

# 92nd Consolidated Monthly EM&A Report (June 2024)

0087/16/ED/1228 [00]

Contact No. KLN/2016/05 - Independent Environmental Checker for Contract No. KL/2015/02 Kai Tak Development- Stage 5A Infrastructure at Former North Apron Area

# **Document Control**

## **Document Information**

Project Title	Contact No. KLN/2016/05 - Independent Environmental Checker for Contract No. KL/2015/02 Kai Tak Development- Stage 5A Infrastructure at Former North Apron Area
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## **Client Information**

Client	Civil Engineering and Development Department
Client Address	East Development Office, East Division 4,
Client Address	8/F, South Tower, West Kowloon Government Offices, 11 Hoi Ting Road, Yau Ma Tei, Kowloon

## Project Team

Initials	Name	Role	Signature
CL	Calvin M.P. Leung	Independent Environmental Checker	Cabin Leuns
WS	Wingo H.W. So	Environmental Consultant	Wing
EC	Eric T. Chan	Assistant Environmental Consultant	- C-P
			/



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# Executive Summary

- This is the 92<sup>nd</sup> Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 June and 30 June 2024.
- ii. The construction activities undertaken in the reporting month are summarized as follow:

## Contract No. KL/2015/02:

- Construction of Subway SW6 staircase ST2 base slab and Lift LT2
- Reinstatement work of road kerb and u-channel near PERE
- Construction of Road D1 footway

## Contract No. ED/2018/01:

- Installation of steel roof structure at Observation Deck
- Granolithic finishing works of Harbour Steps
- Construction of thrust block, wash-out chamber, manhole for drainage works & draw pit for cable works.
- Construction of concrete structure of Floating Stage
- Remedial works in Cell B of DCS Intake Box Culvert
- Installation of internal partition of Temporary Management Office
- Installation of internal partition of Toilet cum and Changing Room
- Installation of drainage near Pumping Stations
- Finishing work in Pumping Stations
- Construction of U-channel and footing of Rain Shelter and Feature Shelter at Elevated Landscape Deck

## Breaches of the Action and Limit Levels

- iii. No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- iv. No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- v. No Limit Level exceedance was recorded for noise monitoring in the reporting month.

## **Complaint, Notification of Summons and Successful Prosecution**

vi. No complaint, notification of summons or prosecution was received for Contract No. Contract No. KL/2015/02 and Contract No. ED/2018/01 in this reporting month.

## **Reporting Changes**

vii. There was no reporting change in the reporting month.



## Future Key Issues

viii. The potential environmental impacts for the coming month and the control measures are shown in Table I:

Major Environmental Impact	Control Measures			
Contract No. KL/2015/02:				
	<ul> <li><u>Air quality impact (dust)</u></li> <li>Frequent watering of haul road and unpaved/exposed areas;</li> <li>Frequent watering or covering stockpiles with impervious materials or maintained wet; and</li> <li>Watering of any earth moving activities.</li> </ul>			
Noise, dust impact, water quality and waste generation	<ul> <li>Water quality impact (surface runoff)</li> <li>Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;</li> <li>Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge;</li> <li>Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and</li> </ul>			
	<ul> <li>Noise Impact</li> <li>Machines and Plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>Regular maintenance of machines; and</li> <li>Use of movable noise barriers if necessary.</li> </ul>			
	<ul> <li><u>Waste /Chemical Management</u></li> <li>Avoided oil leakage from PME</li> <li>Provided drip tray with adequate capacity and well maintained to chemical and oil containers</li> </ul>			
Contract No. ED/2018/01:				
The mitigation measures environmental impact including Quality, Construction Noise, Water Quality, Chemical and Wa Management, Landscape and Vis shall be implemented:	<ul> <li>Properly cover the stockpiles,</li> <li>Ste</li> <li>Good maintenance to the plant and equipment</li> </ul>			

Table I Summary of Key Issues for the Coming Month and Control Measures



Major Environmental Impact	Control Measures			
	• Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,			
	<ul> <li>Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,</li> </ul>			
	<ul> <li>Onsite waste sorting and implementation of trip ticket system,</li> </ul>			
	<ul> <li>Good management and control on construction waste reduction,</li> </ul>			
	<ul> <li>Erection of decorative screen hoarding,</li> </ul>			
	• Strictly following the Environmental Permits and			
	Licenses, and			
	<ul> <li>Provide sufficient mitigation measures as recommended</li> </ul>			
	in Approved EIA Reports.			



# **1**. Introduction

## 1.1 Background

- 1.1.1 The Kai Tak Development is located in the south-eastern 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.
- 1.1.2 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 March 2009.
- 1.1.3 The EP-337/2009 was issued on 23 April 2009 for the new distributor roads serving the planned Kai Tak Development to the following scale and slope:
  - a. Road D1 a dual 2-lane carriageway of approximately 1.3 km long.
  - b. Road D2 a dual 3-lane carriageway of approximately 1.1 km long.
  - c. Road D3 a dual 2-lane carriageway of approximately 2.3 km long.
  - d. Road D4 a dual 2-lane carriageway of approximately 0.9 km long.
- 1.1.4 The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the role of Independent Environmental Checker (IEC) for the Contract No. KL/2015/02.
- 1.1.5 This is the 92<sup>nd</sup> Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 June and 30 June 2024.

## **1.2 Summary of relevant Contract Information of Key Personnel**

Party	Position	Name	Telephone	Fax/ E-mail
Contract No. KL/2015/02:				
Project Proponent (CEDD)	Senior Engineer	Mr. Ricky Chan	3579 2452	2739 0076
Engineer's Representative (AECOM)	SRE	Mr. Vincent Lee	2798 0771	2210 6110
IEC (FTS)	IEC	Mr. Calvin Leung	3565 4441	2450 8032
FT (Cinatach)	ET Leader	Mr. K.S Lee	2151 2091	
ET (Cinotech)	Audit Team Leader	Ms. Betty Choy	2151 2072	—3107 1388
Main Contractor (PWHJV)	Deputy Site Agent	Mr. W. M. Chen	9736 4284	2398 8301
Contract No. ED/2018/01:				
Droiget Brononent (CEDD)	Senior Engineer	Mr. Jason Wong	3579 2453	2739 0076
Project Proponent (CEDD)	Engineer	Ms. Chan Ka Yan	3579 2458	2739 0076
Engineer's Representative (AECOM)	CRE	Ms. Fanny Lau	3911 4201	3911 4288
IEC (Ramboll)	IEC	Mr. Y H Hui	3465 2850	3465 2899
ET (Ka Shing)	ET Leader	Mr. Chan Pang	6082 2973	2120 7752



Party	Position	Name	Telephone	Fax/ E-mail
Main Contractor (Penta-Ocean)	EO	Mr. Tony Tang	9433 2628	3465 8898

## **1.3 Summary of Construction Programme and Activities**

- 1.3.1 The construction programme of each Contract is summarized in the appendices of the corresponding Monthly EM&A report.
- 1.3.2 The major construction activities undertaken in the reporting month are summarized as follow:

#### Contract No. KL/2015/02:

- Construction of Subway SW6 staircase ST2 base slab and Lift LT2
- Reinstatement work of road kerb and u-channel near PERE
- Construction of Road D1 footway

#### Contract No. ED/2018/01:

- Installation of steel roof structure at Observation Deck
- Granolithic finishing works of Harbour Steps
- Construction of thrust block, wash-out chamber, manhole for drainage works & draw pit for cable works.
- Construction of concrete structure of Floating Stage
- Remedial works in Cell B of DCS Intake Box Culvert
- Installation of internal partition of Temporary Management Office
- Installation of internal partition of Toilet cum and Changing Room
- Installation of drainage near Pumping Stations
- Finishing work in Pumping Stations
- Construction of U-channel and footing of Rain Shelter and Feature Shelter at Elevated Landscape Deck



## 1.4 Summary of Inter-relationship with the environmental protection/ mitigation measures with the construction programme

1.4.1 The summary of inter-relationship with environmental protection/mitigation measures are presented as follow:

Major Environmental Impact	Control Measures			
Contract No. KL/2015/02:				
Noise, dust impact, water quality and waste generation	<ul> <li>Sufficient watering of the works site with active dust emitting activities;</li> <li>Properly cover the stockpiles by impervious materials;</li> <li>On-site waste sorting and implementation of trip ticket system</li> <li>Appropriate desilting/sedimentation devices provided on site for treatment before discharge;</li> <li>Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall;</li> <li>Provide drip trays with adequate capacity and well maintained to chemicals</li> <li>Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.</li> </ul>			
Contract No. ED/2018/01:				
environmental impact including A Quality, Construction Noise, Water Quality, Chemical and Was	• Limitation of the speed for vehicles on unpaved site roads			



## **1.5** Summary Status of Environmental Licences, Notifications and Permits

1.5.1 Detailed relevant environmental licenses, permits and/or notifications on environmental protection for this EP are presented in the appendices of the corresponding Monthly EM&A report.



