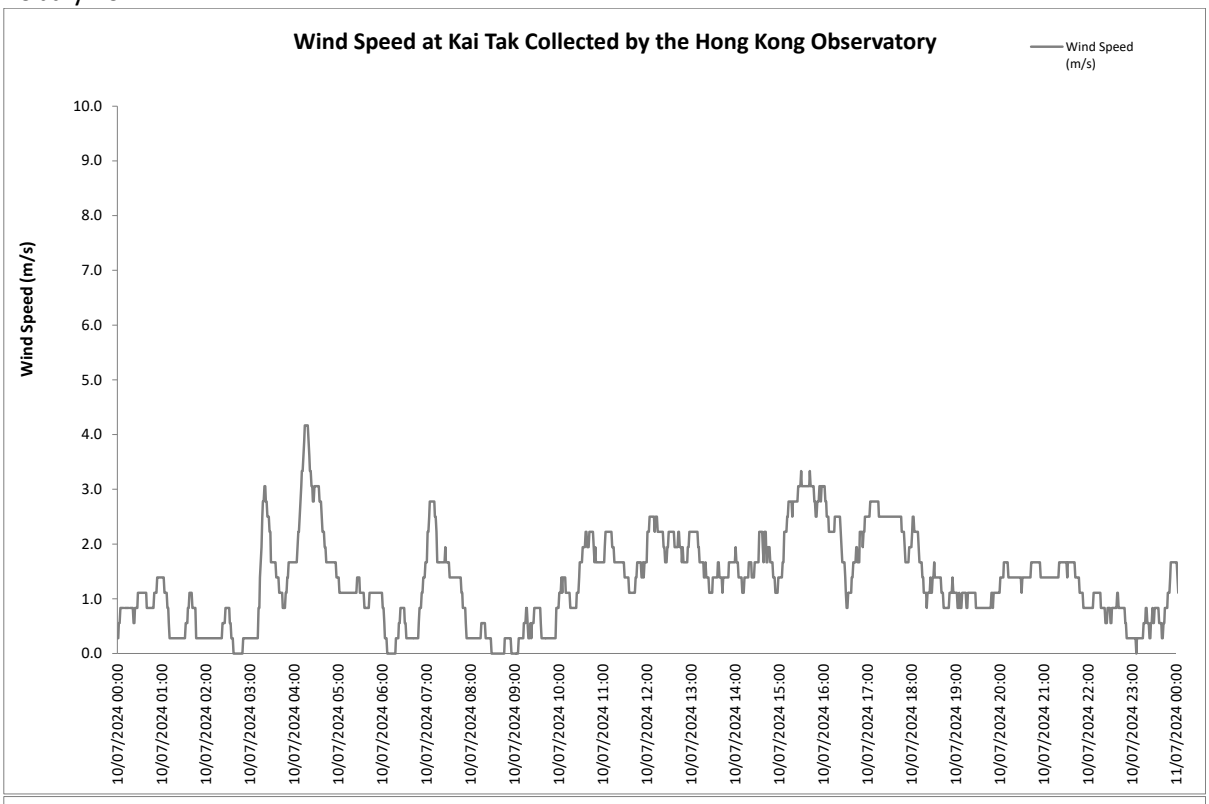
10 July 2024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Wind Speed (m/s)
Wind Speed (m/s)
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