Our ref: 23-10-2022

23-10-2022 By hand

Environmental Protection Department

Environmental Assessment Division

Metro Assessment Group

Kowloon Section (2)

27th floor, Southorn Centre,

130 Hennessy Road,

Wan Chai, Hong Kong

(Attn: Mr. TANG Ho Him, Matthew)

Dear Mr. TANG,

Contract No. EDO 2/2020
Environmental Monitoring Works for Contract No. ED/2018/05 – Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area
Submission of Quarterly EM&A Report for February 2022 to April 2022 (Version 1.1)

I refer to the Environment Permit (EP) No. EP-337/2009 for the captioned project.

Pursuant to Condition 3.3 of the EP-337/2009, please find enclosed four hard copies and one electronic copy of Quarterly EM&A Report for February 2022 to April 2022 (Version 1.1), which has been verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 2618 2166 should you require further information.

Yours faithfully,

For and on behalf of

Ka Shing Management Consultant Limited

AKCL

Applied knowledge center limited

Company Secretary

Encl. Quarterly EM&A Report for February 2022 to April 2022 (Version 1.1)

Date: 13 October 2022
Your ref:
Our ref: PL-202210011

AECOM Asia Company Limited
12/F, Grand Central Plaza, Tower 2,
138 Shatin Rural Committee Road,
Shatin, New Territories,
Hong Kong

Attn.: Ms. Mavis Law, SRE

Dear Ms. Law,

Re: Agreement No. EDO 6/2019
Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area
Verification of Quarterly EM&A Summary Report (February to April 2022)

Reference is made to the Quarterly EM&A Summary Report (February to April 2022) (Version 1.1) submitted by the Environmental Team on 12 October 2022.

Please be informed that we have no adverse comment on the captioned submission.

Thank you for your attention.

Yours sincerely,
For and on behalf of
Acuity Sustainability Consulting Limited

Kevin Li
Independent Environmental Checker

c.c.	CEDD	Attn.:	Mr. Albert Tse	By email
	Ka Shing	Attn.:	Mr. Chan Pang (ETL)	By email

Acuity Sustainability Consulting Limited
Flat/RM E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
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Quarterly Environmental Monitoring and Audit Summary Report (February 2022 – April 2022)

for

Contract No. ED/2018/05 –

Kai Tak Development – Stage 5B infrastructure works at the former north apron area

Contract No.: EDO 2/2020

(Version 1.1)

Certified By: 

(Environmental Team Leader)

Table of Content Page

List of Tables

List of Figure

List of Appendices

EXECUTIVE SUMMARY

1. This is the 5th Quarterly Environmental Monitoring & Audit (EM&A) Summary Report which summarises the findings of the EM&A Programme during the reporting period from 1 February 2022 to 30 April 2022 (the "reporting period").

Breaches of Action and Limit Levels

2. 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

3. 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

4. Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

Complaint log

5. No complaint was received in the reporting period.

Notifications of Summons and Successful Prosecutions

6. No notification of summons and successful prosecutions was received in the reporting period.

Report changes

7. There was no reporting change in the reporting period.

Major construction works in the reporting period

8. Major construction activities undertake during the reporting period included:

Table I Major construction activities in the reporting period

February 2022	March 2022	April 2022
- Bored pile works for landscape elevated walkway LW-02 - ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02 - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Drainage works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Pre-bored socket H-piles construction for Subway KS10 - Twin rising mains diversion works - Renovation works for existing subways KS9 and KS32	- Post-pilling tests for PC11 for Elevated Walkway LW-02 - ELS and excavation at Pier 9 for Elevated Walkway LW-02 - Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02 - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Pre-bored socket H-piles construction for Subway KS10 - Post-pilling tests for H-piles at Subway KS10 - Renovation works for existing subways KS9 and KS32	- ELS and excavation at Pier 9 for Elevated Walkway LW-02 - Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02 - Erection of temporary decking across existing Kai Tak River - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Post-pilling tests for H-piles at Subway KS10 - ELS and excavation for Subway KS10 Lift and Staircase - Demolition works to existing subway KS10 staircase and ramp - Renovation works for existing subways KS9 and KS32

1. INTRODUCTION

Project Background

1.1 The Kai Tak Development (KTD) is located in the southern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.

1.2 Contract No. ED/2018/05 - Kai Tak Development – stage 5B infrastructure works at the former north apron area (The Project), comprises mainly the design and construction of a section of dual two-lane Road D1; single two-lane Road L9 and Road L16; a single-lane slip road S14; a pedestrian subway SB-01; an elevated walkway LW-02; renovation of the existing pedestrian subways KS9, KS10 and KS32, as well as modification of the southern end of the existing pedestrian subway KS10; associated footpaths, street lighting, traffic aids, drainage, sewerage, water mains, landscaping, electrical and mechanical works, and ancillary works. The proposed works are shown in Figure 1 and Figure 2. The proposed works and site boundary are shown in Figure 3 and Figure 4. Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.

1.3 In accordance with the approved EIA Reports, Environmental Monitoring and Audit (EM&A) programmes are recommended to ensure compliance with the EIA study recommendations. The project proponent was the Civil Engineering and Development Department (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual). Acuity Sustainability Consulting Limited (Acuity) was commissioned as the Independent Environmental Checker (IEC). Build King – STEC Joint Venture (Build King) was appointed as the main Contractor for the construction works of Contract No. ED/2018/05. Ka Shing was commissioned by CEDD to undertake the role of the Environmental Team (ET) to implement the EM&A programme for The Project.

1.4 The construction work under ED/2018/05 comprises the EM&A Manual (EIA Register No. AEIAR-130/2009 for Kai Tak Development) and Environmental Permit No. EP- 337/2009.

1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Project Organization

1.6 The project organization chart and emergency team and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

Table 1.1 Contact information of key personnel

Party	Role	Contract Person	Position	Phone No,	Fax No.
Civil Engineering and Development Department (CEDD)	Project Proponent	Mr. Louis Lau	Chief Engineer	3842 7090	2739 0076
		Mr. George Ng	Senior Engineer	3842 7107	2739 0076
		Mr. Albert Tse	Engineer	3842 7137	2739 0076
		Mr. Perry Lo	Engineer	3842 7143	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Leung Wai Kit	CRE	2412 3410	2798 0783
		Mr. Vincent Lee	SRE	2798 0771	2798 0783
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	2698 6833	2698 9383
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Ir. Chan Pang	ET Leader	2618 2166	2120 7752
Build King – STEC Joint Venture (BK-STEC)	Contractor	Mr. Raymond Lam	Environmental Officer	9713 6817	3850 8508

Works Area and Construction Programme

1.7 The construction works commenced on 16 February 2021.The construction programme of the

Project is given in Appendix B.

Construction works undertaken during reporting period

1.8 Major construction works of the Project in the reporting period are summarized in Table 1.2:

Table 1.2 Major construction activities in the reporting period

February 2022	March 2022	April 2022
- Bored pile works for landscape elevated walkway LW-02 - ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02 - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Drainage works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Pre-bored socket H-piles construction for Subway KS10 - Twin rising mains diversion works - Renovation works for existing subways KS9 and KS32	- Post-pilling tests for PC11 for Elevated Walkway LW-02 - ELS and excavation at Pier 9 for Elevated Walkway LW-02 - Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02 - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Pre-bored socket H-piles construction for Subway KS10 - Post-pilling tests for H-piles at Subway KS10 - Renovation works for existing subways KS9 and KS32	- ELS and excavation at Pier 9 for Elevated Walkway LW-02 - Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02 - Erection of temporary decking across existing Kai Tak River - Underground utility diversion works at Sa Po Road - ELS and excavation at launching shaft for subway SB-01 - Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4 - Construction of Crowd Dispersal Route - Construction works for Road L16 - Construction of DCS - Post-pilling tests for H-piles at Subway KS10 - ELS and excavation for Subway KS10 Lift and Staircase - Demolition works to existing subway KS10 staircase and ramp - Renovation works for existing subways KS9 and KS32

2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

Monitoring Requirements

2.1 In accordance with EM&A Manual (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring and impact noise monitoring shall be carried out during the construction phase of the Project.

Air Quality Monitoring Locations

2.2 Two designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at two air quality monitoring stations in the reporting period. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

Table 2.1 Locations of air quality monitoring stations

Air Quality Monitoring Locations for the Project	Location of Measurement
AM2(A) – Ng Wah Catholic Secondary School	Rooftop
AM3 – Sky Tower	Podium floor near T7

Air Quality Monitoring Parameters, Frequency and Duration

2.3 The air quality monitoring locations and monitoring frequency are listed in Table 2.2.

Table 2.2 Air quality monitoring parameters, frequency and duration

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM2(A) – Ng Wah Catholic Secondary School	Rooftop	- 24-hour average TSP	- 24 hours	- Once every 6 days
AM3 – Sky Tower	Podium floor near T7	- 1-hour average TSP	- 1 hour	- Three times every 6 days

Air Quality Monitoring Equipment

2.4 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

Table 2.3 Air Quality Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	2	2 months
HVS Calibrator	TISCH TE-5025A	1	1 year
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	3	1 year
Weather Station	Davis Vantage Pro2 Weather Station	2	6 months

2.5 High volume samplers (HVS) (TE-5170 X c/w of TSP sampling inlet) comprising with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Air Quality Monitoring Methodology and QA/QC Procedure

24-hour TSP Monitoring

Operating/Analytical Procedures

2.6 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the

rooftop samples.

- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.

2.7 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m^3/min. and 1.7 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

2.8 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.

2.9 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.

2.10 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.

2.11 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.

2.12 The shelter lid was closed and secured with the aluminium strip.

2.13 The timer was programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).

2.14 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for

weighting.

Maintenance/Calibration

2.15 The following maintenance/calibration are required for the HVS:

- The HVS and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated with at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

1-hour TSP Monitoring

Measurement Procedures

2.16 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:

- Set up the dust meter on a tripod at 1.2m level.
- Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.
- The zero calibration of the instrument was conducted before and after each sampling.
- TSP levels were recorded for 1-hour with 5-minute data logging interval.
- Recorded down the general meteorological conditions, Test ID no., start/end time, spot check reading at each sampling location for data processing.
- Recorded any activities that may generate dust during measurement period.

Maintenance/Calibration

2.17 The following maintenance/calibration are required for the direct dust meters:

- To validate the accuracy of dust meter, compare the results measured by dust meter and HVS by direct reading method every 12 months throughout all stages of the air quality monitoring.

Wind Data Monitoring

2.18 Wind Anemometer was installed at the roof-top of AM2(A) – Ng Wah Catholic Secondary School with 10m above ground and clear of constructions or turbulence caused by the buildings to record wind speed and wind direction.

2.19 Details of weather information during the monitoring period are shown in Appendix C.

Impact Air Quality Action and Limit Levels

2.20 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.4 and Table 2.5 respectively.

Table 2.4 Action and Limit Levels of 24-hour average TSP for construction dust monitoring

Parameter	Air Monitoring Station	Action Level, $\mu g/m^3$	Limit Level, $\mu g/m^3$
24-hour average TSP	AM2(A)	175	260
	AM3	172	260

Table 2.5 Action and Limit Levels of 1-hour average TSP for construction dust monitoring

Parameter	Air Monitoring Station	Action Level, $\mu g/m^3$	Limit Level, $\mu g/m^3$
1-hour average TSP	AM2(A)	302	500
	AM3	301	500

Impact Air Quality Monitoring results

2.21 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designated air quality monitoring stations are summarized in Table 2.6 and Table 2.7 respectively.

Table 2.6 Summary of 24-hour average TSP monitoring data during the reporting period

Air Monitoring Station	February 2022		March 2022		April 2022		Action Level, μg/m³	Limit Level, μg/m³
	24-hr Average TSP Concentration, μg/m³	Range, μg/m³	24-hr Average TSP Concentration, μg/m³	Range, μg/m³	24-hr Average TSP Concentration, μg/m³	Range, μg/m³		
AM2(A)	38	31-50	74	36-130	73	42-127	175	260
AM3	45	24-66	77	40-126	69	27-102	172	260

Table 2.7 Summary of 1-hour average TSP monitoring data during the reporting period

Air Monitoring Station	February 2022		March 2022		April 2022		Action Level, μg/m³	Limit Level, μg/m³
	1-hr Average TSP Concentration, μg/m³	Range, μg/m³	1-hr Average TSP Concentration, μg/m³	Range, μg/m³	1-hr Average TSP Concentration, μg/m³	Range, μg/m³		
AM2(A)	35	28-48	63	33-111	60	38-100	302	500
AM3	42	22-65	63	36-109	60	32-93	301	500

2.22 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting period.

2.23 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix D.

2.24 The Event and Action Plan is provided in Appendix E.

2.25 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

Noise Monitoring Locations

2.26 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting period. Table 2.8 describes the noise monitoring locations, which are also depicted in Figure 6.

Table 2.8 Locations of noise monitoring stations

Noise Monitoring Locations for the Project	Location of Measurement
M4(A) – Le Billionnaire	Podium (Façade)
M5(A) – Prince Ritz	Podium (Façade)

Noise Monitoring Parameters, Frequency and Duration

2.27 The noise monitoring locations and monitoring frequency are listed in Table 2.9.

Table 2.9 Noise monitoring parameters, frequency and duration

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M4(A) – Le Billionnaire	Podium (Façade)	L_{Aeq}, L_{A10} and L_{A90}	30 - minutes measurement at each monitoring station between 0700 – 1900 hrs on normal weekdays (Monday to Saturday) at frequency of once per week.
M5(A) – Prince Ritz	Podium (Façade)		

Noise Monitoring Equipment

2.28 As referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Type 1) standard [this standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 2.10 ssummarizes the equipment to be used in the noise monitoring.

Table 2.10 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC 75	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

Monitoring Methodology and QA/QC Procedure

2.29 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.

2.30 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow meter.

2.31 Turned on the sound level meter and check the battery, if too low, change new ones.

2.32 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.

2.33 Noise level was recorded.

2.34 Recorded any activities that may generate noise during measurement period.

Maintenance and Calibration

2.35 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.

2.36 The sound level meter and sound calibrator were calibrated annually.

2.37 Calibration for sound level meter was conducted immediately prior to and following each noise measurement by using sound calibrator generating a known sound pressure level at a known frequency (1,000 Hz with 94dB). Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Impact Noise Action and Limit Levels

2.38 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 2.11.

Table 2.11 Baseline noise level and Action and Limit Levels for construction noise monitoring

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 on normal weekdays	M4(A)	69.5	When one documented complaint is received.	75 dB(A)
	M5(A)	72.5		

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Impact Noise Monitoring results

2.39 Impact noise monitoring results at the designed noise monitoring stations are summarized in Table 2.12.

Table 2.12 Summary of noise monitoring data during the reporting period

Noise Monitoring Station	February 2022		March 2022		April 2022		Action Level	Limit Level ^
	Measured $L_{Aeq, 30\text{-min}}$, Average, dB(A)	Measured $L_{Aeq, 30\text{-min}}$, Range, dB(A)	Measured $L_{Aeq, 30\text{-min}}$, Average, dB(A)	Measured $L_{Aeq, 30\text{-min}}$, Range, dB(A)	Measured $L_{Aeq, 30\text{-min}}$, Average, dB(A)	Measured $L_{Aeq, 30\text{-min}}$, Range, dB(A)		
M4(A)	69.7	69.3 – 70.0	70.1	69.1 – 72.3	70.4	69.3 – 71.9	When one documented complaint is received	75 dB(A)
M5(A)	72.6	72.2 – 73.0	72.5	72.1 – 72.9	72.9	72.2 – 73.8		

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

2.40 There were no Action Level exceedance of noise monitoring and Limit Level exceedance of $L_{Aeq, 30min}$ recorded during the reporting period.

2.41 Graphical presentation and detailed monitoring results of impact noise are shown in Appendix D.

2.42 The Event and Action Plan is provided in Appendix E.

2.43 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

Comparison of EM&A Results with EIA Predictions

2.44 The environmental impacts predictions were given in Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works - Investigation, Design and Construction - Kai Tak Development Environmental Impact Assessment Report, EIA Register Nos. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 2.13 to Table 2.15.

Table 2.13 Comparison of 24-hour average TSP monitoring data with EIA predictions

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum 24-hr average TSP concentration		Measured 24-hr average TSP in Reporting Month (February 2022) $\mu g/m^3$	Measured 24-hr average TSP in Reporting Month (March 2022) $\mu g/m^3$	Measured 24-hr average TSP in Reporting Month (April 2022) $\mu g/m^3$
		Scenario 1 (Mid 2009 to Mid 2013), $\mu g/m^3$	Scenario 2 (Mid 2013 to Late 2016), $\mu g/m^3$			
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	31-50	36-130	42-127
AM3 - Sky Tower	A40	106^	138^	24-66	40-126	27-102

Note:
^ Prediction results are given in the Table 3.13 of the EIA report EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Table 2.14 Comparison of 1-hour average TSP monitoring data with EIA predictions

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum 1-hour average TSP concentration		Measured 1-hr average TSP in Reporting Month (February 2022) $\mu g/m^3$	Measured 1-hr average TSP in Reporting Month (March 2022) $\mu g/m^3$	Measured 1-hr average TSP in Reporting Month (April 2022) $\mu g/m^3$
		Scenario 1 (Mid 2009 to Mid 2013), $\mu g/m^3$	Scenario 2 (Mid 2013 to Late 2016), $\mu g/m^3$			
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	28-48	33-111	38-100
AM3 - Sky Tower	A40	217^	247^	22-65	36-109	32-93

Note:
^ Prediction results are given in the Table 3.13 of the EIA report EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Table 2.15 Comparison of noise monitoring data with EIA predictions

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (February 2022) $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (March 2022) $L_{Aeq, 30min}$, dB(A)	Measured Noise Level in Reporting Month (April 2022) $L_{Aeq, 30min}$, dB(A)
M4(A) – Le Billionnaire	NA	NA	69.3 – 70.0	69.1 – 72.3	69.3 – 71.9
M5(A) – Prince Ritz	NA	NA	72.2 – 73.0	72.1 – 72.9	72.2 – 73.8

2.45 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

2.46 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).

2.47 For AM3, 24-hour TSP monitoring results recorded in March 2022 were higher than the Scenario 1 (Mid 2009 to Mid 2013) prediction but lower than the Scenario 2 (Mid 2013 to Late 2016) prediction in the EIA Report.

2.48 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).

2.49 1-hour TSP monitoring results at AM3 recorded in the reporting period were recorded lower than the prediction in the EIA Report.

2.50 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

3. LANDSCAPE AND VISUAL MONITORING

3.1 In accordance with EM&A Manual (EIA Register Nos. AEIAR-130/2009), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

3.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

3.3 No non-compliance of the landscape and visual impact was recorded in the reporting period.

3.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix E shall be performed.

4. SOLID AND LIQUID WASTE MANAGEMENT

4.1 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting period is shown in Appendix F.

4.2 The Contractor was registered as a chemical waste producer for the Project.

4.3 Mitigation measured recommended in the EIA Report were implemented by the Contractor where applicable and were considered effective in reduction the waste generation during the reporting period.

4.4 The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

Site Inspection

5.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures and given advise if applicable in the Project site.

5.2 All follow-up actions requested by ET and/or IEC during site inspections were undertaken by the Contractor and ET reviewed the effectiveness in the following weekly site inspection.

5.3 The summaries of site audits are attached in Table 5.1.

Table 5.1 Summary of site inspections observations during the reporting period

Inspection Date	Key Observations / Advice / Recommendations /	Actions	Close-out Date / Status
10 February 2022	Observation: Secondary container shall be provided for the diesel drum to prevent soil contamination in LW02.	Action Taken: The diesel drum has been removed.	Closed out on 18 Feb 2022
18 February 2022	Observation: Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three side in LW02.	Action Taken: Cement bags has been fully covered by impervious sheeting.	Closed out on 24 February 2022
24 February 2022	Observation: Stagnant water was observed on the I-beam in LW02.	Action Taken: Stagnant water has been cleared on the I-beam in LW02.	Closed out on 3 March 2022
3 March 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02.	Action Taken: Stockpiles were removed.	Closed out on 10 March 2022
10 March 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in S14.	Action Taken: The uncovered stockpiles were covered by impermeable sheeting in S14.	Closed out on 17 March 2022
17 March 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02.	Action Taken: Stockpiles was removed.	Closed out on 24 March 2022

Inspection Date	Key Observations / Advice / Recommendations /	Actions	Close-out Date / Status
24 March 2022	Observation: Stagnant water was observed on the I-beam in LW02.	Action Taken: Stagnant water was removed.	Closed out on 30 March 2022
30 March 2022	Observation: Stagnant water was observed on the I-beam in LW02.	Action Taken: Stagnant water was removed.	Closed out on 7 April 2022
	Observation: Secondary container should be provided for the plastic disesel engine oil to prevent soil contamination in LW02.	Action Taken: The plastic disesel engine oil were removed.	
7 April 2022	Observation: Stagnant water was observed on the I-beam in LW02.	Action Taken: Stagnant water was removed.	Closed out on 14 April 2022
14 April 2022	Observation: The NRMM label for the excavator was missed, please ensure the label should be properly placed.	Action Taken: The NRMM label has been shown on the excavator.	Closed out on 21 April 2022
21 April 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in SB01.	Action taken: Stockpiles has been removed.	Closed out on 28 April 2022
	Observation: Secondary container shall be provided for the diesel drum to prevent soil contamination in LW02.	Action Taken: Secondary container has been provided for the diesel drum.	
	Observation: Water overflow observed in sedimentation tank.	Action Taken: Normal condition observed in sedimentation tank.	
28 April 2022	Observation: The QPME label for the generator was missed. Please ensure the label should be properly placed.	Action Taken: The QPME label has been shown on the excavator.	Closed out on 5 May 2022

Implementation Status of Environmental Mitigation Measures

5.4 The Contractor has implemented environmental mitigation measures and requirement as stated in the EIA report, the EP and the EM&A Manual. The implementation status of the mitigation measures during the reporting period is summarized in Appendix G.

5.5 Based on the observations from the site inspection, it would be considered that the pollution

control and mitigation measures were effective and efficient in controlling the environmental impacts generated from the construction activities of the Project site.

6. SUMMARY OF NON-COMPLIANCE STATUS

Breaches of Action and Limit Levels

6.1 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

6.2 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

6.3 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

6.4 Summary of the non-compliance in the reporting period for the Project is tabulated in Table 6.1.

Table 6.1 Non-compliance record in the reporting period

Parameter	Reporting Period	No. of Exceedance		Possible reasons for non-compliance	Action Taken
		Action Level	Limit Level		
1-hr TSP	Feb 2022	0	0	N/A	N/A
	Mar 2022	0	0	N/A	N/A
	Apr 2022	0	0	N/A	N/A
24-hr TSP	Feb 2022	0	0	N/A	N/A
	Mar 2022	0	0	N/A	N/A
	Apr 2022	0	0	N/A	N/A
Construction noise	Feb 2022	0	0	N/A	N/A
	Mar 2022	0	0	N/A	N/A
	Apr 2022	0	0	N/A	N/A

Environmental Complaint and Non-compliance

6.5 No complaint was received in the reporting period. Summary of complaints in the reporting period is tabulated in Table 6.2.

Table 6.2 Summary of complaints in the reporting period

Date of receiving complaint	Date of compliant	Description of complaint	Recommendations / Action take	Close-out date / Status
No complaint was received in the reporting period.	NA	NA	NA	NA

6.6 Complaint log is shown in Appendix H.

Notifications of summons and successful prosecutions

6.7 No notification of summons and successful prosecutions was received in the reporting period. Summary of summons and successful prosecutions in the reporting period is tabulated in Table 6.3.

Table 6.3 Summary of summons and successful prosecutions in the reporting period

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
No notification of summons and successful prosecutions were received in the reporting period.	NA	NA	NA	NA

6.8 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix H.

7. COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

Comments

7.1 Mitigation measures in the EM&A Manuals were implemented during the reporting period. The effectiveness and efficiency of the mitigation measures were reviewed during the weekly environmental site inspection and audit.

7.2 Environmental monitoring works (air quality and construction noise) were performed in the reporting period to monitor the environmental impacts from the Project site.

7.3 Based on the observations from the site inspection and reviewing the environmental monitoring results, it would be considered that the mitigation measures were effective and efficient in controlling the environmental impacts generated from the construction activities of the Project site.

Recommendations

7.4 During the weekly environmental site inspection and audit performed in the reporting period, the following recommendations were provided:

Table 7.1 Summary of recommendations / reminders made in site inspections during the reporting period

Inspection Date	Recommendations / Reminders
10 Feb 2022	The diesel drum should be removed.
18 Feb 2022	Cement bags should be fully covered by impervious sheeting.
24 Feb 2022	Stagnant water should be cleared on the I-beam in LW02.
3 Mar 2022	Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02.
10 Mar 2022	The uncovered stockpiles should be covered by impermeable sheeting in S14.
17 Mar 2022	Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in LW02.
24 Mar 2022	Stagnant water should be removed.
30 Mar 2022	Stagnant water should be removed.
	Secondary container should be provided for the plastic disesel engine oil to prevent soil contamination in LW02.
7 Apr 2022	Stagnant water should be removed.

Inspection Date	Recommendations / Reminders
14 Apr 2022	The NRMM label should be shown on the excavator.
21 Apr 2022	Stockpiles should be fully covered by impermeable sheeting to reduce dust emission in SB01.
	Secondary container should be provided for the diesel drum.
	No water flow should be observed in sedimentation tank.
28 Apr 2022	The QPME label should be shown on the excavator.

Conclusions

7.5 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed.

7.6 1-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

7.7 24-hour TSP monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

7.8 Construction noise monitoring was conducted as scheduled in the reporting period. No Action/Limit Level exceedance was recorded.