# 2. Environmental Monitoring and Audit

## 2.1 Results and Observations

#### Air Quality

- 2.1.1 The schedule of air quality monitoring in reporting month is provided in the appendices of the corresponding Monthly EM&A report.
- 2.1.2 The weather conditions during the monitoring are provided in the appendices of the corresponding Monthly EM&A report.
- 2.1.3 The monitoring data of 24-hr TSP and 1 hour TSP are summarized in Table 2.1. Detailed monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

 Table 2.1
 Summary of 24-hr and 1 hour TSP Monitoring Results



Parameter	Monitoring Station	Average (µg/m³)		Range (µg/ m³)	Actior Level (µg/ m <sup>3</sup> )	nLimit Level (µg/ m³)
Contract No	). KL/2015/02:					
1-hr TSP	AM2	35.8		16.2 – 73.8	346	500
24-hr TSP	AM2(A)	39.8		36.9 – 42.4	157	260
Contract No	<u>. ED/2018/01:</u>					
_	AM3	47	29 – 81	182		
24-hr TSP	AM4(A)	/	/ - /	187	2	60
_	AM7	48	25 – 86	181		
	AM3	49	30 – 83	297		
1-hr TSP	AM4(A)	61	39 – 95	326	5	00
_	AM7	54	37 – 90	315		

- 2.1.4 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- 2.1.5 No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- 2.1.6 The monitoring data of 24-hr TSP was compared with the EIA predictions are presented in the appendices of the corresponding Monthly EM&A report.
- 2.1.7 The Event and Action Plan for air quality is given in the appendices of the corresponding Monthly EM&A report.

#### <u>Noise</u>

- 2.1.8 The schedule of noise monitoring in reporting month is provided in in the appendices of the corresponding Monthly EM&A report.
- 2.1.9 The noise monitoring data are summarized in Table 2.2. Detailed monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

Monitoring Stations	Construction Noise Level Leq <sub>(30min)</sub> dB(A) (Range)	Action Level	Limit Level dB (A)
Contract No. KL/2015/02:			
M3(A)	60.8 - 76.0#		75
M4	63.4 - 76.0#	- When one	70*
M5(C)	66.2 – 77.9#	- documented	75
Contract No. ED/2018/01:		<ul> <li>complaint is</li> </ul>	
 M11	71.8 – 73.9	- received.	75
M12	63.0 - 68.9		75

 Table 2.2
 Summary of Noise Impact Monitoring Results

(\*) Noise Limit Level is 65 dB(A) during school examination periods.

(\*) Measured noise level  $\leq$  background / baseline noise level, detailed data refer to the corresponding Monthly EM&A report.



- 2.1.10 The noise monitoring data was compared with the EIA predictions are presented in the appendices of the corresponding Monthly EM&A report.
- 2.1.11 No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 2.1.12 The Event and Action Plan for noise is given in in the appendices of the corresponding Monthly EM&A report.

#### Landscape and Visual

2.1.13 Site audits were carried out on a weekly basis to monitor and audit the landscape and visual mitigation measures within the site boundaries of this Project. Detailed of observations are presented in the appendices of the corresponding Monthly EM&A report.



# 3. Site Inspection

## 3.1 Site Inspection

- 3.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project.
- 3.1.2 Detailed of observation, recommendation of site inspections and summary of the mitigation measures implementation schedule is provided in the appendices of the corresponding Monthly EM&A Report.



## 4. Environmental Complaint and Non-Compliance

## 4.1 Complaints, Notification of Summons and Prosecution

4.1.1 The summary of complaints, notification of summons and prosecution in the reporting month are shown as Table 4.1.

Table 4.1 Summar	v of Complaints	Notification	of Summons and	Prosecution
Tuble 4.1 Summar	y or complaints	, Notification ,	or Summons and	1103ccution

Event	No. of Event This Month	Remark
Contract No. KL/2015/02:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. ED/2018/01:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA

4.1.2 Detailed records are presented in the appendices of the corresponding Monthly EM&A report.



# **5.** Implementation Status of Environmental Mitigation Measures

## 5.1 Implementation Status

5.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month are presented in the appendices of the corresponding Monthly EM&A report.

## 5.2 Waste Management

5.2.1 The amount of wastes generated of this Project during the reporting month is shown in the appendices of the corresponding Monthly EM&A report.



## 6. Future Key Issues

## 6.1 Construction Programme for the Next Two Months

6.1.1 The major site activities undertaken for the coming two months are summarized in follow:

## Contract No. KL/2015/02:

- Installation of Subway SW6 staircase ST2 and Lift LT2 steel frame
- Construction of Road D1 footway
- Construction of road D1 footway drainage system
- Backfilling work of subway SW6 staircase ST2 and Lift LT1

#### Contract No. ED/2018/01:

- Diversion of DCS Intake Box Culvert (For example, Cell 2)
- Granolithic finishing works of Harbour Steps
- Construction of Underground Utilities (For example, watermains, storm drain, sewage pipe, cable duct etc.)
- Road works and utilities works at Road D3 (Metro Park Section) and Road L12d
- Diversion of DCS Intake Box Culvert (For example, Cell 2)
- Installation of lift cart and E&M works of Lift LT-1 & LT-2
- Rising Main laying works
- Finishing works of Pumping Stations
- E&M installation of Pumping Stations
- Installation of steel roof of Observation Deck, and Toilet cum and Changing Room
- 6.1.2 The potential environmental impacts arising from the above construction activities and the control measures are shown in Table 6.1:

Table 6.1 Summary of Key Issues for the Coming Month and Control Measures

Major Environmental Impact	Control Measures
Contract No. KL/2015/02:	
	<ul> <li><u>Air quality impact (dust)</u></li> <li>Frequent watering of haul road and unpaved/exposed areas;</li> </ul>
	<ul> <li>Frequent watering or covering stockpiles with impervious materials or maintained wet; and</li> <li>Watering of any earth moving activities.</li> </ul>
Noise, dust impact, water quality and waste generation	<ul> <li><u>Water quality impact (surface runoff)</u></li> <li>Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;</li> <li>Provision of adequate de-silting facilities for treating</li> </ul>
	surface run-off and other collected effluents prior to discharge;



Major Environmental Impact	Control Measures		
	<ul> <li>Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and</li> </ul>		
	<ul> <li>Noise Impact</li> <li>Machines and Plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>Regular maintenance of machines; and</li> <li>Use of movable noise barriers if necessary.</li> </ul>		
Contract No. ED/2019/01.	<ul> <li><u>Waste /Chemical Management</u></li> <li>Avoided oil leakage from PME</li> <li>Provided drip tray with adequate capacity and well maintained to chemical and oil containers</li> </ul>		
<u>Contract No. ED/2018/01:</u>	• Sufficient watering of the works site with the active dust		
	<ul> <li>emitting activities,</li> <li>Limitation of the speed for vehicles on unpaved site roads,</li> <li>Properly cover the stockpiles,</li> </ul>		
	<ul> <li>Good maintenance to the plant and equipment,</li> <li>Use of quieter plant and Quality Powered Mechanical Equipment (QPME),</li> </ul>		
environmental impact including Quality, Construction Noise, Water Quality, Chemical and Wa	<ul> <li>fore Provide movable noise barriers,</li> <li>Aire Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,</li> <li>stee Well maintain the drainage system to prevent the</li> </ul>		
Management, Landscape and Visi shall be implemented:	<ul> <li>ual spillage of wastewater during heavy rainfall,</li> <li>Onsite waste sorting and implementation of trip ticket system,</li> </ul>		
	<ul> <li>Good management and control on construction waste reduction,</li> <li>Erection of decorative screen hoarding,</li> </ul>		
	<ul> <li>Strictly following the Environmental Permits and Licenses, and</li> </ul>		
	<ul> <li>Provide sufficient mitigation measures as recommended in Approved EIA Reports.</li> </ul>		

## 6.2 Monitoring Schedules for the Next Month

6.2.1 The tentative schedules for environmental monitoring in the coming month are provided in the appendices of the corresponding Monthly EM&A.