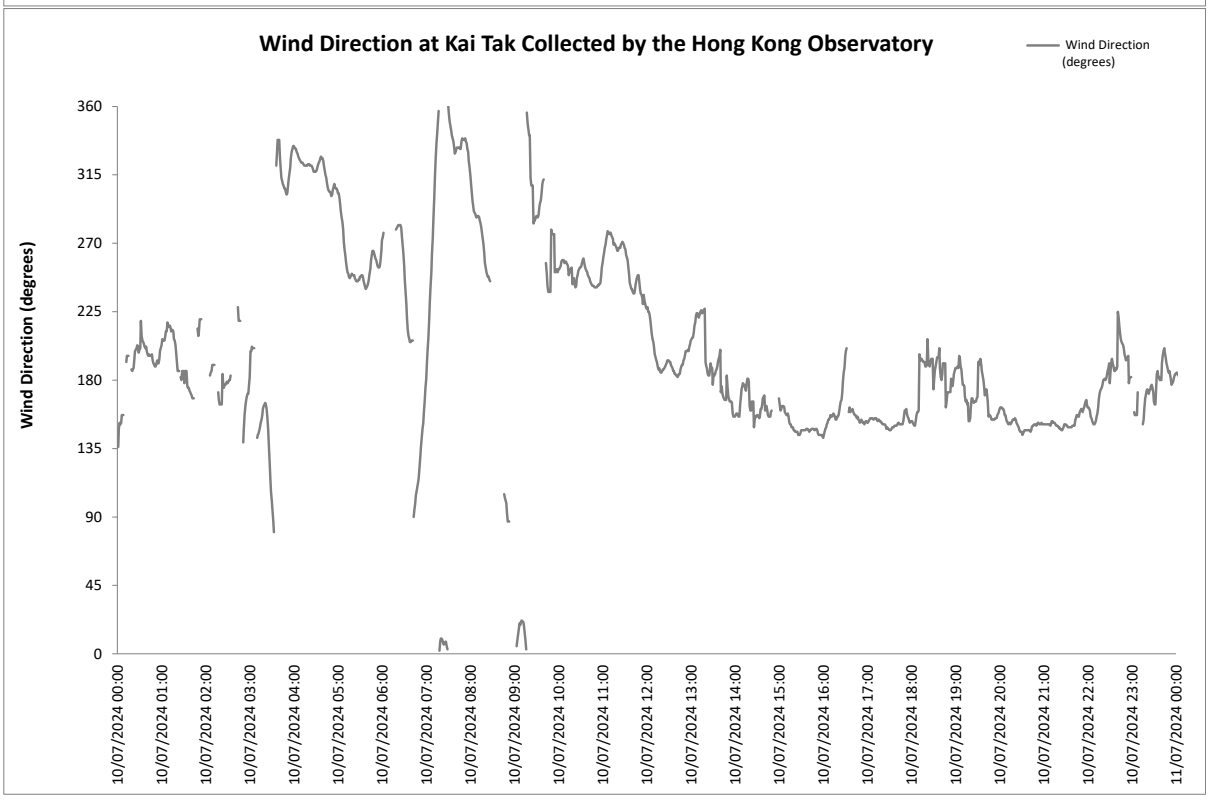
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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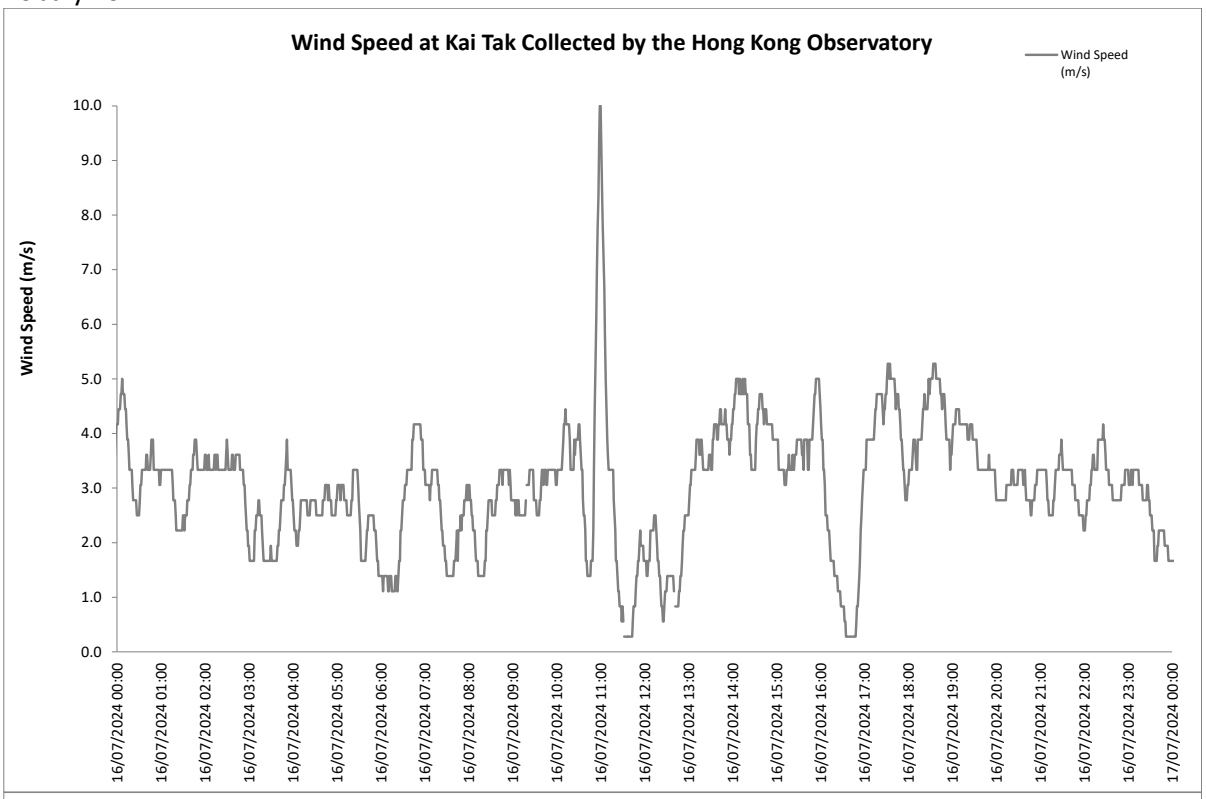
16 July 2024