7.9 No complaint was received in the reporting period.

7.10 No notification of summons and successful prosecutions was received in the reporting period.

Figure

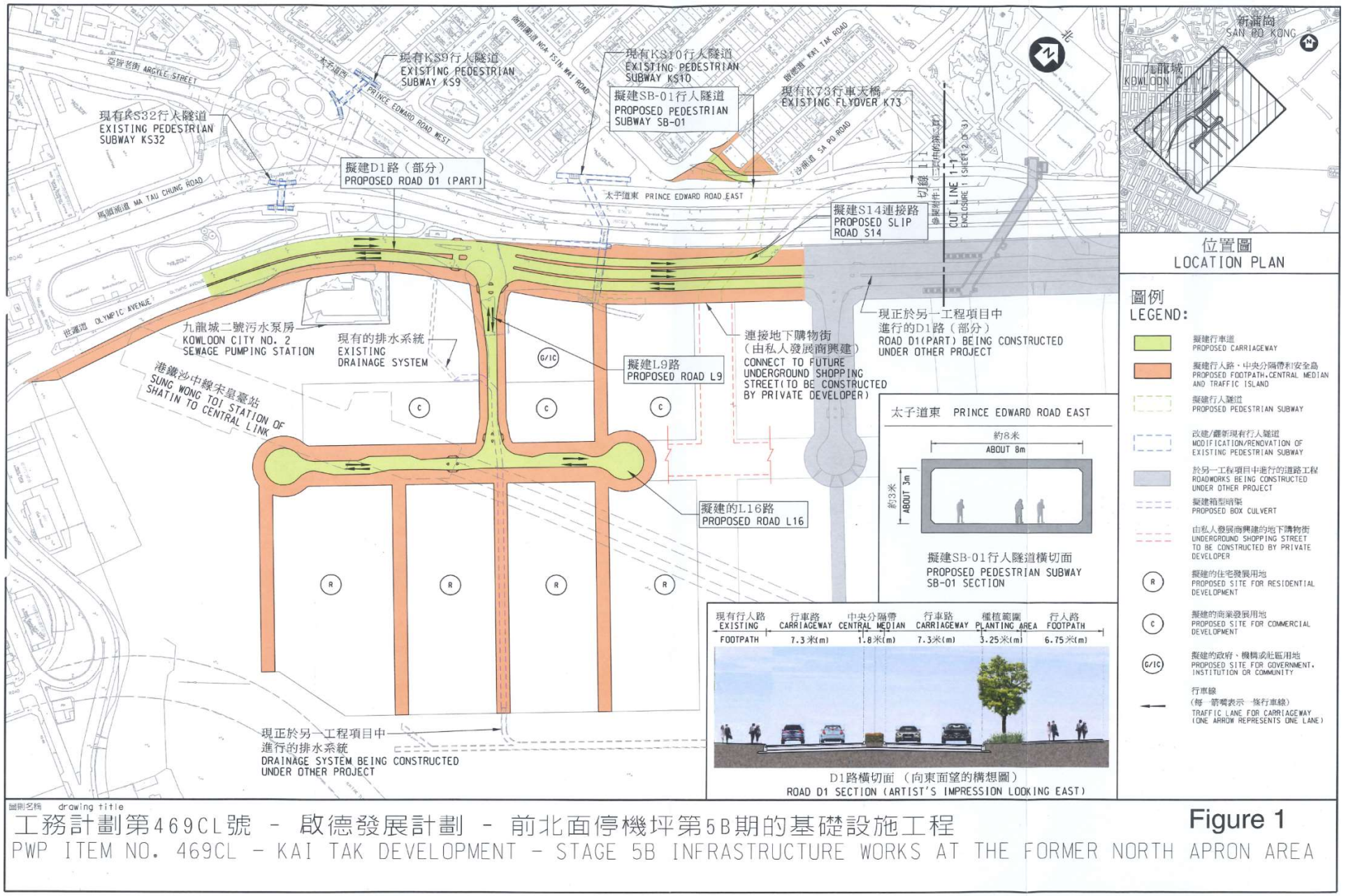


Figure 1 – Proposed works of Contract No. ED/2018/05

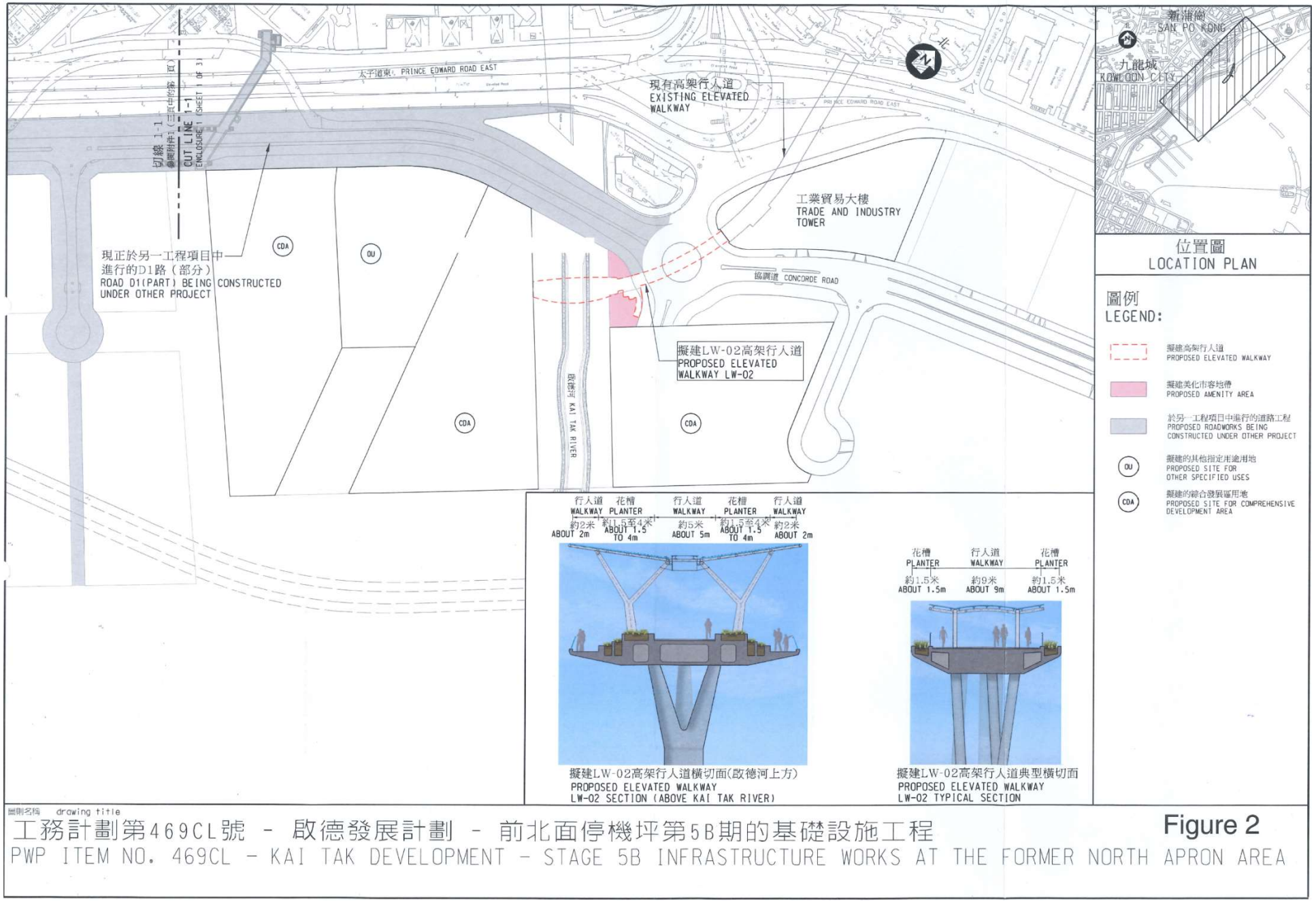


Figure 2 – Proposed works of Contract No. ED/2018/05

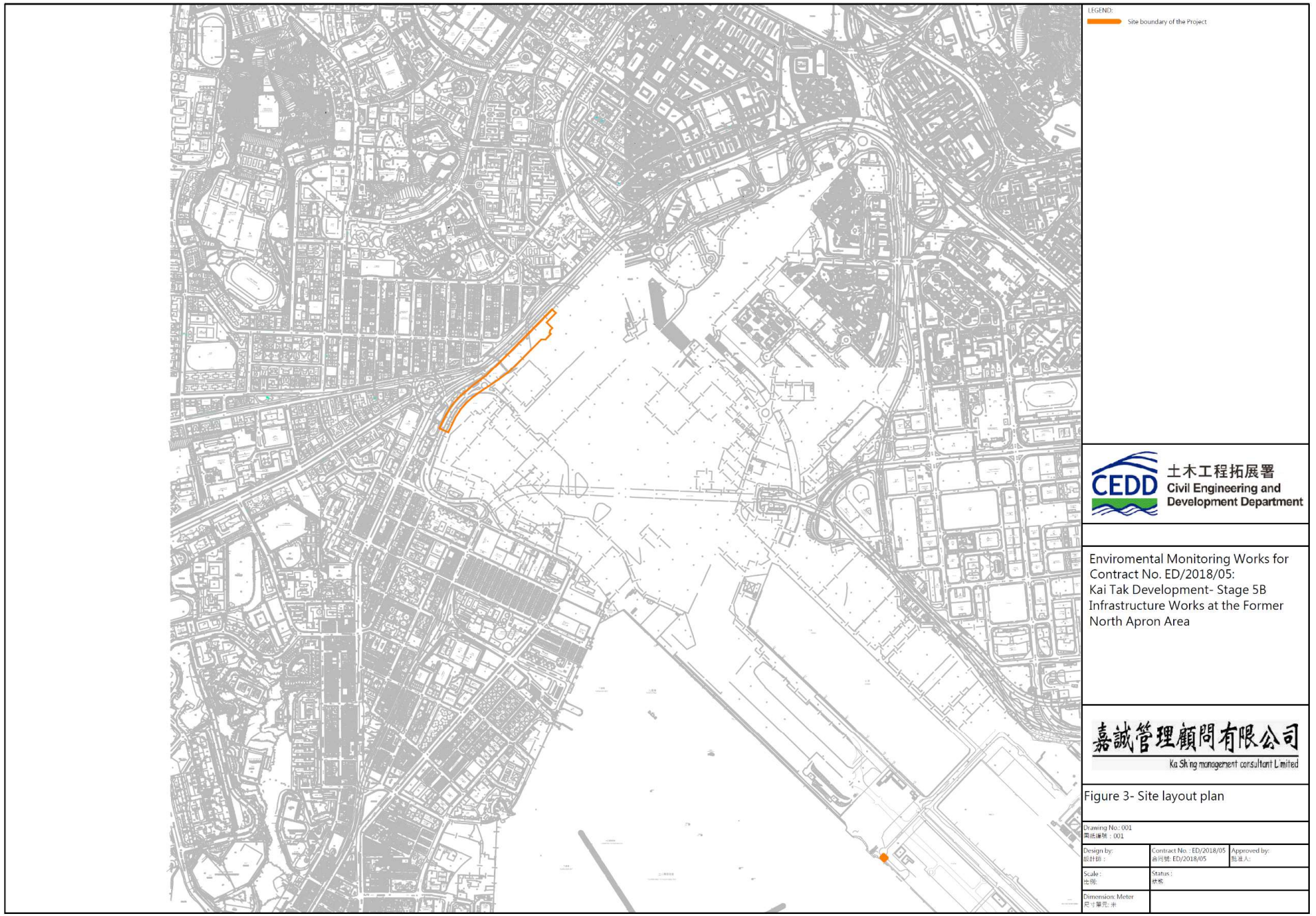


Figure 3 – D1 Road Site Layout Plan

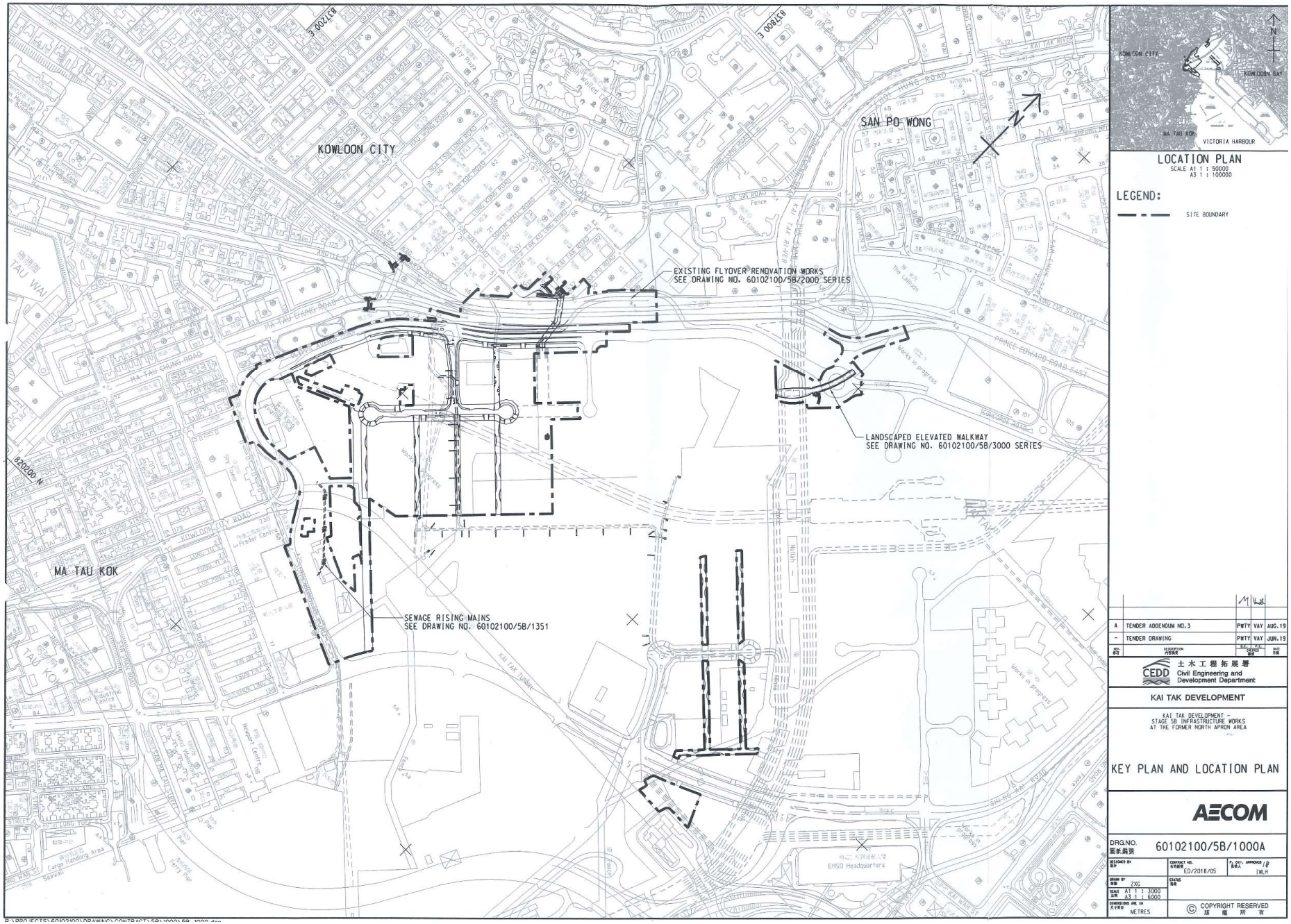


Figure 4 – Site Layout Plan

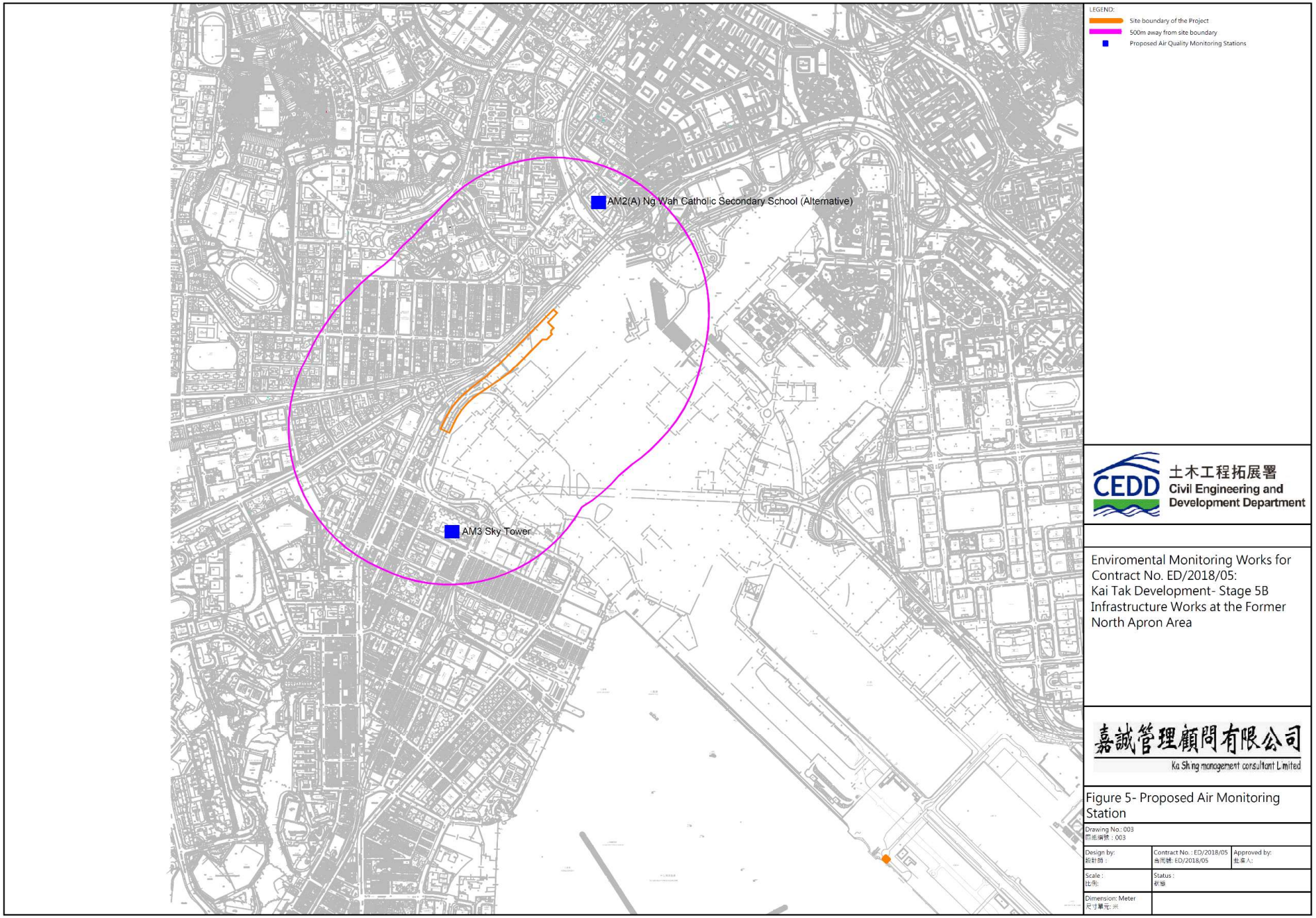


Figure 5 – Air Quality Monitoring Stations

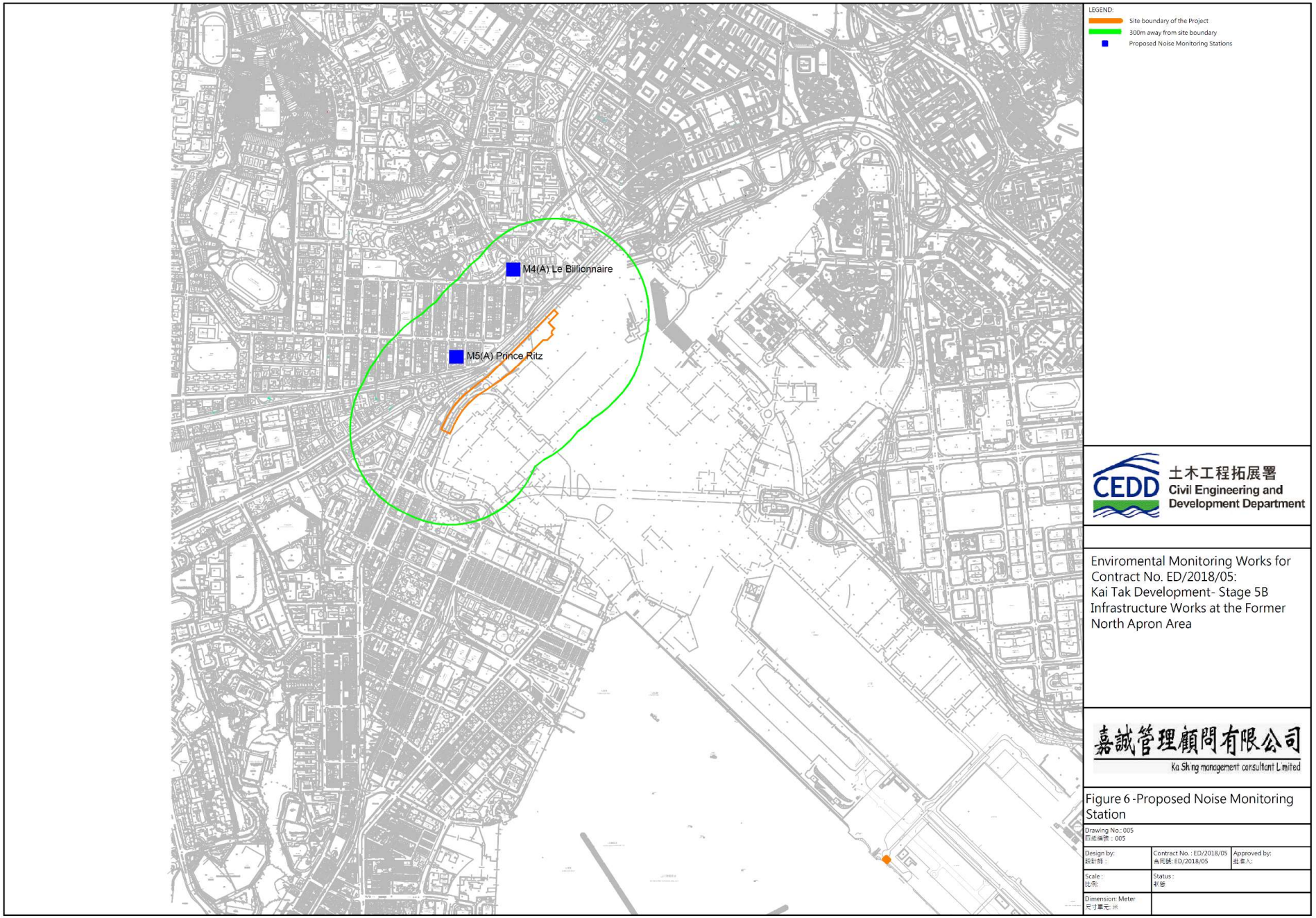
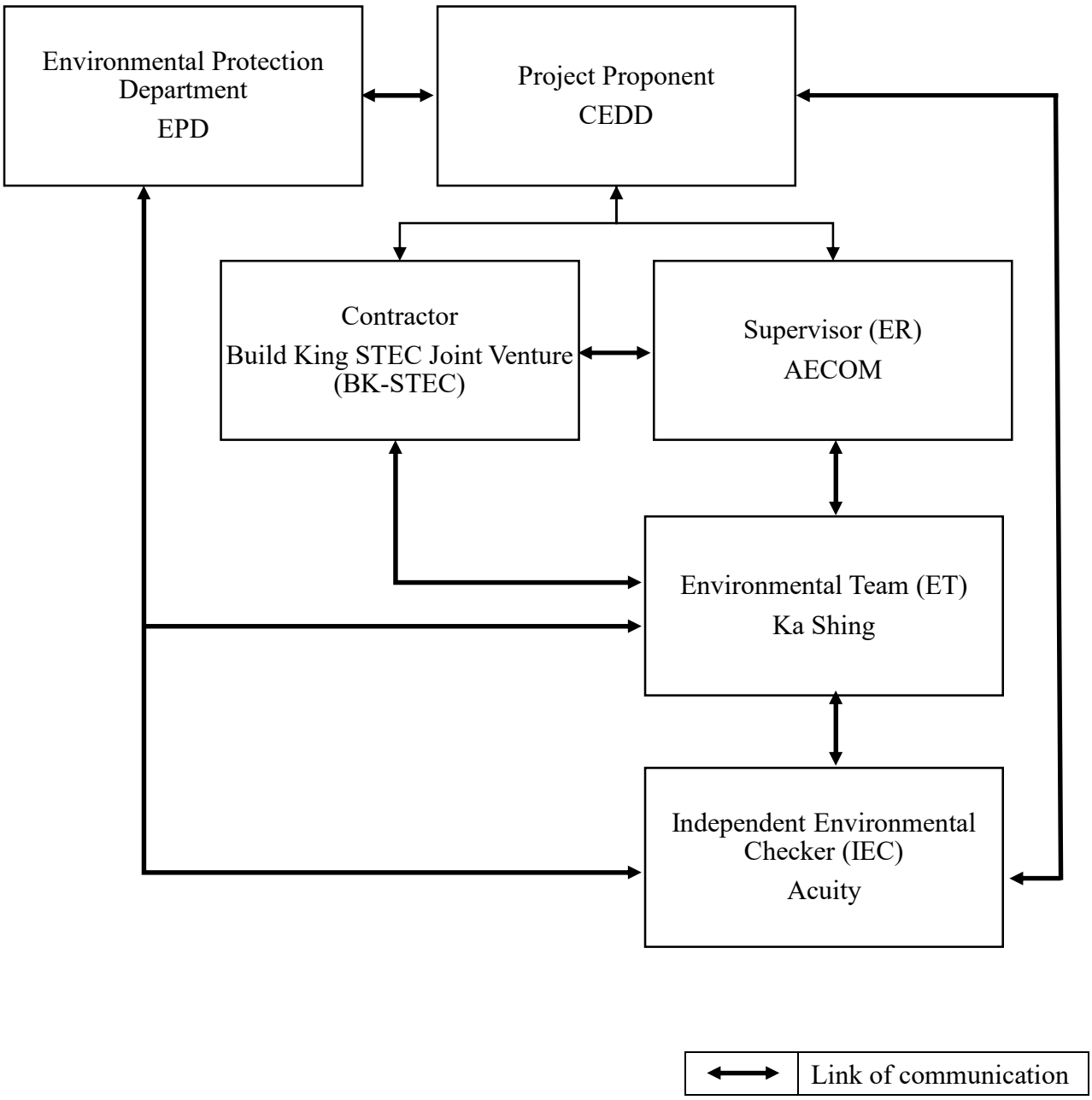


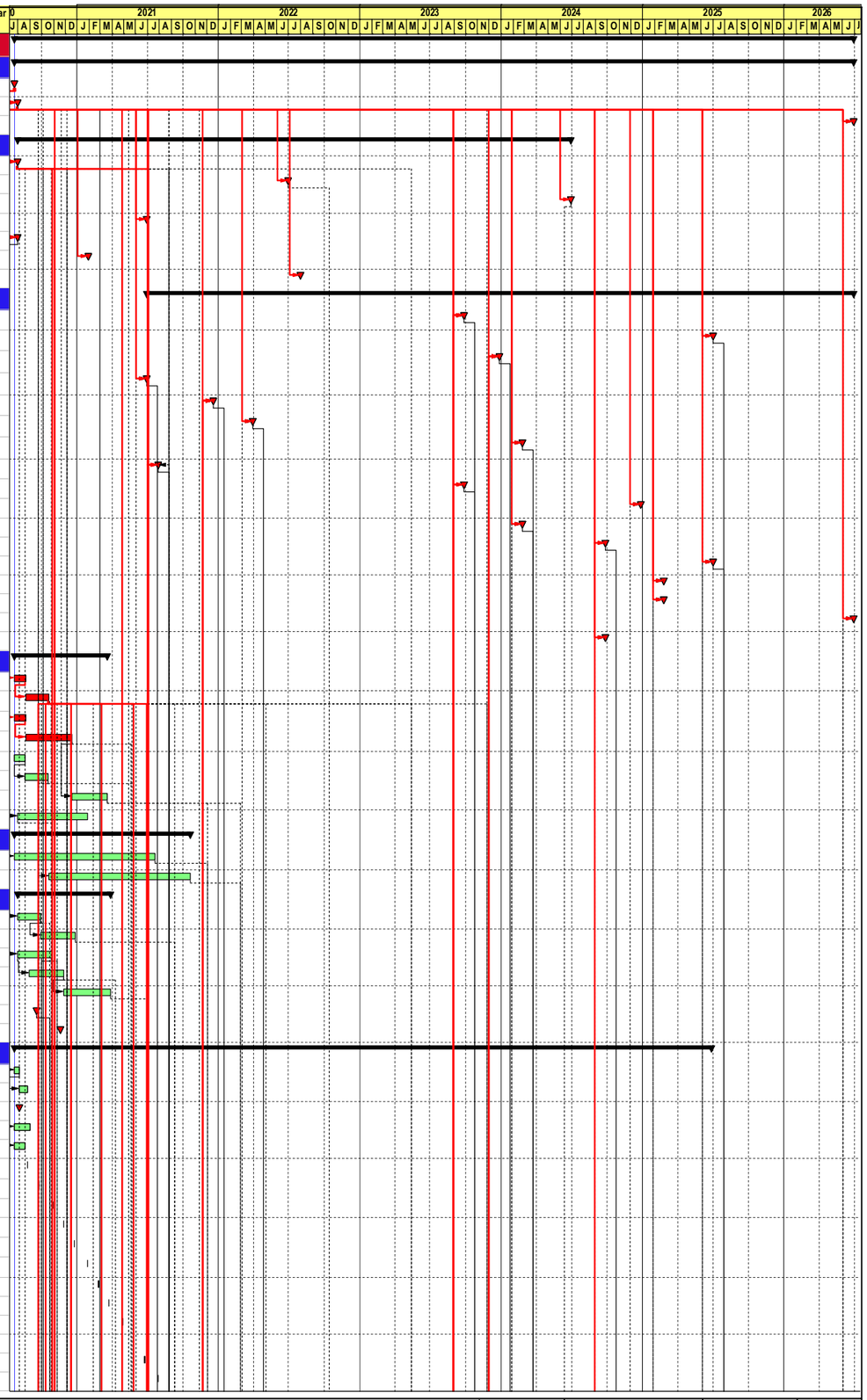
Figure 6 – Noise Monitoring Stations

Appendix A – Organization Chart of EM&A Team


Environmental Protection Department
EPD
Project Proponent
CEDD
Contractor
Build King STEC Joint Venture (BK-STEC)
Supervisor (ER)
AECOM
Environmental Team (ET)
Ka Shing
Independent Environmental Checker (IEC)
Acuity
Link of communication

Appendix B – Construction Programme

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar
KAI TAK DEVELOPMENT - STAGE 5B INFRASTRUCTURE WORKS AT THE FORMER NORTH APRON AREA		2170			22-Jul-20	30-Jun-26	22-Jul-20	30-Jun-26	0	
KEY DATES		2170			22-Jul-20	30-Jun-26	22-Jul-20	30-Jun-26	0	2
KTD.KD.1000	Contract date	0	0d	0d	22-Jul-20		22-Jul-20		0	2
KTD.KD.1010	Contract starting date	0	0d	0d	31-Jul-20		31-Jul-20		0	2
KTD.KD.1020	Contract completion date	0	0d	0d		30-Jun-26		30-Jun-26	0	2
ACCESS DATES		1429			31-Jul-20	29-Jun-24	31-Jul-20	29-Jun-24	0	2
KTD.KD.1030	Parts 1, 1A, 1B, 2, 3, 4, 7, 8 and 9	0	0d	0d	31-Jul-20		31-Jul-20		0	2
KTD.KD.1040	Part 5	0	0d	0d	30-Jun-22		30-Jun-22		0	2
KTD.KD.1050	Part 6	0	0d	0d	29-Jun-24		29-Jun-24		0	2
KTD.KD.1060	Part 6A	0	0d	0d	30-Jun-21		30-Jun-21		0	2
KTD.KD.1070	Works Areas WA1, WA2, WA3, WA4, WA5, WA6 and WA7	0	0d	0d	31-Jul-20		31-Jul-20		0	2
KTD.KD.1080	Part 10 and Works Area WA4A	0	0d	0d	29-Jan-21		29-Jan-21		0	2
KTD.KD.1090	Works Area WA8	0	0d	0d	31-Jul-22		31-Jul-22		0	2
CONTRACT SECTIONAL COMPLETION DATES		1826			30-Jun-21	30-Jun-26	30-Jun-21	30-Jun-26	0	2
KTD.KD.1100	Section 1:Compl of all works within Parts 1 and 8 and Elevated Landscaped Walkway LW-02	0	0d	0d		26-Sep-23		26-Sep-23	0	2
KTD.KD.1110	Section 2:Compl of all works within Parts 1B, 6A and 7 and remaining works of all Parts	0	0d	0d		30-Jun-25		30-Jun-25	0	2
KTD.KD.1120	Section 3:Compl of all works within Parts 1A and 5 and drainage and sewage works within Part 6	0	0d	0d		27-Dec-23		27-Dec-23	0	2
KTD.KD.1130	Section 4:Compl of all UU and services within Part 4	0	0d	0d		30-Jun-21		30-Jun-21	0	2
KTD.KD.1140	Section 5:Compl of all UU and services within Part 3, rising mains diversion & demolition of ext. structures	0	0d	0d		17-Dec-21		17-Dec-21	0	2
KTD.KD.1150	Section 6:Compl of all works within Part 2 and Part 10	0	0d	0d		29-Mar-22		29-Mar-22	0	2
KTD.KD.1160	Section 7:Compl of all works within Part 3 (Subj to excision within 416days from starting date)	0	0d	0d		25-Feb-24		25-Feb-24	0	2
KTD.KD.1170	Section 8:Compl of all Box Culvert B1 within Parts 1 and 3 and diversion and abandon works	0	0d	0d		29-Jul-21		29-Jul-21	0	2
KTD.KD.1180	Section 9:Compl of DCS works within Parts 1 and 1A (Subj to excision within 239days from starting date)	0	0d	0d		26-Sep-23		26-Sep-23	0	2
KTD.KD.1190	Section 10:Compl of establ work for all landscape works(except Sections 14, 15 and 16)	0	0d	0d		26-Dec-24		26-Dec-24	0	2
KTD.KD.1200	Section 11:Compl of all works within Part 4 (Subj to excision within 244days from starting date)	0	0d	0d		25-Feb-24		25-Feb-24	0	2
KTD.KD.1210	Section 12:Compl of all SB-01 within Part 1A	0	0d	0d		25-Sep-24		25-Sep-24	0	2
KTD.KD.1220	Section 13:Compl of all works within Part 6	0	0d	0d		30-Jun-25		30-Jun-25	0	2
KTD.KD.1230	Section 14:Compl of estab work for landscape works within Part 3 (Subj to excision within 416days from starting date)	0	0d	0d		24-Feb-25		24-Feb-25	0	2
KTD.KD.1240	Section 15:Compl of estab work for landscape works within Part 4 (Subj to excision within 244days from starting date)	0	0d	0d		24-Feb-25		24-Feb-25	0	2
KTD.KD.1250	Section 16:Compl of establ work for landscape works within Part 6	0	0d	0d		30-Jun-26		30-Jun-26	0	2
KTD.KD.1260	Section 17:Compl of establ work for landscape works under Section 1	0	0d	0d		25-Sep-24		25-Sep-24	0	2
DESIGN, SUBMISSIONS, PERMIT APPLICATION & APPROVAL		240			22-Jul-20	18-Mar-21	22-Jul-20	24-Feb-22	343	2
KTD.KD.1270	Prepare/submission of temporary works design	30	30d	0d	22-Jul-20	20-Aug-20	22-Jul-20	20-Aug-20	0	2
KTD.KD.1280	Consultation/approval of temporary works design	60	60d	0d	21-Aug-20	19-Oct-20	21-Aug-20	19-Oct-20	0	2
KTD.KD.1290	Prepare/submit Temp Geotechnical&Structural Works to HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	30	30d	0d	22-Jul-20	20-Aug-20	22-Jul-20	20-Aug-20	0	2
KTD.KD.1300	Consult/approve Temp Geotechnical&Structural Works by HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	120	120d	0d	21-Aug-20	18-Dec-20	21-Aug-20	18-Dec-20	0	2
KTD.KD.1310	Prepare/submission of Temporary Drainage and Sewerage Management Plan to DSD/CEDD and others	29	29d	0d	22-Jul-20	19-Aug-20	23-Jul-20	20-Aug-20	1	2
KTD.KD.1320	Consultation/approval of Temporary Drainage and Sewerage Management Plan by DSD/CEDD and others	60	60d	0d	20-Aug-20	18-Oct-20	21-Aug-20	19-Oct-20	1	2
KTD.KD.1330	Application/approval of CNP for night works by relevant authorities and liaison with projects nearby	90	90d	0d	19-Dec-20	18-Mar-21	27-Nov-21	24-Feb-22	343	2
KTD.KD.1340	Application/approval of permits or other statutory submissions by relevant authorities (i.e. CEDD,HyD,WSD,XPMS & EPD)	180	180d	0d	31-Jul-20	26-Jan-21	03-Sep-20	01-Mar-21	34	2
PROCUREMENT, FABRICATION AND DELIVERY		455			22-Jul-20	19-Oct-21	31-Dec-20	26-Mar-22	158	2
KTD.KD.1350	Design, procurement, fabrication and delivery of RTBM	365	365d	0d	22-Jul-20	21-Jul-21	31-Dec-20	30-Dec-21	162	2
KTD.KD.1360	Procurement, fabrication, delivery of temporary steel lining casting and pre-assembly	365	365d	0d	20-Oct-20	19-Oct-21	27-Mar-21	26-Mar-22	158	2
TEMPORARY TRAFFIC MANGEMENT		240			31-Jul-20	27-Mar-21	12-Sep-20	29-Mar-22	367	2
KTD.KD.1370	Prepare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Road and Concorde Road roundabout	60	46d	14d	31-Jul-20	28-Sep-20	21-Mar-21	19-May-21	233	2
KTD.KD.1380	Prepare/Submit/Consult/Approval of TTA for working platform erection crossing Concorde Road roundabout	90	76d	14d	29-Sep-20	27-Dec-20	30-Dec-21	29-Mar-22	457	2
KTD.KD.1390	Prepare/Submit/Consult/Approval of TTA for GI/diversion/preliminary works at PERE and Sa Po Road	90	76d	14d	31-Jul-20	28-Oct-20	12-Sep-20	10-Dec-20	43	2
KTD.KD.1400	Prepare/Submit/Consult/Approval of TTA for 2-staged Sa Po Road and PERE W/B diversion	90	76d	14d	30-Aug-20	27-Nov-20	07-Feb-21	07-May-21	161	2
KTD.KD.1410	Prepare/Submit/Consult/Approval of TTA for road and drainage works along Olympic Avenue	120	106d	14d	28-Nov-20	27-Mar-21	02-Nov-21	01-Mar-22	339	2
KTD.KD.2180	1st TMLG Meeting	0				18-Sep-20		18-Sep-20	0	2
KTD.KD.2220	2nd TMLG Meeting	0				19-Nov-20		19-Nov-20	0	2
CONSTRUCTION HEALTH AND SAFETY MANAGEMENT		1801			22-Jul-20	26-Jun-25	23-Jul-20	26-Jun-25	0	2
KTD.KD.1420	Prepare/submit of Draft Safety Plan	13	13d	0d	22-Jul-20	03-Aug-20	23-Jul-20	04-Aug-20	1	2
KTD.KD.1430	Prepare/submit Safety Plan	21	21d	0d	04-Aug-20	24-Aug-20	05-Aug-20	25-Aug-20	1	2
KTD.KD.1440	Conduct meeting to discuss Draft Safety Plan	0	0d	0d		03-Aug-20		03-Aug-20	0	2
KTD.KD.1450	Prepare/submit Site Traffic Safety Management Plan	41	41d	0d	22-Jul-20	31-Aug-20	23-Jul-20	01-Sep-20	1	2
KTD.KD.1460	Prepare/submit Construction Health and Safety Plan	29	29d	0d	22-Jul-20	19-Aug-20	23-Jul-20	20-Aug-20	1	2
KTD.KD.1470	1st SSMC Meeting	1	1d	0d	26-Aug-20	26-Aug-20	26-Aug-20	26-Aug-20	0	2
KTD.KD.1480	2nd SSMC Meeting	1	1d	0d	23-Sep-20	23-Sep-20	23-Sep-20	23-Sep-20	0	2
KTD.KD.1490	3rd SSMC Meeting	1	1d	0d	29-Oct-20	29-Oct-20	29-Oct-20	29-Oct-20	0	2
KTD.KD.1500	4th SSMC Meeting	1	1d	0d	26-Nov-20	26-Nov-20	26-Nov-20	26-Nov-20	0	2
KTD.KD.1510	5th SSMC Meeting	1	1d	0d	24-Dec-20	24-Dec-20	24-Dec-20	24-Dec-20	0	2
KTD.KD.1520	6th SSMC Meeting	1	1d	0d	28-Jan-21	28-Jan-21	28-Jan-21	28-Jan-21	0	2
KTD.KD.1530	7th SSMC Meeting	1	1d	0d	25-Feb-21	25-Feb-21	25-Feb-21	25-Feb-21	0	2
KTD.KD.1540	8th SSMC Meeting	1	1d	0d	24-Mar-21	24-Mar-21	24-Mar-21	24-Mar-21	0	2
KTD.KD.1550	9th SSMC Meeting	1	1d	0d	29-Apr-21	29-Apr-21	29-Apr-21	29-Apr-21	0	2
KTD.KD.1560	10th SSMC Meeting	1	1d	0d	27-May-21	27-May-21	27-May-21	27-May-21	0	2
KTD.KD.1570	11th SSMC Meeting	1	1d	0d	24-Jun-21	24-Jun-21	24-Jun-21	24-Jun-21	0	2
KTD.KD.1580	12th SSMC Meeting	1	1d	0d	29-Jul-21	29-Jul-21	29-Jul-21	29-Jul-21	0	2