# 7. Conclusions

- 7.1.1 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- 7.1.2 No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- 7.1.3 No Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 7.1.4 No complaint, notification of summons or prosecution was received for Contract No. Contract No. KL/2015/02 and Contract No. ED/2018/01 in this reporting month.
- 7.1.5 The potential environmental impacts arising from the coming two months of major construction activities and the control measures are shown in Table 6.1.



# **Appendix A**

Monthly EM&A Report For Contract No. KL/2015/02 Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



## **Civil Engineering and Development Department**

#### EP-337/2009 – New Distributor Roads Serving the Planned KTD

#### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

Monthly EM&A Report

June 2024

(Version 1.0)

Certified By	
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

#### CINOTECH CONSULTANTS LTD

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#### FUGRO TECHNICAL SERVICES LIMITED

19/F, Fugro House – KCC2 1 Kwai On Road, Kwai Chung New Territories, Hong Kong

Date 8 July 2024 Our Ref. MCL/ED/0211/2024/C

Cinotech Consultants Limited Rm 1710, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong

BY EMAIL

Attn.: Mr. K.S Lee

Dear Sir,

#### Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Verification of Monthly EM&A Report for June 2024

We refer to your emails dated 5 and 8 July 2024 for the captioned report prepared by the ET.

We have no further comment and hereby verify the Report in accordance with Clause 3.3 of Environmental Permit no. EP-337/2009.

Should you require further information, please do not hesitate to contact the undersigned at 3565 4441.

Assuring you of our best attention at all times.

Yours faithfully, For and on behalf of FUGRO TECHNICAL SERVICES LIMITED

Calvin Leung

CL/ ws/ ec

c.c. CEDD –

AECOM –

Attn.: Mr. Ricky Chan Attn.: Mr. Michael So Attn.: Mr. Vincent Lee Attn.: Mr. Teddy Shih

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### EXECUTIVE SUMMARY

#### Introduction

- 1. This is the 90<sup>th</sup> Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2015/02 Kai Tak Development Stage 5A Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted during June 2024.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Table I** (see **Figure 2 and 3** for their locations).

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations	
Air Quality Monitoring Stations			
	Yes (1-hour TSP)	N/A	
AM2 - Lee Kau Yan Memorial School	No (24-hour TSP)	AM2(A) – Ng Wah Catholic Secondary School	
Noise Monitoring Stations			
M3 - Cognitio College	No	M3(A) – The Bridge connecting The Latitude	
M4 - Lee Kau Yan Memorial School	Yes	N/A	
M5 – Nam Yuen	No	M5(C) – Mercy Grace's Home	

#### Table I – Air Quality and Noise Monitoring Stations for this Project

- 3. The major site activities undertaken in the reporting month included:
  - Construction of Subway SW6 staircase ST2 base slab and Lift LT2
  - Reinstatement work of road kerb and u-channel near PERE
  - Construction of Road D1 footway

#### **Environmental Monitoring Works**

- 4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table II**.

	No. of Project-rel			
Parameter	Action Level	Limit Level	Action Taken	
1-hr TSP	0	0	N/A	
24-hr TSP	0	0	N/A	
Noise	0	0	N/A	

 Table II
 Non-compliance Recorded for the Project in the Reporting Month

1-hour & 24-hour TSP Monitoring

- 6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

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

#### **Environmental Licenses and Permits**

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, EP-337/2009 issued on 23 April 2009. All valid Licenses/Permits for this Project are shown in **Table 6.1**.
  - Billing Account for Construction Waste Disposal (A/C# 7026164).
  - Effluent Discharge License (WT00041367-2022).
  - Registration of Chemical Waste Producer (WPN5213-286-P3271-01).

## Key Information in the Reporting Month

10. Summary of key information in the reporting month is tabulated in **Table III**.

Event	Event Details		Action Taken	Status	Domonia
Event	Number	Nature	Action Taken	Status	Remark
Complaint received			N/A	N/A	
Reporting Changes			N/A	N/A	
Notifications of any summons & prosecutions received			N/A	N/A	

 Table III
 Summary Table for Key Information in the Reporting Month

## **Future Key Issues**

11. The future key environmental issues in the coming two months include:

Stagnant water on the unused and damaged water-filled barriers & uncovered containers - and manhole;

- Silt, construction materials or debris being washed through manhole into the drainage system
- Dust generation from excavation works, stockpile storage & rock breaking activities;
- Oil leakage from equipment and mobile plants;

## 1 INTRODUCTION

#### Background

1.1. The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, 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. It covers a land area of about 328 hectares. Stage 5A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1**.

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- 1.2. An Environmental Permit (EP) No. EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3. A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4. Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2015/02 – Stage 5A Infrastructure at Former North Apron Area. The construction work under KL/2015/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5. Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The commencement date of construction of Road D1 (part) under this Contract was on 16 January 2017.

## **Project Organizations**

- 1.6. Different parties with different levels of involvement in the project organization include:
  - Project Proponent Civil Engineering and Development Department (CEDD).
  - The Engineer and the Engineer's Representative (ER) AECOM Asia Co. Ltd (AECOM).
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech).
  - Independent Environmental Checker (IEC) Fugro Technical Services Limited (FTS).
  - Contractor Peako Wo Hing Joint Venture (PWHJV).

able 1.1 Key Project Contacts					
Party	Role	<b>Contact Person</b>	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. CHAN Wai Kit, Ricky	Senior Engineer	3579 2452	2739 0076
AECOM	Engineer's Representative	Mr. Vincent Lee	Senior Resident Engineer	2798 0771	2210 6110
Cinotech	Environmental	Mr. K.S Lee	Environmental Team Leader	2151 2091	3107 1388
Chloteen	Team	Ms. Betty Choi	Audit Team Leader	2151 2072	
FTS	Independent Environmental Checker	Mr. Calvin Leung	Independent Environmental Checker	3565 4441	2450 8032
PWHJV	Contractor	Mr. W.M. Chen	Deputy Site Agent	9736 4284	2398 8301

#### 1.7. The key contacts of the Project are shown in **Table 1.1**.

#### **Construction Activities undertaken during the Reporting Month**

- 1.8. The site activities undertaken in the reporting month included:
  - Construction of Subway SW6 staircase ST2 base slab and Lift LT2 •
  - Reinstatement work of road kerb and u-channel near PERE •
  - Construction of Road D1 footway •
- 1.9. The construction programme for the Project is shown in Appendix N.
- 1.10. The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in Table 1.2.

Table 1.2	Construction Programme Showing the Inter-Relationship with
_	Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
Refer to Section 1.8	Dust impact, water quality and waste generation	<ul> <li>Sufficient watering of the works site with active dust emitting activities;</li> <li>Properly cover the stockpiles by impervious materials;</li> <li>On-site waste sorting and implementation of trip ticket system</li> <li>Appropriate desilting/sedimentation devices provided on site for treatment before discharge;</li> <li>Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall;</li> <li>Provide drip trays with adequate capacity and well maintained to chemicals</li> <li>Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.</li> </ul>

## Summary of EM&A Requirements

- 1.11. The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12. The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.13. This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project during the reporting month.