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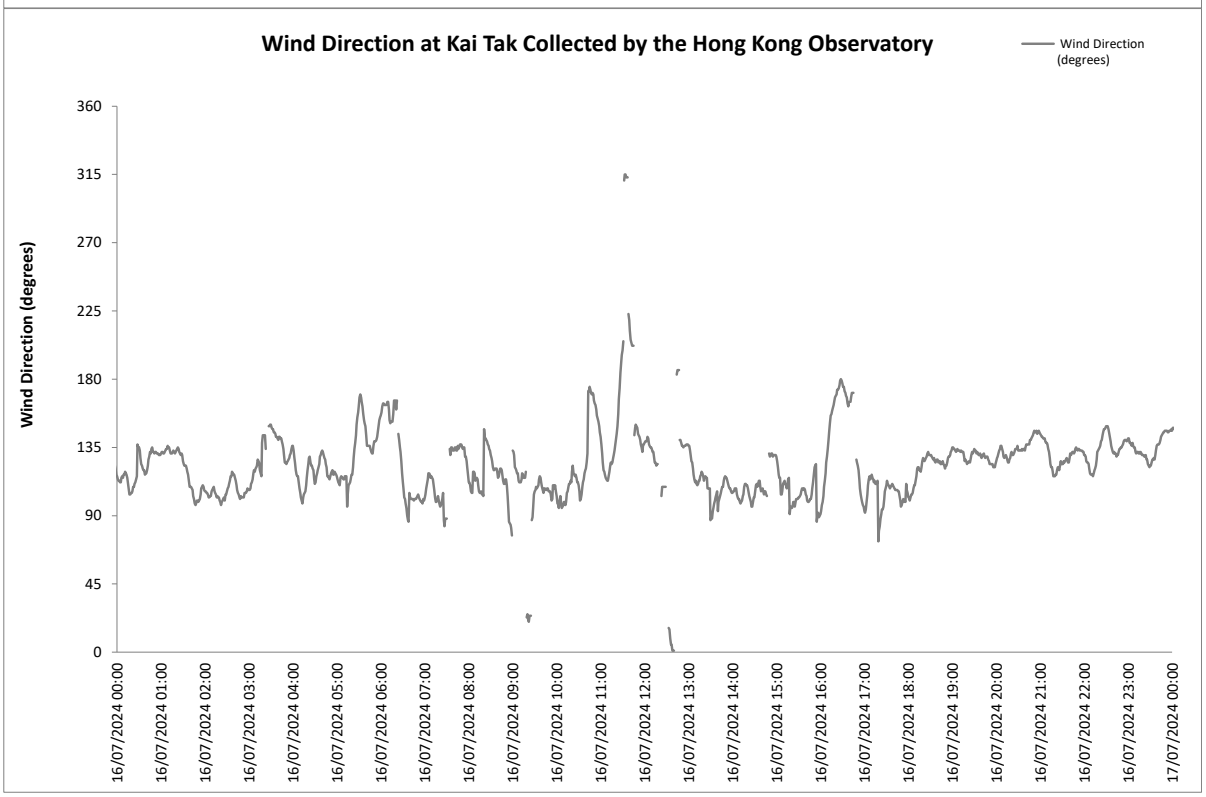
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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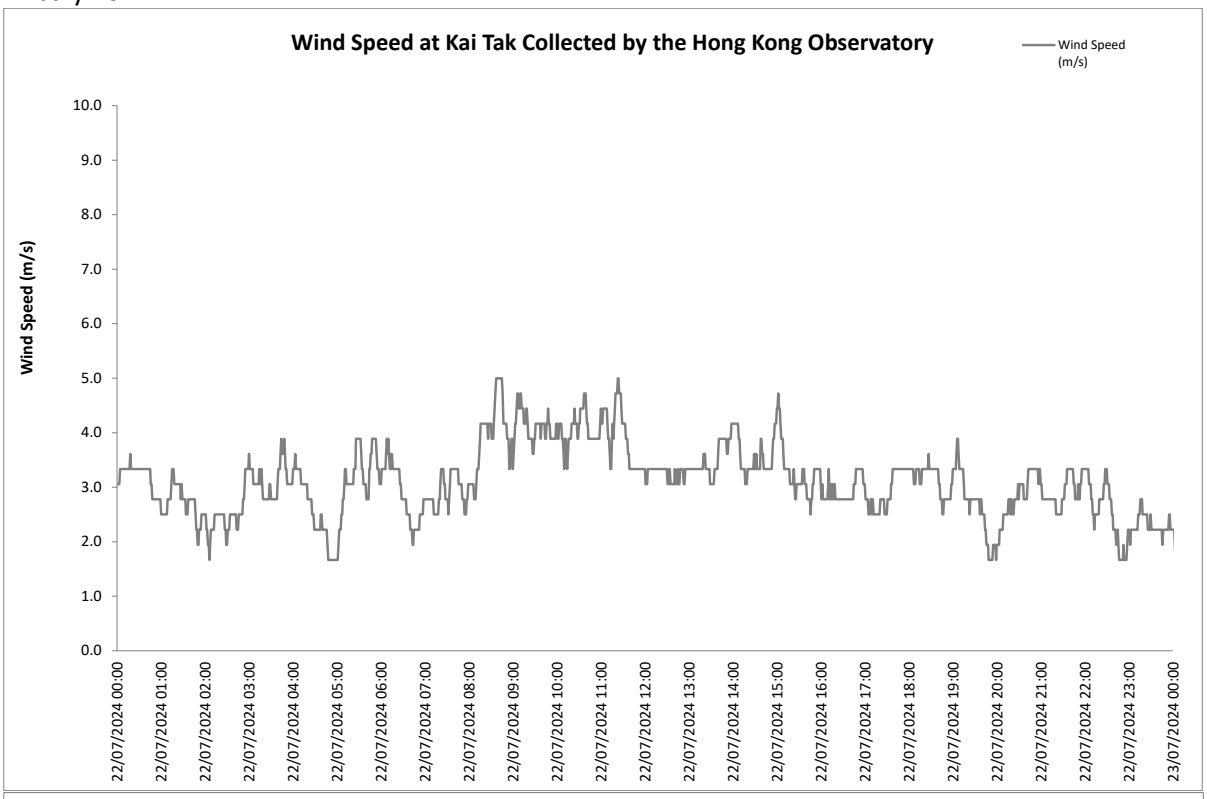
22 July 2024