Milestone
Critical Milestone
Critical Work
Planned W...
Summary

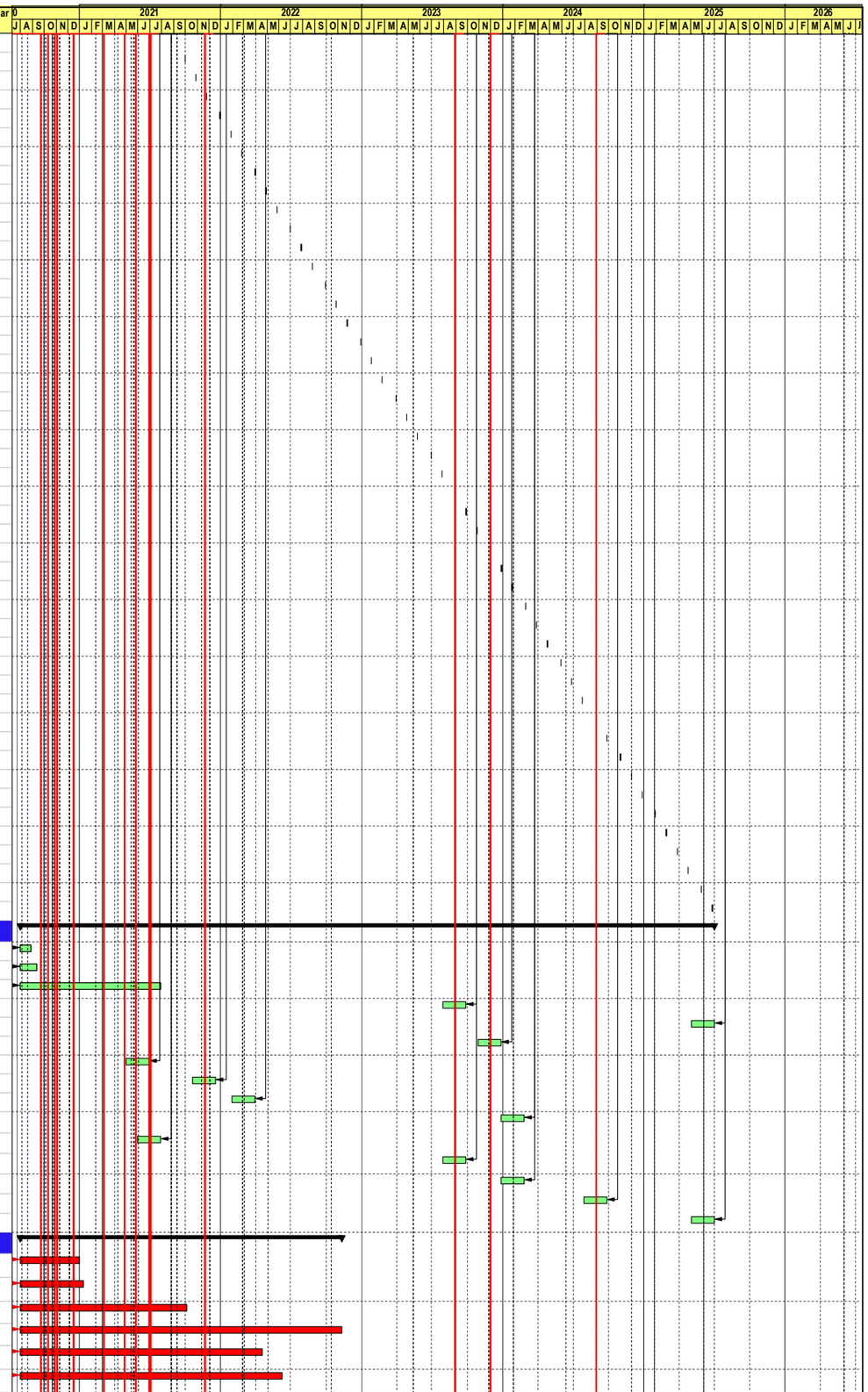
Build King – STEC Joint Venture

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

WORKS PROGRAMME

Date	Revision	Checked	Approv...
21-Aug-20	Revision 1	LC	GC
10-Oct-20	Revision 2	LC	GC
18-Nov-20	Revision 3	LC	GC

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar
KTD.KD.1590	13th SSMC Meeting	1	1d	0d	26-Aug-21	26-Aug-21	26-Aug-21	26-Aug-21	0	2
KTD.KD.1600	14th SSMC Meeting	1	1d	0d	30-Sep-21	30-Sep-21	30-Sep-21	30-Sep-21	0	2
KTD.KD.1610	15th SSMC Meeting	1	1d	0d	28-Oct-21	28-Oct-21	28-Oct-21	28-Oct-21	0	2
KTD.KD.1620	16th SSMC Meeting	1	1d	0d	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21	0	2
KTD.KD.1630	17th SSMC Meeting	1	1d	0d	30-Dec-21	30-Dec-21	30-Dec-21	30-Dec-21	0	2
KTD.KD.1640	18th SSMC Meeting	1	1d	0d	27-Jan-22	27-Jan-22	27-Jan-22	27-Jan-22	0	2
KTD.KD.1650	19th SSMC Meeting	1	1d	0d	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	0	2
KTD.KD.1660	20th SSMC Meeting	1	1d	0d	31-Mar-22	31-Mar-22	31-Mar-22	31-Mar-22	0	2
KTD.KD.1670	21st SSMC Meeting	1	1d	0d	28-Apr-22	28-Apr-22	28-Apr-22	28-Apr-22	0	2
KTD.KD.1680	22nd SSMC Meeting	1	1d	0d	26-May-22	26-May-22	26-May-22	26-May-22	0	2
KTD.KD.1690	23rd SSMC Meeting	1	1d	0d	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	0	2
KTD.KD.1700	24th SSMC Meeting	1	1d	0d	28-Jul-22	28-Jul-22	28-Jul-22	28-Jul-22	0	2
KTD.KD.1710	25th SSMC Meeting	1	1d	0d	25-Aug-22	25-Aug-22	25-Aug-22	25-Aug-22	0	2
KTD.KD.1720	26th SSMC Meeting	1	1d	0d	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	0	2
KTD.KD.1730	27th SSMC Meeting	1	1d	0d	27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	0	2
KTD.KD.1740	28th SSMC Meeting	1	1d	0d	24-Nov-22	24-Nov-22	24-Nov-22	24-Nov-22	0	2
KTD.KD.1750	29th SSMC Meeting	1	1d	0d	29-Dec-22	29-Dec-22	29-Dec-22	29-Dec-22	0	2
KTD.KD.1760	30th SSMC Meeting	1	1d	0d	26-Jan-23	26-Jan-23	26-Jan-23	26-Jan-23	0	2
KTD.KD.1770	31st SSMC Meeting	1	1d	0d	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0	2
KTD.KD.1780	32nd SSMC Meeting	1	1d	0d	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	0	2
KTD.KD.1790	33rd SSMC Meeting	1	1d	0d	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	0	2
KTD.KD.1800	34th SSMC Meeting	1	1d	0d	25-May-23	25-May-23	25-May-23	25-May-23	0	2
KTD.KD.1810	35th SSMC Meeting	1	1d	0d	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	0	2
KTD.KD.1820	36th SSMC Meeting	1	1d	0d	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	0	2
KTD.KD.1830	37th SSMC Meeting	1	1d	0d	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	0	2
KTD.KD.1840	38th SSMC Meeting	1	1d	0d	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	0	2
KTD.KD.1850	39th SSMC Meeting	1	1d	0d	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2
KTD.KD.1860	40th SSMC Meeting	1	1d	0d	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	0	2
KTD.KD.1870	41st SSMC Meeting	1	1d	0d	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	0	2
KTD.KD.1880	42nd SSMC Meeting	1	1d	0d	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	0	2
KTD.KD.1890	43rd SSMC Meeting	1	1d	0d	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	0	2
KTD.KD.1900	44th SSMC Meeting	1	1d	0d	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	0	2
KTD.KD.1910	45th SSMC Meeting	1	1d	0d	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2
KTD.KD.1920	46th SSMC Meeting	1	1d	0d	30-May-24	30-May-24	30-May-24	30-May-24	0	2
KTD.KD.1930	47th SSMC Meeting	1	1d	0d	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	0	2
KTD.KD.1940	48th SSMC Meeting	1	1d	0d	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0	2
KTD.KD.1950	49th SSMC Meeting	1	1d	0d	29-Aug-24	29-Aug-24	29-Aug-24	29-Aug-24	0	2
KTD.KD.1960	50th SSMC Meeting	1	1d	0d	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	0	2
KTD.KD.1970	51st SSMC Meeting	1	1d	0d	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	0	2
KTD.KD.1980	52nd SSMC Meeting	1	1d	0d	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	0	2
KTD.KD.1990	53rd SSMC Meeting	1	1d	0d	26-Dec-24	26-Dec-24	26-Dec-24	26-Dec-24	0	2
KTD.KD.2000	54th SSMC Meeting	1	1d	0d	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	0	2
KTD.KD.2010	55th SSMC Meeting	1	1d	0d	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	0	2
KTD.KD.2020	56th SSMC Meeting	1	1d	0d	27-Mar-25	27-Mar-25	27-Mar-25	27-Mar-25	0	2
KTD.KD.2030	57th SSMC Meeting	1	1d	0d	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	0	2
KTD.KD.2040	58th SSMC Meeting	1	1d	0d	29-May-25	29-May-25	29-May-25	29-May-25	0	2
KTD.KD.2050	59th SSMC Meeting	1	1d	0d	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	0	2
BIM RELATED DELIVERABLES		**1796**			**31-Jul-20**	**30-Jun-25**	**01-Aug-20**	**30-Jun-26**	**365**	**2**
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	29d	0d	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2
KTD.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	44d	0d	31-Jul-20	12-Sep-20	01-Aug-20	13-Sep-20	1	2
KTD.KD.2080	Prepare/submit proposal of asset information requirement	364	364d	0d	31-Jul-20	29-Jul-21	01-Aug-20	30-Jul-21	1	2
KTD.KD.2090	Prepare/submit Asset Data Deliverables for Section 1	60	60d	0d	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	1008	2
KTD.KD.2100	Prepare/submit Asset Date Deliverables for Section 2	60	60d	0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26	365	2
KTD.KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	60d	0d	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26	916	2
KTD.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	60d	0d	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2
KTD.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	60d	0d	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	1656	2
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	60d	0d	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26	1554	2
KTD.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	60d	0d	28-Dec-23	25-Feb-24	02-May-26	30-Jun-26	856	2
KTD.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	60d	0d	31-May-21	29-Jul-21	02-May-26	30-Jun-26	1797	2
KTD.KD.2170	Prepare/submit Asset Date Deliverables for Section 9	60	60d	0d	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	1008	2
KTD.KD.2190	Prepare/submit Asset Date Deliverables for Section 11	60	60d	0d	28-Dec-23	25-Feb-24	02-May-26	30-Jun-26	856	2
KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 12	60	60d	0d	28-Jul-24	25-Sep-24	02-May-26	30-Jun-26	643	2
KTD.KD.2210	Prepare/submit Asset Date Deliverables for Section 13	60	60d	0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26	365	2
VALUE-ENGINEERING SHCEME DROP-OFF SCHEDULE		**833**			**31-Jul-20**	**10-Nov-22**	**31-Jul-20**	**10-Nov-22**	**0**	**2**
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	153	96d	0d	31-Jul-20	30-Dec-20	31-Jul-20	30-Dec-20	0	2
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	165	133d	0d	31-Jul-20	11-Jan-21	31-Jul-20	11-Jan-21	0	2
KTD.VE.1020	Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73	431	426d	0d	01-Aug-20	05-Oct-21	01-Aug-20	05-Oct-21	0	2
KTD.VE.1030	Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14	832	752d	0d	01-Aug-20	10-Nov-22	01-Aug-20	10-Nov-22	0	2
KTD.VE.1040	Review/prepare/submit VE scheme for piling arrangement for lift shaft of KS10	627	766d	0d	01-Aug-20	19-Apr-22	01-Aug-20	19-Apr-22	0	2
KTD.VE.1050	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	677	288d	0d	31-Jul-20	07-Jun-22	31-Jul-20	07-Jun-22	0	2



Milestone
Critical Milestone
Critical Work
Planned W...
Summary

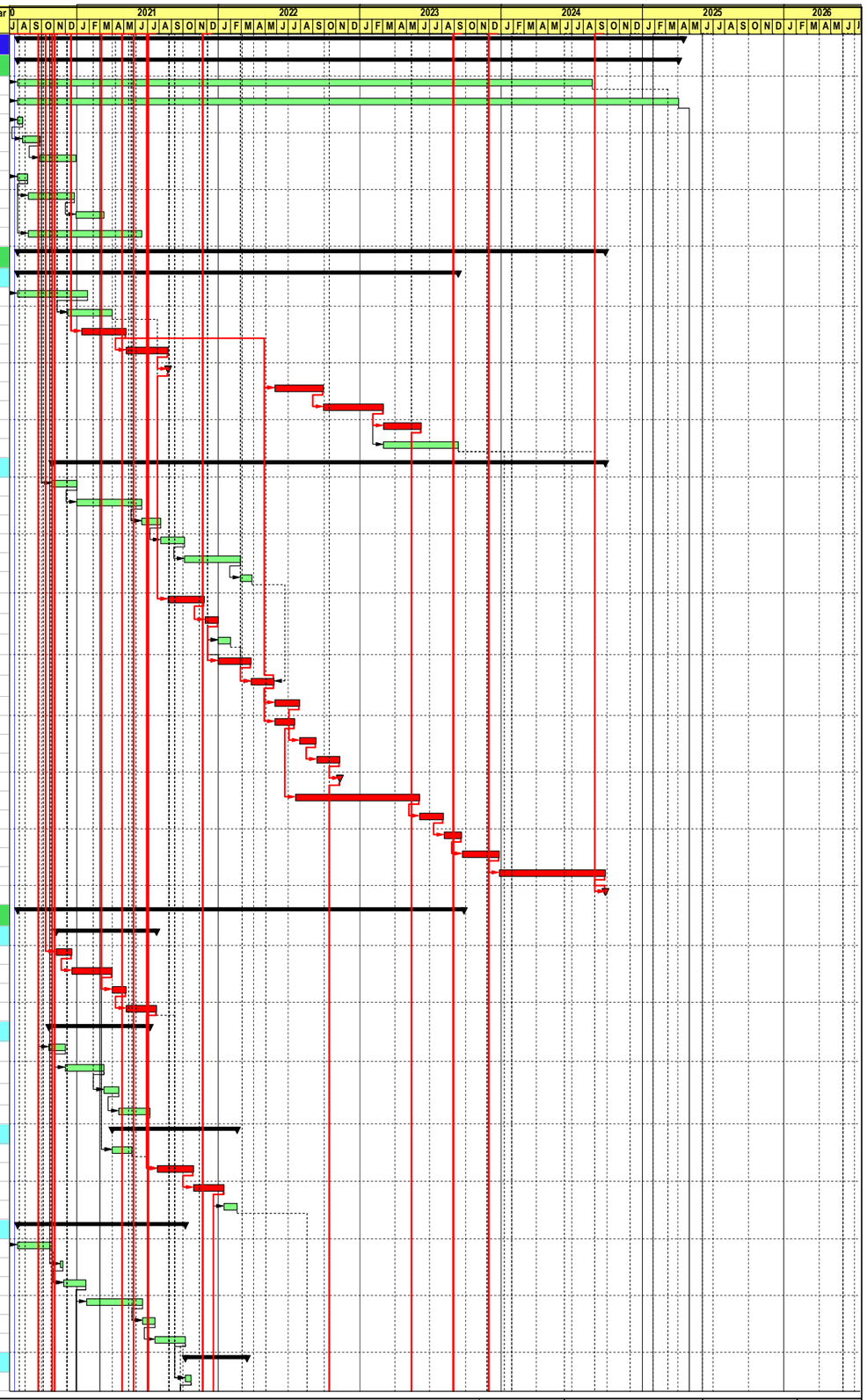
Build King – STEC Joint Venture

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

WORKS PROGRAMME

Date	Revision	Checked	Approv...
21-Aug-20	Revision 1	LC	GC
10-Oct-20	Revision 2	LC	GC
18-Nov-20	Revision 3	LC	GC

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar
CIVIL AND STRUCTURAL WORKS		1720			31-Jul-20	15-Apr-25	31-Jul-20	30-Jun-26	441	
GENERAL AND PRELIMINARY WORKS		1708			31-Jul-20	03-Apr-25	01-Aug-20	30-Jun-26	453	
KTD.GW.1000	General and preliminary works (inclu site formation, site set-up, access, temp drain. sys, ground investigation and etc)	1200	1200d	0d	31-Jul-20	22-Aug-24	07-Jun-21	30-Jun-25	248	1
KTD.GW.1010	Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Route and other temporary access	1383	1383d	0d	31-Jul-20	03-Apr-25	17-Oct-20	30-Jun-25	65	1
KTD.GW.1020	Prepare/submit site arrangement plan (inclu hoarding, project sign board and security arrangement)	13	13d	0d	31-Jul-20	12-Aug-20	01-Aug-20	13-Aug-20	1	2
KTD.GW.1030	Design/submit/approval site layout plan and Contractor's site accommodation using MiC method	44	30d	14d	13-Aug-20	25-Sep-20	14-Aug-20	26-Sep-20	1	2
KTD.GW.1040	Construct foundation and erect Contractor's site accommodation	76	62d	14d	26-Sep-20	29-Dec-20	03-Apr-26	30-Jun-26	1630	1
KTD.GW.1050	Tree Survey	27	27d	0d	31-Jul-20	26-Aug-20	01-Aug-20	27-Aug-20	1	2
KTD.GW.1055	Initial tree survey report and tree felling application	120	120d	0d	27-Aug-20	24-Dec-20	23-Dec-25	21-Apr-26	1944	2
KTD.GW.1060	Tree felling works	60	53d	7d	28-Dec-20	11-Mar-21	22-Apr-26	30-Jun-26	1572	1
KTD.GW.1070	Protection to retained trees and tree transplating works	234	208d	26d	27-Aug-20	17-Jun-21	25-Sep-25	30-Jun-26	1498	1
CONSTRUCTION OF PEDESTRIAN SUBWAY SB-01		1518			31-Jul-20	25-Sep-24	11-Dec-20	25-Sep-24	0	
PEDESTRIAN SUBWAY SB-01 UNDER PERE AND PROPOSED ROAD D1 USING CUT AND COVER METHOD		1138			31-Jul-20	11-Sep-23	29-Dec-20	27-Dec-23	107	
KTD.SB.1000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	180d	0d	31-Jul-20	26-Jan-21	29-Dec-20	26-Jun-21	151	2
KTD.SB.1010	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables)	91	84d	7d	07-Dec-20	01-Apr-21	06-May-21	23-Aug-21	115	1
KTD.SB.1020	Installation of sheet piles for South Shaft and construction of traffic deck at Proposed Road D1	89	75d	14d	12-Jan-21	07-May-21	12-Jan-21	07-May-21	0	1
KTD.SB.1030	Construction of road diversion for PERE westbound diversion (TTA Scheme B1)	89	75d	14d	08-May-21	23-Aug-21	08-May-21	23-Aug-21	0	1
KTD.SB.1040	Implementation of traffic diversion for PERE westbound	0	0d	0d		23-Aug-21		23-Aug-21	0	1
KTD.SB.1050	Installation of ELS and excavation for South Shaft at Proposed Road D1	104	132d	12d	26-May-22	28-Sep-22	26-May-22	28-Sep-22	0	1
KTD.SB.1060	Construction of RC structure from CH114.648 to CH67	126	114d	12d	29-Sep-22	03-Mar-23	29-Sep-22	03-Mar-23	0	1
KTD.SB.1070	Backfilling for South Shaft at Proposed Road D1	78	64d	14d	04-Mar-23	09-Jun-23	04-Mar-23	09-Jun-23	0	1
KTD.SB.1080	Installation of steelworks, ABWF, other facilities, lift and other E&M installation	156	130d	26d	04-Mar-23	11-Sep-23	21-Jun-23	27-Dec-23	87	1
PEDESTRIAN SUBWAY SB-01 UNDER PERE AND SA PO ROAD USING TRENCHLESS METHOD		1428			29-Oct-20	25-Sep-24	11-Dec-20	25-Sep-24	0	
KTD.SB.1090	Construction of road diversion of Sa Po Road (TTA Scheme A1, incl. carriageway and footpath)	52	46d	6d	29-Oct-20	30-Dec-20	11-Dec-20	16-Feb-21	37	1
KTD.SB.1100	Diversion of existing underground utilities and services (incl. DN1800 drain pipe, 11kV cables and etc.)	130	118d	12d	31-Dec-20	16-Jun-21	17-Feb-21	30-Jul-21	37	1
KTD.SB.1110	Installation of partial pipe pile and sheet pile of North Shaft and traffic deck at Sa Po Road	40	37d	3d	17-Jun-21	03-Aug-21	31-Jul-21	15-Sep-21	37	1
KTD.SB.1120	Construction of road diversion of Sa Po Road (TTA Scheme A2, inclu. carriageway and footpath)	52	46d	6d	04-Aug-21	05-Oct-21	16-Sep-21	18-Nov-21	37	1
KTD.SB.1130	Installation of Remaining ELS and excavation of North Shaft at Sa Po Road	116	104d	12d	06-Oct-21	25-Feb-22	19-Nov-21	11-Apr-22	37	1
KTD.SB.1140	Ground improvement works at North Shaft at Sa Po Road for RTBM drive-in	26	24d	2d	26-Feb-22	28-Mar-22	12-Apr-22	17-May-22	37	1
KTD.SB.1150	Installation of ELS and excavation for Intermediate Shaft at PERE westbound and tunneling setup	78	72d	6d	24-Aug-21	25-Nov-21	24-Aug-21	25-Nov-21	0	1
KTD.SB.1160	Ground improvement works at Intermediate Shaft at PERE westbound for break-in	27	24d	3d	27-Nov-21	30-Dec-21	27-Nov-21	30-Dec-21	0	1
KTD.SB.1170	Conduct seismic geophysical survey for PERE and other site investigation works	26	24d	2d	31-Dec-21	31-Jan-22	25-Feb-22	26-Mar-22	44	1
KTD.SB.1180	Mobilization, assembly and SAT of RTBM at Intermediate Shaft at PERE westbound	70	64d	6d	31-Dec-21	26-Mar-22	31-Dec-21	26-Mar-22	0	1
KTD.SB.1190	Launching of RTBM towards North Shaft at Sa Po Road from CH57 to CH17 (38m, 1.5m/day)	60	48d	12d	27-Mar-22	25-May-22	27-Mar-22	25-May-22	0	2
KTD.SB.1200	Dismantling of RTBM and removal from Intermediate Shaft at PERE westbound	54	52d	2d	26-May-22	29-Jul-22	26-May-22	29-Jul-22	0	1
KTD.SB.1210	Installation of horizontal pipe pile and excavation from CH14 to CH17 (74nos HPP, 270m3 exca)	43	37d	6d	26-May-22	16-Jul-22	26-May-22	16-Jul-22	0	1
KTD.SB.1220	Construction of RC structure at Intermediate Shaft at PERE westbound from CH57 to CH67	36	30d	6d	30-Jul-22	09-Sep-22	30-Jul-22	09-Sep-22	0	1
KTD.SB.1230	Backfilling for Intermediate Shaft at PERE westbound and reinstatement of existing road at PERE westbound	48	42d	6d	13-Sep-22	09-Nov-22	13-Sep-22	09-Nov-22	0	1
KTD.SB.1240	Remove TTA and resume traffic at PERE westbound	0	0d	0d		09-Nov-22		09-Nov-22	0	1
KTD.SB.1250	Construction of RC structure at North Shaft at Sa Po Road and from CH15 to CH57	260	236d	24d	18-Jul-22	03-Jun-23	18-Jul-22	03-Jun-23	0	1
KTD.SB.1260	Backfilling for North Shaft at Sa Po Road	52	46d	6d	05-Jun-23	05-Aug-23	05-Jun-23	05-Aug-23	0	1
KTD.SB.1270	Installation of ELS and excavation for remaining staircase and escalator trough structure	40	33d	6d	07-Aug-23	21-Sep-23	07-Aug-23	21-Sep-23	0	1
KTD.SB.1280	Construction of remaining staircase and escalator trough structure and backfilling	78	64d	14d	22-Sep-23	27-Dec-23	22-Sep-23	27-Dec-23	0	1
KTD.SB.1290	Installation of steelworks, ABWF, other facilities, lift, escalator and other E&M installation	221	200d	21d	28-Dec-23	25-Sep-24	28-Dec-23	25-Sep-24	0	1
KTD.SB.1300	Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)	0	0d	0d		25-Sep-24		25-Sep-24	0	1
CONSTRUCTION OF ELEVATED WALKWAY LW-02		1153			31-Jul-20	26-Sep-23	07-Nov-20	26-Sep-23	0	
PIER 10		206			07-Nov-20	24-Jul-21	07-Nov-20	24-Jul-21	0	1
KTD.LW.1080	Pre-drilling works (2 nos, 1 rig)	35	33d	2d	07-Nov-20	17-Dec-20	07-Nov-20	17-Dec-20	0	1
KTD.LW.1090	Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)	80	75d	5d	18-Dec-20	31-Mar-21	18-Dec-20	31-Mar-21	0	1
KTD.LW.1100	Installation of ELS and excavation for pile cap construction (273.5m3 exca, 1 team)	26	22d	4d	01-Apr-21	06-May-21	01-Apr-21	06-May-21	0	1
KTD.LW.1110	Construction of RC structure (pile cap & pier column) (149m3, 1 team)	65	53d	12d	07-May-21	24-Jul-21	07-May-21	24-Jul-21	0	1
PIER 9		206			20-Oct-20	07-Jul-21	07-Nov-20	24-Jul-21	15	1
KTD.LW.1000	Pre-drilling works (2 nos, 1 rig)	35	33d	2d	20-Oct-20	30-Nov-20	07-Nov-20	17-Dec-20	15	1
KTD.LW.1010	Piling works for bored piles (2nos, 2200dia x 67m, 1 rig)	80	75d	5d	01-Dec-20	10-Mar-21	18-Dec-20	31-Mar-21	15	1
KTD.LW.1020	Installation of ELS and excavation for pile cap construction (520.5m3 exca, 1 team)	26	22d	4d	11-Mar-21	17-Apr-21	01-Apr-21	06-May-21	15	1
KTD.LW.1030	Construction of RC structure (pile cap & pier column) (184m3, 1 team)	65	53d	12d	19-Apr-21	07-Jul-21	07-May-21	24-Jul-21	15	1
FOOTBRIDGE (PIER 9 TO PIER 10)		323			01-Apr-21	17-Feb-22	04-Jun-21	13-Sep-22	208	
KTD.LW.1040	Piling works for temp. pre-bored H-piles (12 nos, 610dia x 69m, 2 rigs)	52	42d	10d	01-Apr-21	22-May-21	04-Jun-21	25-Jul-21	64	2
KTD.LW.1050	Installation and erecting temp. working platform	78	52d	26d	26-Jul-21	27-Oct-21	26-Jul-21	27-Oct-21	0	1
KTD.LW.1060	Construction of RC bridge structure (1079m3, 4 teams)	65	50d	15d	28-Oct-21	14-Jan-22	28-Oct-21	14-Jan-22	0	1
KTD.LW.1070	Prestressing works	26	26d	0d	15-Jan-22	17-Feb-22	12-Aug-22	13-Sep-22	168	1
PIER 11		433			31-Jul-20	06-Oct-21	27-Feb-21	29-Mar-22	174	
KTD.LW.1120	Liaison/coordinate with adjacent project for TTA arrangement	90	90d	0d	31-Jul-20	28-Oct-20	27-Feb-21	27-May-21	211	2
KTD.LW.1130	Implementation of TTA	7	7d	0d	18-Nov-20	25-Nov-20	20-May-21	27-May-21	142	1
KTD.LW.1140	Pre-drilling works (4 nos, 1 rig)	48	46d	2d	26-Nov-20	23-Jan-21	28-May-21	24-Jul-21	142	1
KTD.LW.1150	Piling works for bored piles (4nos, 1800dia x 78m, 1 rig)	112	100d	12d	25-Jan-21	18-Jun-21	26-Jul-21	06-Dec-21	142	1
KTD.LW.1160	Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team)	26	22d	4d	19-Jun-21	20-Jul-21	07-Dec-21	08-Jan-22	142	1
KTD.LW.1170	Construction of RC structure (pile cap & pier column) (138m3, 1 team)	65	53d	12d	21-Jul-21	06-Oct-21	10-Jan-22	29-Mar-22	142	1
FOOTBRIDGE (PIER 10 TO PIER 11)		129			07-Oct-21	14-Mar-22	30-Mar-22	13-Sep-22	147	1
KTD.LW.1180	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	0d	07-Oct-21	21-Oct-21	30-Mar-22	13-Apr-22	142	1



▽ Milestone
▼ Critical Milestone
Critical Work
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Build King – STEC Joint Venture

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

WORKS PROGRAMME

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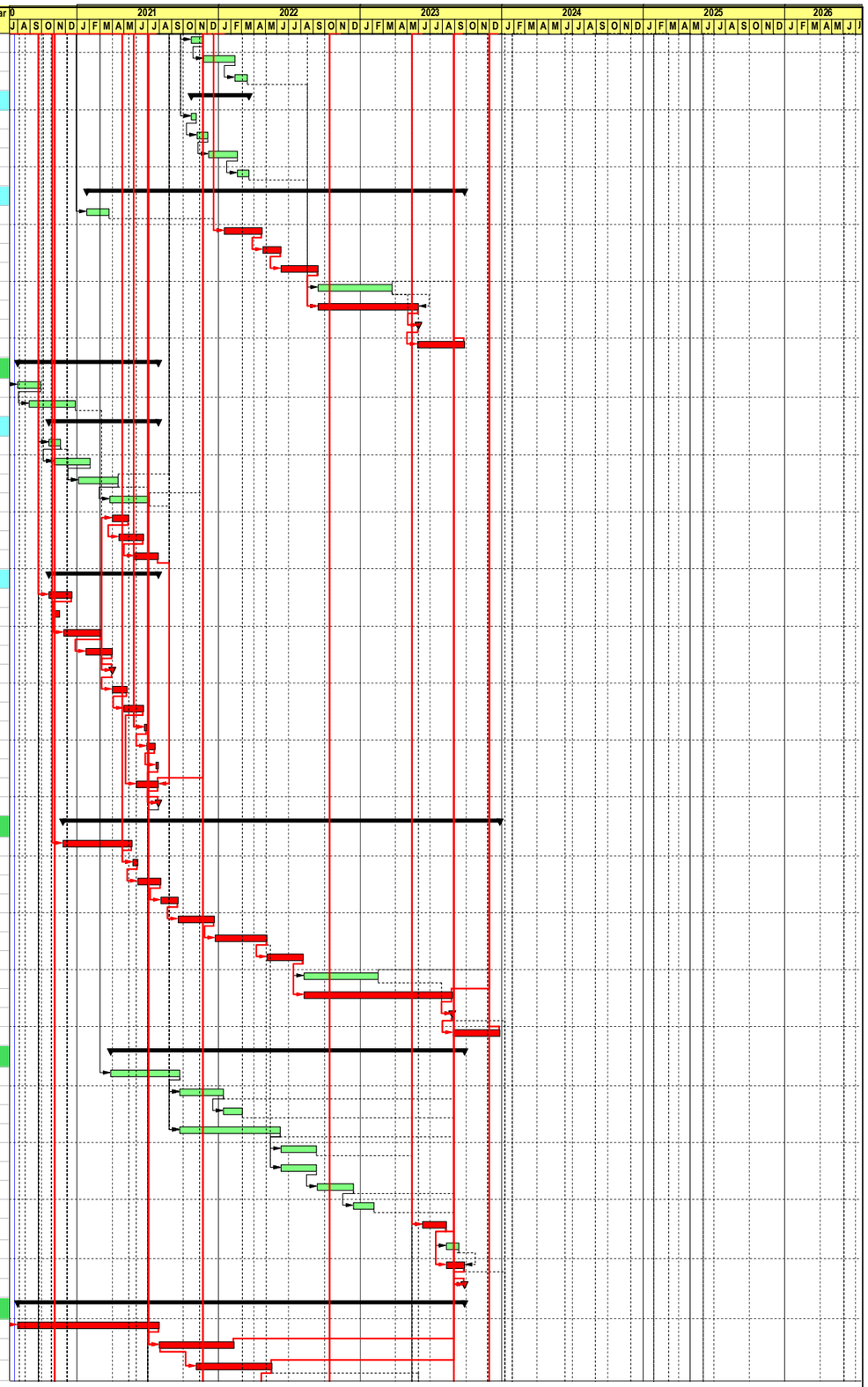
18-Nov-20	Revision 3	LC	GC