## 2 AIR QUALITY

## **Monitoring Requirements**

2.1. According to EM&A Manual under the EP, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

## **Monitoring Locations**

- 2.2. 1-hour TSP impact dust monitoring was conducted at the air quality monitoring station, AM2 - Lee Kau Yan Memorial School and 24-hour TSP impact dust monitoring were conducted at the air quality monitoring station, AM2(A) - Ng Wah Catholic Secondary School in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.3. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Monitoring Stations	Locations	Location of Measurement
AM2 (1-hour TSP)	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
AM2(A) (24-hour TSP)	Ng Wah Catholic Secondary School	Rooftop (about 8/F) Area

 Table 2.1
 Locations for Air Quality Monitoring

## Monitoring Equipment

2.4. **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

Table 2.2     Air Quality Monitoring Equipment				
Equipment	Model and Make	Quantity		
Calibrator	• TISCH TE-5025A	1		
1-hour TSP Dust Meter	• Sibata Scientific Technology LD-5R	2		
HVS Sampler	• TE-5170 c/w of TSP sampling inlet	1		
Wind Anemometer	Davis Instruments 6152	1		

## Table 2.2Air Quality Monitoring Equipment

#### **Monitoring Parameters, Frequency and Duration**

2.5. **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

#### Table 2.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

## Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

#### Measuring Procedures

2.6. The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

(Equipment: Sibata Scientific Technology; Model no. LD-3B, LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display.
- Finally, push the start/stop switch to stop the measuring after 1 hour sampling.

• Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

### Maintenance/Calibration

2.7. The following maintenance/calibration was required for the direct dust meters:

Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

#### 24-hour TSP Monitoring

#### Instrumentation

2.8. High volume (HVS) samplers (Model TE-5170), completed 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). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

#### Operating/Analytical Procedures

- 2.9. Operating/analytical procedures for the operation of HVS were as follows:
  - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
  - No two samplers were placed less than 2 meters 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 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
  - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
  - No furnaces or incineration flues were nearby.
  - Airflow around the sampler was unrestricted.
  - The sampler was more than 20 meters from the drip line.
  - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.10. Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

- 2.11. For TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of 0.3μm diameter were used.
- 2.12. The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.13. The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14. 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 should be sufficient to avoid air leakage at the edges.
- 2.15. The shelter lid was closed and secured with the aluminium strip.
- 2.16. The timer was then 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).
- 2.17. After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
- 2.18. Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm$ 3°C; the relative humidity (RH) should be < 50% and not vary by more than  $\pm$ 5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.19. The following maintenance/calibration was required for the HVS:
  - The high volume motors 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 at bi-monthly intervals using TE-5025A Calibration Kit through/hout all stages of the air quality monitoring.

#### **Results and Observations**

- 2.20. All 1-hour & 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21. The weather information for the reporting month is summarized in Appendix C.
- 2.22. The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23. The summary of exceedance record in reporting month is shown in **Appendix H**. No exceedance was recorded for the air quality monitoring.
- 2.24. According to our field observations during the monitoring, the major dust source identified at the two designated air quality monitoring stations are road traffic dust, exposed site area and open stockpiles, excavation works and site vehicle movements.
- 2.25. The summary of 1-hour and 24-hour TSP air quality monitoring results during the reporting month are shown in **Appendix E** and **Appendix F** respectively.

## 3 NOISE

## **Monitoring Requirements**

3.1. According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

## **Monitoring Locations**

3.2. Three designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at three designated monitoring stations (M3(A), M4, and M5(C)). **Figure 3** shows the locations of these stations.

<b>Monitoring Stations</b>	Locations	Location of Measurement
M3(A)	The Bridge connecting The Latitide	In the middle of the foot bridge connecting The Latitude
M4	Lee Kau Yan Memorial School	Rooftop (about 7/F) Area
M5(C)	Mercy Grace's Home	Ground in front of the building entrance facing Prince Edward Road East (noise monitoring is not allowed on the rooftop from 27 February 2020, due to the coronavirus countermeasure in Mercy Grace's Home)

Table 3.1Noise Monitoring Stations

## **Monitoring Equipment**

3.3. **Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

#### Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	• BSWA Tech. 308 & SVAN 979	3
Calibrator	• ST-120	1

#### **Monitoring Parameters, Frequency and Duration**

3.4. **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 3.3Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3(A) M4 M5(C)	L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (30 min.) dB(A) L <sub>eq</sub> (30 min.) dB(A)	0700-1900 hrs on normal weekdays	Once per week	Façade

#### Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

 frequency	weighting	: A
1 2	0 0	

- time weighting : Fast
- time measurement : 30 minutes
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

#### Maintenance and Calibration

- 3.5. The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6. The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Results and Observations**

- 3.8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.9. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.
- 3.10. Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.11. The major noise source identified at the designated noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations	Locations	Major Noise Source
M3(A)	The Bridge connecting The Latitude	Traffic Noise Site vehicle movement
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Daily school activities
M5(C)	Mercy Grace's Home	Traffic Noise Site vehicle movement

Table 3.4	Major Noise Source identifi	ed at the Designated Noise	<b>Monitoring Stations</b>
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Station	Baseline Noise Level, dB (A)	Noise Limit Level, dB (A)
	N/A <sup>(1)</sup>	75
M3(A)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on
	weekdays)	normal weekdays)
	76.7 <sup>(2)</sup>	70 <sup>(*)</sup>
M4	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on
	weekdays)	normal weekdays)
	N/A <sup>(1)</sup>	75
M5(C)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on
	weekdays)	normal weekdays)

#### Table 3.5 **Baseline Noise Level and Noise Limit Level for Monitoring Stations**

(\*) Noise Limit Level is 65 dB(A) during school examination periods.

Note (1): The background Noise Level was recorded during the Lunch Hour of Construction Site

(i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.

Note (2): The noise level due to the construction work (CNL) was calculated by the following formula:  $CNL = 10 \log (10^{MNL/10} - 10^{BNL/10})$ 

Remarks: MNL = Measured Noise Level, BNL = Baseline Noise Level

#### 4 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1. The EM&A data was compared with the EIA predictions as summarized in **Tables 4.1** to **4.3**.

	Predicted 1-l	nr TSP conc.		sured SP conc.
Station	Scenario1 (Mid 2009 to Mid-	Scenario2 (Mid 2013 to Late		ng Month 024), μg/m <sup>3</sup>
	2013), μg/m <sup>3</sup>	2016), μg/m <sup>3</sup>	Average	Range
AM2 – Lee Kau Yan Memorial School	290	312	35.8	16.2 - 73.8

#### Table 4.1 Comparison of 1-hr TSP data with EIA predictions

#### Table 4.2 Comparison of 24-hr TSP data with EIA predictions

	Predicted 24-hr TSP conc.		Meas 24-hr TS	
Station	Scenario1 (Mid 2009 to Mid-2013), μg/m <sup>3</sup>	Scenario2 (Mid 2013 to Late 2016), µg/m <sup>3</sup>	Reporting Month (June 2024), μg/m <sup>3</sup>	
			Average	Range
AM2(A) – Ng Wah Catholic Secondary School	145	169	39.8	36.9 - 42.4

#### Table 4.3Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L <sub>eq (30min)</sub> dB(A))	Reporting Month (June 2024), L <sub>eq (30min)</sub> dB(A)
M3(A) – The Bridge connecting The Latitude	Not predicted in EIA Report	$60.8 - 76.0^{(2)}$
M4 – Lee Kau Yan Memorial School	47 – 74	$63.4-76.0^{(1)}$
M5(C) – Mercy Grace's Home	Not predicted in EIA Report	$66.2 - 77.9^{(2)}$

Remarks:

(1) Since the baseline noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

(2) Since the background noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

- 4.2. The average 1-hour TSP concentrations at AM2 in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3. The average 24-hour TSP concentrations at AM2(A) in the reporting month were below the prediction in the approved EIA Report.
- 4.4. The noise monitoring results in the reporting month from M4 were slightly higher than the range of the predicted mitigated constriction noise levels in the EIA Report.

4.5. Construction noise levels at M3(A) and M5(C) were not predicted in EIA Report.

#### 5 LANDSCAPE AND VISUAL

#### **Monitoring Requirements**

5.1. According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

#### **Results and Observations**

- 5.2. Site audits were conducted on a weekly basis to monitor the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3. No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4. Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

#### 6 ENVIRONMENTAL INSPECTION

#### **Site Inspections**

- 6.1. 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. The summaries of site inspections are attached in **Appendix I**.
- 6.2. Site inspections were conducted on 03, 12, 17 & 27 June 2024 in the reporting month. A joint site inspection with the representative of IEC, ER, the Contractor and the ET was conducted on 12 June 2024. The details of the observations during site inspection are summarized in **Table 6.2**.