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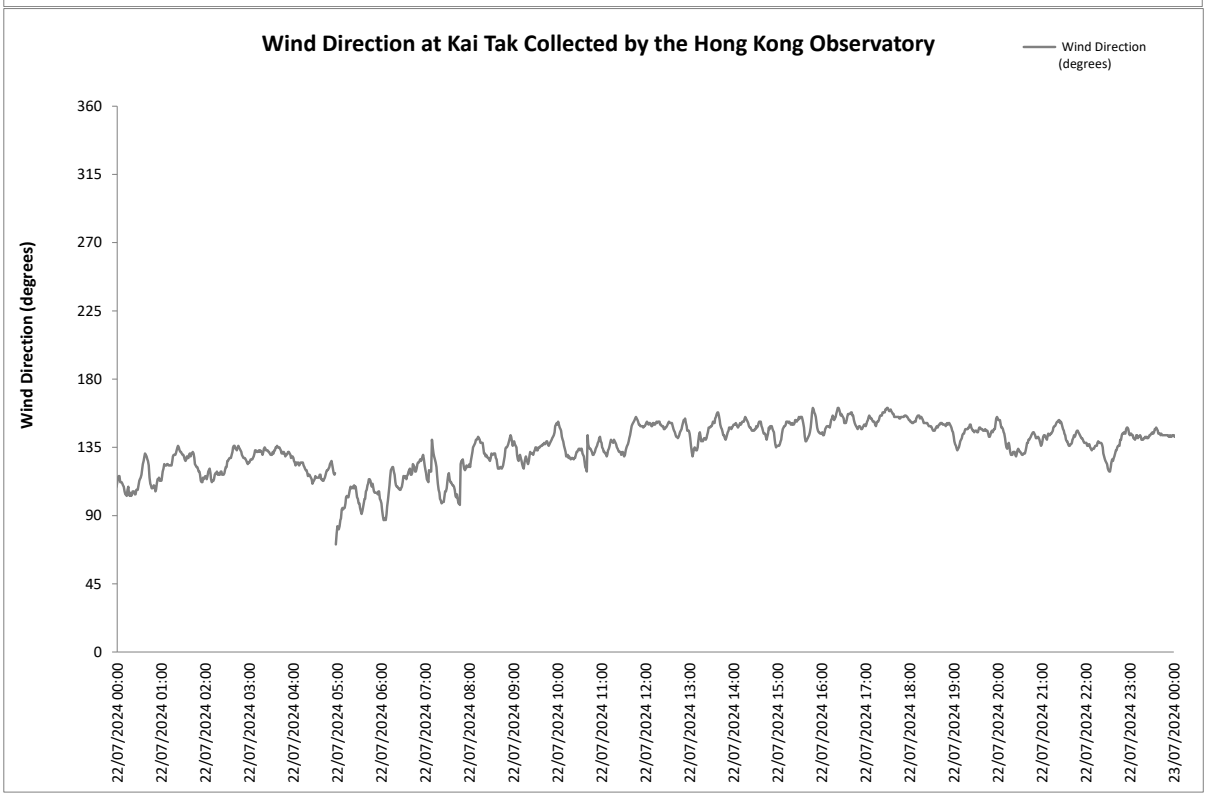
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