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar
KTD.LW.1190	Erecting temp. working platform at roadside	26	24d	2d	22-Oct-21	20-Nov-21	23-Apr-22	25-May-22	147	1
KTD.LW.1200	Construction of RC bridge structure (434m3, 2 teams)	65	65d	0d	22-Nov-21	11-Feb-22	26-May-22	11-Aug-22	147	1
KTD.LW.1210	Prestressing works	26	26d	0d	12-Feb-22	14-Mar-22	12-Aug-22	13-Sep-22	147	1
FOOTBRIDGE (PIER 11 TO PIER 12)		122			22-Oct-21	19-Mar-22	14-Apr-22	13-Sep-22	142	1
KTD.LW.1220	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	0d	22-Oct-21	04-Nov-21	14-Apr-22	30-Apr-22	142	1
KTD.LW.1230	Erecting temp. working platform at roadside	26	24d	2d	05-Nov-21	04-Dec-21	03-May-22	02-Jun-22	142	1
KTD.LW.1240	Construction of RC bridge structure (311m3, 2 teams)	58	58d	0d	06-Dec-21	17-Feb-22	04-Jun-22	11-Aug-22	142	1
KTD.LW.1250	Prestressing works and bearing installation works	26	26d	0d	18-Feb-22	19-Mar-22	12-Aug-22	13-Sep-22	142	1
LIFT TOWER, STAIRCASE, SOFT LANDSCAPING & OTHER WORKS		787			25-Jan-21	26-Sep-23	17-Nov-21	26-Sep-23	0	1
KTD.LW.1260	Pre-drilling works (6 nos, 2 rig)	48	46d	2d	25-Jan-21	24-Mar-21	17-Nov-21	14-Jan-22	237	1
KTD.LW.1270	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 2 rigs)	78	72d	6d	15-Jan-22	23-Apr-22	15-Jan-22	23-Apr-22	0	1
KTD.LW.1280	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	38	34d	4d	25-Apr-22	10-Jun-22	25-Apr-22	10-Jun-22	0	1
KTD.LW.1290	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	64d	14d	11-Jun-22	13-Sep-22	11-Jun-22	13-Sep-22	0	1
KTD.LW.1300	Lift and other E&M installation, testing and commissioning	156	144d	12d	14-Sep-22	23-Mar-23	16-Nov-22	30-May-23	52	1
KTD.LW.1310	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	208	182d	26d	14-Sep-22	30-May-23	14-Sep-22	30-May-23	0	1
KTD.LW.1320	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0	0d	0d		30-May-23		30-May-23	0	1
KTD.LW.1330	Advance Completion of Landscaped Elevated Walkway LW-02 to Specific Contract Completion Date (Section 1)	101	101d	0d	30-May-23	26-Sep-23	30-May-23	26-Sep-23	0	1
CONSTRUCTION OF BOX CULVERT B1		364			31-Jul-20	29-Jul-21	20-Oct-20	29-Jul-21	0	
KTD.BC.1000	Prepare/submission of temporary EVA diversion scheme with SCL	60	60d	0d	31-Jul-20	28-Sep-20	02-Nov-20	31-Dec-20	94	2
KTD.BC.1010	Consult/liaison/vetting/approval of temporary EVA diversion scheme with SCL	120	120d	0d	30-Aug-20	27-Dec-20	02-Dec-20	31-Mar-21	94	2
BOX CULVERT B1 (CHB1 364.584 TO CHB1 168.00)		225			20-Oct-20	29-Jul-21	13-Nov-20	29-Jul-21	0	
KTD.BC.1020	Installation of ELS and excavation for CHB1 364.584 to CHB1 348.00 (24m ELS, 523.8m3 exca, 2 team)	26	24d	2d	20-Oct-20	19-Nov-20	13-Nov-20	12-Dec-20	20	1
KTD.BC.1030	Installation of ELS and excavation for CHB1 348.00 to CHB1 216.00 (12718m3, 2 teams)	78	72d	6d	02-Nov-20	03-Feb-21	25-Nov-20	02-Mar-21	20	1
KTD.BC.1040	Construction of RC box culvert structure (1435m3, 4 teams)	78	74d	2d	05-Jan-21	16-Apr-21	28-Jan-21	11-May-21	20	1
KTD.BC.1050	Backfilling from CHB1 364.584 to CHB1 216.00 (10043m3, 4 teams)	78	74d	2d	25-Mar-21	06-Jul-21	26-Apr-21	29-Jul-21	20	1
KTD.BC.1060	Excavation for CHB1 216.00 to CHB1 168.00 by ELS/open-cut/other accepted method (4600m3, 2 teams)	32	32d	7d	01-Apr-21	13-May-21	01-Apr-21	13-May-21	0	1
KTD.BC.1070	Construction of RC box culvert structure from CHB1 216.00 to CHB1 168.00 (370m3, 3 teams)	52	48d	4d	19-Apr-21	21-Jun-21	19-Apr-21	21-Jun-21	0	1
KTD.BC.1080	Backfilling from CHB1 216.00 to CHB1 168.00 (3800m3, 4 teams)	52	48d	4d	28-May-21	29-Jul-21	28-May-21	29-Jul-21	0	1
BOX CULVERT B1 (CHB1 168.00 TO CH. 89.123)		225			20-Oct-20	29-Jul-21	20-Oct-20	29-Jul-21	0	1
KTD.BC.1090	Installation of ELS and excavation for CHB1 115.392 to CHB1 168.00 (114m ELS, 3400m3 exca, 2 teams)	51	33d	6d	20-Oct-20	18-Dec-20	20-Oct-20	18-Dec-20	0	1
KTD.BC.1095	Encounter CLP cables at CHB1 143.3 to CHB1 131.125 and removal by CLP	12	12d	0d	03-Nov-20	16-Nov-20	03-Nov-20	16-Nov-20	0	1
KTD.BC.1100	Construction of RC box culvert structure for CHB1 115.392 to CHB1 168.00 (434m3, 2 teams)	78	78d	0d	28-Nov-20	05-Mar-21	28-Nov-20	05-Mar-21	0	1
KTD.BC.1110	Backfilling from CHB1 168.00 to CHB1 115.392 and construct temporary diversion EVA with facilities (2374m3, 2 teams)	52	46d	6d	23-Jan-21	31-Mar-21	23-Jan-21	31-Mar-21	0	1
KTD.BC.1120	Traffic diversion for MTRC EVA of SCL Station and SUA	0	0d	0d		31-Mar-21		31-Mar-21	0	1
KTD.BC.1130	Installation of ELS and excavation for CHB1 115.392 to CHB1 89.123 (90m ELS, 1860m3 exca, 2 teams)	29	26d	3d	01-Apr-21	10-May-21	01-Apr-21	10-May-21	0	1
KTD.BC.1140	Construction of RC box culbert structure for CBB1 115.392 to CHB1 89.123 (236m3, 2 teams)	42	39d	3d	30-Apr-21	21-Jun-21	30-Apr-21	21-Jun-21	0	1
KTD.BC.1150	Temporary drain. diversion (inclu temporary connection works and breakthrough at upstream)	7	6d	1d	22-Jun-21	29-Jun-21	22-Jun-21	29-Jun-21	0	1
KTD.BC.1160	Construct the remaining RC structure within existing box culvert and abandon the existing box culvert	18	18d	0d	30-Jun-21	21-Jul-21	30-Jun-21	21-Jul-21	0	1
KTD.BC.1170	Permanent drain. diversion (inclu connection works at upstream)	7	6d	1d	22-Jul-21	29-Jul-21	22-Jul-21	29-Jul-21	0	1
KTD.BC.1180	Backfilling from CHB1 115.392 to CHB1 89.123 (1050m3, 2 teams)	49	48d	4d	01-Jun-21	29-Jul-21	01-Jun-21	29-Jul-21	0	1
KTD.BC.1190	Planned Completion of Box Culvert B1 (Related to Section 8)	0	0d	0d		29-Jul-21		29-Jul-21	0	1
MODIFICATION OF EXISTING SUBWAY KS10		1129			24-Nov-20	27-Dec-23	24-Nov-20	27-Dec-23	0	
KTD.MS.0000	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings	180	180d	0d	24-Nov-20	22-May-21	24-Nov-20	22-May-21	0	2
KTD.MS.1010	Pre-drilling works (1 no, 1 rig)	12	10d	2d	24-May-21	05-Jun-21	24-May-21	05-Jun-21	0	1
KTD.MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	48	42d	6d	07-Jun-21	03-Aug-21	07-Jun-21	03-Aug-21	0	1
KTD.MS.1030	Installation of ELS for demolition of existing str. & construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	33d	6d	04-Aug-21	17-Sep-21	04-Aug-21	17-Sep-21	0	1
KTD.MS.1035	Demolition of existing subway structures (inclu. ramp and staircase)	78	64d	14d	18-Sep-21	21-Dec-21	18-Sep-21	21-Dec-21	0	1
KTD.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	92d	12d	22-Dec-21	04-May-22	22-Dec-21	04-May-22	0	1
KTD.MS.1045	Backfilling of ELS to ground level	78	64	14d	05-May-22	06-Aug-22	05-May-22	06-Aug-22	0	1
KTD.MS.1050	Lift and other E&M installation, testing and commissioning	156	156d	0d	08-Aug-22	16-Feb-23	17-Feb-23	26-Aug-23	156	1
KTD.MS.1060	Construction of roof, steelworks, other facilities and ABWF works	312	300d	12d	08-Aug-22	26-Aug-23	08-Aug-22	26-Aug-23	0	1
KTD.MS.1070	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	0	0d	0d		26-Aug-23		26-Aug-23	0	1
KTD.MS.1080	Advance Completion of modification of existing Subway KS10 to Specific Contract Completion Date (Section 3)	100	178d	0d	28-Aug-23	27-Dec-23	28-Aug-23	27-Dec-23	0	1
CONSTRUCTION OF DISTRICT COOLING SYSTEM WORKS (SUBJECTED TO EXCISION)		914			27-Mar-21	26-Sep-23	22-Nov-21	26-Sep-23	0	
KTD.DCS.1000	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	180d	0d	27-Mar-21	22-Sep-21	22-Nov-21	20-May-22	240	2
KTD.DCS.1010	Installation of ELS and excavation and construction of DCS pipes from CH80 to CH145 (2 teams)	91	79d	12d	23-Sep-21	12-Jan-22	24-Apr-23	11-Aug-23	465	1
KTD.DCS.1020	Backfilling for CH80 to CH145 (780m3, 2 teams)	39	33d	6d	13-Jan-22	02-Mar-22	12-Aug-23	26-Sep-23	465	1
KTD.DCS.1030	Installation of ELS and excavation and construction of DCS pipes from CH170 to CH334 (2 teams)	208	194d	14d	23-Sep-21	09-Jun-22	21-May-22	01-Feb-23	192	1
KTD.DCS.1040	Backfilling for CH170 to CH334 (1900m3, 2 teams)	78	72d	6d	10-Jun-22	09-Sep-22	04-Mar-23	09-Jun-23	218	1
KTD.DCS.1050	Installation of ELS and excavation of temporary pits for construction of DCS works from CH145 to CH170 (1 team)	78	66d	12d	10-Jun-22	09-Sep-22	02-Feb-23	09-May-23	192	1
KTD.DCS.1060	Construction of chilled water pipes from CH145 to CH170 by trenchless method (inclu DAV and washout pit, 1 team)	78	64d	14d	13-Sep-22	14-Dec-22	10-May-23	11-Aug-23	192	1
KTD.DCS.1070	Backfilling for temporary pits (900m3, 2 teams)	39	33d	6d	15-Dec-22	04-Feb-23	12-Aug-23	26-Sep-23	192	1
KTD.DCS.1080	Installation of ELS and excavation and construction of DCS works from CH0 to CH80 (2 teams)	52	40d	12d	10-Jun-23	11-Aug-23	10-Jun-23	11-Aug-23	0	1
KTD.DCS.1090	T&C of the installed DCS pipes before connection to existing DCS system	26	26d	0d	12-Aug-23	11-Sep-23	28-Aug-23	26-Sep-23	13	1
KTD.DCS.1100	Backfilling for CH0 to CH80 (960m3, 2 teams)	39	33d	6d	12-Aug-23	26-Sep-23	12-Aug-23	26-Sep-23	0	1
KTD.DCS.1110	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0	0d	0d		26-Sep-23		26-Sep-23	0	1
RENOVATION OF EXISTING SUBWAYS KS9 AND KS32		1153			31-Jul-20	26-Sep-23	31-Jul-20	26-Sep-23	0	
KTD.RS.1000	Liasion with UAP project and relevant departments for possession approval/consent	365	365d	0d	31-Jul-20	30-Jul-21	31-Jul-20	30-Jul-21	0	2
KTD.RS.1010	Construction of shelter for subways KS9 and KS32	156	130d	26d	31-Jul-21	08-Feb-22	31-Jul-21	08-Feb-22	0	1
KTD.RS.1020	Construction of steelworks, other facilities, E&M installation and ABWF works for KS9 and KS32	156	142d	124d	03-Nov-21	17-May-22	03-Nov-21	17-May-22	0	1



Milestone
Critical Milestone
Critical Work
Planned W...
Summary

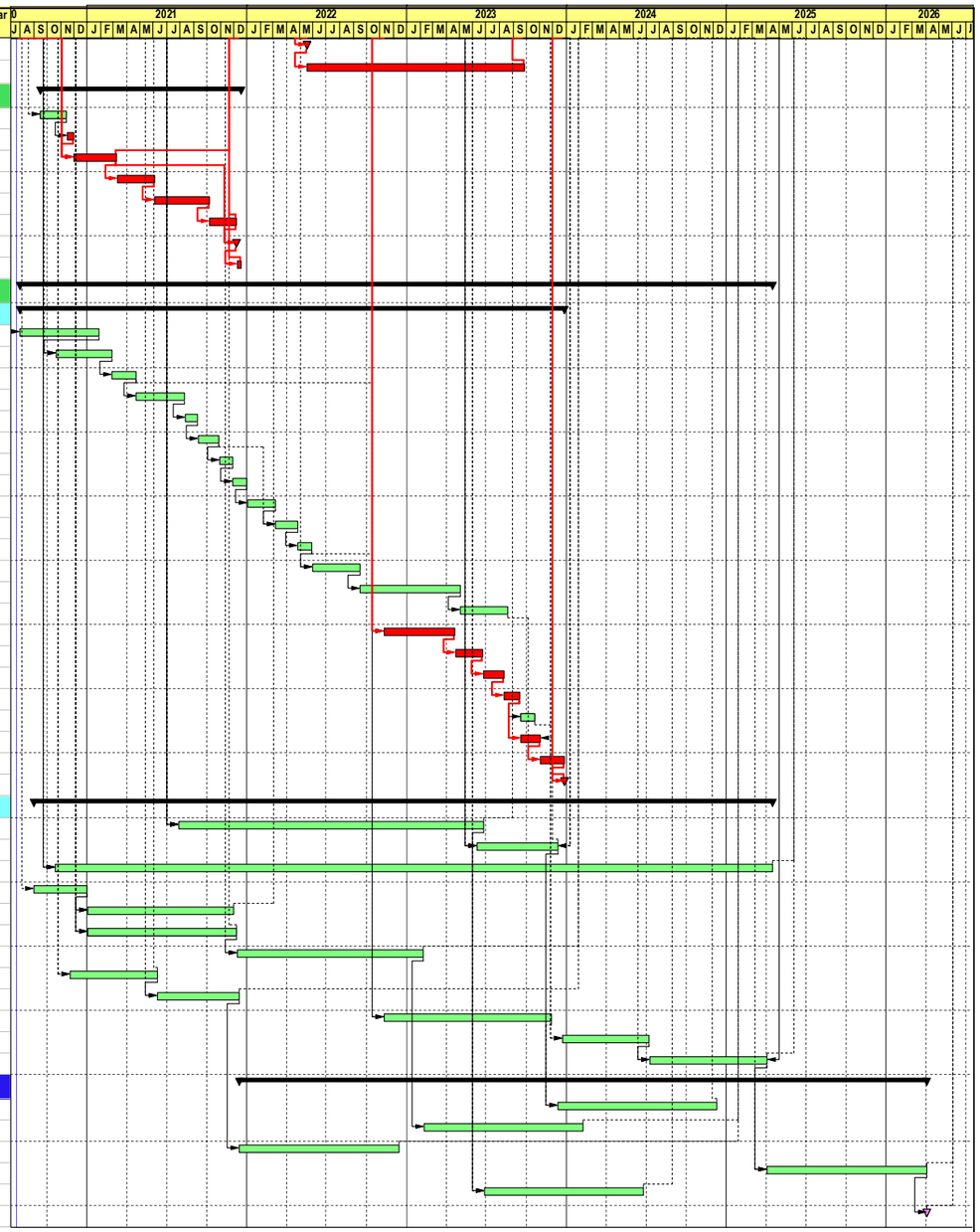
Build King – STEC Joint Venture

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

WORKS PROGRAMME

Date	Revision	Checked	Approv...
21-Aug-20	Revision 1	LC	GC
10-Oct-20	Revision 2	LC	GC
18-Nov-20	Revision 3	LC	GC

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar
KTD.RS.1030	Planned Completion of renovation of existing Subways KS9 and KS32 (Related to Section 1)	0	0d	0d		17-May-22		17-May-22	0	1
KTD.RS.1040	Advance Completion of renovation of existing Subways KS9 and KS32 to Specific Contract Completion Date (Section 1)	406	406d	0d	18-May-22	26-Sep-23	18-May-22	26-Sep-23	0	1
DIVERSION OF EXISTING RISING MAIN AND DEMOLITION OF EXISTING STRUCTURES AT SITE 2C2 & 2C3		458			16-Sep-20	17-Dec-21	17-Sep-20	17-Dec-21	0	
KTD.RM.1000	Liasion with relevant departments for removal of abandoned motorcycles under existing structures at Site 2C2 and 2C3	60	60d	0d	16-Sep-20	14-Nov-20	17-Sep-20	15-Nov-20	1	2
KTD.RM.1001	Removal of abandoned motorcycles and clearance for demolition works	14	14d	2d	16-Nov-20	01-Dec-20	16-Nov-20	01-Dec-20	0	1
KTD.RM.1005	Demolition of existing structures at Site 2C2 and 2C3	78	66d	12d	02-Dec-20	09-Mar-21	02-Dec-20	09-Mar-21	0	1
KTD.RM.1010	Installation of ELS and excavate for construction of twin rising main from CH0 to CH184 (400m ELS, 4059m3 exca, 2 teams)	65	53d	12d	10-Mar-21	03-Jun-21	10-Mar-21	03-Jun-21	0	1
KTD.RM.1020	Construction of twin rising main from CH0 to CH184 and connect to existing sewage rising main	104	98d	6d	04-Jun-21	07-Oct-21	04-Jun-21	07-Oct-21	0	1
KTD.RM.1030	Backfilling works and abandon the existing sewage rising main	52	46d	6d	08-Oct-21	08-Dec-21	08-Oct-21	08-Dec-21	0	1
KTD.RM.1040	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0	0d	0d		08-Dec-21		08-Dec-21	0	1
KTD.RM.1050	Advance Completion of diversion and demolition works to Specific Contract Completion Date (Section 5)	8	8d	0d	09-Dec-21	17-Dec-21	09-Dec-21	17-Dec-21	0	1
CONSTRUCTION OF ROAD WORKS		1720			31-Jul-20	15-Apr-25	12-Sep-20	30-Jun-25	76	
CONSTRUCTION OF SLIP ROAD S14		1245			31-Jul-20	27-Dec-23	14-Oct-20	27-Dec-23	0	
KTD.RW.0000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	180d	0d	31-Jul-20	26-Jan-21	14-Oct-20	11-Apr-21	75	2
KTD.RW.1000	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables)	104	98d	6d	21-Oct-20	26-Feb-21	04-Jan-21	17-May-21	60	1
KTD.RW.1010	Pre-drilling works for all pile caps PC1 to PC7 (9 nos, 1 rig)	40	30d	10d	27-Feb-21	22-Apr-21	18-May-21	06-Jul-21	60	1
KTD.RW.1020	Piling works of pre-bored H-piles (14 nos, 610dia x 70m, 1 rig)	91	85d	6d	23-Apr-21	11-Aug-21	07-Jul-21	23-Oct-21	60	1
KTD.RW.1030	Installation of ELS and excavation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	12-Aug-21	10-Sep-21	25-Oct-21	23-Nov-21	60	1
KTD.RW.1040	Construction of temporary supporting system for existing bridge K73	39	34d	5d	11-Sep-21	29-Oct-21	24-Nov-21	11-Jan-22	60	1
KTD.RW.1050	Demolition of existing bearing wall	26	24d	2d	30-Oct-21	29-Nov-21	12-Jan-22	14-Feb-22	60	1
KTD.RW.1060	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	30-Nov-21	31-Dec-21	15-Feb-22	16-Mar-22	60	1
KTD.RW.1070	Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)	52	48d	4d	03-Jan-22	07-Mar-22	17-Mar-22	23-May-22	60	1
KTD.RW.1080	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	39	34d	5d	08-Mar-22	26-Apr-22	24-May-22	09-Jul-22	60	1
KTD.RW.1090	Backfilling for pile caps (PC1 and PC2)	26	24d	2d	27-Apr-22	28-May-22	11-Jul-22	09-Aug-22	60	1
KTD.RW.1100	Installation of ELS and excavation for Retaining Wall S14 (Bay5-12, 3600m3 exca, 2 team)	90	78d	12d	30-May-22	15-Sep-22	10-Aug-22	26-Nov-22	60	1
KTD.RW.1110	Construction of Retaining Wall S14 (Bay5-12, 800m3, 2 teams)	184	172d	12d	16-Sep-22	03-May-23	28-Nov-22	15-Jul-23	60	1
KTD.RW.1120	Backfilling for Retaining Wall S14 (Bay8-12, 1100m3, 2 teams)	90	78d	12d	04-May-23	19-Aug-23	17-Jul-23	01-Nov-23	60	1
KTD.RW.1130	Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)	130	116d	14d	10-Nov-22	21-Apr-23	10-Nov-22	21-Apr-23	0	1
KTD.RW.1140	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52	48d	4d	22-Apr-23	24-Jun-23	22-Apr-23	24-Jun-23	0	1
KTD.RW.1150	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	39	21d	2d	26-Jun-23	10-Aug-23	26-Jun-23	10-Aug-23	0	1
KTD.RW.1160	Construction of bridge S14 decking structures (320m3, 1 teams)	32	26d	6d	11-Aug-23	16-Sep-23	11-Aug-23	16-Sep-23	0	1
KTD.RW.1170	Prestressing works and bearing installation works	26	24d	2d	18-Sep-23	19-Oct-23	29-Sep-23	01-Nov-23	10	1
KTD.RW.1180	Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)	36	32d	4d	18-Sep-23	01-Nov-23	18-Sep-23	01-Nov-23	0	1
KTD.RW.1190	Construction of road pavement, road marking, street and other facilities	46	39d	7d	02-Nov-23	27-Dec-23	02-Nov-23	27-Dec-23	0	1
KTD.RW.1200	Planned Completion of Slip Road S14 (Related to Section 3)	0	0d	0d		27-Dec-23		27-Dec-23	0	1
CONSTRUCTION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES		1688			01-Sep-20	15-Apr-25	12-Sep-20	30-Jun-25	76	
KTD.RW.1220	Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)	563	542d	21d	30-Jul-21	26-Jun-23	02-Nov-21	26-Sep-23	78	1
KTD.RW.1230	Construct roadwork, UUs/services & landscape softworks within Part 1A (incl Sa Po Road, pedestrian street and Road D1)	153	132d	21d	10-Jun-23	11-Dec-23	26-Jun-23	27-Dec-23	12	1
KTD.RW.1240	Construct underground utilities/services within Parts 1B, 6A and 7 and remaining works of all Parts	1321	1300d	21d	20-Oct-20	15-Apr-25	02-Jan-21	30-Jun-25	60	1
KTD.RW.1245	Liasion/coordinate with CLP for new 132kV and 11kV cable laying at Road L16, Part 3 and Crowd Dispersal Route	122	122d	0d	01-Sep-20	31-Dec-20	12-Sep-20	11-Jan-21	11	2
KTD.RW.1250	Construct roadwork and UUs/services within Parts 2 and 10 (incl Crowd Dispersal Route)	270	249d	21d	02-Jan-21	02-Dec-21	05-May-21	29-Mar-22	94	1
KTD.RW.1260	Construct underground utilities/services within Part 3	275	254d	21d	02-Jan-21	08-Dec-21	12-Jan-21	17-Dec-21	8	1
KTD.RW.1270	Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)	342	321d	21d	09-Dec-21	08-Feb-23	29-Dec-22	24-Feb-24	310	1
KTD.RW.1280	Construct underground utilities/services within Part 4	156	135d	21d	23-Nov-20	09-Jun-21	12-Dec-20	30-Jun-21	17	1
KTD.RW.1290	Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)	156	135d	21d	10-Jun-21	14-Dec-21	17-Aug-23	24-Feb-24	647	1
KTD.RW.1300	Construct roadwork, underground utilities/services within Part 5	312	291d	21d	10-Nov-22	28-Nov-23	07-Dec-22	27-Dec-23	23	1
KTD.RW.1310	Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6	156	135d	21d	23-Dec-23	08-Jul-24	15-Mar-24	23-Sep-24	65	1
KTD.RW.1320	Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)	222	201d	21d	09-Jul-24	03-Apr-25	24-Sep-24	30-Jun-25	65	1
PROJECT ESTABLISHMENT WORKS		1571			15-Dec-21	03-Apr-26	27-Sep-23	30-Jun-26	88	2
KTD.EW.1000	Establishment works for all landscape softworks (except Parts 3, 4 and 6)	365	365d	0d	12-Dec-23	10-Dec-24	28-Dec-23	26-Dec-24	16	2
KTD.EW.1010	Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)	365	365d	0d	09-Feb-23	08-Feb-24	26-Feb-24	24-Feb-25	382	2
KTD.EW.1020	Establishment works for landscape softworks within Part 4 (Subj to excision within 244 days)	365	365d	0d	15-Dec-21	14-Dec-22	26-Feb-24	24-Feb-25	803	2
KTD.EW.1030	Establishment works for landscape softworks within Part 6	365	365d	0d	04-Apr-25	03-Apr-26	01-Jul-25	30-Jun-26	88	2
KTD.EW.1040	Establishment works for landscape softworks under Section 1	365	365d	0d	27-Jun-23	25-Jun-24	27-Sep-23	25-Sep-24	92	2
KTD.EW.1050	Planned Contract Completion Date	0	0d	0d		03-Apr-26		30-Jun-26	88	2



Milestone | Planned W...
Critical Milestone | Summary
Critical Work

Build King – STEC Joint Venture

ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area

WORKS PROGRAMME

Date	Revision	Checked	Approv...
21-Aug-20	Revision 1	LC	GC
10-Oct-20	Revision 2	LC	GC
18-Nov-20	Revision 3	LC	GC

Appendix C – Weather information

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/02/2022	12.9	15.7	1.2	84
02/02/2022	14.5	17	1	88
03/02/2022	11.7	14.5	1	85
04/02/2022	11.9	18.5	0	69
05/02/2022	13.2	17.7	0	69
06/02/2022	14.6	18.2	0	75
07/02/2022	15.1	17.7	Trace	85
08/02/2022	15.8	18.1	Trace	78
09/02/2022	15.3	17.4	0	77
10/02/2022	15.4	18.1	0	81
11/02/2022	16.3	22	0	81
12/02/2022	17	21.3	0	83
13/02/2022	15.1	18.7	1.2	86
14/02/2022	14.1	21.3	1.2	75
15/02/2022	15.8	21.8	0	77
16/02/2022	15.6	18.5	0	77
17/02/2022	15	16.9	4	86
18/02/2022	15.2	16.7	Trace	84
19/02/2022	9.7	15.9	21.3	92
20/02/2022	8	9.8	43.4	94
21/02/2022	7.5	10.1	43.3	95
22/02/2022	9.2	12.2	39.9	96
23/02/2022	9.4	16.2	11	77
24/02/2022	10.7	14.9	0	72
25/02/2022	12.2	20.1	0	70
26/02/2022	13.6	21.4	0	76
27/02/2022	14.8	21.7	0	79
28/02/2022	16.4	22.5	0	70

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.
NOTE2: Trace means rainfall less than 0.05 mm
https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=02

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/03/2022	19.1	26.3	0	77
02/03/2022	18.1	26.1	0	83
03/03/2022	17.4	22.6	0	76
04/03/2022	18.8	26.6	0	77
05/03/2022	17.9	24.6	0	84
06/03/2022	17.6	21.3	0	77
07/03/2022	16.8	24.6	4.8	70
08/03/2022	15	21.6	0	53
09/03/2022	15.1	24.3	0	57
10/03/2022	17.9	25	0	60
11/03/2022	18.8	26.9	0	71
12/03/2022	19.8	26	0	68
13/03/2022	21	27.7	0.1	75
14/03/2022	21.4	29	0	78
15/03/2022	21.1	28.4	0	80
16/03/2022	21.2	24.7	Trace	79
17/03/2022	22.1	27.7	Trace	85
18/03/2022	21.3	28.7	0	84
19/03/2022	22.3	25.8	0	85
20/03/2022	19.9	22.9	Trace	88
21/03/2022	21	23.7	Trace	89
22/03/2022	21.2	25.1	Trace	93
23/03/2022	16.3	21.6	54.8	94
24/03/2022	16.3	18.5	1.8	91
25/03/2022	18.1	26.7	0.7	90
26/03/2022	24.9	28.7	0.1	86
27/03/2022	19.1	25.4	Trace	83
28/03/2022	16.4	19.2	30.3	89
29/03/2022	17.4	21.2	0.1	82
30/03/2022	19.5	26.1	0	74
31/03/2022	21.9	29.3	Trace	69

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.
NOTE2: Trace means rainfall less than 0.05 mm
https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=03

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/04/2022	15.7	22.0	0.5	83
02/04/2022	13.7	16.1	1.3	76
03/04/2022	15.2	23.9	0	54
04/04/2022	16.8	25.6	0	53
05/04/2022	18.1	26.9	0	64
06/04/2022	19.4	26.2	0	70
07/04/2022	20.0	26.7	0	68
08/04/2022	20.5	29.1	0	50
09/04/2022	20.3	27.6	0	65
10/04/2022	20.5	28.5	0	67
11/04/2022	22.6	30.3	0	74
12/04/2022	23.0	30.2	0	77
13/04/2022	23.9	28.1	Trace	81
14/04/2022	23.0	27.8	0	69
15/04/2022	22.8	27.6	Trace	69
16/04/2022	21.2	22.9	Trace	73
17/04/2022	19.2	24.9	0.4	72
18/04/2022	20.9	23.2	Trace	76
19/04/2022	19.1	21.1	0.8	83
20/04/2022	19.8	25.6	0	75
21/04/2022	21.4	28.4	0	78
22/04/2022	23.4	27.2	0	84
23/04/2022	24.1	30.3	Trace	81
24/04/2022	24.9	30.9	0	79
25/04/2022	26.3	31.4	0	79
26/04/2022	26.2	29.8	0	80
27/04/2022	26.1	31.6	0	78
28/04/2022	26.8	31.6	0	79
29/04/2022	26.2	32.0	0	79
30/04/2022	24.3	26.8	0.5	85

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.
NOTE2: Trace means rainfall less than 0.05 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=04

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/02/2022	12.7	15.7
02/02/2022	14.1	16.8
03/02/2022	11.9	15.2
04/02/2022	11.9	18.8
05/02/2022	13.4	17.6
06/02/2022	14.6	17.4
07/02/2022	14.9	17.8
08/02/2022	15.4	17.8
09/02/2022	15.2	17.4
10/02/2022	15.9	18.0
11/02/2022	16.2	20.4
12/02/2022	16.5	19.5
13/02/2022	14.4	18.6
14/02/2022	14.2	20.9
15/02/2022	15.7	19.3
16/02/2022	15.6	17.6
17/02/2022	15.0	16.8
18/02/2022	15.2	16.7
19/02/2022	10.0	15.9
20/02/2022	8.1	10.1
21/02/2022	7.7	10.1
22/02/2022	9.3	12.4
23/02/2022	9.4	17.0
24/02/2022	10.5	16.3
25/02/2022	13.0	19.6
26/02/2022	13.9	18.6
27/02/2022	14.1	20.9
28/02/2022	16.3	21.4

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park.

https://i-lens.hk/hkweather/history_chart.php?date=2022-02-01&chart_type=DG_TEMP

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/03/2022	18.4	25.7
02/03/2022	17.4	22.3
03/03/2022	17.1	21.0
04/03/2022	18.1	21.8
05/03/2022	17.6	25.3
06/03/2022	17.2	20.5
07/03/2022	16.5	25.4
08/03/2022	14.4	19.3
09/03/2022	15.0	21.1
10/03/2022	17.9	23.0
11/03/2022	19.0	23.5
12/03/2022	19.1	24.4
13/03/2022	19.9	25.6
14/03/2022	19.9	26.7
15/03/2022	19.9	24.7
16/03/2022	20.5	24.3
17/03/2022	20.8	26.9
18/03/2022	21.2	29.1
19/03/2022	20.6	23.9
20/03/2022	19.5	22.6
21/03/2022	20.6	22.9
22/03/2022	20.7	23.5
23/03/2022	16.2	21.1
24/03/2022	16.3	18.3
25/03/2022	18.2	26.6
26/03/2022	25.1	27.6
27/03/2022	18.7	25.8
28/03/2022	16.5	18.8
29/03/2022	17.5	20.6
30/03/2022	19.6	23.7
31/03/2022	21.4	27.2

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park.

https://i-lens.hk/hkweather/history_chart.php?date=2022-03-01&chart_type=DG_TEMP

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/04/2022	24.7	30.0
02/04/2022	24.0	30.3
03/04/2022	23.0	32.1
04/04/2022	22.1	26.1
05/04/2022	21.3	22.5
06/04/2022	22.1	24.7
07/04/2022	21.6	23.7
08/04/2022	22.0	24.3
09/04/2022	19.5	22.2
10/04/2022	20.3	23.5
11/04/2022	20.7	24.5
12/04/2022	21.7	25.7
13/04/2022	22.0	27.9
14/04/2022	22.9	25.4
15/04/2022	21.4	22.9
16/04/2022	21.5	23.7
17/04/2022	22.0	23.4
18/04/2022	22.2	24.3
19/04/2022	21.1	23.4
20/04/2022	21.3	24.9
21/04/2022	21.9	25.8
22/04/2022	22.3	28.6
23/04/2022	23.5	32.9
24/04/2022	23.6	25.3
25/04/2022	21.9	25.5
26/04/2022	21.5	24.0
27/04/2022	22.3	23.7
28/04/2022	22.8	26.5
29/04/2022	21.9	27.6
30/04/2022	22.4	28.2

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park.
https://i-lens.hk/hkweather/history_chart.php?date=2022-04-01&ch24art_type=DG_TEMP