#### **Review of Environmental Monitoring Procedures**

6.3. The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

#### Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

#### Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

#### Status of Environmental Licensing and Permitting

6.4. All permits/licenses obtained for the Project are summarized in **Table 6.1**.

Fable 6.1         Summary of Environmental Licensing and Permit Status			
D 4 N	Valid I	Valid Period	
Permit No.	From	То	Status
<b>Environmental Permit (EP)</b>			
EP-337/2009	23 Apr 2009	N/A	Valid
Effluent Discharge License			
WT00027495-2017	28 Mar 2017	31 Mar 2022	Expired
WT00041367-2022	20 Jun 2022	31 Mar 2027	Valid
<b>Billing Account for Construction W</b>	aste Disposal		
A/C# 7026164	20 Oct 2016	N/A	Valid
<b>Registration of Chemical Waste Pro</b>	oducer		
WPN5213-229-P3271-01	14 Aug 2017	N/A	Valid
Construction Noise Permit (CNP)			
GW-RE0915-19	08 Nov 2019	04 May 2020	Expired
GW-RE0984-19	15 Dec 2019	24 Feb 2020	Expired
GW-RE0083-20	01 Mar 2020	01 June 2020	Expired
GW-RE0266-20	02 May 2020	31 Jul 2020	Expired
GW-RE0779-21	30 Jul 2021	30 Nov 2021	Expired
GW-RE0858-21	31 Jul 2021	30 Aug 2021	Expired
GW-RE0636-23	06 Jun 2023	30 Jun 2023	Expired
GW-RE0637-23	06 Jun 2023	30 Jun 2023	Expired

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#### **Status of Waste Management**

6.5. The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.

#### **Implementation Status of Environmental Mitigation Measures**

6.6. During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

Table 6.2         Observations and Recommendations of Site Inspections			
Parameters	Date	Observations and Recommendations	Follow-up/Rectification
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A
Waste/ Chemical Management	N/A	No environmental deficiency was identified in the reporting period.	N/A
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A
Permits/ Licenses	N/A	No environmental deficiency was identified in the reporting period.	N/A

Table 6.2	<b>Observations and Recommendations of Site Inspections</b>
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#### **Summary of Mitigation Measures Implemented**

6.7. An updated summary of the EMIS is provided in Appendix K.

#### **Implementation Status of Event Action Plans**

6.8. The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

#### 1-hr TSP Monitoring

6.9. No Action/Limit Level exceedance was recorded in the reporting month.

#### 24-hr TSP Monitoring

6.10 No Action/Limit Level exceedance was recorded in the reporting month.

#### **Construction Noise**

6.11. No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.12. No non-compliance was recorded in the reporting month.

# Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.13. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

#### 7 FUTURE KEY ISSUES

- 7.1. Major site activities undertaken for the coming two months include:
  - Installation of Subway SW6 staircase ST2 and Lift LT2 steel frame
  - Construction of Road D1 footway
  - Construction of road D1 footway drainage system
  - Backfilling work of subway SW6 staircase ST2 and Lift LT1
- 7.2. Key environmental issues in the coming month include:
- Stagnant water on the unused and damaged water-filled barriers & uncovered containers and manhole

Silt, construction materials or debris being washed through manhole into the drainage system

- Dust generation from excavation works, stockpile and rock breaking activities;
- Oil leakage from equipment and mobile plants;

7.3. The tentative major site activities is mentioned in Section 7.1 of this report. The impact prediction and control measures for the coming two months are summarized as follows:

#### Air quality impact (dust)

- Frequent watering of haul road and unpaved/exposed areas;
- Frequent watering or covering stockpiles with impervious materials or maintained wet; and
- Watering of any earth moving activities.

Water quality impact (surface runoff)

- Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;
- Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge;
- Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and

#### Noise Impact

- Machines and Plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
- Regular maintenance of machines; and
- Use of movable noise barriers if necessary.

#### Waste /Chemical Management

- Avoided oil leakage from PME
- Provided drip tray with adequate capacity and well maintained to chemical and oil containers

#### Monitoring Schedule for Next Month

7.4. The tentative environmental monitoring schedules for next month are shown in **Appendix D**.

#### 8 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

8.1. Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

#### <u>1-hr TSP Monitoring</u>

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

#### 24-hr TSP Monitoring

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

#### Construction Noise Monitoring

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

#### Landscape and visual

8.5. No non-compliance was recorded in the reporting month.

#### Complaint and Prosecution

8.6. No environmental complaint and environmental prosecution was received in the reporting month.

#### Recommendations

8.7. According to the environmental audit performed in the reporting month, the following recommendations were made:

#### Water Impact

- To avoid accumulation of stagnant and ponding water on site.
- Bunds should be provided to surrounding areas of earthworks for flood protection.
- 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.
- Groundwater pumped out should be discharged via sediment traps/tanks.
- All vehicles and plant should be cleaned of earth, mud and debris before leaving the site.