Wind Direction (degrees)
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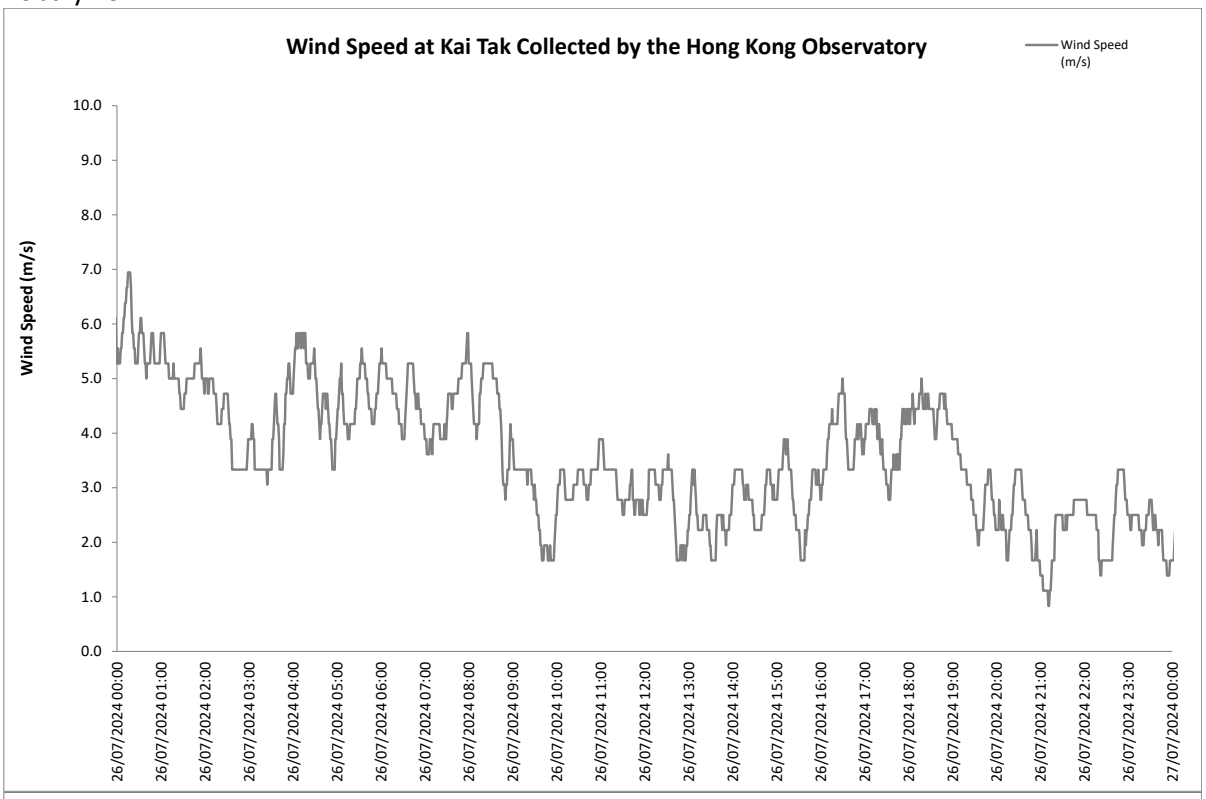
26 July 2024