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/02/2022	0:00	0.9	0	02/02/2022	0:00	1.3	112.5	03/02/2022	0:00	0.4	0	04/02/2022	0:00	0.4	270
01/02/2022	1:00	0.4	112.5	02/02/2022	1:00	0.9	22.5	03/02/2022	1:00	0.4	112.5	04/02/2022	1:00	0.9	202.5
01/02/2022	2:00	0.4	67.5	02/02/2022	2:00	0.4	135	03/02/2022	2:00	0.9	90	04/02/2022	2:00	0	247.5
01/02/2022	3:00	0.9	67.5	02/02/2022	3:00	0.9	337.5	03/02/2022	3:00	0.9	135	04/02/2022	3:00	0.4	180
01/02/2022	4:00	0.4	22.5	02/02/2022	4:00	0.9	135	03/02/2022	4:00	0.4	202.5	04/02/2022	4:00	0.4	202.5
01/02/2022	5:00	0.9	67.5	02/02/2022	5:00	0.4	225	03/02/2022	5:00	0.4	90	04/02/2022	5:00	0.4	112.5
01/02/2022	6:00	0.9	67.5	02/02/2022	6:00	0.9	112.5	03/02/2022	6:00	0.4	45	04/02/2022	6:00	0.4	45
01/02/2022	7:00	1.3	0	02/02/2022	7:00	0.4	135	03/02/2022	7:00	0.4	112.5	04/02/2022	7:00	0.9	180
01/02/2022	8:00	0.9	0	02/02/2022	8:00	0.9	45	03/02/2022	8:00	0	112.5	04/02/2022	8:00	0.9	202.5
01/02/2022	9:00	0.9	45	02/02/2022	9:00	0.4	270	03/02/2022	9:00	0.4	90	04/02/2022	9:00	0.4	180
01/02/2022	10:00	0.4	202.5	02/02/2022	10:00	0.9	315	03/02/2022	10:00	0.9	90	04/02/2022	10:00	1.3	157.5
01/02/2022	11:00	0.4	202.5	02/02/2022	11:00	0.9	112.5	03/02/2022	11:00	0.4	112.5	04/02/2022	11:00	0.9	135
01/02/2022	12:00	0.9	225	02/02/2022	12:00	0.9	90	03/02/2022	12:00	0.4	67.5	04/02/2022	12:00	1.3	180
01/02/2022	13:00	0.4	270	02/02/2022	13:00	1.9	22.5	03/02/2022	13:00	0.4	112.5	04/02/2022	13:00	0.9	112.5
01/02/2022	14:00	0.4	22.5	02/02/2022	14:00	0.4	112.5	03/02/2022	14:00	0.4	90	04/02/2022	14:00	0.9	112.5
01/02/2022	15:00	0.4	225	02/02/2022	15:00	0.9	45	03/02/2022	15:00	0	90	04/02/2022	15:00	0.4	157.5
01/02/2022	16:00	0.9	247.5	02/02/2022	16:00	0.9	135	03/02/2022	16:00	0	112.5	04/02/2022	16:00	0.4	112.5
01/02/2022	17:00	0.4	225	02/02/2022	17:00	0.4	112.5	03/02/2022	17:00	0.4	90	04/02/2022	17:00	0.4	112.5
01/02/2022	18:00	0.9	247.5	02/02/2022	18:00	0.4	112.5	03/02/2022	18:00	0	90	04/02/2022	18:00	0	45
01/02/2022	19:00	0.4	112.5	02/02/2022	19:00	0.9	112.5	03/02/2022	19:00	0.4	67.5	04/02/2022	19:00	0.9	202.5
01/02/2022	20:00	0.4	112.5	02/02/2022	20:00	0.9	90	03/02/2022	20:00	0.9	112.5	04/02/2022	20:00	0	202.5
01/02/2022	21:00	0.4	90	02/02/2022	21:00	1.3	45	03/02/2022	21:00	0.9	90	04/02/2022	21:00	0	112.5
01/02/2022	22:00	0.9	135	02/02/2022	22:00	0.9	90	03/02/2022	22:00	0.4	112.5	04/02/2022	22:00	0.4	45
01/02/2022	23:00	0.4	135	02/02/2022	23:00	0.4	112.5	03/02/2022	23:00	0.9	90	04/02/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/02/2022	0:00	0	45	06/02/2022	0:00	0.4	112.5	07/02/2022	0:00	0.9	90	08/02/2022	0:00	0.4	45
05/02/2022	1:00	0	45	06/02/2022	1:00	0.4	112.5	07/02/2022	1:00	1.3	90	08/02/2022	1:00	0.9	90
05/02/2022	2:00	0.4	22.5	06/02/2022	2:00	0.9	90	07/02/2022	2:00	0.9	112.5	08/02/2022	2:00	0.4	270
05/02/2022	3:00	0.4	0	06/02/2022	3:00	1.3	90	07/02/2022	3:00	1.3	90	08/02/2022	3:00	0.9	90
05/02/2022	4:00	0.9	67.5	06/02/2022	4:00	1.3	112.5	07/02/2022	4:00	1.3	90	08/02/2022	4:00	0.9	90
05/02/2022	5:00	1.3	0	06/02/2022	5:00	1.3	112.5	07/02/2022	5:00	0.9	135	08/02/2022	5:00	0.4	112.5
05/02/2022	6:00	1.3	45	06/02/2022	6:00	1.8	90	07/02/2022	6:00	0.9	112.5	08/02/2022	6:00	0.4	112.5
05/02/2022	7:00	0.9	22.5	06/02/2022	7:00	1.3	90	07/02/2022	7:00	0.4	90	08/02/2022	7:00	1.3	112.5
05/02/2022	8:00	0.4	22.5	06/02/2022	8:00	0.9	90	07/02/2022	8:00	0.4	90	08/02/2022	8:00	1.3	135
05/02/2022	9:00	0.4	45	06/02/2022	9:00	0.9	135	07/02/2022	9:00	0.9	0	08/02/2022	9:00	1.8	90
05/02/2022	10:00	0.4	45	06/02/2022	10:00	0.9	157.5	07/02/2022	10:00	0.4	45	08/02/2022	10:00	1.3	112.5
05/02/2022	11:00	0.9	112.5	06/02/2022	11:00	0.9	112.5	07/02/2022	11:00	0.4	67.5	08/02/2022	11:00	0.4	135
05/02/2022	12:00	0.4	112.5	06/02/2022	12:00	1.3	112.5	07/02/2022	12:00	0.9	112.5	08/02/2022	12:00	1.3	90
05/02/2022	13:00	0.9	67.5	06/02/2022	13:00	1.3	90	07/02/2022	13:00	0.9	135	08/02/2022	13:00	0.4	90
05/02/2022	14:00	0.9	67.5	06/02/2022	14:00	1.3	90	07/02/2022	14:00	0.4	112.5	08/02/2022	14:00	1.3	112.5
05/02/2022	15:00	0.9	45	06/02/2022	15:00	0.9	112.5	07/02/2022	15:00	0.4	292.5	08/02/2022	15:00	0.4	112.5
05/02/2022	16:00	0.4	90	06/02/2022	16:00	0.9	112.5	07/02/2022	16:00	0.9	112.5	08/02/2022	16:00	0.4	90
05/02/2022	17:00	0.9	112.5	06/02/2022	17:00	2.2	112.5	07/02/2022	17:00	0.4	225	08/02/2022	17:00	0.4	90
05/02/2022	18:00	0.9	45	06/02/2022	18:00	1.8	135	07/02/2022	18:00	0.4	315	08/02/2022	18:00	0.9	112.5
05/02/2022	19:00	0.4	22.5	06/02/2022	19:00	1.3	67.5	07/02/2022	19:00	0.9	225	08/02/2022	19:00	0.9	22.5
05/02/2022	20:00	0.9	22.5	06/02/2022	20:00	1.8	67.5	07/02/2022	20:00	0.4	45	08/02/2022	20:00	0.4	135
05/02/2022	21:00	0.9	45	06/02/2022	21:00	1.3	112.5	07/02/2022	21:00	0.4	225	08/02/2022	21:00	1.3	90
05/02/2022	22:00	0.9	45	06/02/2022	22:00	0.9	112.5	07/02/2022	22:00	0.9	22.5	08/02/2022	22:00	0.9	90
05/02/2022	23:00	0.4	22.5	06/02/2022	23:00	1.8	90	07/02/2022	23:00	0.9	225	08/02/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/02/2022	0:00	0.4	22.5	10/02/2022	0:00	1.3	45	11/02/2022	0:00	1.8	67.5	12/02/2022	0:00	1.3	112.5
09/02/2022	1:00	0.4	90	10/02/2022	1:00	1.3	90	11/02/2022	1:00	1.3	90	12/02/2022	1:00	1.3	112.5
09/02/2022	2:00	0.4	112.5	10/02/2022	2:00	1.3	90	11/02/2022	2:00	1.3	90	12/02/2022	2:00	2.2	90
09/02/2022	3:00	0.9	0	10/02/2022	3:00	0.4	90	11/02/2022	3:00	1.3	90	12/02/2022	3:00	1.3	90
09/02/2022	4:00	0.4	135	10/02/2022	4:00	0.4	112.5	11/02/2022	4:00	1.8	67.5	12/02/2022	4:00	1.3	90
09/02/2022	5:00	0.9	22.5	10/02/2022	5:00	1.3	90	11/02/2022	5:00	2.2	112.5	12/02/2022	5:00	1.3	90
09/02/2022	6:00	0.4	135	10/02/2022	6:00	1.8	90	11/02/2022	6:00	1.3	112.5	12/02/2022	6:00	1.3	112.5
09/02/2022	7:00	0.9	135	10/02/2022	7:00	1.3	112.5	11/02/2022	7:00	1.3	90	12/02/2022	7:00	0.9	112.5
09/02/2022	8:00	1.3	112.5	10/02/2022	8:00	0.9	90	11/02/2022	8:00	1.3	112.5	12/02/2022	8:00	0.4	225
09/02/2022	9:00	1.3	135	10/02/2022	9:00	1.8	135	11/02/2022	9:00	1.3	112.5	12/02/2022	9:00	1.8	67.5
09/02/2022	10:00	1.3	90	10/02/2022	10:00	0.9	112.5	11/02/2022	10:00	1.8	67.5	12/02/2022	10:00	1.3	225
09/02/2022	11:00	0.9	112.5	10/02/2022	11:00	1.3	45	11/02/2022	11:00	1.3	90	12/02/2022	11:00	1.3	112.5
09/02/2022	12:00	1.3	90	10/02/2022	12:00	0.4	270	11/02/2022	12:00	1.3	90	12/02/2022	12:00	0.9	67.5
09/02/2022	13:00	0.9	270	10/02/2022	13:00	0.4	90	11/02/2022	13:00	0.9	112.5	12/02/2022	13:00	1.3	45
09/02/2022	14:00	1.3	90	10/02/2022	14:00	0.9	270	11/02/2022	14:00	0.9	90	12/02/2022	14:00	0.9	67.5
09/02/2022	15:00	0.9	112.5	10/02/2022	15:00	1.3	90	11/02/2022	15:00	0.4	135	12/02/2022	15:00	1.3	67.5
09/02/2022	16:00	0.9	45	10/02/2022	16:00	0.9	112.5	11/02/2022	16:00	0.4	90	12/02/2022	16:00	1.8	90
09/02/2022	17:00	0.9	112.5	10/02/2022	17:00	0.9	45	11/02/2022	17:00	0.9	135	12/02/2022	17:00	1.3	112.5
09/02/2022	18:00	1.3	225	10/02/2022	18:00	0.9	112.5	11/02/2022	18:00	1.3	90	12/02/2022	18:00	1.3	45
09/02/2022	19:00	1.3	67.5	10/02/2022	19:00	1.3	225	11/02/2022	19:00	1.3	67.5	12/02/2022	19:00	0.9	90
09/02/2022	20:00	0.9	45	10/02/2022	20:00	1.3	67.5	11/02/2022	20:00	0.9	22.5	12/02/2022	20:00	0.9	112.5
09/02/2022	21:00	1.3	135	10/02/2022	21:00	0.9	45	11/02/2022	21:00	1.3	270	12/02/2022	21:00	0.9	112.5
09/02/2022	22:00	0.9	270	10/02/2022	22:00	1.3	135	11/02/2022	22:00	1.8	67.5	12/02/2022	22:00	0.4	112.5
09/02/2022	23:00	1.3	90	10/02/2022	23:00	1.3	90	11/02/2022	23:00	0.9	112.5	12/02/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/02/2022	0:00	0.4	247.5	14/02/2022	0:00	0.9	67.5	15/02/2022	0:00	0.9	90	16/02/2022	0:00	0.4	112.5
13/02/2022	1:00	0.9	157.5	14/02/2022	1:00	0.4	112.5	15/02/2022	1:00	0.9	90	16/02/2022	1:00	0.4	112.5
13/02/2022	2:00	0.9	157.5	14/02/2022	2:00	0.4	112.5	15/02/2022	2:00	0.9	90	16/02/2022	2:00	0.9	112.5
13/02/2022	3:00	0.4	135	14/02/2022	3:00	0.4	112.5	15/02/2022	3:00	1.3	112.5	16/02/2022	3:00	0.9	112.5
13/02/2022	4:00	0.9	247.5	14/02/2022	4:00	0.9	45	15/02/2022	4:00	1.3	112.5	16/02/2022	4:00	0.9	112.5
13/02/2022	5:00	0.4	225	14/02/2022	5:00	0.4	67.5	15/02/2022	5:00	0.9	135	16/02/2022	5:00	0.4	135
13/02/2022	6:00	0.4	157.5	14/02/2022	6:00	0.9	67.5	15/02/2022	6:00	1.8	112.5	16/02/2022	6:00	0.4	112.5
13/02/2022	7:00	0.9	135	14/02/2022	7:00	0.9	90	15/02/2022	7:00	0.4	112.5	16/02/2022	7:00	0.9	135
13/02/2022	8:00	1.3	292.5	14/02/2022	8:00	0.9	67.5	15/02/2022	8:00	0.9	112.5	16/02/2022	8:00	0.9	135
13/02/2022	9:00	1.3	135	14/02/2022	9:00	0.9	67.5	15/02/2022	9:00	0.9	337.5	16/02/2022	9:00	0.9	135
13/02/2022	10:00	0.9	112.5	14/02/2022	10:00	0.9	135	15/02/2022	10:00	1.3	0	16/02/2022	10:00	0.9	135
13/02/2022	11:00	0.9	112.5	14/02/2022	11:00	0.9	112.5	15/02/2022	11:00	0.9	202.5	16/02/2022	11:00	0.9	247.5
13/02/2022	12:00	0.9	112.5	14/02/2022	12:00	0.9	67.5	15/02/2022	12:00	0.4	202.5	16/02/2022	12:00	0.4	112.5
13/02/2022	13:00	0.4	247.5	14/02/2022	13:00	0.9	0	15/02/2022	13:00	0.4	225	16/02/2022	13:00	0.9	0.9
13/02/2022	14:00	0.9	112.5	14/02/2022	14:00	1.3	22.5	15/02/2022	14:00	0	225	16/02/2022	14:00	0.9	0.9
13/02/2022	15:00	0.9	67.5	14/02/2022	15:00	0.9	90	15/02/2022	15:00	0	225	16/02/2022	15:00	0.9	0.9
13/02/2022	16:00	0.9	112.5	14/02/2022	16:00	0.9	67.5	15/02/2022	16:00	0.9	247.5	16/02/2022	16:00	0.9	0.9
13/02/2022	17:00	0.4	112.5	14/02/2022	17:00	1.3	337.5	15/02/2022	17:00	0.4	270	16/02/2022	17:00	0.9	0.9
13/02/2022	18:00	1.8	90	14/02/2022	18:00	0.9	112.5	15/02/2022	18:00	0	180	16/02/2022	18:00	0.9	0.9
13/02/2022	19:00	0.4	112.5	14/02/2022	19:00	0.9	112.5	15/02/2022	19:00	0.4	270	16/02/2022	19:00	0.9	0.9
13/02/2022	20:00	0.9	112.5	14/02/2022	20:00	1.3	67.5	15/02/2022	20:00	0.4	202.5	16/02/2022	20:00	0.9	0.9
13/02/2022	21:00	1.3	112.5	14/02/2022	21:00	0.9	45	15/02/2022	21:00	0.4	225	16/02/2022	21:00	0.9	0.9
13/02/2022	22:00	0.9	112.5	14/02/2022	22:00	0.9	90	15/02/2022	22:00	0	225	16/02/2022	22:00	0.9	0.9
13/02/2022	23:00	0.9	90	14/02/2022	23:00	1.3	90	15/02/2022	23:00	0	225	16/02/2022	23:00	0.9	0.9

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/02/2022	0:00	0.9	112.5	18/02/2022	0:00	0.9	112.5	19/02/2022	0:00	1.3	45	20/02/2022	0:00	0.9	112.5
17/02/2022	1:00	0.9	112.5	18/02/2022	1:00	0.9	112.5	19/02/2022	1:00	0.9	90	20/02/2022	1:00	1.3	90
17/02/2022	2:00	1.3	135	18/02/2022	2:00	0.9	112.5	19/02/2022	2:00	0.4	90	20/02/2022	2:00	1.3	112.5
17/02/2022	3:00	0.9	112.5	18/02/2022	3:00	0.9	112.5	19/02/2022	3:00	0.9	0	20/02/2022	3:00	1.8	90
17/02/2022	4:00	0.4	135	18/02/2022	4:00	0.4	112.5	19/02/2022	4:00	0.9	0	20/02/2022	4:00	1.3	112.5
17/02/2022	5:00	0.4	135	18/02/2022	5:00	0.4	112.5	19/02/2022	5:00	0.9	337.5	20/02/2022	5:00	0.4	157.5
17/02/2022	6:00	3.1	112.5	18/02/2022	6:00	0.9	135	19/02/2022	6:00	0.9	22.5	20/02/2022	6:00	0.9	112.5
17/02/2022	7:00	2.2	112.5	18/02/2022	7:00	0.4	135	19/02/2022	7:00	0.4	135	20/02/2022	7:00	0.4	112.5
17/02/2022	8:00	3.1	135	18/02/2022	8:00	0.9	112.5	19/02/2022	8:00	1.3	112.5	20/02/2022	8:00	0.9	90
17/02/2022	9:00	2.2	112.5	18/02/2022	9:00	0.4	135	19/02/2022	9:00	0.4	135	20/02/2022	9:00	1.3	90
17/02/2022	10:00	1.8	90	18/02/2022	10:00	0.4	112.5	19/02/2022	10:00	0.9	112.5	20/02/2022	10:00	1.3	112.5
17/02/2022	11:00	1.3	157.5	18/02/2022	11:00	0.4	112.5	19/02/2022	11:00	1.3	45	20/02/2022	11:00	1.8	67.5
17/02/2022	12:00	1.8	22.5	18/02/2022	12:00	0.9	135	19/02/2022	12:00	0.9	90	20/02/2022	12:00	1.8	112.5
17/02/2022	13:00	1.8	135	18/02/2022	13:00	0.9	337.5	19/02/2022	13:00	0.9	337.5	20/02/2022	13:00	0.4	112.5
17/02/2022	14:00	1.3	247.5	18/02/2022	14:00	1.8	45	19/02/2022	14:00	0.9	22.5	20/02/2022	14:00	0.9	112.5
17/02/2022	15:00	1.3	45	18/02/2022	15:00	1.3	337.5	19/02/2022	15:00	0.9	337.5	20/02/2022	15:00	0.9	112.5
17/02/2022	16:00	1.3	247.5	18/02/2022	16:00	0.9	112.5	19/02/2022	16:00	0.9	67.5	20/02/2022	16:00	0.9	112.5
17/02/2022	17:00	0.9	337.5	18/02/2022	17:00	1.3	112.5	19/02/2022	17:00	0.9	0	20/02/2022	17:00	0.9	112.5
17/02/2022	18:00	1.3	45	18/02/2022	18:00	1.3	112.5	19/02/2022	18:00	0.9	90	20/02/2022	18:00	0.9	225
17/02/2022	19:00	1.3	22.5	18/02/2022	19:00	1.3	67.5	19/02/2022	19:00	0.9	67.5	20/02/2022	19:00	0.9	247.5
17/02/2022	20:00	0.4	135	18/02/2022	20:00	0.9	135	19/02/2022	20:00	0.9	22.5	20/02/2022	20:00	0.4	180
17/02/2022	21:00	0.9	135	18/02/2022	21:00	1.3	112.5	19/02/2022	21:00	1.3	45	20/02/2022	21:00	0.4	112.5
17/02/2022	22:00	0.4	135	18/02/2022	22:00	0.9	90	19/02/2022	22:00	1.3	45	20/02/2022	22:00	0.4	112.5
17/02/2022	23:00	0.4	135	18/02/2022	23:00	0.9	135	19/02/2022	23:00	1.3	22.5	20/02/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/02/2022	0:00	0.9	90	22/02/2022	0:00	0.9	292.5	23/02/2022	0:00	0.4	22.5	24/02/2022	0:00	0.4	270
21/02/2022	1:00	0.9	112.5	22/02/2022	1:00	0.4	112.5	23/02/2022	1:00	0.4	90	24/02/2022	1:00	0.9	45
21/02/2022	2:00	0.9	112.5	22/02/2022	2:00	0.9	112.5	23/02/2022	2:00	0.4	112.5	24/02/2022	2:00	1.3	90
21/02/2022	3:00	1.3	135	22/02/2022	3:00	1.3	112.5	23/02/2022	3:00	0.9	0	24/02/2022	3:00	0.4	90
21/02/2022	4:00	0.9	112.5	22/02/2022	4:00	0.4	135	23/02/2022	4:00	0.4	135	24/02/2022	4:00	0.4	0
21/02/2022	5:00	0.9	90	22/02/2022	5:00	0.9	112.5	23/02/2022	5:00	0.9	22.5	24/02/2022	5:00	0.9	22.5
21/02/2022	6:00	0.9	67.5	22/02/2022	6:00	0.4	135	23/02/2022	6:00	0.4	135	24/02/2022	6:00	1.3	112.5
21/02/2022	7:00	0.9	67.5	22/02/2022	7:00	0.4	135	23/02/2022	7:00	0.9	135	24/02/2022	7:00	1.3	270
21/02/2022	8:00	0.9	67.5	22/02/2022	8:00	0.4	112.5	23/02/2022	8:00	1.3	112.5	24/02/2022	8:00	0.9	45
21/02/2022	9:00	0.9	90	22/02/2022	9:00	0.9	135	23/02/2022	9:00	1.3	135	24/02/2022	9:00	1.3	45
21/02/2022	10:00	0.9	90	22/02/2022	10:00	0.9	112.5	23/02/2022	10:00	1.3	90	24/02/2022	10:00	1.3	45
21/02/2022	11:00	0.9	112.5	22/02/2022	11:00	0.9	112.5	23/02/2022	11:00	0.9	112.5	24/02/2022	11:00	0.9	112.5
21/02/2022	12:00	0.4	45	22/02/2022	12:00	0.4	135	23/02/2022	12:00	0.4	90	24/02/2022	12:00	0.9	11.5
21/02/2022	13:00	0.4	112.5	22/02/2022	13:00	0.4	337.5	23/02/2022	13:00	0.9	270	24/02/2022	13:00	0.4	270
21/02/2022	14:00	0.4	112.5	22/02/2022	14:00	0.4	112.5	23/02/2022	14:00	1.3	90	24/02/2022	14:00	0.9	45
21/02/2022	15:00	0.4	112.5	22/02/2022	15:00	0.9	112.5	23/02/2022	15:00	0.9	112.5	24/02/2022	15:00	1.3	90
21/02/2022	16:00	0.9	112.5	22/02/2022	16:00	0.9	112.5	23/02/2022	16:00	0.9	45	24/02/2022	16:00	0.9	90
21/02/2022	17:00	1.8	112.5	22/02/2022	17:00	0.4	90	23/02/2022	17:00	0.9	112.5	24/02/2022	17:00	0.9	0
21/02/2022	18:00	0.4	247.5	22/02/2022	18:00	0.4	90	23/02/2022	18:00	1.3	225	24/02/2022	18:00	0.9	22.5
21/02/2022	19:00	0.4	247.5	22/02/2022	19:00	0.4	90	23/02/2022	19:00	0.4	112.5	24/02/2022	19:00	1.3	112.5
21/02/2022	20:00	0.4	112.5	22/02/2022	20:00	0.4	67.5	23/02/2022	20:00	0.4	112.5	24/02/2022	20:00	0.4	270
21/02/2022	21:00	0.4	45	22/02/2022	21:00	0.4	112.5	23/02/2022	21:00	0.9	112.5	24/02/2022	21:00	0.9	45
21/02/2022	22:00	0.4	112.5	22/02/2022	22:00	0	112.5	23/02/2022	22:00	0.9	112.5	24/02/2022	22:00	1.3	90
21/02/2022	23:00	0.4	112.5	22/02/2022	23:00	0.4	112.5	23/02/2022	23:00	0.4	112.5	24/02/2022	23:00	0.9	90

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/02/2022	0:00	0.4	247.5	26/02/2022	0:00	0.4	112.5	27/02/2022	0:00	0.9	90	28/02/2022	0:00	0.9	45
25/02/2022	1:00	0.4	247.5	26/02/2022	1:00	0.4	180	27/02/2022	1:00	0.9	67.5	28/02/2022	1:00	0.9	180
25/02/2022	2:00	0.4	247.5	26/02/2022	2:00	0.4	157.5	27/02/2022	2:00	1.3	337.5	28/02/2022	2:00	0.4	0
25/02/2022	3:00	0.4	247.5	26/02/2022	3:00	0.4	180	27/02/2022	3:00	0.9	112.5	28/02/2022	3:00	0.9	90
25/02/2022	4:00	0.9	225	26/02/2022	4:00	1.3	270	27/02/2022	4:00	0.9	112.5	28/02/2022	4:00	0.9	90
25/02/2022	5:00	0.9	202.5	26/02/2022	5:00	1.3	247.5	27/02/2022	5:00	0.9	67.5	28/02/2022	5:00	0.4	112.5
25/02/2022	6:00	0.9	112.5	26/02/2022	6:00	1.3	112.5	27/02/2022	6:00	0.9	45	28/02/2022	6:00	0.9	135
25/02/2022	7:00	0.9	225	26/02/2022	7:00	0.4	67.5	27/02/2022	7:00	0.9	90	28/02/2022	7:00	0.9	90
25/02/2022	8:00	0.4	202.5	26/02/2022	8:00	0.4	135	27/02/2022	8:00	0.9	67.5	28/02/2022	8:00	1.3	90
25/02/2022	9:00	0.4	157.5	26/02/2022	9:00	0.9	90	27/02/2022	9:00	1.3	337.5	28/02/2022	9:00	1.8	112.
25/02/2022	10:00	0.4	90	26/02/2022	10:00	0.9	67.5	27/02/2022	10:00	0.9	112.5	28/02/2022	10:00	0.9	90
25/02/2022	11:00	0.4	90	26/02/2022	11:00	0.9	90	27/02/2022	11:00	0.9	112.5	28/02/2022	11:00	0.4	112.5
25/02/2022	12:00	0.4	112.5	26/02/2022	12:00	0.9	90	27/02/2022	12:00	0.9	112.5	28/02/2022	12:00	0.9	135
25/02/2022	13:00	0.4	157.5	26/02/2022	13:00	1.3	135	27/02/2022	13:00	1.3	90	28/02/2022	13:00	0.4	135
25/02/2022	14:00	0.4	112.5	26/02/2022	14:00	1.3	90	27/02/2022	14:00	0.9	90	28/02/2022	14:00	0.4	135
25/02/2022	15:00	0.9	270	26/02/2022	15:00	1.8	90	27/02/2022	15:00	0.9	112.5	28/02/2022	15:00	0.4	157.5
25/02/2022	16:00	1.8	112.5	26/02/2022	16:00	0.9	90	27/02/2022	16:00	0.9	112.5	28/02/2022	16:00	0.9	157.5
25/02/2022	17:00	0.4	112.5	26/02/2022	17:00	0.9	67.5	27/02/2022	17:00	0.9	112.5	28/02/2022	17:00	0.9	180
25/02/2022	18:00	0.9	45	26/02/2022	18:00	0.9	90	27/02/2022	18:00	0.9	90	28/02/2022	18:00	0.4	112.5
25/02/2022	19:00	1.3	45	26/02/2022	19:00	0.9	67.5	27/02/2022	19:00	0.9	112.5	28/02/2022	19:00	0.9	90
25/02/2022	20:00	1.3	67.5	26/02/2022	20:00	0.4	90	27/02/2022	20:00	0.9	45	28/02/2022	20:00	0.9	90
25/02/2022	21:00	0.9	157.5	26/02/2022	21:00	0.4	90	27/02/2022	21:00	0.4	45	28/02/2022	21:00	0.9	90
25/02/2022	22:00	0.4	157.5	26/02/2022	22:00	0.9	90	27/02/2022	22:00	0.4	90	28/02/2022	22:00	0.4	157.5
25/02/2022	23:00	0.4	157.5	26/02/2022	23:00	1.3	90	27/02/2022	23:00	0.4	67.5	28/02/2022	23:00	0.9	157.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/03/2022	0:00	0.9	112.5	02/03/2022	0:00	0.9	22.5	03/03/2022	0:00	0.9	225	04/03/2022	0:00	1.3	112.5
01/03/2022	1:00	1.3	22.5	02/03/2022	1:00	0.9	22.5	03/03/2022	1:00	0.9	225	04/03/2022	1:00	0.9	90
01/03/2022	2:00	1.3	135	02/03/2022	2:00	0.9	157.5	03/03/2022	2:00	0.9	225	04/03/2022	2:00	0.9	112.5
01/03/2022	3:00	1.8	112.5	02/03/2022	3:00	1.3	22.5	03/03/2022	3:00	1.3	225	04/03/2022	3:00	0.4	90
01/03/2022	4:00	1.8	112.5	02/03/2022	4:00	0.9	112.5	03/03/2022	4:00	1.3	247.5	04/03/2022	4:00	0.4	90
01/03/2022	5:00	1.3	112.5	02/03/2022	5:00	0.9	135	03/03/2022	5:00	0.9	247.5	04/03/2022	5:00	0.9	90
01/03/2022	6:00	1.8	112.5	02/03/2022	6:00	0.9	135	03/03/2022	6:00	1.3	90	04/03/2022	6:00	0.4	90
01/03/2022	7:00	1.3	135	02/03/2022	7:00	0.9	112.5	03/03/2022	7:00	0.9	112.5	04/03/2022	7:00	0.4	90
01/03/2022	8:00	0.9	135	02/03/2022	8:00	0.9	112.5	03/03/2022	8:00	1.3	90	04/03/2022	8:00	1.3	112.5
01/03/2022	9:00	1.3	135	02/03/2022	9:00	0.9	112.5	03/03/2022	9:00	1.3	90	04/03/2022	9:00	1.3	90
01/03/2022	10:00	0.9	112.5	02/03/2022	10:00	0.9	135	03/03/2022	10:00	0.9	67.5	04/03/2022	10:00	1.3	112.5
01/03/2022	11:00	1.3	22.5	02/03/2022	11:00	1.3	90	03/03/2022	11:00	1.3	45	04/03/2022	11:00	1.3	90
01/03/2022	12:00	1.3	135	02/03/2022	12:00	1.3	135	03/03/2022	12:00	1.3	45	04/03/2022	12:00	1.8	112.5
01/03/2022	13:00	135	135	02/03/2022	13:00	1.3	112.5	03/03/2022	13:00	0.9	315	04/03/2022	13:00	1.8	135
01/03/2022	14:00	135	135	02/03/2022	14:00	0.9	90	03/03/2022	14:00	0.4	67.5	04/03/2022	14:00	1.8	112.5
01/03/2022	15:00	112.5	112.5	02/03/2022	15:00	0.4	90	03/03/2022	15:00	0.9	45	04/03/2022	15:00	1.3	112.5
01/03/2022	16:00	112.5	112.5	02/03/2022	16:00	0.9	247.5	03/03/2022	16:00	0.4	67.5	04/03/2022	16:00	0.9	247.5
01/03/2022	17:00	135	135	02/03/2022	17:00	0.4	202.5	03/03/2022	17:00	1.3	90	04/03/2022	17:00	0.9	247.5
01/03/2022	18:00	135	135	02/03/2022	18:00	0.4	180	03/03/2022	18:00	0.9	90	04/03/2022	18:00	0.9	315
01/03/2022	19:00	90	90	02/03/2022	19:00	0.4	247.5	03/03/2022	19:00	1.3	67.5	04/03/2022	19:00	1.3	315
01/03/2022	20:00	90	90	02/03/2022	20:00	0.4	247.5	03/03/2022	20:00	1.3	90	04/03/2022	20:00	1.8	135
01/03/2022	21:00	90	90	02/03/2022	21:00	0.4	292.5	03/03/2022	21:00	1.3	337.5	04/03/2022	21:00	1.3	135
01/03/2022	22:00	112.5	112.5	02/03/2022	22:00	0.9	292.5	03/03/2022	22:00	0.9	337.5	04/03/2022	22:00	1.3	112.5
01/03/2022	23:00	135	135	02/03/2022	23:00	1.3	67.5	03/03/2022	23:00	1.3	67.5	04/03/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/03/2022	0:00	0.9	112.5	06/03/2022	0:00	0.9	22.5	07/03/2022	0:00	1.3	45	08/03/2022	0:00	1.3	67.5
05/03/2022	1:00	0.9	90	06/03/2022	1:00	0.4	22.5	07/03/2022	1:00	0.4	135	08/03/2022	1:00	1.3	135
05/03/2022	2:00	0.4	112.5	06/03/2022	2:00	0.4	22.5	07/03/2022	2:00	0.4	67.5	08/03/2022	2:00	0.9	90
05/03/2022	3:00	0.9	112.5	06/03/2022	3:00	0.9	22.5	07/03/2022	3:00	0.9	90	08/03/2022	3:00	0.9	135
05/03/2022	4:00	1.3	112.5	06/03/2022	4:00	0.4	135	07/03/2022	4:00	1.3	90	08/03/2022	4:00	0.9	112.5
05/03/2022	5:00	0.9	45	06/03/2022	5:00	0.9	135	07/03/2022	5:00	1.3	90	08/03/2022	5:00	0.9	90
05/03/2022	6:00	0.9	112.5	06/03/2022	6:00	0.9	90	07/03/2022	6:00	1.3	112.5	08/03/2022	6:00	0.9	67.5
05/03/2022	7:00	0.4	112.5	06/03/2022	7:00	0.9	270	07/03/2022	7:00	1.3	135	08/03/2022	7:00	1.3	135
05/03/2022	8:00	0.9	112.5	06/03/2022	8:00	0.4	247.5	07/03/2022	8:00	0.9	90	08/03/2022	8:00	0.9	135
05/03/2022	9:00	0.4	90	06/03/2022	9:00	0.4	112.5	07/03/2022	9:00	0.9	112.5	08/03/2022	9:00	0.9	135
05/03/2022	10:00	0.9	90	06/03/2022	10:00	1.3	45	07/03/2022	10:00	0.9	90	08/03/2022	10:00	0.4	135
05/03/2022	11:00	0.4	90	06/03/2022	11:00	1.3	112.5	07/03/2022	11:00	0.9	90	08/03/2022	11:00	0.9	135
05/03/2022	12:00	0.4	112.5	06/03/2022	12:00	1.3	90	07/03/2022	12:00	1.3	45	08/03/2022	12:00	1.3	67.5
05/03/2022	13:00	1.3	45	06/03/2022	13:00	1.3	67.5	07/03/2022	13:00	0.4	135	08/03/2022	13:00	1.3	135
05/03/2022	14:00	0.4	22.5	06/03/2022	14:00	0.9	22.5	07/03/2022	14:00	0.4	45	08/03/2022	14:00	0.9	45
05/03/2022	15:00	0.9	22.5	06/03/2022	15:00	0.9	45	07/03/2022	15:00	0.9	45	08/03/2022	15:00	0.9	247.5
05/03/2022	16:00	1.3	180	06/03/2022	16:00	1.3	67.5	07/03/2022	16:00	0.4	45	08/03/2022	16:00	0.9	135
05/03/2022	17:00	0.9	90	06/03/2022	17:00	0.4	45	07/03/2022	17:00	0.4	157.5	08/03/2022	17:00	0.9	22.5
05/03/2022	18:00	1.3	135	06/03/2022	18:00	0.9	135	07/03/2022	18:00	0.4	225	08/03/2022	18:00	1.3	22.5
05/03/2022	19:00	1.3	45	06/03/2022	19:00	0.9	135	07/03/2022	19:00	0.4	225	08/03/2022	19:00	1.3	112.5
05/03/2022	20:00	0.9	45	06/03/2022	20:00	0.4	22.5	07/03/2022	20:00	0.9	225	08/03/2022	20:00	1.3	112.5
05/03/2022	21:00	1.8	45	06/03/2022	21:00	1.3	45	07/03/2022	21:00	0.9	225	08/03/2022	21:00	1.3	112.5
05/03/2022	22:00	1.3	135	06/03/2022	22:00	1.3	45	07/03/2022	22:00	0.9	22.5	08/03/2022	22:00	0.4	67.5
05/03/2022	23:00	1.3	90	06/03/2022	23:00	1.3	45	07/03/2022	23:00	1.8	135	08/03/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/03/2022	0:00	0.4	90	10/03/2022	0:00	0.9	135	11/03/2022	0:00	0.9	90	12/03/2022	0:00	0.9	90
09/03/2022	1:00	0.9	135	10/03/2022	1:00	0.9	112.5	11/03/2022	1:00	1.3	67.5	12/03/2022	1:00	0.9	67.5
09/03/2022	2:00	0.4	112.5	10/03/2022	2:00	0.4	337.5	11/03/2022	2:00	1.3	247.5	12/03/2022	2:00	1.3	22.5
09/03/2022	3:00	0.4	180	10/03/2022	3:00	0.4	270	11/03/2022	3:00	0.4	247.5	12/03/2022	3:00	0.9	135
09/03/2022	4:00	0.4	135	10/03/2022	4:00	0.4	225	11/03/2022	4:00	0.9	247.5	12/03/2022	4:00	0.4	135
09/03/2022	5:00	0.9	112.5	10/03/2022	5:00	0.4	112.5	11/03/2022	5:00	0.9	225	12/03/2022	5:00	0.4	112.5
09/03/2022	6:00	1.3	157.5	10/03/2022	6:00	0.9	112.5	11/03/2022	6:00	0.9	225	12/03/2022	6:00	0.9	22.5
09/03/2022	7:00	1.3	22.5	10/03/2022	7:00	0.9	67.5	11/03/2022	7:00	0.4	45	12/03/2022	7:00	0.9	45
09/03/2022	8:00	1.3	22.5	10/03/2022	8:00	0.9	45	11/03/2022	8:00	0.9	270	12/03/2022	8:00	0.4	337.5
09/03/2022	9:00	1.8	90	10/03/2022	9:00	0.4	112.5	11/03/2022	9:00	0.9	22.5	12/03/2022	9:00	0.9	90
09/03/2022	10:00	1.3	45	10/03/2022	10:00	0.9	135	11/03/2022	10:00	0.9	67.5	12/03/2022	10:00	0.9	67.5
09/03/2022	11:00	1.3	45	10/03/2022	11:00	0.9	112.5	11/03/2022	11:00	0.4	90	12/03/2022	11:00	1.3	22.5
09/03/2022	12:00	1.8	90	10/03/2022	12:00	0.4	337.5	11/03/2022	12:00	0.9	90	12/03/2022	12:00	0.9	157.5
09/03/2022	13:00	0.4	90	10/03/2022	13:00	0.9	135	11/03/2022	13:00	1.3	67.5	12/03/2022	13:00	0.9	157.5
09/03/2022	14:00	0.4	90	10/03/2022	14:00	0.9	112.5	11/03/2022	14:00	0.9	22.5	12/03/2022	14:00	0.9	315
09/03/2022	15:00	0.9	135	10/03/2022	15:00	0.4	337.5	11/03/2022	15:00	1.3	22.5	12/03/2022	15:00	0.4	315
09/03/2022	16:00	0.4	112.5	10/03/2022	16:00	0.4	270	11/03/2022	16:00	1.8	22.5	12/03/2022	16:00	0.9	315
09/03/2022	17:00	0.4	180	10/03/2022	17:00	0.4	225	11/03/2022	17:00	1.3	45	12/03/2022	17:00	0.9	247.5
09/03/2022	18:00	0.4	135	10/03/2022	18:00	0.4	112.5	11/03/2022	18:00	1.3	90	12/03/2022	18:00	0.4	247.5
09/03/2022	19:00	0.9	112.5	10/03/2022	19:00	0.9	112.5	11/03/2022	19:00	1.3	90	12/03/2022	19:00	0.9	22.5
09/03/2022	20:00	1.3	157.5	10/03/2022	20:00	0.9	67.5	11/03/2022	20:00	0.9	112.5	12/03/2022	20:00	0.4	45
09/03/2022	21:00	1.3	22.5	10/03/2022	21:00	0.9	90	11/03/2022	21:00	1.3	112.5	12/03/2022	21:00	0.9	157.5
09/03/2022	22:00	0.4	90	10/03/2022	22:00	0.9	45	11/03/2022	22:00	0.9	112.5	12/03/2022	22:00	0.9	157.5
09/03/2022	23:00	0.9	135	10/03/2022	23:00	0.9	22.5	11/03/2022	23:00	0.9	90	12/03/2022	23:00	0.9	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/03/2022	0:00	0.4	112.5	14/03/2022	0:00	0.4	112.5	15/03/2022	0:00	0.9	112.5	16/03/2022	0:00	1.3	135
13/03/2022	1:00	0.9	112.5	14/03/2022	1:00	0.4	112.5	15/03/2022	1:00	0.9	135	16/03/2022	1:00	1.3	112.5
13/03/2022	2:00	0.4	135	14/03/2022	2:00	0.9	112.5	15/03/2022	2:00	0.4	135	16/03/2022	2:00	1.3	90
13/03/2022	3:00	0.4	112.5	14/03/2022	3:00	0.4	112.5	15/03/2022	3:00	1.3	112.5	16/03/2022	3:00	1.3	90
13/03/2022	4:00	0.9	135	14/03/2022	4:00	0.9	135	15/03/2022	4:00	0.4	135	16/03/2022	4:00	0.4	112.5
13/03/2022	5:00	0.4	135	14/03/2022	5:00	0.4	112.5	15/03/2022	5:00	0.9	135	16/03/2022	5:00	1.3	90
13/03/2022	6:00	0.4	112.5	14/03/2022	6:00	0.9	112.5	15/03/2022	6:00	0.4	135	16/03/2022	6:00	1.3	112.5
13/03/2022	7:00	0.9	135	14/03/2022	7:00	0.9	112.5	15/03/2022	7:00	0.4	90	16/03/2022	7:00	1.3	90
13/03/2022	8:00	0.4	135	14/03/2022	8:00	1.3	112.5	15/03/2022	8:00	0.4	112.5	16/03/2022	8:00	1.3	112.5
13/03/2022	9:00	0.9	112.5	14/03/2022	9:00	0.4	90	15/03/2022	9:00	0.4	112.5	16/03/2022	9:00	0.9	112.5
13/03/2022	10:00	0.4	112.5	14/03/2022	10:00	0.9	90	15/03/2022	10:00	0.4	112.5	16/03/2022	10:00	1.3	112.5
13/03/2022	11:00	1.3	90	14/03/2022	11:00	0.4	112.5	15/03/2022	11:00	0.4	112.5	16/03/2022	11:00	0.9	45
13/03/2022	12:00	1.3	135	14/03/2022	12:00	0.9	90	15/03/2022	12:00	0.9	135	16/03/2022	12:00	0.9	112.5
13/03/2022	13:00	0.9	112.5	14/03/2022	13:00	0.4	112.5	15/03/2022	13:00	0.9	135	16/03/2022	13:00	0.9	45
13/03/2022	14:00	1.3	112.5	14/03/2022	14:00	0.4	112.5	15/03/2022	14:00	0.9	112.5	16/03/2022	14:00	1.8	112.5
13/03/2022	15:00	1.8	135	14/03/2022	15:00	0.9	112.5	15/03/2022	15:00	0.9	135	16/03/2022	15:00	1.3	135
13/03/2022	16:00	1.3	112.5	14/03/2022	16:00	0.4	112.5	15/03/2022	16:00	0.4	135	16/03/2022	16:00	1.3	112.5
13/03/2022	17:00	1.3	112.5	14/03/2022	17:00	0.9	135	15/03/2022	17:00	1.3	112.5	16/03/2022	17:00	1.3	90
13/03/2022	18:00	0.9	90	14/03/2022	18:00	0.4	112.5	15/03/2022	18:00	0.4	135	16/03/2022	18:00	1.3	90
13/03/2022	19:00	0.9	112.5	14/03/2022	19:00	0.9	112.5	15/03/2022	19:00	0.9	135	16/03/2022	19:00	0.9	112.5
13/03/2022	20:00	0.4	112.5	14/03/2022	20:00	0.9	112.5	15/03/2022	20:00	0.4	135	16/03/2022	20:00	0.9	112.5
13/03/2022	21:00	0.4	112.5	14/03/2022	21:00	1.3	112.5	15/03/2022	21:00	0.4	90	16/03/2022	21:00	0.9	112.5
13/03/2022	22:00	0.9	90	14/03/2022	22:00	0.4	90	15/03/2022	22:00	0.4	112.5	16/03/2022	22:00	1.3	45
13/03/2022	23:00	0.9	90	14/03/2022	23:00	0.9	90	15/03/2022	23:00	0.4	112.5	16/03/2022	23:00	0.9	45