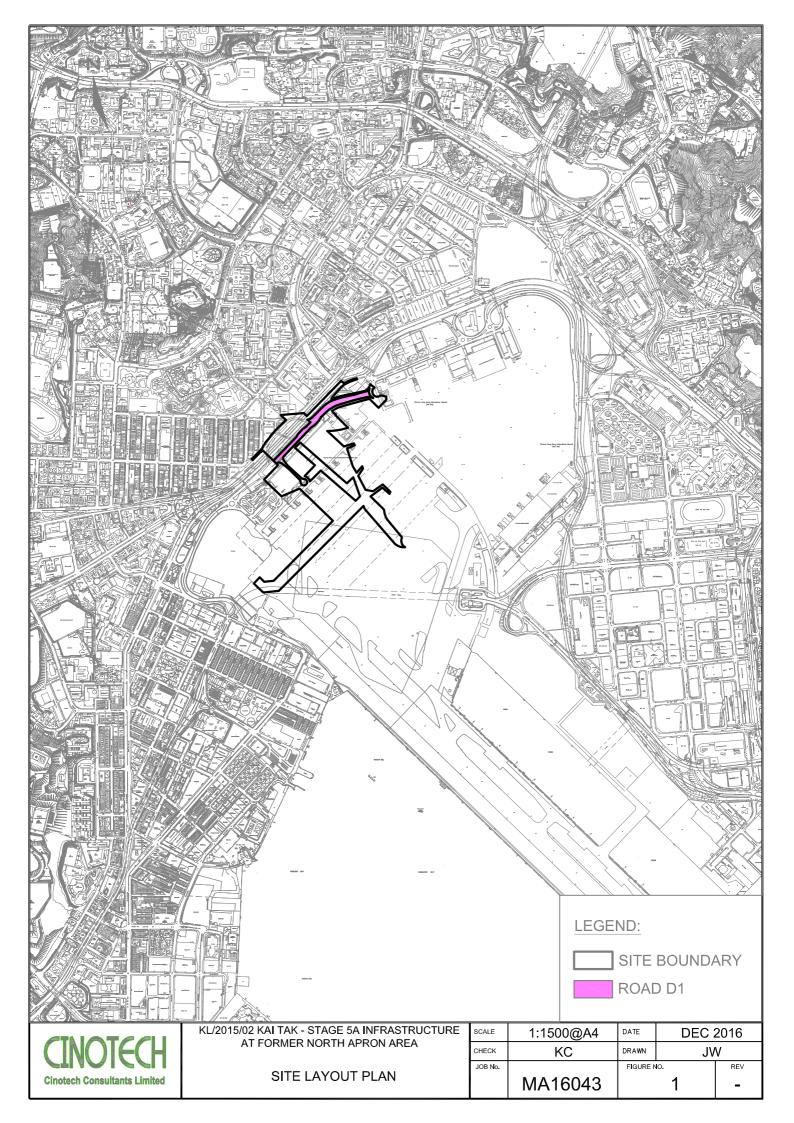
#### Air Quality

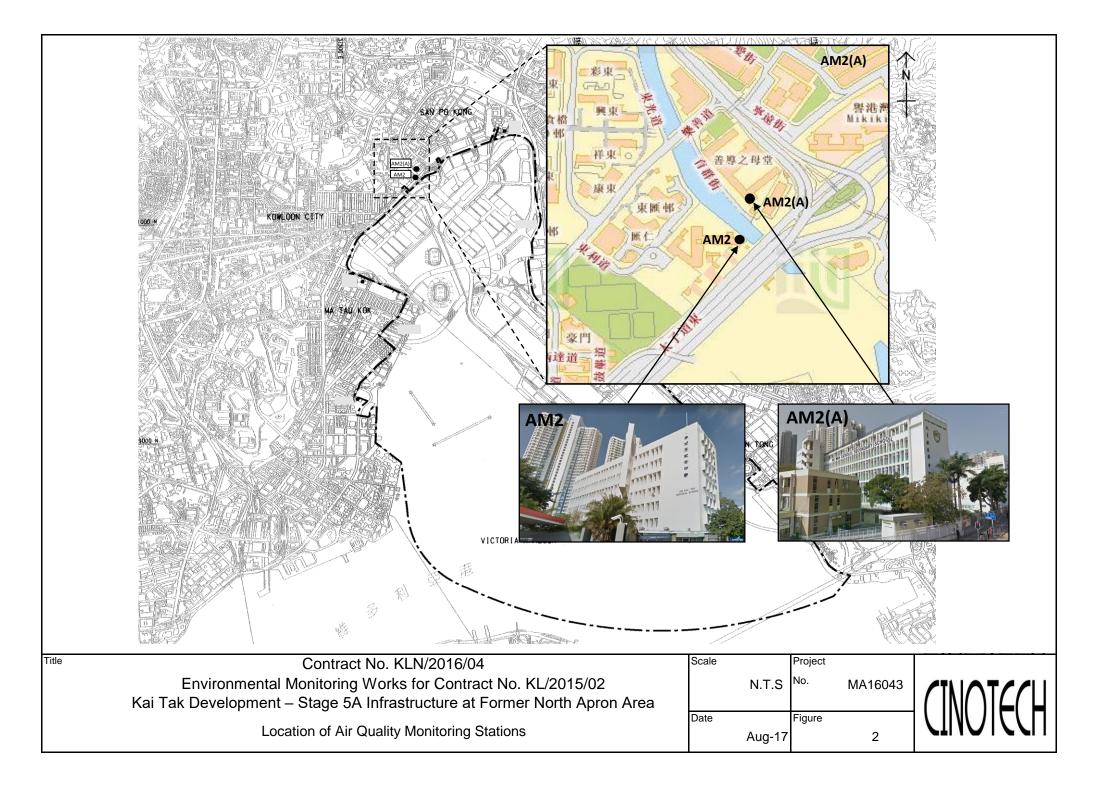
- The stockpile of dusty material should be covered by impervious materials or maintained wet.
- Water spraying should be provided during the rock-breaking activities conducted to minimize the dust generation.

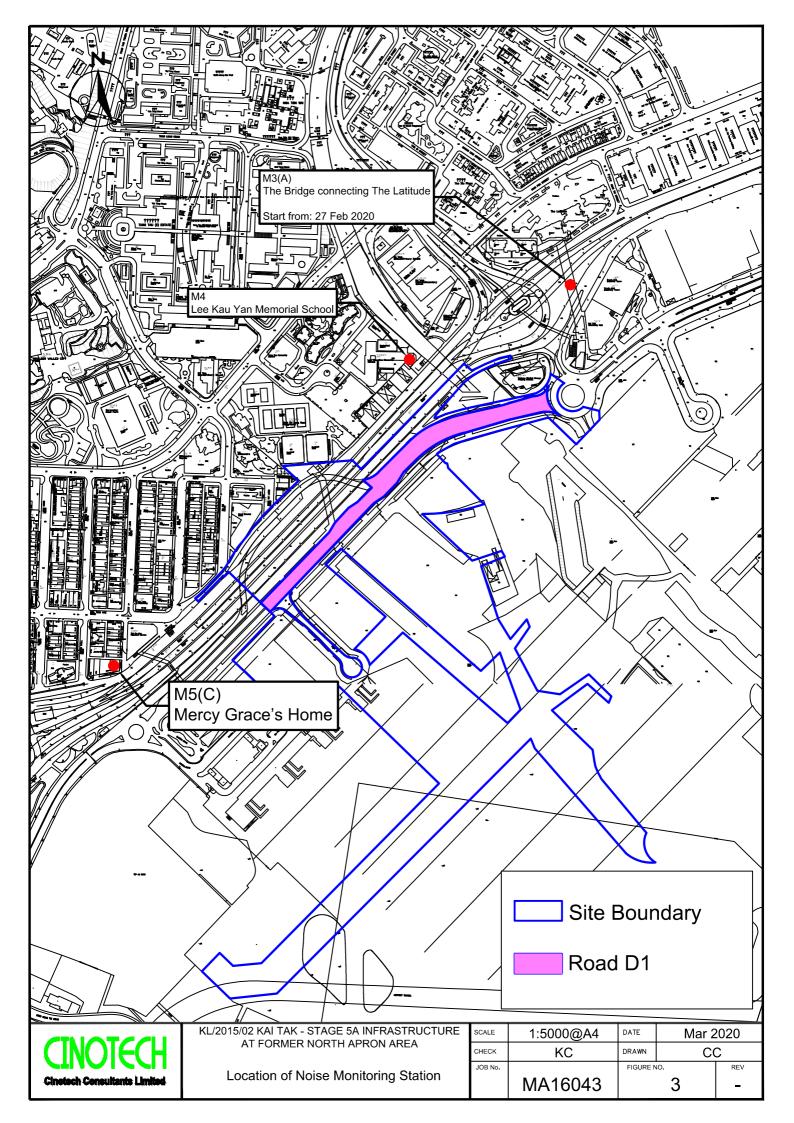
#### Waste/Chemical Management

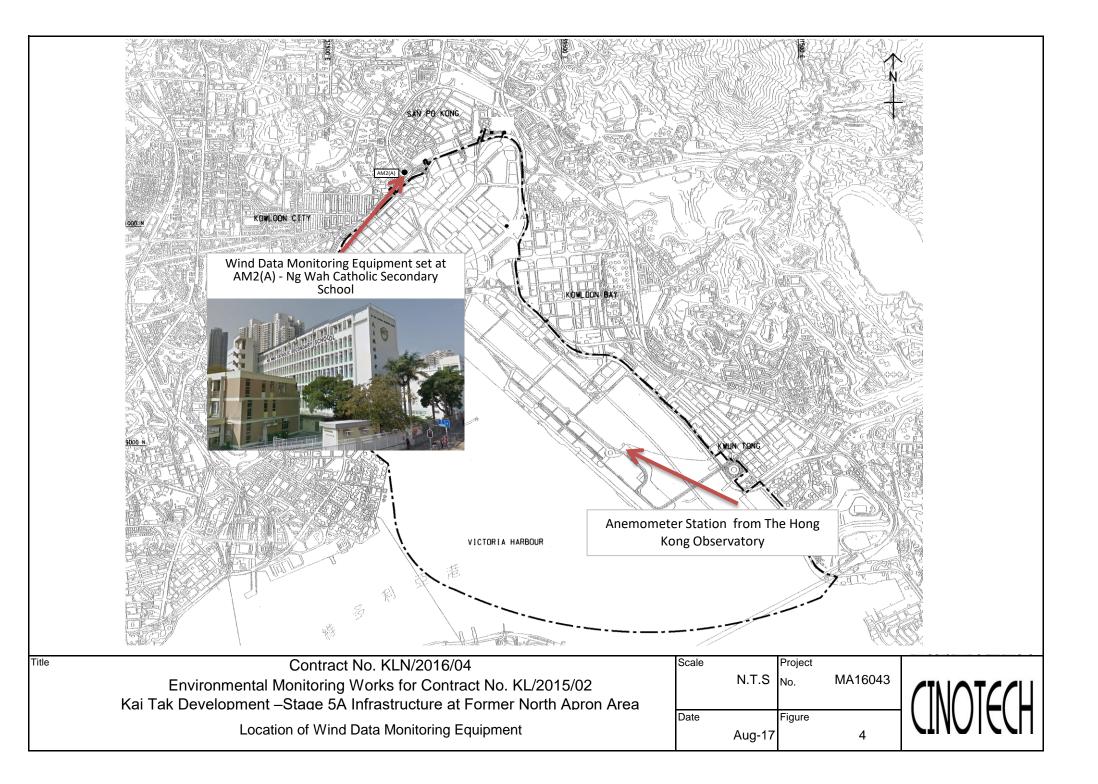
- Oil leakage from PME should be avoided.
- Drip tray with adequate capacity and well maintained should be provided to chemical & oil container.
- The construction/chemical material should be stored at the proper place.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE