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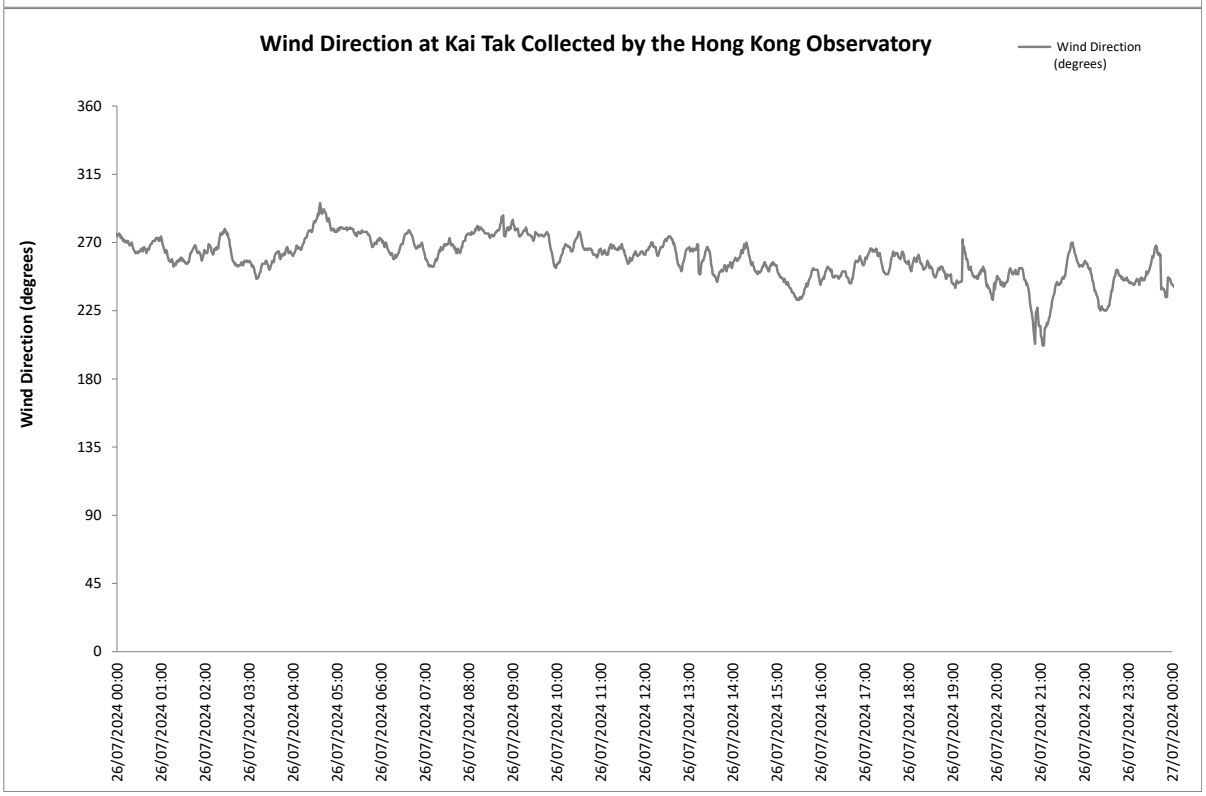
Wind Direction at Kai Tak Collected by the Hong Kong Observatory
Wind Direction (degrees)
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Appendix I. Waste Flow Table