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/03/2022	0:00	0.9	90	18/03/2022	0:00	0.4	112.5	19/03/2022	0:00	0.9	135	20/03/2022	0:00	0.9	90
17/03/2022	1:00	0.9	270	18/03/2022	1:00	0	90	19/03/2022	1:00	0.4	270	20/03/2022	1:00	1.3	67.5
17/03/2022	2:00	1.3	45	18/03/2022	2:00	0.9	90	19/03/2022	2:00	0.4	0	20/03/2022	2:00	0.4	0
17/03/2022	3:00	0.9	45	18/03/2022	3:00	0	112.5	19/03/2022	3:00	0.4	225	20/03/2022	3:00	0.9	45
17/03/2022	4:00	1.3	0	18/03/2022	4:00	0.4	112.5	19/03/2022	4:00	0.4	135	20/03/2022	4:00	0.9	112.5
17/03/2022	5:00	0.9	0	18/03/2022	5:00	0.4	112.5	19/03/2022	5:00	0	337.5	20/03/2022	5:00	0.9	90
17/03/2022	6:00	0.4	45	18/03/2022	6:00	0.4	112.5	19/03/2022	6:00	0.4	135	20/03/2022	6:00	1.3	45
17/03/2022	7:00	0.9	0	18/03/2022	7:00	1.3	90	19/03/2022	7:00	1.3	90	20/03/2022	7:00	0.9	90
17/03/2022	8:00	0.9	0	18/03/2022	8:00	0.4	112.5	19/03/2022	8:00	0.9	112.5	20/03/2022	8:00	1.3	90
17/03/2022	9:00	0.9	337.5	18/03/2022	9:00	0.9	135	19/03/2022	9:00	0.4	112.5	20/03/2022	9:00	1.8	67.5
17/03/2022	10:00	1.3	112.5	18/03/2022	10:00	1.3	112.5	19/03/2022	10:00	0.4	112.5	20/03/2022	10:00	1.8	67.5
17/03/2022	11:00	1.3	112.5	18/03/2022	11:00	1.3	112.5	19/03/2022	11:00	1.3	90	20/03/2022	11:00	1.3	90
17/03/2022	12:00	1.3	90	18/03/2022	12:00	0.9	112.5	19/03/2022	12:00	0.9	135	20/03/2022	12:00	0.9	90
17/03/2022	13:00	0.4	112.5	18/03/2022	13:00	0.9	112.5	19/03/2022	13:00	0.9	90	20/03/2022	13:00	1.3	67.5
17/03/2022	14:00	0.4	45	18/03/2022	14:00	0.9	0	19/03/2022	14:00	0.9	45	20/03/2022	14:00	0.4	90
17/03/2022	15:00	0.4	112.5	18/03/2022	15:00	0.4	202.5	19/03/2022	15:00	0.4	112.5	20/03/2022	15:00	0.9	112.5
17/03/2022	16:00	0.9	112.5	18/03/2022	16:00	0	225	19/03/2022	16:00	0.4	157.5	20/03/2022	16:00	0.4	22.5
17/03/2022	17:00	0.9	112.5	18/03/2022	17:00	0.4	315	19/03/2022	17:00	0.4	67.5	20/03/2022	17:00	0.9	90
17/03/2022	18:00	1.8	90	18/03/2022	18:00	0.4	225	19/03/2022	18:00	0.4	157.5	20/03/2022	18:00	0.4	0
17/03/2022	19:00	1.3	90	18/03/2022	19:00	0.9	202.5	19/03/2022	19:00	0.4	112.5	20/03/2022	19:00	0.4	315
17/03/2022	20:00	2.2	112.5	18/03/2022	20:00	0.4	135	19/03/2022	20:00	0.9	67.5	20/03/2022	20:00	0.9	112.5
17/03/2022	21:00	1.3	112.5	18/03/2022	21:00	0.4	112.5	19/03/2022	21:00	0.9	45	20/03/2022	21:00	0.9	112.5
17/03/2022	22:00	0.9	112.5	18/03/2022	22:00	0.4	112.5	19/03/2022	22:00	1.3	45	20/03/2022	22:00	0.9	112.5
17/03/2022	23:00	0.9	90	18/03/2022	23:00	0.4	135	19/03/2022	23:00	0.9	90	20/03/2022	23:00	0.4	247.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/03/2022	0:00	0.4	67.5	22/03/2022	0:00	1.8	67.5	23/03/2022	0:00	0.4	90	24/03/2022	0:00	0.4	247.5
21/03/2022	1:00	0.4	90	22/03/2022	1:00	1.3	22.5	23/03/2022	1:00	1.3	90	24/03/2022	1:00	0.9	90
21/03/2022	2:00	0.4	90	22/03/2022	2:00	1.8	112.5	23/03/2022	2:00	0.4	112.5	24/03/2022	2:00	1.8	67.5
21/03/2022	3:00	1.3	67.5	22/03/2022	3:00	1.3	45	23/03/2022	3:00	0.9	67.5	24/03/2022	3:00	1.8	90
21/03/2022	4:00	1.3	67.5	22/03/2022	4:00	1.8	90	23/03/2022	4:00	0.9	135	24/03/2022	4:00	1.8	90
21/03/2022	5:00	0.9	337.5	22/03/2022	5:00	1.3	90	23/03/2022	5:00	0.9	112.5	24/03/2022	5:00	2.2	112.5
21/03/2022	6:00	1.3	45	22/03/2022	6:00	1.3	135	23/03/2022	6:00	1.3	135	24/03/2022	6:00	1.3	135
21/03/2022	7:00	1.3	67.5	22/03/2022	7:00	1.3	112.5	23/03/2022	7:00	1.3	90	24/03/2022	7:00	1.8	112.5
21/03/2022	8:00	1.3	90	22/03/2022	8:00	1.3	67.5	23/03/2022	8:00	1.8	0	24/03/2022	8:00	1.3	112.5
21/03/2022	9:00	1.3	90	22/03/2022	9:00	1.3	90	23/03/2022	9:00	1.3	112.5	24/03/2022	9:00	1.3	112.5
21/03/2022	10:00	0.9	90	22/03/2022	10:00	1.8	112.5	23/03/2022	10:00	0.9	112.5	24/03/2022	10:00	1.3	90
21/03/2022	11:00	1.3	67.5	22/03/2022	11:00	1.8	67.5	23/03/2022	11:00	1.3	135	24/03/2022	11:00	1.8	90
21/03/2022	12:00	1.3	67.5	22/03/2022	12:00	1.3	22.5	23/03/2022	12:00	1.3	67.5	24/03/2022	12:00	0.4	247.5
21/03/2022	13:00	0.9	90	22/03/2022	13:00	0.4	135	23/03/2022	13:00	0.4	112.5	24/03/2022	13:00	0.4	90
21/03/2022	14:00	0	135	22/03/2022	14:00	0.9	22.5	23/03/2022	14:00	0.4	315	24/03/2022	14:00	0.4	90
21/03/2022	15:00	0.4	67.5	22/03/2022	15:00	0.9	135	23/03/2022	15:00	0.4	90	24/03/2022	15:00	0.4	67.5
21/03/2022	16:00	0.9	45	22/03/2022	16:00	1.3	22.5	23/03/2022	16:00	0.9	135	24/03/2022	16:00	0.9	90
21/03/2022	17:00	0.4	135	22/03/2022	17:00	0.9	112.5	23/03/2022	17:00	1.3	112.5	24/03/2022	17:00	1.3	135
21/03/2022	18:00	0.4	135	22/03/2022	18:00	0.9	135	23/03/2022	18:00	1.3	135	24/03/2022	18:00	0.9	67.5
21/03/2022	19:00	0.4	112.5	22/03/2022	19:00	1.8	90	23/03/2022	19:00	1.3	112.5	24/03/2022	19:00	1.3	90
21/03/2022	20:00	0.9	22.5	22/03/2022	20:00	1.8	135	23/03/2022	20:00	0.9	112.5	24/03/2022	20:00	1.3	90
21/03/2022	21:00	0.9	90	22/03/2022	21:00	0.9	112.5	23/03/2022	21:00	1.3	135	24/03/2022	21:00	1.3	112.5
21/03/2022	22:00	0.4	135	22/03/2022	22:00	0.9	135	23/03/2022	22:00	0.9	112.5	24/03/2022	22:00	0.9	112.5
21/03/2022	23:00	0.4	225	22/03/2022	23:00	0.9	225	23/03/2022	23:00	0.4	112.5	24/03/2022	23:00	1.3	135

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/03/2022	0:00	1.3	135	26/03/2022	0:00	0.9	45	27/03/2022	0:00	1.3	22.5	28/03/2022	0:00	0.9	45
25/03/2022	1:00	1.3	135	26/03/2022	1:00	1.3	45	27/03/2022	1:00	1.3	270	28/03/2022	1:00	1.3	270
25/03/2022	2:00	1.8	135	26/03/2022	2:00	1.3	90	27/03/2022	2:00	1.8	45	28/03/2022	2:00	0.9	22.5
25/03/2022	3:00	0.4	112.5	26/03/2022	3:00	0.9	90	27/03/2022	3:00	1.3	112.5	28/03/2022	3:00	1.3	67.5
25/03/2022	4:00	0.9	112.5	26/03/2022	4:00	1.8	90	27/03/2022	4:00	2.2	90	28/03/2022	4:00	0.9	135
25/03/2022	5:00	0.9	135	26/03/2022	5:00	1.3	90	27/03/2022	5:00	1.8	45	28/03/2022	5:00	0.4	45
25/03/2022	6:00	1.3	90	26/03/2022	6:00	1.8	45	27/03/2022	6:00	1.8	180	28/03/2022	6:00	0.9	90
25/03/2022	7:00	0.4	90	26/03/2022	7:00	1.3	22.5	27/03/2022	7:00	1.3	45	28/03/2022	7:00	1.3	90
25/03/2022	8:00	1.3	135	26/03/2022	8:00	1.8	270	27/03/2022	8:00	2.2	90	28/03/2022	8:00	1.3	67.5
25/03/2022	9:00	0.9	135	26/03/2022	9:00	1.3	45	27/03/2022	9:00	1.8	67.5	28/03/2022	9:00	0.9	45
25/03/2022	10:00	0.4	135	26/03/2022	10:00	2.2	202.5	27/03/2022	10:00	1.3	90	28/03/2022	10:00	1.3	112.5
25/03/2022	11:00	0.4	90	26/03/2022	11:00	1.8	180	27/03/2022	11:00	1.8	112.5	28/03/2022	11:00	0.9	90
25/03/2022	12:00	1.3	135	26/03/2022	12:00	0.4	90	27/03/2022	12:00	2.2	22.5	28/03/2022	12:00	0.9	67.5
25/03/2022	13:00	1.3	135	26/03/2022	13:00	1.3	135	27/03/2022	13:00	1.3	67.5	28/03/2022	13:00	1.3	67.5
25/03/2022	14:00	0.4	135	26/03/2022	14:00	0.4	112.5	27/03/2022	14:00	0.9	90	28/03/2022	14:00	0.4	67.5
25/03/2022	15:00	0.9	45	26/03/2022	15:00	0.9	112.5	27/03/2022	15:00	0.9	337.5	28/03/2022	15:00	0.4	90
25/03/2022	16:00	1.3	45	26/03/2022	16:00	0.9	135	27/03/2022	16:00	0.9	45	28/03/2022	16:00	0.9	67.5
25/03/2022	17:00	1.3	292.5	26/03/2022	17:00	1.3	90	27/03/2022	17:00	1.3	45	28/03/2022	17:00	1.3	157.5
25/03/2022	18:00	0.4	292.5	26/03/2022	18:00	0.4	90	27/03/2022	18:00	0.9	90	28/03/2022	18:00	0.9	67.5
25/03/2022	19:00	0.4	45	26/03/2022	19:00	1.3	135	27/03/2022	19:00	1.3	90	28/03/2022	19:00	0.9	67.5
25/03/2022	20:00	0.9	112.5	26/03/2022	20:00	0.9	135	27/03/2022	20:00	0.9	45	28/03/2022	20:00	1.3	315
25/03/2022	21:00	0.9	112.5	26/03/2022	21:00	0.4	135	27/03/2022	21:00	1.3	67.5	28/03/2022	21:00	1.3	90
25/03/2022	22:00	1.3	135	26/03/2022	22:00	0.4	90	27/03/2022	22:00	0.9	67.5	28/03/2022	22:00	0.4	337.5
25/03/2022	23:00	1.3	135	26/03/2022	23:00	0.4	90	27/03/2022	23:00	0.9	90	28/03/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/03/2022	0:00	0.9	67.5	30/03/2022	0:00	0.4	90	31/03/2022	0:00	0.9	112.5				
29/03/2022	1:00	1.8	90	30/03/2022	1:00	0.4	112.5	31/03/2022	1:00	0.9	112.5				
29/03/2022	2:00	1.3	45	30/03/2022	2:00	0.4	90	31/03/2022	2:00	0.4	90				
29/03/2022	3:00	0.4	112.5	30/03/2022	3:00	0.9	112.5	31/03/2022	3:00	0.9	112.5				
29/03/2022	4:00	0.9	90	30/03/2022	4:00	0.9	112.5	31/03/2022	4:00	1.3	112.5				
29/03/2022	5:00	1.3	90	30/03/2022	5:00	0.9	90	31/03/2022	5:00	0.9	90				
29/03/2022	6:00	0.9	112.5	30/03/2022	6:00	0.9	112.5	31/03/2022	6:00	0.9	135				
29/03/2022	7:00	2.2	67.5	30/03/2022	7:00	0.4	22.5	31/03/2022	7:00	0.9	112.5				
29/03/2022	8:00	1.3	90	30/03/2022	8:00	0.9	90	31/03/2022	8:00	0.9	112.5				
29/03/2022	9:00	1.8	112.5	30/03/2022	9:00	0.4	90	31/03/2022	9:00	0.4	112.5				
29/03/2022	10:00	1.3	90	30/03/2022	10:00	1.3	135	31/03/2022	10:00	0.9	67.5				
29/03/2022	11:00	1.3	90	30/03/2022	11:00	1.8	90	31/03/2022	11:00	1.3	45				
29/03/2022	12:00	0.9	315	30/03/2022	12:00	1.3	112.5	31/03/2022	12:00	1.3	22.5				
29/03/2022	13:00	0.4	45	30/03/2022	13:00	1.3	90	31/03/2022	13:00	1.3	90				
29/03/2022	14:00	0.9	112.5	30/03/2022	14:00	1.3	112.5	31/03/2022	14:00	1.3	90				
29/03/2022	15:00	0.9	337.5	30/03/2022	15:00	1.3	135	31/03/2022	15:00	1.3	90				
29/03/2022	16:00	0.9	225	30/03/2022	16:00	0.9	112.5	31/03/2022	16:00	0.4	112.5				
29/03/2022	17:00	0.4	0	30/03/2022	17:00	1.3	112.5	31/03/2022	17:00	1.3	45				
29/03/2022	18:00	0.9	112.5	30/03/2022	18:00	1.3	112.5	31/03/2022	18:00	1.8	90				
29/03/2022	19:00	0.9	112.5	30/03/2022	19:00	0.9	90	31/03/2022	19:00	1.3	90				
29/03/2022	20:00	0.4	90	30/03/2022	20:00	0.4	270	31/03/2022	20:00	0.4	337.5				
29/03/2022	21:00	0.9	112.5	30/03/2022	21:00	0.9	112.5	31/03/2022	21:00	0.9	270				
29/03/2022	22:00	0.4	135	30/03/2022	22:00	0.9	135	31/03/2022	22:00	0.9	157.5				
29/03/2022	23:00	0.4	112.5	30/03/2022	23:00	0.4	90	31/03/2022	23:00	1.3	90				