#### **Appendix A - Action and Limit Levels**

Location	Action Level, μg/m <sup>3</sup>	Limit Level, μg/m <sup>3</sup>
AM2	346	500

#### Table A-1Action and Limit Levels for 1-Hour TSP

#### Table A-2Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM2(A)	157	260

#### Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: 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. \*70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B-1 COPIES OF CALIBRATION CERTIFCATES (AIR)

## **High-Volume TSP Sampler** 5-POINT CALIBRATION DATA SHEET

15-Jan-24

14-Jan-25

Last Calibration Date:

Next Calibration Date:



File No. MA16043/13/0042

Project No.	Project No. AM2(A) - Ng Wah Catholic Secondary School					
Date:	6-N	lay-24	Next Due Date:	6	Jul-24 Operator	SK
Equipment No.:	A-	01-13	Model No.:	TE	E-5170 Serial No	1352
Ambient Condition						
Temperatu	Femperature, Ta (K)300.7Pressure, Pa (mmHg)759.1					
Orifice Transfer Standard Information						
Serial	No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018

mc x Qstd + bc =  $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ 

Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc

Calibration Point 1 2 3 4 5	DH (orifice), in. of water 13.8 11.3 9.0 5.8 3.5	Calibration of           Orfice           [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> 3.70           3.34           2.98           2.40           1.86	Qstd (CFM) X - axis 62.69 56.80 50.79	DW (HVS), in. of water 10.0 7.7	HVS [ΔW x (Pa/760) x (298/Ta)] <sup>1/2</sup> Y-axis 3.15 2.76
Point  1  2  3  4	in. of water 13.8 11.3 9.0 5.8	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> 3.70 3.34 2.98 2.40	X - axis 62.69 56.80 50.79	of water 10.0 7.7	$\frac{[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}}{Y-axis}$ 3.15
1 2 3 4	13.8 11.3 9.0 5.8	3.70 3.34 2.98 2.40	X - axis 62.69 56.80 50.79	10.0 7.7	<b>Y-axis</b> 3.15
2 3 4	11.3 9.0 5.8	3.34 2.98 2.40	56.80 50.79	7.7	
3 4	9.0 5.8	2.98 2.40	50.79		276
4	5.8	2.40		~ ~	2.70
				5.5	2.33
5	3.5	1.86	40.93	3.4	1.83
1	5.5	1.00	31.99	2.0	1.41
By Linear Regre					
Slope, mw =			Intercept, bw :	-0.450	1
Correlation c		0.9965	-		
*If Correlation Co	pefficient < 0.990	), check and recalibrate.			
		Set Point C	alculation		
From the TSP Fie	eld Calibration C	urve, take Qstd = 43 CFM			
		e "Y" value according to			
riom the regress.	ion Equation, an	i value according to			
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29	<b>98/Ta</b> )] <sup>1/2</sup>	
			-		
Therefore, Set	Point; $W = (mv)$	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	3.95	
<u> </u>					
Remarks:					
-			6		
Conducted by:	Wong Shi	ng Kwai Signature:	: <u> </u>	<u>)</u>	Date: 6-May-24
				y Xoy	
Checked by:	Henry I	Leung Signature:	: J-lem	, any	Date: 6-May-24

### CINOTECH CONSULTANTS LIMITED



#### **Certificate of Calibration**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date of	of Calibration	31-May-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibra	ation Record	31-Jul-24
Model No.:	LD-5R				
Serial No.:	8Y2374				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ity Adjustment	652	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/m3) <b>X-axis</b>		Mass concentration (μg/m <sup>3</sup> ) <b>Y-axis</b>		
1	77.0		137.0		
2	67.0		120.0		
3	57.0			101.0	
Average	67.0			119.3	
By Linear Reg	ression of Y on X				
Slope, mw =	1.8000	Inter	cept, bw =	-1.2667	
Correlation c	coefficient* = 0.9995	;	-		
	Se	et Correlation F	actor		
Particaulate Con	ncentration by High Volume Sampler (	$(\mu g/m^3)$	119.3		
Particaulate Con	ncentration by Dust Meter ( $\mu g/m^3$ )		67.0		
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [ K=Hig	gh Volume Sampler / Dust Meter, (μ	.g/m3) ]	1.8		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: \_\_\_\_\_

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)

### CINOTECH CONSULTANTS LIMITED



#### **Certificate of Calibration**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	31-May-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ation Record	31-Jul-24
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ity Adjustment	645	
	Ca	llibration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/ <b>X-axis</b>	/m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		ug/m <sup>3</sup> )
1	77.0		138.0		
2	67.0		119.0		
3	58.0			119.0	
Average			119.0		
	Average 07.5 117.0				
By Linear Reg	ression of Y on X				
Slope , mw =	1.9982	Inter	cept, bw =	-15.5424	<u>ا</u>
Correlation c	oefficient* = 0.9995	5	<u>.</u>		
	Se	et Correlation F	actor		
Particaulate Concentration by High Volume Sampler ( $\mu g/m^3$ )			119.0		
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )		67.3			
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [ K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3) ]	1.8		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

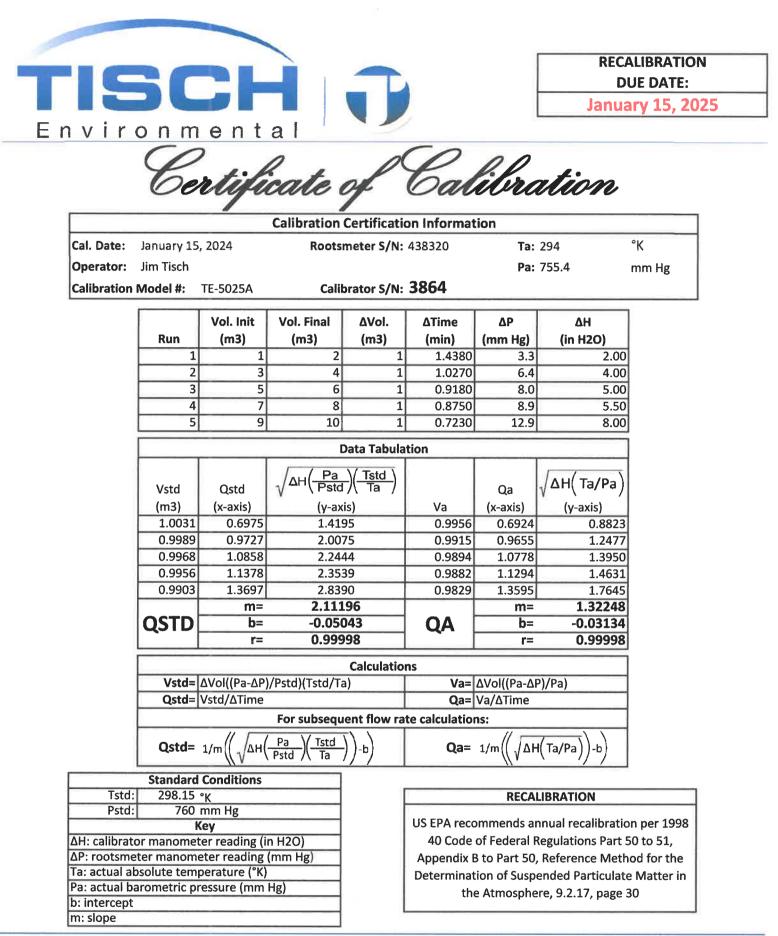
Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: en any

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009

# CIN@TECH 🤳

#### Certificate of Calibration - Wind Monitoring Station

Description:	Ng Wah Catholic Seconday School - Weather Stations
Manufacturer:	Davis Instruments
Model No.:	Davis 6152, Vantage Pro2
Serial No.:	<u>BC180522050</u>
Equipment No.:	<u>SA-03-03</u>
Date of Calibration	<u>5-Apr-2024</u>
Next Due Date	<u>5-Oct-2024</u>

#### 1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.6	-0.1
4.0	4.1	-0.1

#### 2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

**Test Specification:** 

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by: Mong Shing Kwai Approved by: Henry Leung

APPENDIX B-2 COPIES OF CALIBRATION CERTIFCATES (NOISE)

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00568



Issue Date : 14 Feb 2024

: HP00436 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-03 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570188 Microphone No. 570608

Date Received	:	05 Feb 2024
Test Period	:	07 Feb 2024 to 07 Feb 2024
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.2. The result(s) relate only to the items tested or calibrated.