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
新創建集團成員 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	
Jul-24	6966.17	1189.79	5776.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.36	0.00	1182.43	
Total	1702957.06	92360.54	525994.16	0.00	1084602.38	0.00	0.00	0.00	0.00	0.00	8939.48	0.75	54.27	164.43	4.80	83196.79	

Total C&D waste generated	1702957.06	tonne	a1=b+c+d+e+f+g+h+i+j+k+l+m
Total C&D waste generated (excluding excavated materials)	92360.54	tonne	a2=c+d+e+f+g+h+i+j+k+l+m
Total recycled C&D waste	9158.94	tonne	a3=c+d+e+h+i+j+k
% of recycled C&D waste for BEAM Plus MA10 or MA11	9.92	%	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 May 2024 and June 2024 have been updated according to the latest information from contractor in July 2024.
(9)Recycling record for metals, papers and plastics have been updated according to the latest information from contractor in July 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						
			(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
Jul-24	52.35	52.35	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	52.35
Total	**35136.55**	**4564.18**	**0**	**0**	**0**	**11080.25**	**19492.12**	**2339.25**	**1729.39**	**2.24**	**0.00**	**0.00**	**0.00**	**493.29**

Total C&D Waste generated	35136.55	Tons
Total C&D waste generated (Excluded excavated materials)	4564.18	Tons
Total C&D waste recycled	1731.64	Tons

$$\text{Waste Recycling Rate} = \frac{(a) + (g) + (h) + (i) + (j)}{(a) + (b) + (f) + (g) + (h) + (i) + (j) + (l)} \times 100\% = 37.94\%$$

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 J. Environmental Licences and Permits

Table J.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	WT10002906-2024	7 Feb 2024	1 Jul 2024	30 Jun 2029	Issued
6	Construction Noise Permit (Construction Works, Southern Site)	GW-RE0440-24	22 Mar 2024	20 Apr 2024	19 Aug 2024	Issued
7	Construction Noise Permit (Construction Works, Northern Site)	GW-RE0498-24	8 Apr 2024	30 Apr 2024	29 Aug 2024	Issued
8	Construction Noise Permit (Special Shing Kai Road)	GW-RE0788-24	17 Jun 2024	2 Jul 2024	31 Jul 2024	Issued

Table J.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

Appendix K. 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	✓	✓
• 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	✓	✓
• 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	✓	✓
• 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	✓	✓
• 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	✓	✓

Air Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• 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.	✓	N/A
• 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.	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.	P	✓
• 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.	✓	✓

Water Quality Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• 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	✓
• 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	✓	✓
• 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	✓	✓

Waste Management Mitigation Measures during construction	Implementation Status	
	KTSP	H/O
• 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	✓	✓
• 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.	✓	✓

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

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

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

Reporting Period	Complaints	Notifications of Summons	Successful Prosecutions
This reporting period (Jul 2024)	1	0	0
From commencement data of construction to end of reporting month	40	0	0