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
01/04/2022	0:00	0.9	112.5	02/04/2022	0:00	0.9	90	03/04/2022	0:00	0.9	90	04/04/2022	0:00	0.9	90
01/04/2022	1:00	1.3	112.5	02/04/2022	1:00	0.9	90	03/04/2022	1:00	0.9	90	04/04/2022	1:00	1.3	67.5
01/04/2022	2:00	1.3	112.5	02/04/2022	2:00	0.9	112.5	03/04/2022	2:00	0.9	45	04/04/2022	2:00	1.3	90
01/04/2022	3:00	0.9	112.5	02/04/2022	3:00	1.8	90	03/04/2022	3:00	0.9	112.5	04/04/2022	3:00	1.3	337.5
01/04/2022	4:00	1.3	90	02/04/2022	4:00	1.3	67.5	03/04/2022	4:00	0.9	90	04/04/2022	4:00	0.9	337.5
01/04/2022	5:00	1.3	112.5	02/04/2022	5:00	1.3	90	03/04/2022	5:00	0.4	90	04/04/2022	5:00	1.3	67.5
01/04/2022	6:00	1.8	135	02/04/2022	6:00	0.9	135	03/04/2022	6:00	0.9	90	04/04/2022	6:00	1.3	45
01/04/2022	7:00	1.3	112.5	02/04/2022	7:00	0.4	112.5	03/04/2022	7:00	1.3	135	04/04/2022	7:00	1.8	90
01/04/2022	8:00	1.8	90	02/04/2022	8:00	0.9	90	03/04/2022	8:00	1.8	135	04/04/2022	8:00	0.9	112.5
01/04/2022	9:00	1.8	135	02/04/2022	9:00	0.9	90	03/04/2022	9:00	1.3	112.5	04/04/2022	9:00	0.9	337.5
01/04/2022	10:00	0.4	112.5	02/04/2022	10:00	0.4	247.5	03/04/2022	10:00	1.3	90	04/04/2022	10:00	1.3	22.5
01/04/2022	11:00	0.9	90	02/04/2022	11:00	0.4	202.5	03/04/2022	11:00	1.3	90	04/04/2022	11:00	0.9	90
01/04/2022	12:00	0.9	135	02/04/2022	12:00	0.9	90	03/04/2022	12:00	0.9	112.5	04/04/2022	12:00	1.3	67.5
01/04/2022	13:00	0.9	90	02/04/2022	13:00	0.9	112.5	03/04/2022	13:00	0.9	225	04/04/2022	13:00	1.3	90
01/04/2022	14:00	0.9	135	02/04/2022	14:00	0.4	112.5	03/04/2022	14:00	0.4	180	04/04/2022	14:00	1.3	22.5
01/04/2022	15:00	0.4	135	02/04/2022	15:00	0.9	135	03/04/2022	15:00	0.9	180	04/04/2022	15:00	1.3	180
01/04/2022	16:00	1.8	247.5	02/04/2022	16:00	0.4	112.5	03/04/2022	16:00	0.4	112.5	04/04/2022	16:00	1.3	112.5
01/04/2022	17:00	1.8	247.5	02/04/2022	17:00	0.9	112.5	03/04/2022	17:00	0.4	135	04/04/2022	17:00	1.3	135
01/04/2022	18:00	1.8	112.5	02/04/2022	18:00	0.9	112.5	03/04/2022	18:00	0.4	112.5	04/04/2022	18:00	0.4	112.5
01/04/2022	19:00	1.3	157.5	02/04/2022	19:00	1.3	112.5	03/04/2022	19:00	0.4	135	04/04/2022	19:00	0.9	90
01/04/2022	20:00	0.9	112.5	02/04/2022	20:00	0.4	90	03/04/2022	20:00	0.4	112.5	04/04/2022	20:00	1.3	112.5
01/04/2022	21:00	0.4	90	02/04/2022	21:00	0.9	90	03/04/2022	21:00	0.4	112.5	04/04/2022	21:00	1.3	90
01/04/2022	22:00	0.4	337.5	02/04/2022	22:00	0.9	112.5	03/04/2022	22:00	0.9	112.5	04/04/2022	22:00	1.3	112.5
01/04/2022	23:00	0.9	270	02/04/2022	23:00	0.4	112.5	03/04/2022	23:00	0.9	225	04/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
05/04/2022	0:00	0.4	45	06/04/2022	0:00	0.9	45	07/04/2022	0:00	1.3	337.5	08/04/2022	0:00	0.4	112.5
05/04/2022	1:00	0.9	225	06/04/2022	1:00	0.9	180	07/04/2022	1:00	0.9	45	08/04/2022	1:00	0.4	112.5
05/04/2022	2:00	0.9	180	06/04/2022	2:00	1.3	90	07/04/2022	2:00	0.9	45	08/04/2022	2:00	0.4	112.5
05/04/2022	3:00	0.4	22.5	06/04/2022	3:00	1.3	45	07/04/2022	3:00	1.3	45	08/04/2022	3:00	0	112.5
05/04/2022	4:00	0.4	270	06/04/2022	4:00	0.9	45	07/04/2022	4:00	0.4	45	08/04/2022	4:00	0	112.5
05/04/2022	5:00	0.9	22.5	06/04/2022	5:00	0.9	270	07/04/2022	5:00	0.9	247.5	08/04/2022	5:00	0	112.5
05/04/2022	6:00	1.3	270	06/04/2022	6:00	0.9	337.5	07/04/2022	6:00	0.9	22.5	08/04/2022	6:00	0.4	112.5
05/04/2022	7:00	0.9	90	06/04/2022	7:00	0.4	45	07/04/2022	7:00	1.3	22.5	08/04/2022	7:00	0.4	112.5
05/04/2022	8:00	0.4	90	06/04/2022	8:00	0.9	247.5	07/04/2022	8:00	1.3	45	08/04/2022	8:00	1.3	112.5
05/04/2022	9:00	0.9	247.5	06/04/2022	9:00	0.4	270	07/04/2022	9:00	0.4	67.5	08/04/2022	9:00	1.3	112.5
05/04/2022	10:00	0.4	202.5	06/04/2022	10:00	0.9	22.5	07/04/2022	10:00	0.4	135	08/04/2022	10:00	1.3	112.5
05/04/2022	11:00	0.4	180	06/04/2022	11:00	0.9	22.5	07/04/2022	11:00	0.4	202.5	08/04/2022	11:00	1.3	135
05/04/2022	12:00	0.4	45	06/04/2022	12:00	0.4	337.5	07/04/2022	12:00	0.4	45	08/04/2022	12:00	1.3	90
05/04/2022	13:00	0.4	315	06/04/2022	13:00	0.9	225	07/04/2022	13:00	0.4	315	08/04/2022	13:00	0.4	112.5
05/04/2022	14:00	0.4	292.5	06/04/2022	14:00	0.4	157.5	07/04/2022	14:00	0.9	22.5	08/04/2022	14:00	0.4	112.5
05/04/2022	15:00	0.4	22.5	06/04/2022	15:00	0.9	90	07/04/2022	15:00	0.4	135	08/04/2022	15:00	0.9	45
05/04/2022	16:00	0.4	270	06/04/2022	16:00	0.9	90	07/04/2022	16:00	0.9	135	08/04/2022	16:00	0.4	45
05/04/2022	17:00	0.9	22.5	06/04/2022	17:00	1.3	112.5	07/04/2022	17:00	0.9	90	08/04/2022	17:00	0.4	112.5
05/04/2022	18:00	0.9	90	06/04/2022	18:00	0.9	90	07/04/2022	18:00	0.9	270	08/04/2022	18:00	0.9	112.5
05/04/2022	19:00	0.4	45	06/04/2022	19:00	0.9	112.5	07/04/2022	19:00	0.4	247.5	08/04/2022	19:00	0.4	315
05/04/2022	20:00	0.9	247.5	06/04/2022	20:00	0.4	90	07/04/2022	20:00	0.4	112.5	08/04/2022	20:00	0.4	112.5
05/04/2022	21:00	0.9	45	06/04/2022	21:00	0.4	90	07/04/2022	21:00	1.3	45	08/04/2022	21:00	0.9	45
05/04/2022	22:00	0.9	225	06/04/2022	22:00	0.9	90	07/04/2022	22:00	1.3	112.5	08/04/2022	22:00	0.4	45
05/04/2022	23:00	0.4	315	06/04/2022	23:00	0.4	90	07/04/2022	23:00	1.3	90	08/04/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
09/04/2022	0:00	0.9	67.5	10/04/2022	0:00	0.4	112.5	11/04/2022	0:00	0.4	112.5	12/04/2022	0:00	0.9	225
09/04/2022	1:00	0.4	22.5	10/04/2022	1:00	0.9	112.5	11/04/2022	1:00	0.4	135	12/04/2022	1:00	0.9	247.5
09/04/2022	2:00	0.9	67.5	10/04/2022	2:00	1.3	112.5	11/04/2022	2:00	0.4	112.5	12/04/2022	2:00	0.9	247.5
09/04/2022	3:00	0.9	67.5	10/04/2022	3:00	0.9	45	11/04/2022	3:00	0.4	112.5	12/04/2022	3:00	0.4	225
09/04/2022	4:00	0.9	45	10/04/2022	4:00	0.9	112.5	11/04/2022	4:00	0.4	67.5	12/04/2022	4:00	0.4	247.5
09/04/2022	5:00	1.3	67.5	10/04/2022	5:00	0.4	112.5	11/04/2022	5:00	1.8	157.5	12/04/2022	5:00	0.4	292.5
09/04/2022	6:00	0.4	45	10/04/2022	6:00	0.9	112.5	11/04/2022	6:00	1.8	112.5	12/04/2022	6:00	0.9	225
09/04/2022	7:00	0.9	135	10/04/2022	7:00	0.4	90	11/04/2022	7:00	2.7	180	12/04/2022	7:00	0.9	247.5
09/04/2022	8:00	0.9	135	10/04/2022	8:00	0.9	90	11/04/2022	8:00	1.3	112.5	12/04/2022	8:00	0.4	247.5
09/04/2022	9:00	0.4	22.5	10/04/2022	9:00	0.4	90	11/04/2022	9:00	1.3	90	12/04/2022	9:00	0.4	157.5
09/04/2022	10:00	1.3	45	10/04/2022	10:00	0.4	112.5	11/04/2022	10:00	1.3	135	12/04/2022	10:00	0.9	112.5
09/04/2022	11:00	1.3	45	10/04/2022	11:00	0.9	45	11/04/2022	11:00	1.3	112.5	12/04/2022	11:00	0.9	157.5
09/04/2022	12:00	1.3	45	10/04/2022	12:00	0.4	112.5	11/04/2022	12:00	1.8	135	12/04/2022	12:00	0.4	157.5
09/04/2022	13:00	1.3	90	10/04/2022	13:00	0.9	112.5	11/04/2022	13:00	1.3	135	12/04/2022	13:00	0.9	247.5
09/04/2022	14:00	1.3	45	10/04/2022	14:00	1.3	112.5	11/04/2022	14:00	1.3	270	12/04/2022	14:00	0.9	112.5
09/04/2022	15:00	0.4	135	10/04/2022	15:00	1.8	45	11/04/2022	15:00	1.3	247.5	12/04/2022	15:00	0.9	67.5
09/04/2022	16:00	0.4	67.5	10/04/2022	16:00	1.3	67.5	11/04/2022	16:00	1.3	270	12/04/2022	16:00	1.3	225
09/04/2022	17:00	0.9	90	10/04/2022	17:00	0.9	112.5	11/04/2022	17:00	1.3	247.5	12/04/2022	17:00	1.8	247.5
09/04/2022	18:00	1.3	90	10/04/2022	18:00	0.9	112.5	11/04/2022	18:00	1.3	270	12/04/2022	18:00	1.3	247.5
09/04/2022	19:00	1.3	90	10/04/2022	19:00	1.3	112.5	11/04/2022	19:00	0.9	247.5	12/04/2022	19:00	1.3	90
09/04/2022	20:00	1.3	112.5	10/04/2022	20:00	1.3	112.5	11/04/2022	20:00	0.9	247.5	12/04/2022	20:00	1.3	45
09/04/2022	21:00	1.3	135	10/04/2022	21:00	0.4	112.5	11/04/2022	21:00	0.9	45	12/04/2022	21:00	1.3	247.5
09/04/2022	22:00	0.9	90	10/04/2022	22:00	0.9	112.5	11/04/2022	22:00	0.9	45	12/04/2022	22:00	1.3	112.5
09/04/2022	23:00	0.9	112.5	10/04/2022	23:00	0.4	112.5	11/04/2022	23:00	0.9	22.5	12/04/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
13/04/2022	0:00	0.4	135	14/04/2022	0:00	1.3	112.5	15/04/2022	0:00	0.4	67.5	16/04/2022	0:00	0.4	112.5
13/04/2022	1:00	0.4	90	14/04/2022	1:00	1.3	112.5	15/04/2022	1:00	0.4	67.5	16/04/2022	1:00	0.9	112.5
13/04/2022	2:00	0.4	22.5	14/04/2022	2:00	0.9	135	15/04/2022	2:00	1.3	0	16/04/2022	2:00	0.4	45
13/04/2022	3:00	1.3	90	14/04/2022	3:00	1.3	90	15/04/2022	3:00	0	67.5	16/04/2022	3:00	0.4	112.5
13/04/2022	4:00	0.9	112.5	14/04/2022	4:00	0.9	112.5	15/04/2022	4:00	0.4	90	16/04/2022	4:00	1.3	90
13/04/2022	5:00	0.9	112.5	14/04/2022	5:00	0.9	112.5	15/04/2022	5:00	0.4	90	16/04/2022	5:00	0.4	112.5
13/04/2022	6:00	0.9	135	14/04/2022	6:00	1.8	112.5	15/04/2022	6:00	0.4	67.5	16/04/2022	6:00	0.4	67.5
13/04/2022	7:00	0.9	90	14/04/2022	7:00	0.4	90	15/04/2022	7:00	0.9	90	16/04/2022	7:00	1.3	135
13/04/2022	8:00	0.9	112.5	14/04/2022	8:00	1.3	45	15/04/2022	8:00	1.3	135	16/04/2022	8:00	1.3	112.5
13/04/2022	9:00	1.8	112.5	14/04/2022	9:00	0.4	45	15/04/2022	9:00	0.9	67.5	16/04/2022	9:00	0.9	135
13/04/2022	10:00	1.3	112.5	14/04/2022	10:00	1.3	112.5	15/04/2022	10:00	1.3	90	16/04/2022	10:00	1.3	90
13/04/2022	11:00	0.9	90	14/04/2022	11:00	1.3	112.5	15/04/2022	11:00	1.3	90	16/04/2022	11:00	0.9	112.5
13/04/2022	12:00	1.8	90	14/04/2022	12:00	0.9	135	15/04/2022	12:00	0.9	90	16/04/2022	12:00	1.3	90
13/04/2022	13:00	0.9	112.5	14/04/2022	13:00	1.3	112.4	15/04/2022	13:00	0.4	90	16/04/2022	13:00	0.4	112.5
13/04/2022	14:00	0.9	135	14/04/2022	14:00	0.9	90	15/04/2022	14:00	0.9	45	16/04/2022	14:00	0.4	112.5
13/04/2022	15:00	0.9	90	14/04/2022	15:00	0.9	90	15/04/2022	15:00	0.4	135	16/04/2022	15:00	0.4	90
13/04/2022	16:00	0.9	112.5	14/04/2022	16:00	1.3	112.5	15/04/2022	16:00	0.4	135	16/04/2022	16:00	0.4	90
13/04/2022	17:00	1.8	112.5	14/04/2022	17:00	1.8	90	15/04/2022	17:00	0.4	112.5	16/04/2022	17:00	0.4	67.5
13/04/2022	18:00	1.3	112.5	14/04/2022	18:00	0.9	90	15/04/2022	18:00	0.9	22.5	16/04/2022	18:00	0.9	112.5
13/04/2022	19:00	0.9	90	14/04/2022	19:00	0.9	202.5	15/04/2022	19:00	0.9	90	16/04/2022	19:00	1.3	135
13/04/2022	20:00	1.8	90	14/04/2022	20:00	0.9	112.5	15/04/2022	20:00	0.4	135	16/04/2022	20:00	1.3	90
13/04/2022	21:00	1.3	90	14/04/2022	21:00	0.9	0	15/04/2022	21:00	0.4	225	16/04/2022	21:00	1.8	0
13/04/2022	22:00	1.8	67.5	14/04/2022	22:00	1.3	90	15/04/2022	22:00	0.4	157.5	16/04/2022	22:00	1.3	112.5
13/04/2022	23:00	0.9	112.5	14/04/2022	23:00	1.3	90	15/04/2022	23:00	1.3	90	16/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
17/04/2022	0:00	1.3	135	18/04/2022	0:00	0.9	0	19/04/2022	0:00	0.9	292.5	20/04/2022	0:00	1.3	112.5
17/04/2022	1:00	1.3	22.5	18/04/2022	1:00	0.4	45	19/04/2022	1:00	0.9	22.5	20/04/2022	1:00	1.3	90
17/04/2022	2:00	1.3	90	18/04/2022	2:00	0.9	0	19/04/2022	2:00	0.9	0	20/04/2022	2:00	1.8	112.5
17/04/2022	3:00	1.8	67.5	18/04/2022	3:00	0.9	0	19/04/2022	3:00	0.9	112.5	20/04/2022	3:00	0.9	67.5
17/04/2022	4:00	1.8	67.5	18/04/2022	4:00	0.9	337.5	19/04/2022	4:00	0.9	67.5	20/04/2022	4:00	0.9	112.5
17/04/2022	5:00	0.9	90	18/04/2022	5:00	1.3	112.5	19/04/2022	5:00	0.9	157.5	20/04/2022	5:00	0.9	112.5
17/04/2022	6:00	0.9	90	18/04/2022	6:00	1.3	112.5	19/04/2022	6:00	0.9	337.5	20/04/2022	6:00	0.4	90
17/04/2022	7:00	1.8	67.5	18/04/2022	7:00	1.3	90	19/04/2022	7:00	0.9	22.5	20/04/2022	7:00	0.9	90
17/04/2022	8:00	1.3	45	18/04/2022	8:00	1.8	90	19/04/2022	8:00	0.9	292.5	20/04/2022	8:00	0.9	112.5
17/04/2022	9:00	1.3	45	18/04/2022	9:00	1.3	112.5	19/04/2022	9:00	0.4	315	20/04/2022	9:00	0.9	225
17/04/2022	10:00	0.4	45	18/04/2022	10:00	0.4	135	19/04/2022	10:00	0.4	225	20/04/2022	10:00	1.8	112.5
17/04/2022	11:00	0.4	67.5	18/04/2022	11:00	0.9	90	19/04/2022	11:00	0.9	202.5	20/04/2022	11:00	1.3	45
17/04/2022	12:00	0.4	45	18/04/2022	12:00	0.9	112.5	19/04/2022	12:00	0.4	135	20/04/2022	12:00	1.3	112.5
17/04/2022	13:00	0.4	90	18/04/2022	13:00	0.9	135	19/04/2022	13:00	0.4	112.5	20/04/2022	13:00	1.3	135
17/04/2022	14:00	1.3	135	18/04/2022	14:00	1.3	112.5	19/04/2022	14:00	0.4	112.5	20/04/2022	14:00	0.9	112.5
17/04/2022	15:00	1.8	292.5	18/04/2022	15:00	0.9	90	19/04/2022	15:00	0.4	135	20/04/2022	15:00	0.9	135
17/04/2022	16:00	1.8	67.5	18/04/2022	16:00	0.9	135	19/04/2022	16:00	1.3	112.5	20/04/2022	16:00	1.3	112.5
17/04/2022	17:00	2.2	67.5	18/04/2022	17:00	0.9	112.5	19/04/2022	17:00	0.4	112.5	20/04/2022	17:00	0.4	135
17/04/2022	18:00	1.8	67.5	18/04/2022	18:00	1.3	112.5	19/04/2022	18:00	1.8	112.5	20/04/2022	18:00	0.4	135
17/04/2022	19:00	1.3	112.5	18/04/2022	19:00	2.2	112.5	19/04/2022	19:00	1.3	0	20/04/2022	19:00	1.3	135
17/04/2022	20:00	1.8	67.5	18/04/2022	20:00	2.2	90	19/04/2022	20:00	0.9	112.5	20/04/2022	20:00	0.9	135
17/04/2022	21:00	1.3	112.5	18/04/2022	21:00	1.8	90	19/04/2022	21:00	1.3	0	20/04/2022	21:00	0.9	247.5
17/04/2022	22:00	0.9	112.5	18/04/2022	22:00	2.2	112.5	19/04/2022	22:00	0.9	90	20/04/2022	22:00	1.3	247.5
17/04/2022	23:00	1.8	90	18/04/2022	23:00	1.3	112.5	19/04/2022	23:00	1.8	45	20/04/2022	23:00	1.3	247.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
21/04/2022	0:00	0.9	112.5	22/04/2022	0:00	0.4	225	23/04/2022	0:00	0.9	112.5	24/04/2022	0:00	0.4	112.5
21/04/2022	1:00	1.3	90	22/04/2022	1:00	0.4	292.5	23/04/2022	1:00	1.3	112.5	24/04/2022	1:00	0.4	90
21/04/2022	2:00	1.8	112.5	22/04/2022	2:00	0.4	225	23/04/2022	2:00	1.3	112.5	24/04/2022	2:00	0.4	67.5
21/04/2022	3:00	1.3	112.5	22/04/2022	3:00	0.4	67.5	23/04/2022	3:00	1.8	112.5	24/04/2022	3:00	0.4	90
21/04/2022	4:00	1.8	112.5	22/04/2022	4:00	0.4	135	23/04/2022	4:00	1.3	90	24/04/2022	4:00	0.4	135
21/04/2022	5:00	1.3	90	22/04/2022	5:00	1.3	112.5	23/04/2022	5:00	1.3	90	24/04/2022	5:00	0.9	112.5
21/04/2022	6:00	1.3	90	22/04/2022	6:00	0.4	202.5	23/04/2022	6:00	0.9	112.5	24/04/2022	6:00	0.9	135
21/04/2022	7:00	0.9	112.5	22/04/2022	7:00	0.9	67.5	23/04/2022	7:00	1.3	90	24/04/2022	7:00	0.9	112.5
21/04/2022	8:00	1.8	112.5	22/04/2022	8:00	0.9	247.5	23/04/2022	8:00	1.3	112.5	24/04/2022	8:00	0.9	90
21/04/2022	9:00	1.8	67.5	22/04/2022	9:00	1.8	202.5	23/04/2022	9:00	0.9	112.5	24/04/2022	9:00	0.9	112.5
21/04/2022	10:00	1.3	112.5	22/04/2022	10:00	0.4	225	23/04/2022	10:00	1.3	112.5	24/04/2022	10:00	0.9	90
21/04/2022	11:00	1.8	67.5	22/04/2022	11:00	0.4	292.5	23/04/2022	11:00	1.8	112.5	24/04/2022	11:00	0.9	112.5
21/04/2022	12:00	0.9	112.5	22/04/2022	12:00	0.9	67.5	23/04/2022	12:00	1.3	112.5	24/04/2022	12:00	0.4	112.5
21/04/2022	13:00	0.9	112.5	22/04/2022	13:00	0.9	112.5	23/04/2022	13:00	1.3	112.5	24/04/2022	13:00	1.3	45
21/04/2022	14:00	1.3	90	22/04/2022	14:00	0.9	112.5	23/04/2022	14:00	1.3	135	24/04/2022	14:00	0.4	45
21/04/2022	15:00	1.3	112.5	22/04/2022	15:00	0.4	90	23/04/2022	15:00	0.9	135	24/04/2022	15:00	0.9	67.5
21/04/2022	16:00	1.3	112.5	22/04/2022	16:00	0.9	90	23/04/2022	16:00	1.3	90	24/04/2022	16:00	0.9	112.5
21/04/2022	17:00	0.9	112.5	22/04/2022	17:00	0.9	112.5	23/04/2022	17:00	1.3	90	24/04/2022	17:00	1.3	90
21/04/2022	18:00	1.3	112.5	22/04/2022	18:00	0.9	225	23/04/2022	18:00	0.4	22.5	24/04/2022	18:00	0.9	22.5
21/04/2022	19:00	1.8	112.5	22/04/2022	19:00	1.8	112.5	23/04/2022	19:00	0.9	90	24/04/2022	19:00	0.4	67.5
21/04/2022	20:00	1.8	135	22/04/2022	20:00	1.3	45	23/04/2022	20:00	1.3	157.5	24/04/2022	20:00	0.4	67.5
21/04/2022	21:00	1.8	90	22/04/2022	21:00	1.3	112.5	23/04/2022	21:00	1.8	112.5	24/04/2022	21:00	0.9	90
21/04/2022	22:00	0.9	112.5	22/04/2022	22:00	1.3	135	23/04/2022	22:00	1.3	112.5	24/04/2022	22:00	0.9	202.5
21/04/2022	23:00	1.3	135	22/04/2022	23:00	0.9	67.5	23/04/2022	23:00	1.8	157.5	24/04/2022	23:00	0.4	225

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
25/04/2022	0:00	1.3	90	26/04/2022	0:00	0.4	135	27/04/2022	0:00	0.9	225	28/04/2022	0:00	1.8	90
25/04/2022	1:00	0.9	22.5	26/04/2022	1:00	0.9	247.5	27/04/2022	1:00	0.9	225	28/04/2022	1:00	1.3	112.5
25/04/2022	2:00	0.9	67.5	26/04/2022	2:00	0.9	202.5	27/04/2022	2:00	0.9	112.5	28/04/2022	2:00	1.8	225
25/04/2022	3:00	0.4	112.5	26/04/2022	3:00	0.9	45	27/04/2022	3:00	0.9	112.5	28/04/2022	3:00	1.3	135
25/04/2022	4:00	0.9	45	26/04/2022	4:00	0.4	90	27/04/2022	4:00	0.4	112.5	28/04/2022	4:00	1.8	90
25/04/2022	5:00	0.9	112.5	26/04/2022	5:00	0.4	112.5	27/04/2022	5:00	0.4	112.5	28/04/2022	5:00	1.3	270
25/04/2022	6:00	0.4	292.5	26/04/2022	6:00	0.9	112.5	27/04/2022	6:00	0.9	135	28/04/2022	6:00	1.3	90
25/04/2022	7:00	0.9	112.5	26/04/2022	7:00	0.9	112.5	27/04/2022	7:00	0.4	135	28/04/2022	7:00	1.3	45
25/04/2022	8:00	1.3	90	26/04/2022	8:00	0.9	112.5	27/04/2022	8:00	0.4	247.5	28/04/2022	8:00	1.3	45
25/04/2022	9:00	1.8	90	26/04/2022	9:00	0.9	157.5	27/04/2022	9:00	0.9	315	28/04/2022	9:00	1.8	45
25/04/2022	10:00	1.8	45	26/04/2022	10:00	0.9	157.5	27/04/2022	10:00	0	22.5	28/04/2022	10:00	1.8	45
25/04/2022	11:00	2.2	67.5	26/04/2022	11:00	0.9	180	27/04/2022	11:00	1.3	112.5	28/04/2022	11:00	1.8	90
25/04/2022	12:00	2.2	90	26/04/2022	12:00	0.4	180	27/04/2022	12:00	0.9	225	28/04/2022	12:00	1.3	112.5
25/04/2022	13:00	1.3	90	26/04/2022	13:00	0.4	135	27/04/2022	13:00	0.9	112.5	28/04/2022	13:00	1.8	225
25/04/2022	14:00	1.8	225	26/04/2022	14:00	0.9	247.5	27/04/2022	14:00	1.8	337.5	28/04/2022	14:00	1.8	67.5
25/04/2022	15:00	1.3	135	26/04/2022	15:00	0.4	135	27/04/2022	15:00	1.8	45	28/04/2022	15:00	0.9	45
25/04/2022	16:00	1.8	90	26/04/2022	16:00	0.9	247.5	27/04/2022	16:00	1.8	45	28/04/2022	16:00	0.9	45
25/04/2022	17:00	1.3	270	26/04/2022	17:00	0.9	202.5	27/04/2022	17:00	1.8	45	28/04/2022	17:00	1.8	90
25/04/2022	18:00	1.3	90	26/04/2022	18:00	0.9	45	27/04/2022	18:00	2.2	67.5	28/04/2022	18:00	1.8	67.5
25/04/2022	19:00	1.3	45	26/04/2022	19:00	0.4	90	27/04/2022	19:00	0.9	270	28/04/2022	19:00	1.3	67.5
25/04/2022	20:00	1.3	45	26/04/2022	20:00	0.4	112.5	27/04/2022	20:00	0.9	45	28/04/2022	20:00	1.3	90
25/04/2022	21:00	1.8	45	26/04/2022	21:00	0.9	112.5	27/04/2022	21:00	0.9	90	28/04/2022	21:00	0.9	67.5
25/04/2022	22:00	1.8	45	26/04/2022	22:00	0.9	112.5	27/04/2022	22:00	1.3	67.5	28/04/2022	22:00	0.9	67.5
25/04/2022	23:00	1.3	270	26/04/2022	23:00	0.9	112.5	27/04/2022	23:00	0.9	45	28/04/2022	23:00	1.8	67.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

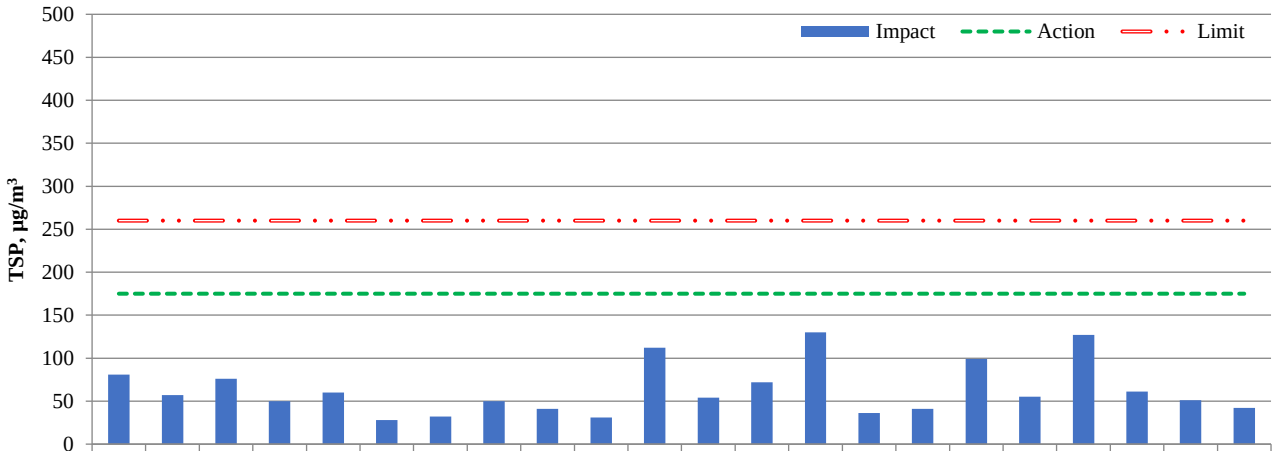
Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/04/2022	0:00	0.9	112.5	30/04/2022	0:00	0.4	112.5								
29/04/2022	1:00	0.9	112.5	30/04/2022	1:00	0.4	112.5								
29/04/2022	2:00	1.3	67.5	30/04/2022	2:00	1.3	112.5								
29/04/2022	3:00	0.9	45	30/04/2022	3:00	1.3	112.5								
29/04/2022	4:00	0.9	90	30/04/2022	4:00	2.2	90								
29/04/2022	5:00	1.3	90	30/04/2022	5:00	1.3	90								
29/04/2022	6:00	0.4	90	30/04/2022	6:00	1.3	90								
29/04/2022	7:00	0	112.5	30/04/2022	7:00	1.3	90								
29/04/2022	8:00	0.9	112.5	30/04/2022	8:00	1.3	112.5								
29/04/2022	9:00	0.4	67.5	30/04/2022	9:00	0.9	112.5								
29/04/2022	10:00	0.4	22.5	30/04/2022	10:00	0.4	225								
29/04/2022	11:00	1.3	337.5	30/04/2022	11:00	1.3	67.5								
29/04/2022	12:00	0.9	112.5	30/04/2022	12:00	0.9	225								
29/04/2022	13:00	0.9	112.5	30/04/2022	13:00	0.9	112.4								
29/04/2022	14:00	1.8	112.5	30/04/2022	14:00	1.3	112.5								
29/04/2022	15:00	1.3	90	30/04/2022	15:00	0.4	90								
29/04/2022	16:00	0.9	112.5	30/04/2022	16:00	0.9	45								
29/04/2022	17:00	0.9	112.5	30/04/2022	17:00	0.9	90								
29/04/2022	18:00	1.3	90	30/04/2022	18:00	0.9	90								
29/04/2022	19:00	0.9	112.5	30/04/2022	19:00	1.8	45								
29/04/2022	20:00	1.3	112.5	30/04/2022	20:00	1.3	0								
29/04/2022	21:00	0.9	112.5	30/04/2022	21:00	0.9	112.5								
29/04/2022	22:00	1.3	135	30/04/2022	22:00	0.9	90								
29/04/2022	23:00	1.3	67.5	30/04/2022	23:00	0.4	90								

Appendix D – Monitoring data and graphical plots

24-hour average TSP

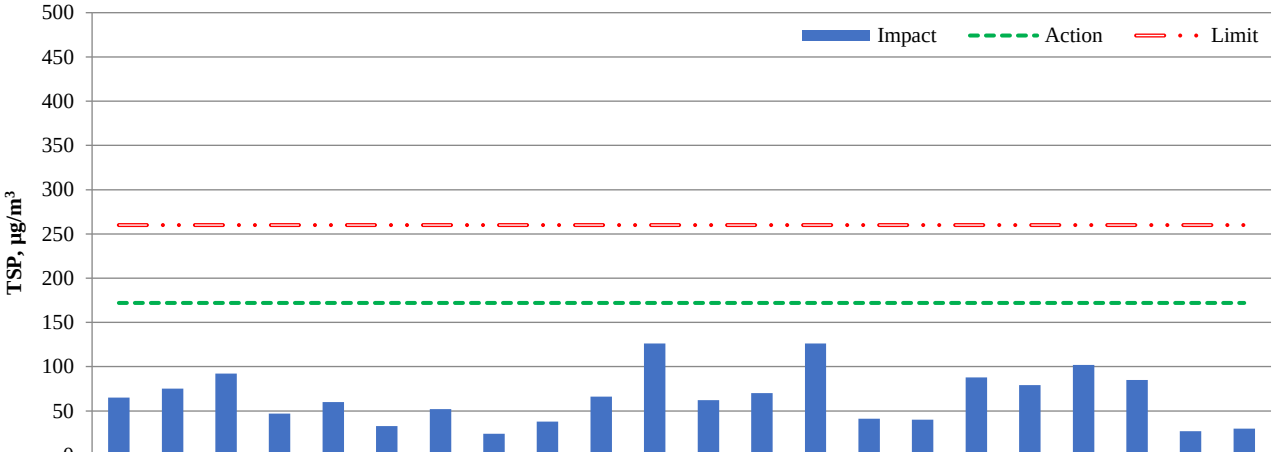
Air Monitoring Station		AM2(A) – Ng Wah Catholic Secondary School	AM3 – Sky Tower
Start Date	Weather	24-hr Average TSP Concentration, $\mu g/m^3$	24-hr Average TSP Concentration, $\mu g/m^3$
05/02/2022	Sunny	32	52
11/02/2022	Sunny	50	24
17/02/2022	Cloudy	41	38
23/02/2022	Sunny	31	66
01/03/2022	Sunny	112	126
07/03/2022	Sunny	54	62
12/03/2022	Sunny	72	70
18/03/2022	Sunny	130	126
24/03/2022	Cloudy	36	41
30/03/2022	Sunny	41	40
04/04/2022	Sunny	99	88
09/04/2022	Sunny	55	79
14/04/2022	Sunny	127	102
20/04/2022	Sunny	61	85
25/04/2022	Sunny	51	27
30/04/2022	Sunny	42	30

24-Hour Total Suspended Particulate Results - AM2(A) Ng Wah Catholic Secondary School



	05/01/22, Sunny	11/01/22, Sunny	17/01/22, Cloudy	22/01/22, Sunny	26/01/22, Sunny	31/01/22, Sunny	05/02/22, Sunny	11/02/22, Sunny	17/02/22, Cloudy	23/02/22, Sunny	01/03/22, Sunny	07/03/22, Sunny	12/03/22, Sunny	18/03/22, Sunny	24/03/22, Cloudy	30/03/22, Sunny	04/04/22, Sunny	09/04/22, Sunny	14/04/22, Sunny	20/04/22, Sunny	25/04/22, Sunny	30/04/22, Sunny
Impact	81	57	76	50	60	28	32	50	41	31	112	54	72	130	36	41	99	55	127	61	51	42
Action	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
Limit	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260

24-Hour Total Suspended Particulate Results - AM3 Sky Tower



	05/01/22, Sunny	11/01/22, Sunny	17/01/22, Cloudy	22/01/22, Sunny	26/01/22, Sunny	31/01/22, Sunny	05/02/22, Sunny	11/02/22, Sunny	17/02/22, Cloudy	23/02/22, Sunny	01/03/22, Sunny	07/03/22, Sunny	12/03/22, Sunny	18/03/22, Sunny	24/03/22, Cloudy	30/03/22, Sunny	04/04/22, Sunny	09/04/22, Sunny	14/04/22, Sunny	20/04/22, Sunny	25/04/22, Sunny	30/04/22, Sunny
Impact	65	75	92	47	60	33	52	24	38	66	126	62	70	126	41	40	88	79	102	85	27	30
Action	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172	172
Limit	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260

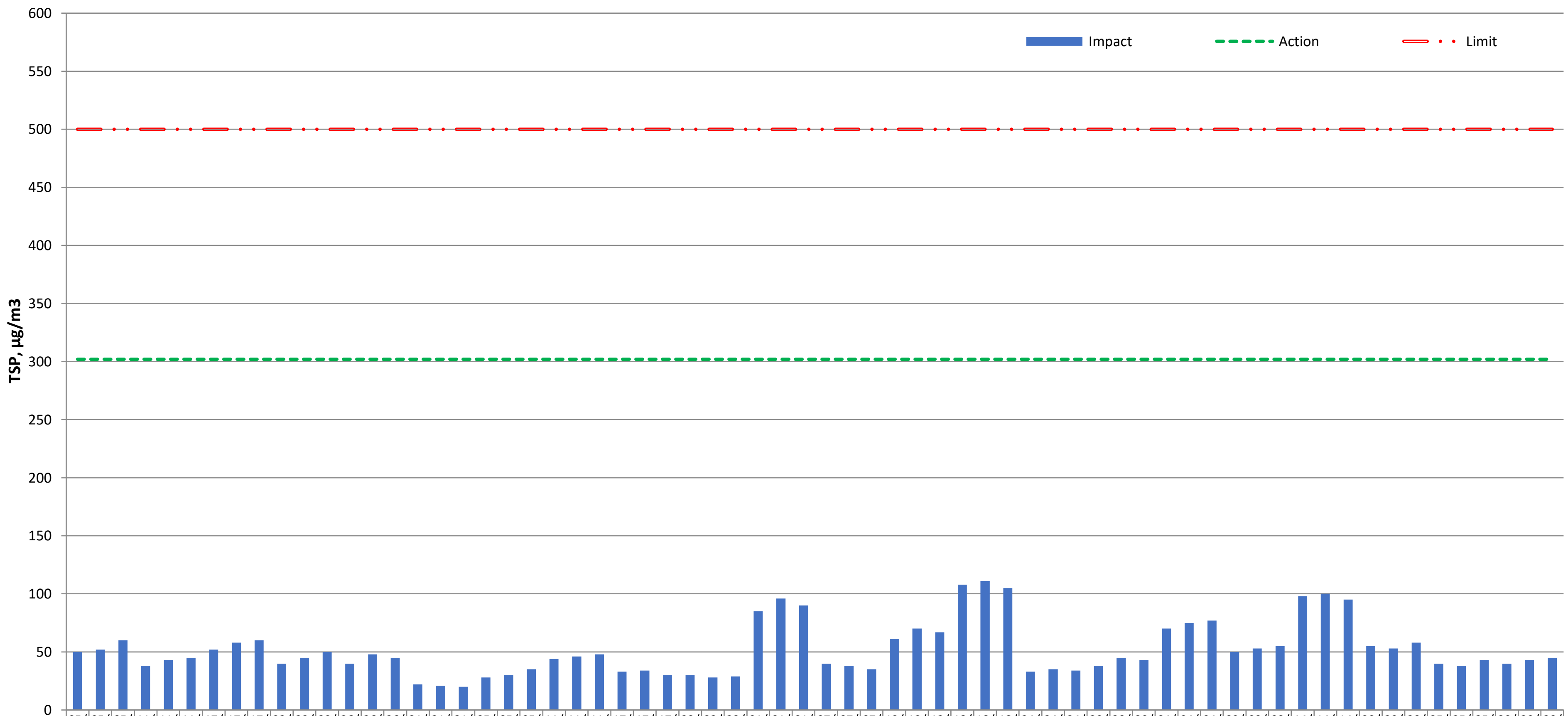
Major Construction Activities	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Bored pile works for landscape elevated walkway	✓	✓		
Instrumentation installation at SB-01	✓			
Pre-drilling work for S14	✓			
Removal existing piles at Road D1	✓			
Rising main construction	✓			
Trial pit excavation	✓			
Advance works for traffic diversion at Sa Po Road	✓			
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓			
Construction of Crowd Dispersal Route	✓	✓	✓	✓
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓		
ELS and excavation at Pier 9 for Elevated Walkway LW-02				✓
Underground utility diversion works at Sa Po Road		✓	✓	✓
ELS and excavation at launching shaft for subway SB-01		✓	✓	✓
Drainage works for Pedestrian Street No.1, No,2 No.3 & No.4		✓		
Construction of DCS		✓	✓	✓
Construction works for Road L16		✓	✓	✓
Pre-bored socket H-piles construction for Subway KS10		✓	✓	
Twin rising mains diversion works		✓		
Renovation works for existing subways KS9 and KS32		✓	✓	✓
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓	
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓	
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	✓
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			✓	✓
Post-pilling tests for H-piles at Subway KS10			✓	✓
Erection of temporary decking across existing Kai Tak River				✓
ELS and excavation for Subway KS10 Lift and Staircase				✓
Demolition works to existing subway KS10 staircase and ramp				✓

Factors might affect the monitoring results	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

1-hour average TSP

Air Monitoring Station				AM2(A) – Ng Wah Catholic Secondary School	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, μg/m^3
05/02/2022	13:00	-	14:00	Sunny	28
05/02/2022	14:00	-	15:00		30
05/02/2022	15:00	-	16:00		35
11/02/2022	9:00	-	10:00	Sunny	44
11/02/2022	10:00	-	11:00		46
11/02/2022	11:00	-	12:00		48
17/02/2022	9:00	-	10:00	Cloudy	33
17/02/2022	10:00	-	11:00		34
17/02/2022	11:00	-	12:00		30
23/02/2022	13:00	-	14:00	Sunny	30
23/02/2022	14:00	-	15:00		28
23/02/2022	15:00	-	16:00		29
01/03/2022	13:00	-	14:00	Sunny	85
01/03/2022	14:00	-	15:00		96
01/03/2022	15:00	-	16:00		90
07/03/2022	13:00	-	14:00	Sunny	40
07/03/2022	14:00	-	15:00		38
07/03/2022	15:00	-	16:00		35
12/03/2022	9:00	-	10:00	Sunny	61
12/03/2022	10:00	-	11:00		70
12/03/2022	11:00	-	12:00		67
18/03/2022	13:00	-	14:00	Sunny	108
18/03/2022	14:00	-	15:00		111
18/03/2022	15:00	-	16:00		105
24/03/2022	9:00	-	10:00	Cloudy	33
24/03/2022	10:00	-	11:00		35
24/03/2022	11:00	-	12:00		34
30/03/2022	9:00	-	10:00	Sunny	38
30/03/2022	10:00	-	11:00		45
30/03/2022	11:00	-	12:00		43
04/04/2022	13:00	-	14:00	Sunny	70
04/04/2022	14:00	-	15:00		75
04/04/2022	15:00	-	16:00		77
09/04/2022	9:00	-	10:00	Sunny	50
09/04/2022	10:00	-	11:00		53
09/04/2022	11:00	-	12:00		55
14/04/2022	13:00	-	14:00	Sunny	98
14/04/2022	14:00	-	15:00		100
14/04/2022	15:00	-	16:00		95
20/04/2022	9:00	-	10:00	Sunny	55
20/04/2022	10:00	-	11:00		53
20/04/2022	11:00	-	12:00		58
25/04/2022	9:00	-	10:00	Sunny	40
25/04/2022	10:00	-	11:00		38
25/04/2022	11:00	-	12:00		43
30/04/2022	13:00	-	14:00	Sunny	40
30/04/2022	14:00	-	15:00		43
30/04/2022	15:00	-	16:00		45

1-Hour Total Suspended Particulate Results - AM2(A) Ng Wah Catholic Secondary School



	05/01/22,Sunny	05/01/22,Sunny	05/01/22,Sunny	11/01/22,Sunny	11/01/22,Sunny	11/01/22,Sunny	17/01/22,Cloudy	17/01/22,Cloudy	17/01/22,Cloudy	22/01/22,Sunny	22/01/22,Sunny
Impact	50	52	60	38	43	45	52	58	60	40	45
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	22/01/22,Sunny	26/01/22,Sunny	26/01/22,Sunny	26/01/22,Sunny	31/01/22,Sunny	31/01/22,Sunny	31/01/22,Sunny	05/02/22,Sunny	05/02/22,Sunny	05/02/22,Sunny	11/02/22,Sunny
Impact	50	40	48	45	22	21	20	28	30	35	44
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	11/02/22,Sunny	11/02/22,Sunny	17/02/22,Cloudy	17/02/22,Cloudy	17/02/22,Cloudy	23/02/22,Sunny	23/02/22,Sunny	23/02/22,Sunny	01/03/22,Sunny	01/03/22,Sunny	01/03/22,Sunny
Impact	46	48	33	34	30	30	28	29	85	96	90
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

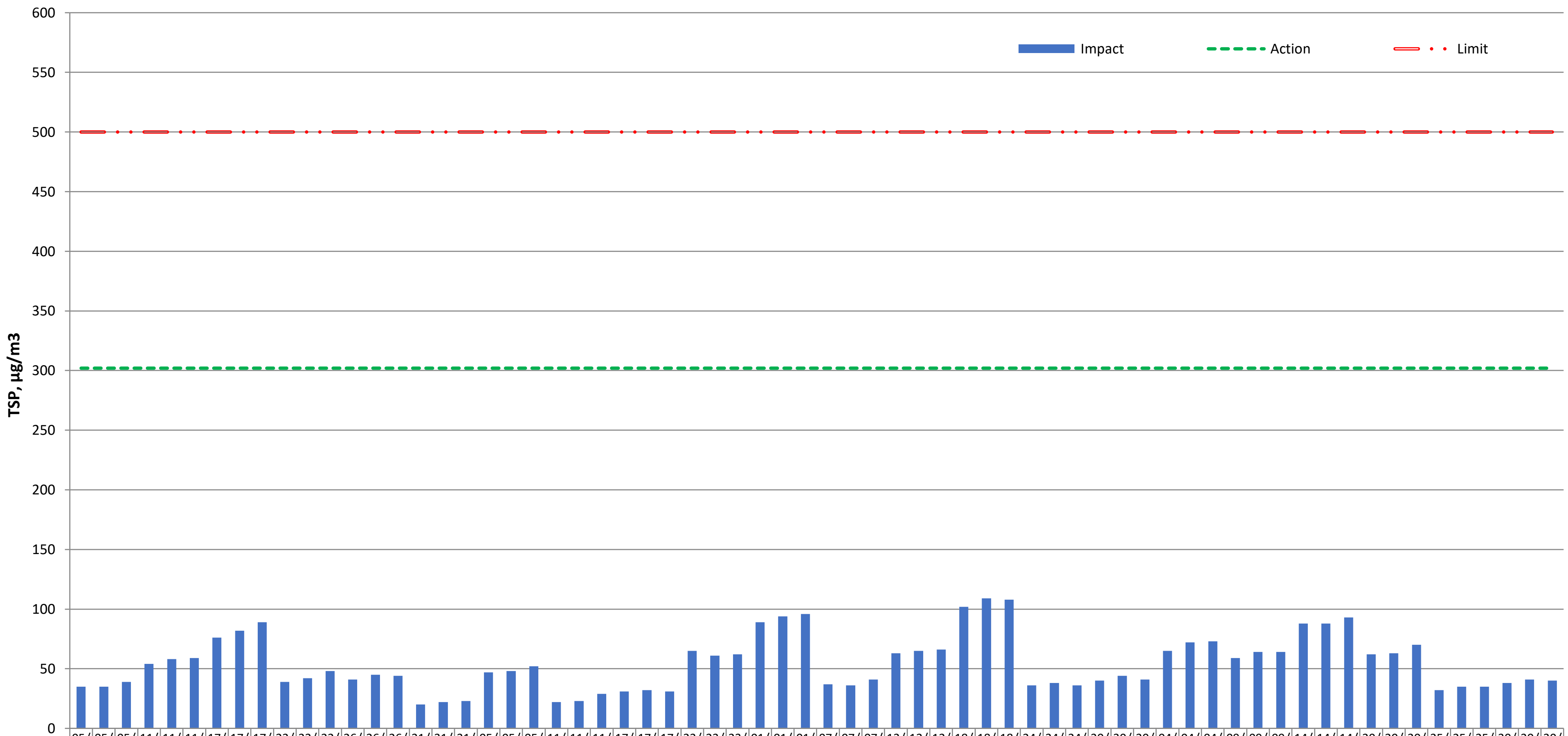
	07/03/22,Sunny	07/03/22,Sunny	07/03/22,Sunny	12/03/22,Sunny	12/03/22,Sunny	12/03/22,Sunny	18/03/22,Sunny	18/03/22,Sunny	18/03/22,Sunny	24/03/22,Cloudy	24/03/22,Cloudy
Impact	40	38	35	61	70	67	108	111	105	33	35
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	24/03/22,Cloudy	30/03/22,Sunny	30/03/22,Sunny	30/03/22,Sunny	04/04/22,Sunny	04/04/22,Sunny	04/04/22,Sunny	09/04/22,Sunny	09/04/22,Sunny	09/04/22,Sunny	14/04/22,Sunny
Impact	34	38	45	43	70	75	77	50	53	55	98
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	14/04/22,Sunny	14/04/22,Sunny	20/04/22,Sunny	20/04/22,Sunny	20/04/22,Sunny	25/04/22,Sunny	25/04/22,Sunny	25/04/22,Sunny	30/04/22,Sunny	30/04/22,Sunny	30/04/22,Sunny
Impact	100	95	55	53	58	40	38	43	40	43	45
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

Air Monitoring Station				AM3 – Sky Tower	
Date	Measurement Period			Weather	1-hr Average TSP Concentration, μg/m^3
05/02/2022	9:00	-	10:00	Sunny	47
05/02/2022	10:00	-	11:00		48
05/02/2022	11:00	-	12:00		52
11/02/2022	13:00	-	14:00	Sunny	22
11/02/2022	14:00	-	15:00		23
11/02/2022	15:00	-	16:00		29
17/02/2022	14:00	-	15:00	Cloudy	31
17/02/2022	15:00	-	16:00		32
17/02/2022	16:00	-	17:00		31
23/02/2022	9:00	-	10:00	Sunny	65
23/02/2022	10:00	-	11:00		61
23/02/2022	11:00	-	12:00		62
01/03/2022	13:00	-	14:00	Sunny	89
01/03/2022	14:00	-	15:00		94
01/03/2022	15:00	-	16:00		96
07/03/2022	9:00	-	10:00	Sunny	37
07/03/2022	10:00	-	11:00		36
07/03/2022	11:00	-	12:00		41
12/03/2022	13:00	-	14:00	Sunny	63
12/03/2022	14:00	-	15:00		65
12/03/2022	15:00	-	16:00		66
18/03/2022	9:00	-	10:00	Sunny	102
18/03/2022	10:00	-	11:00		109
18/03/2022	11:00	-	12:00		108
24/03/2022	9:00	-	10:00	Cloudy	36
24/03/2022	10:00	-	11:00		38
24/03/2022	11:00	-	12:00		36
30/03/2022	13:00	-	14:00	Sunny	40
30/03/2022	14:00	-	15:00		44
30/03/2022	15:00	-	16:00		41
04/04/2022	9:00	-	10:00	Sunny	65
04/04/2022	10:00	-	11:00		72
04/04/2022	11:00	-	12:00		73
09/04/2022	13:00	-	14:00	Sunny	59
09/04/2022	14:00	-	15:00		64
09/04/2022	15:00	-	16:00		64
14/04/2022	9:00	-	10:00	Sunny	88
14/04/2022	10:00	-	11:00		88
14/04/2022	11:00	-	12:00		93
20/04/2022	9:00	-	10:00	Sunny	62
20/04/2022	10:00	-	11:00		63
20/04/2022	11:00	-	12:00		70
25/04/2022	13:00	-	14:00	Sunny	32
25/04/2022	14:00	-	15:00		35
25/04/2022	15:00	-	16:00		35
30/04/2022	13:00	-	14:00	Sunny	38
30/04/2022	14:00	-	15:00		41
30/04/2022	15:00	-	16:00		40

1-Hour Total Suspended Particulate Results - AM3 Sky Tower



	05/01/22, Sunny	05/01/22, Sunny	05/01/22, Sunny	11/01/22, Sunny	11/01/22, Sunny	11/01/22, Sunny	17/01/22, Cloudy	17/01/22, Cloudy	17/01/22, Cloudy	22/01/22, Sunny	22/01/22, Sunny
Impact	35	35	39	54	58	59	76	82	89	39	42
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	22/01/22, Sunny	26/01/22, Sunny	26/01/22, Sunny	26/01/22, Sunny	31/01/22, Sunny	31/01/22, Sunny	31/01/22, Sunny	05/02/22, Sunny	05/02/22, Sunny	05/02/22, Sunny	11/02/22, Sunny
Impact	48	41	45	44	20	22	23	47	48	52	22
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	11/02/22, Sunny	11/02/22, Sunny	17/02/22, Cloudy	17/02/22, Cloudy	17/02/22, Cloudy	23/02/22, Sunny	23/02/22, Sunny	23/02/22, Sunny	01/03/22, Sunny	01/03/22, Sunny	01/03/22, Sunny
Impact	23	29	31	32	31	65	61	62	89	94	96
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	07/03/22, Sunny	07/03/22, Sunny	07/03/22, Sunny	12/03/22, Sunny	12/03/22, Sunny	12/03/22, Sunny	18/03/22, Sunny	18/03/22, Sunny	18/03/22, Sunny	24/03/22, Cloudy	24/03/22, Cloudy
Impact	37	36	41	63	65	66	102	109	108	36	38
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

	24/03/22, Cloudy	30/03/22, Sunny	30/03/22, Sunny	30/03/22, Sunny	04/04/22, Sunny	04/04/22, Sunny	04/04/22, Sunny	09/04/22, Sunny	09/04/22, Sunny	09/04/22, Sunny	14/04/22, Sunny
Impact	36	40	44	41	65	72	73	59	64	64	88
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

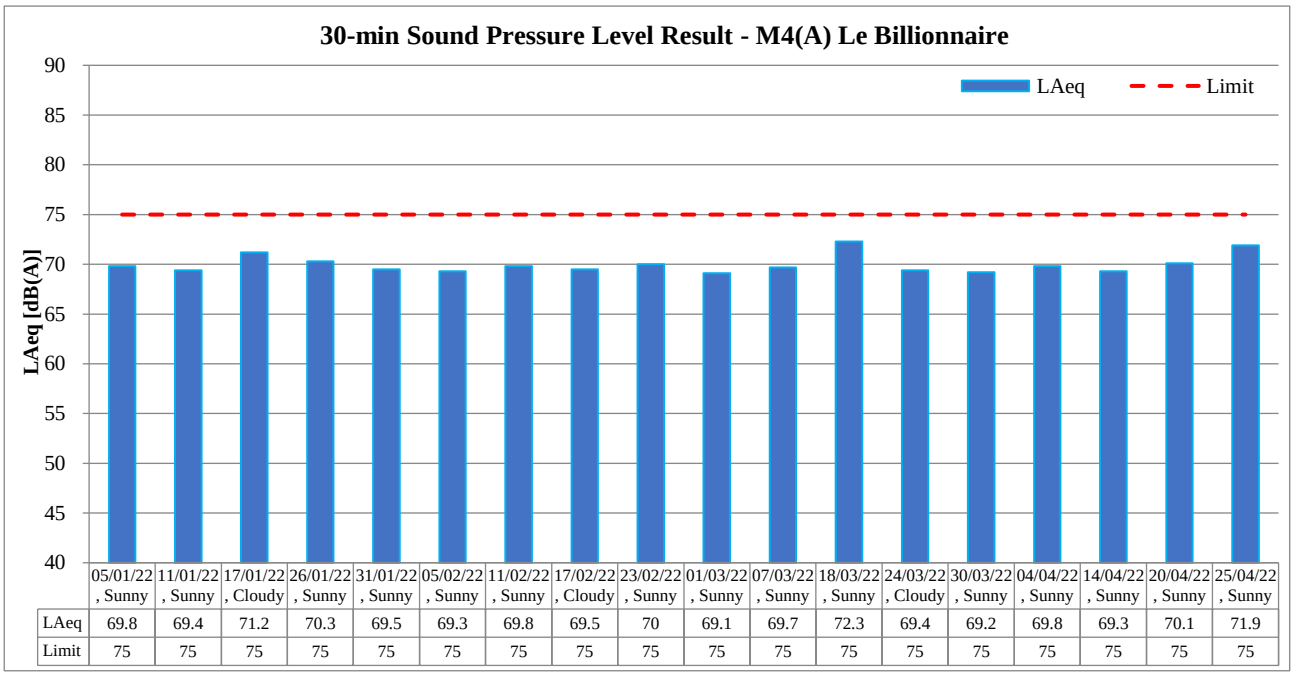
	14/04/22, Sunny	14/04/22, Sunny	20/04/22, Sunny	20/04/22, Sunny	20/04/22, Sunny	25/04/22, Sunny	25/04/22, Sunny	25/04/22, Sunny	30/04/22, Sunny	30/04/22, Sunny	30/04/22, Sunny
Impact	88	93	62	63	70	32	35	35	38	41	40
Action	302	302	302	302	302	302	302	302	302	302	302
Limit	500	500	500	500	500	500	500	500	500	500	500

Major Construction Activities	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Bored pile works for landscape elevated walkway	✓	✓		
Instrumentation installation at SB-01	✓			
Pre-drilling work for S14	✓			
Removal existing piles at Road D1	✓			
Rising main construction	✓			
Trial pit excavation	✓			
Advance works for traffic diversion at Sa Po Road	✓			
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓			
Construction of Crowd Dispersal Route	✓	✓	✓	✓
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓		
ELS and excavation at Pier 9 for Elevated Walkway LW-02				✓
Underground utility diversion works at Sa Po Road		✓	✓	✓
ELS and excavation at launching shaft for subway SB-01		✓	✓	✓
Drainage works for Pedestrian Street No.1, No,2 No.3 & No.4		✓		
Construction of DCS		✓	✓	✓
Construction works for Road L16		✓	✓	✓
Pre-bored socket H-piles construction for Subway KS10		✓	✓	
Twin rising mains diversion works		✓		
Renovation works for existing subways KS9 and KS32		✓	✓	✓
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓	
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓	
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	✓
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			✓	✓
Post-pilling tests for H-piles at Subway KS10			✓	✓
Erection of temporary decking across existing Kai Tak River				✓
ELS and excavation for Subway KS10 Lift and Staircase				✓
Demolition works to existing subway KS10 staircase and ramp				✓

Factors might affect the monitoring results	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

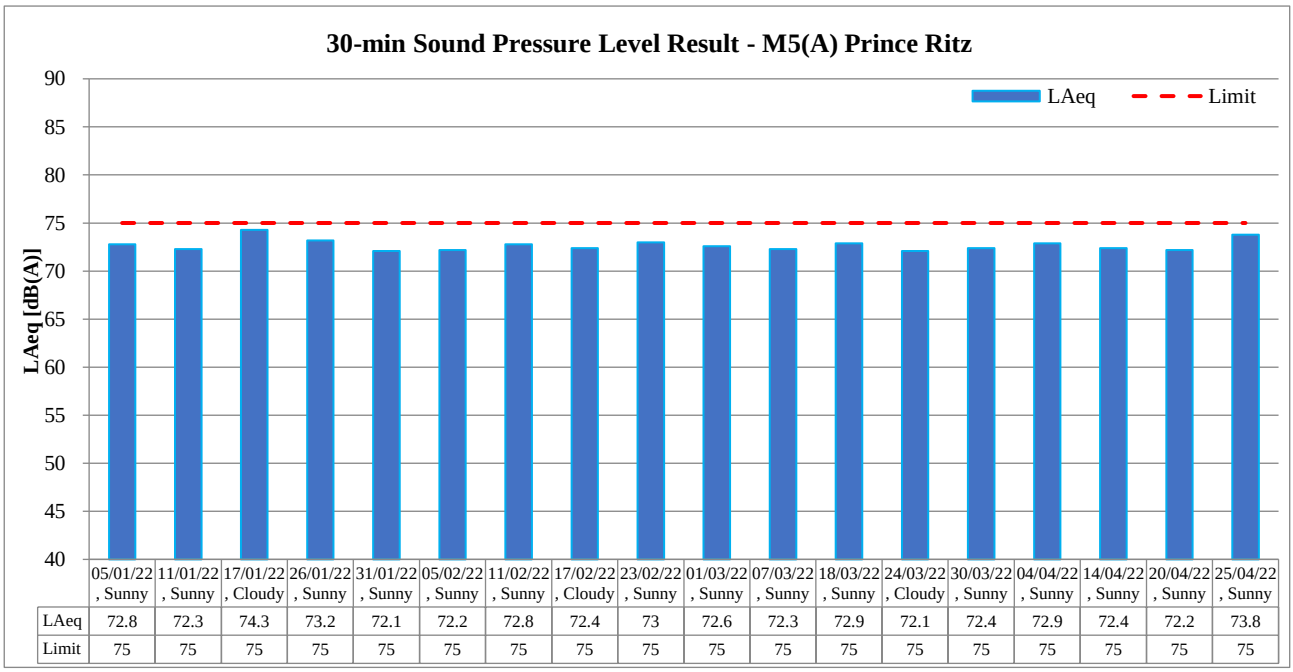
30-minute Noise

Noise Monitoring Station				M4(A) – Le Billionnaire			
Date	Measurement Period			Weather	L_{Aeq}, dB(A)	L_{A10}, dB(A)	L_{A90}, dB(A)
05/02/2022	9:30	-	10:00	Sunny	69.3	70.3	67.9
11/02/2022	13:05	-	13:35	Sunny	69.8	70.8	68.5
17/02/2022	13:25	-	13:55	Cloudy	69.5	70.5	68.3
23/02/2022	9:27	-	9:57	Sunny	70.0	71.1	68.7
01/03/2022	9:25	-	9:55	Sunny	69.1	70.5	67.3
07/03/2022	9:15	-	9:45	Sunny	69.7	71.2	68.4
18/03/2022	9:17	-	9:47	Sunny	72.3	74.1	69.4
24/03/2022	13:08	-	13:38	Cloudy	69.4	70.9	67.7
30/03/2022	13:05	-	13:35	Sunny	69.2	70.7	67.5
04/04/2022	13:15	-	13:45	Sunny	69.8	71.4	68.2
14/04/2022	9:05	-	9:35	Sunny	69.3	71.0	67.5
20/04/2022	9:15	-	9:45	Sunny	70.1	72.2	68.6
25/04/2022	15:26	-	15:56	Sunny	71.9	74.7	68.7



	05/01/22, Sunny	11/01/22, Sunny	17/01/22, Cloudy	26/01/22, Sunny	31/01/22, Sunny	05/02/22, Sunny	11/02/22, Sunny	17/02/22, Cloudy	23/02/22, Sunny	01/03/22, Sunny	07/03/22, Sunny	18/03/22, Sunny	24/03/22, Cloudy	30/03/22, Sunny	04/04/22, Sunny	14/04/22, Sunny	20/04/22, Sunny	25/04/22, Sunny
LAeq	69.8	69.4	71.2	70.3	69.5	69.3	69.8	69.5	70	69.1	69.7	72.3	69.4	69.2	69.8	69.3	70.1	71.9
Limit	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75

Noise Monitoring Station				M5(A) – Prince Ritz			
Date	Measurement Period			Weather	L_{Aeq}, dB(A)	L_{A10}, dB(A)	L_{A90}, dB(A)
05/02/2022	10:25	-	10:55	Sunny	72.2	73.5	69.5
11/02/2022	14:00	-	14:30	Sunny	72.8	74.1	70.5
17/02/2022	14:25	-	14:55	Cloudy	72.4	73.8	69.7
23/02/2022	11:02	-	11:32	Sunny	73.0	74.7	70.8
01/03/2022	10:30	-	11:00	Sunny	72.6	73.9	70.1
07/03/2022	10:25	-	10:55	Sunny	72.3	73.3	69.7
18/03/2022	10:46	-	11:16	Sunny	72.9	74.6	70.6
24/03/2022	14:15	-	14:45	Cloudy	72.1	73.1	69.3
30/03/2022	14:10	-	14:40	Sunny	72.4	73.7	69.6
04/04/2022	14:30	-	15:00	Sunny	72.9	74.3	70.2
14/04/2022	10:20	-	10:50	Sunny	72.4	73.9	69.6
20/04/2022	10:25	-	10:55	Sunny	72.2	73.6	69.4
25/04/2022	14:17	-	14:47	Sunny	73.8	75.3	71.9



	05/01/22, Sunny	11/01/22, Sunny	17/01/22, Cloudy	26/01/22, Sunny	31/01/22, Sunny	05/02/22, Sunny	11/02/22, Sunny	17/02/22, Cloudy	23/02/22, Sunny	01/03/22, Sunny	07/03/22, Sunny	18/03/22, Sunny	24/03/22, Cloudy	30/03/22, Sunny	04/04/22, Sunny	14/04/22, Sunny	20/04/22, Sunny	25/04/22, Sunny
LAeq	72.8	72.3	74.3	73.2	72.1	72.2	72.8	72.4	73	72.6	72.3	72.9	72.1	72.4	72.9	72.4	72.2	73.8
Limit	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75

Major Construction Activities	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Bored pile works for landscape elevated walkway	✓	✓		
Instrumentation installation at SB-01	✓			
Pre-drilling work for S14	✓			
Removal existing piles at Road D1	✓			
Rising main construction	✓			
Trial pit excavation	✓			
Advance works for traffic diversion at Sa Po Road	✓			
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓			
Construction of Crowd Dispersal Route	✓	✓	✓	✓
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓		
ELS and excavation at Pier 9 for Elevated Walkway LW-02				✓
Underground utility diversion works at Sa Po Road		✓	✓	✓
ELS and excavation at launching shaft for subway SB-01		✓	✓	✓
Drainage works for Pedestrian Street No.1, No,2 No.3 & No.4		✓		
Construction of DCS		✓	✓	✓
Construction works for Road L16		✓	✓	✓
Pre-bored socket H-piles construction for Subway KS10		✓	✓	
Twin rising mains diversion works		✓		
Renovation works for existing subways KS9 and KS32		✓	✓	✓
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓	
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓	
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	✓
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			✓	✓
Post-pilling tests for H-piles at Subway KS10			✓	✓
Erection of temporary decking across existing Kai Tak River				✓
ELS and excavation for Subway KS10 Lift and Staircase				✓
Demolition works to existing subway KS10 staircase and ramp				✓

actors might affect the monitoring results	Reporting Period			
	Jan 2022	Feb 2022	March 2022	April 2022
Non-project related construction activities in the adjacent construction sites were observed.	✓	✓	✓	✓

Appendix E – Event and Action Plans for Construction Dust Monitoring, Construction Noise and Landscape and Visual Impact

Event and Action Plans for Construction Dust Monitoring				
Event	**Action**			
	ET	**IEC**	**Supervisor / ER**	**Contractor**
Action Level being exceeded by one sampling	1. Identify source and investigate the causes of exceedance; 2. Inform Contractor, IEC and Supervisor /ER; 3. Repeat measurement to confirm finding.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Action Level being exceeded by two or more consecutive sampling	1. Identify source and investigate the causes of exceedance; 2. Inform Contractor, IEC and Supervisor /ER; 3. Increase monitoring frequency to daily; 4. Discuss with IEC and Contractor on remedial actions required; 5. Assess the effectiveness of Contractor's remedial actions; 6. If exceedance continues, arrange meeting with IEC and Supervisor /ER; 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the Supervisor /ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues.	1. Discuss with ET and IEC on proper remedial actions; 2. Submit proposals for remedial actions to Supervisor /ER and IEC within three working day of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Limit Level being exceeded by one sampling	1. Identify source and investigate the causes of exceedance; 2. Inform Contractor, IEC, Supervisor /ER, and EPD; 3. Repeat measurement to confirm finding; 4. Assess effectiveness of	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss possible remedial measures with ET and Contractor; 4. Advise the Supervisor /ER	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be	1. Take immediate action to avoid further exceedance; 2. Discuss with ET and IEC on proper remedial actions; 3. Submit proposal for remedial actions to Supervisor /ER and IEC

Event and Action Plans for Construction Dust Monitoring				
Event	**Action**			
	ET	**IEC**	**Supervisor / ER**	**Contractor**
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues.	within three working days of notification; 4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	1. Notify IEC, Supervisor /ER, Contractor and EPD; 2. Repeat measurement to confirm findings; 3. Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; 4. Increase monitoring frequency to daily; 5. Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken; 6. Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results; 7. If exceedance stop, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Discuss with ET and IEC on proper remedial actions; 3. Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification; 4. Implement the agreed proposals; 5. Submit further remedial actions if problem still not under control; 6. Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.

Event and Action Plans for Construction Noise				
Event	**Action**			
	ET	**IEC**	**Supervisor / ER**	**Contractor**
Action Level being exceeded	1. Notify Supervisor / ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, Supervisor / ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified.)	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly; 3. Advise the Supervisor / ER on the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified.)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified.)	1. Submit noise mitigation proposal to IEC and Supervisor / ER; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified.)
Limit Level being exceeded	1. Inform IEC, Supervisor /ER, Contractor and EPD; 2. Repeat measurement to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contract's working procedure; 6. Discuss remedial measures required with the IEC, Contractor and Supervisor /ER;	1. Discuss the potential remedial actions with Supervisor /ER, ET and Contractor; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified.)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification; 3. Implement the agreed proposal; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.

Event and Action Plans for Construction Noise				
Event	**Action**			
	ET	**IEC**	**Supervisor / ER**	**Contractor**
	7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, and Supervisor /ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified.)		work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified.)	(The above actions should be taken within 2 working days after the exceedance is identified.)

Event and Action Plans for Landscape and Visual Impact				
Event	**Action**			
	ET	**IEC**	**Supervisor / ER**	**Contractor**
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	1. Check report. 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	
Non-conformity on one occasion	1. Identify Source. 2. Inform IEC and Supervisor /ER. 3. Discuss remedial actions with IEC, Supervisor /ER and Contractor. 4. Monitor remedial actions until rectification has been completed.	1. Check report. 2. Check Contractor's working method. 3. Discuss with ET and Contractor on possible remedial measures. 4. Advise Supervisor /ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	1. Notify Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working methods. 2. Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	1. Identify Source. 2. Inform IEC and Supervisor /ER. 3. Increase monitoring frequency. 4. Discuss remedial actions with IEC, Supervisor /ER and Contractor. 5. Monitor remedial actions until rectification has been completed. 6. If non-conformity stops, cease additional monitoring.	1. Check monitoring report. 2. Check Contractor's working method. 3. Discuss with ET and Contractor on possible remedial measures. 4. Advise Supervisor /ER on effectiveness of proposed remedial measures. 5. Supervise implementation of remedial measures.	1. Notify Contractor. 2. Ensure remedial measures are properly implemented.	1. Amend working methods. 2. Rectify damage and undertake any necessary replacement.

Appendix F – Waste Flow Table

MONTHLY SUMMARY WASTE FLOW TABLE FOR ___2022___ (YEAR)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m^3]
JAN	0.84	0.13	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.01
FEB	0.36	0.05	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
MAR	0.85	0.13	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.01
APR	0.80	0.13	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.01
MAY											.
JUNE											
SUB-TOTAL	2.85	0.44	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.03
JULY											
AUG											
SEPT											
OCT											
NOV											
DEC											
TOTAL	2.85	0.44	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.03

Appendix G – Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref	Recommended Mitigation Measures	Implementation			
Part B Water Quality		Not Observed	Yes	No	Remark
S8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. ~~Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include use of sediment traps and adequate maintenance of drainage systems to prevent flooding and overflow~~	☑	☐	☐	
S8.8	Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. ~~The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.~~	☑	☐	☐	
S8.8	Construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	☑	☐	☐	
S8.8	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m^3 capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. ~~The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.~~	☑	☐	☐	
S8.8	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	☑	☐	☐	
S8.8	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	☑	☐	☐	
S8.8	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.	☑	☐	☐	
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	☑	☐	☐	
S8.8	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. ~~An adequately designed and located wheel washing bay should be provided at every site exit, and wash water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.~~	☐	☑	☐	
S8.8	*Drainage* On-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea.	☑	☐	☐	
S8.8	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	☑	☐	☐	
S8.8	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ	☑	☐	☐	
S8.8	*Sewage Effluent* Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	☑	☐	☐	
S8.8	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	☑	☐	☐	
S8.8	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management	☑	☐	☐	

EIA Ref	Recommended Mitigation Measures	Implementation			
	is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur				
S8.8	Construction Works at or in Close Proximity of Storm Culvert or Seafront The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	☑	☐	☐	
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	☑	☐	☐	
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	☑	☐	☐	
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	☐	☑	☐	
S8.8	Construction debris and spoil should be covered up and/~~or disposed~~ of as soon as possible to avoid being washed into the nearby water receivers	☐	☑	☐	
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	☑	☐	☐	
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	☑	☐	☐	
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	☑	☐	☐	
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	☑	☐	☐	
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	☑	☐	☐	
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	☑	☐	☐	
S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	☐	☑	☐	
Part C Construction Noise Impact		Not Observed	Yes	No	Remark
S7.8	Use of quiet PME, movable barriers for ~~Asphalt Paver, Breaker~~, Excavator and ~~Hand-held breaker and~~ full enclosure for ~~Air Compressor, Bar Bender, Concrete Pump,~~ Generator and Water Pump	☐	☑	☐	
S7.9	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. ~~Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible~~.	☐	☑	☐	
	Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. ~~Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs~~.	☑	☐	☐	
	Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	☑	☐	☐	
Part D Waste / Chemical Management		Not Observed	Yes	No	Remark
S5.2	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites	☐	☑	☐	
	Training of site personnel in site cleanliness, proper waste management and chemical waste handling procedures	☐	☑	☐	
	Provision of sufficient waste disposal points and regular collection for waste. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers	☑	☐	☐	
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment	☑	☐	☐	
S9.5	1)Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site ~~2)Training of site personnel in proper waste management and chemical waste handling procedures~~ ~~3)Provision of sufficient waste disposal points and regular collection for disposal~~ ~~4)Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers~~ ~~5)A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)~~	☐	☑	☐	

EIA Ref	Recommended Mitigation Measures	Implementation			
S9.5	Waste Reduction Measures 1) Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 2) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal 3) Encourage collection of aluminum cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force 4) Any unused chemicals or those with remaining functional capacity should be recycled 5) Proper storage and site practices to minimize the potential for damage or contamination of construction materials	☑	☐	☐	
S9.5	Construction and Demolition Material Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: 1) ~~Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible~~ 2) ~~Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric~~ 3) ~~Skip hoist for material transport should be totally enclosed by impervious sheeting~~ 4) Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 5) The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores 6) ~~The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle~~ 7) ~~All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet~~	☐	☑	☐	
S9.5	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 “Trip Ticket System for Disposal of Construction	☑	☐	☐	
S9.5	Chemical Waste After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the *Waste Disposal (Chemical Waste) (General) Regulation*	☑	☐	☐	
Part E Landscape & Visual		Not Observed	Yes	No	Remark
S13.9	CM1 - All existing trees should be carefully protected during construction. ~~CM2 - Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.~~ ~~CM3 - Control of night-time lighting.~~ CM4 - Erection of decorative screen hoarding.	☐	☑	☐	
Part F Air Quality		Not Observed	Yes	No	Remark
S6.8	~~Stockpiling site(s) should be lined with impermeable sheeting and bunded.~~ Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	☐	☑	☐	
S6.8	Misting for the dusty material should be carried out before being loaded into the vehicle.	☑	☐	☐	
S6.8	Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.	☑	☐	☐	
S6.8	The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation	☑	☐	☐	
S6.8	The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On-site unpaved roads should be compacted and kept free of lose materials	☐	☑	☐	
S6.8	Vehicle washing facilities should be provided at every vehicle exit point	☐	☑	☐	
S6.8	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	☐	☑	☐	
S6.8	Every main haul road should be ~~scaled with concrete and~~ kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.	☐	☑	☐	

EIA Ref	Recommended Mitigation Measures	Implementation			
S6.8	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.	☑	☐	☐	
S6.8	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	☐	☑	☐	
S6.5	8 times daily watering of the work site with active dust emitting activities.	☐	☑	☐	

Appendix H – Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Period: February 2022 to April 2022

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/05	No	No	No

Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions upto reporting period

Contract No.	Record of Complaint	Record of Warning	Notification of Summons and Successful Prosecutions
ED/2018/05	1	0	0