Appendix M. Complaint Investigation Report

Complaint Investigation Report

RECEIPT OF COMPLAINT			**Ref: COM_0040**
Date:	22 July 2024		
Time:	17:07		
From:	Public complaint referred by EPD		
Via:	email by contractor representative		
Contact no.:	-		
COMPLAINANT			
Name:	-	Address:	-
Contact no.:	-		
DETAILS OF COMPLAINT			
Date:	12 July 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:	22 July 2024		
Investigation conducted on:	23 July 2024		

Result of investigation:

Complaint investigation was carried out with the contractor on 23 July 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 July 2024. The purpose of the light testing is to ensure the outdoor lighting meet the international standard for hosting international sport events. 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 by 22:30 and completely switch off all external sports light by 23:00. (Photo 1)
2. An updated memo to nearby residents will be issued in July 2024 to notify the light testing schedule 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 by 22:30 and completely switch off all external sports light by 23:00.. (Photo 1) 2. An updated memo to nearby residents will be issued to notify the light tests schedule 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 4) 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:	29 July 2024

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

Environmental Measure Implemented:

KTSP - Reminder of no beyond permitted hours of Light Test at PSG

Jacky YC Chan 星期一, 7月 22, 2024 05:17下午

收件人: Nathan Lo Pak Lap, Alice Chow Yan Yan 顯示明細

副本抄送: HH KT201901 Environmental, Sunny Chan

Dear FSE High Mast Light test team,

As you may have heard from us that there was a complaint from nearby residents at To Kwa Wan in Mid-July, you are hereby reminded that all light tests shall be completed no later than 22:30 at night and shall be completely switched off by 23:00 to minimize the light nuisance to the nearby sensitive receivers. We understand that the necessities of conducting such tests at night though the tests shall be completed as soon as possible every night. Attached please also find the guideline of external lighting provided by Environmental Protection Department for your reference, thanks a lot.

Best regards,
Jacky YC Chan
Project Environmental Engineer
Hip Hing Engineering Co., Ltd.
(Member of NWS Holdings)

11/F., Chevalier Commercial Centre, No.8 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong
website: https://www.hiphing.com.hk

Photo 1: Subcontractors had been reminded to finish the light testing at night by 22:30 and completely switch off all external sports light by 23:00.

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 8 月至 9 月期間，於晚上 7 時至 11 時期間，進行約 20 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

二零二四年七月三十一日

To whom it may concern,

31st July, 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 20 working days, from August to September 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

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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 : An updated notification memo will be issued to the nearby residential buildings at To Kwa Wan and Kai Tak on the updated test schedule and the purpose of the test.

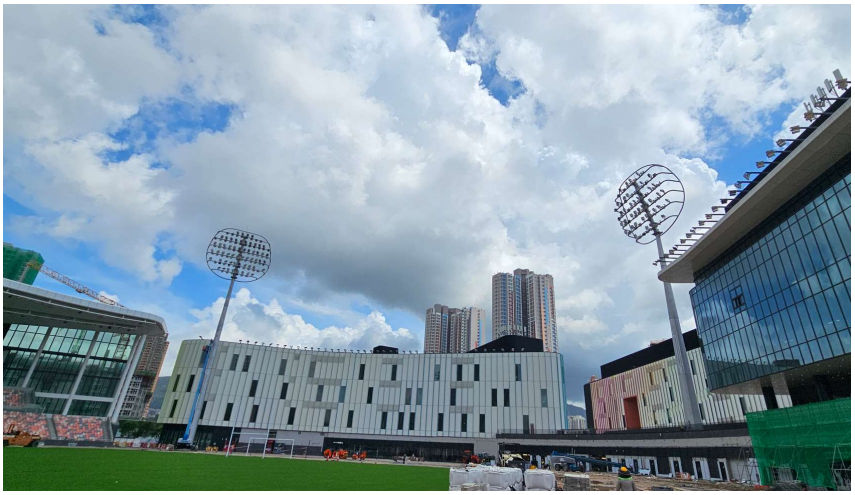

Photo 3a and 3b: Spot lights are adjusted to control lighting direction away from nearby residential.

《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 4: "Guidelines on Industry Best Practices for External Lighting Installations" has been sent to subcontractor for reminder.