The result(s) relate only to the items tested of camprated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:

:



Issue Date : 14 Feb 2024

Report No.:00568Application No.:HP00436

## **Certificate of Calibration**

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	113.9	- 0.1	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00648



Issue Date : 11 Apr 2024

: HP00515 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-05 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580287 Microphone No. 570610

Date Received	:	09 Apr 2024
Test Period	:	09 Apr 2024 to 09 Apr 2024
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:

:



Issue Date : 11 Apr 2024

Report No.:00648Application No.:HP00515

## **Certificate of Calibration**

Measuring

equipment

Description	Sound Calibrator	
Manufacturer	Brüel & Kjær	
Model No.	TYPE 4231	
Serial No.	2326353	
Equipment No.	N-02-01	

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Test Result

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00393



: 02 Aug 2023

Issue Date

Application No. : HP00275 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 28 Jul 2023 Date Received Test Period : 31 Jul 2023 to 31 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

Remark : 1. Information of the sample description provided by the Applicant.

: Refer to the test result(s) on page 2.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

5

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:

:



Issue Date : 02 Aug 2023

Report No.:00393Application No.:HP00275

## **Certificate of Calibration**

Measuring equipment

Sound Calibrator	
Brüel & Kjær	
TYPE 4231	
2326353	
N-02-01	
Sound Meter	
SVANTEK	
SVAN 977	
92677	
10352	
N-14-01	

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.2	+ 0.2	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Issue Date : 03 May 2024

Report No. : 00676 : HP00537 Application No.

**Certificate of Calibration** 

Applicant

: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : SN-01-01

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 979
		Serial No.	27189
		Microphone No.	25202

Date Received	:	02 May 2024
Test Period	:	02 May 2024 to 02 May 2024
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:

:



Issue Date : 03 May 2024

Report No.:00676Application No.:HP00537

## **Certificate of Calibration**

Measuring

equipment

Description	Sound Calibrator	
Manufacturer	Brüel & Kjær	
Model No.	TYPE 4231	
Serial No.	2326353	
Equipment No.	N-02-01	

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

APPENDIX C WEATHER INFORMATION

		June 2024		
Date	Mean Pressure (hPa)	Air Temperature	Mean Relative Humidity (%)	Precipitation (mm)
		Mean (°C)		
1-Jun-24	1007.8	27.1	88	54.2
2-Jun-24	1007.3	28.0	84	3.2
3-Jun-24	1008.4	25.3	91	8.6
4-Jun-24	1009.9	24.1	86	2.9
5-Jun-24	1010.2	24.4	90	8.5
6-Jun-24	1009.4	26.5	88	Trace
7-Jun-24	1007.9	25.6	92	1.6
8-Jun-24	1006.9	26.3	90	6.8
9-Jun-24	1008.3	26.6	93	33.5
10-Jun-24	1008.9	28.5	85	0.2
11-Jun-24	1008.1	29.1	84	0.6
12-Jun-24	1006.9	29.5	83	8.3
13-Jun-24	1004.7	29.9	83	4.9
14-Jun-24	1004.1	29.7	82	32
15-Jun-24	1004.6	28.2	86	28.3
16-Jun-24	1006.2	28.8	86	17.5
17-Jun-24	1006.6	30.1	80	Trace
18-Jun-24	1005.9	29.9	81	4.6
19-Jun-24	1005.7	30.0	80	9.4
20-Jun-24	1005.6	30.0	82	5
21-Jun-24	1006.0	30.8	76	0
22-Jun-24	1006.4	31.2	75	0
23-Jun-24	1006.7	30.5	78	4.7
24-Jun-24	1007.3	30.8	77	0.3
25-Jun-24	1009.2	30.1	79	19
26-Jun-24	1011.3	30.4	79	0
27-Jun-24	1010.9	30.7	79	1.4
28-Jun-24	1008.9	31.0	75	1.6
29-Jun-24	1007.6	29.2	82	15.5
30-Jun-24	1006.6	30.3	79	8.7

June 2024

June 2024					
Т	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
1-Jun-24	0:00	3.7	WNW		
1-Jun-24	1:00	3.8	W		
1-Jun-24	2:00	2.6	W		
1-Jun-24	3:00	3.2	W		
1-Jun-24	4:00	1.7	SSW		
1-Jun-24	5:00	0.8	SSE		
1-Jun-24	6:00	1.4	SSW		
1-Jun-24	7:00	1.9	WSW		
1-Jun-24	8:00	1.1	SW		
1-Jun-24	9:00	1.5	S		
1-Jun-24	10:00	1.3	SSE		
1-Jun-24	11:00	1.5	SSE		
1-Jun-24	12:00	1.3	SSW		
1-Jun-24	13:00	1.2	S		
1-Jun-24	14:00	1.9	SSE		
1-Jun-24	15:00	2.1	SSE		
1-Jun-24	16:00	2.5	S		
1-Jun-24	17:00	2.4	SSE		
1-Jun-24	18:00	1.9	SSE		
1-Jun-24	19:00	1.8	S		
1-Jun-24	20:00	1.8	SSE		
1-Jun-24	21:00	1.6	SSE		
1-Jun-24	22:00	1.3	SSE		
1-Jun-24	23:00	1.1	SSE		
2-Jun-24	0:00	1.0	SE		
2-Jun-24	1:00	1.2	SSE		
2-Jun-24	2:00	1.0	SSE		
2-Jun-24	3:00	0.7	SE		
2-Jun-24	4:00	0.4	SE		
2-Jun-24	5:00	0.9	SSE		
2-Jun-24	6:00	0.5	SSE		
2-Jun-24	8:00	0.6	S		
2-Jun-24	9:00	1.1	SSE		
2-Jun-24	10:00	0.7	SSE		
2-Jun-24	11:00	1.1	SSE		
2-Jun-24	12:00	0.9	SSE		
2-Jun-24	13:00	1.0	SSE		
2-Jun-24	14:00	0.8	SSW		
2-Jun-24	15:00	0.8	SE		
2-Jun-24	16:00	0.6	SSW		
2-Jun-24	17:00	0.8	SW		
2-Jun-24	18:00	1.1	SW		
2-Jun-24	19:00	0.8	SE		
2-Jun-24	20:00	0.7	SSE		
2-Jun-24	21:00	0.4	S		
2-Jun-24	22:00	0.0	S		
2-Jun-24	23:00	0.0	S		

June 2024					
Tabl	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
3-Jun-24	0:00	0.2	S		
3-Jun-24 3-Jun-24	1:00	0.2	S		
3-Jun-24 3-Jun-24	2:00	0.1	S		
3-Jun-24 3-Jun-24	3:00	0.2	S		
3-Jun-24 3-Jun-24	4:00	0.0	S		
	5:00	0.3	SSW		
3-Jun-24		1.2	SW		
3-Jun-24 3-Jun-24	6:00 7:00	0.8	S		
3-Jun-24 3-Jun-24	8:00	1.0	S		
	9:00	1.0	S		
<u>3-Jun-24</u>	10:00	0.4	SSE		
3-Jun-24					
3-Jun-24	11:00	0.4 0.2	S S		
3-Jun-24	12:00	0.2	SE SE		
3-Jun-24 3-Jun-24	13:00	0.3	SE SSW		
	14:00 15:00	0.8	SW		
3-Jun-24			SW		
3-Jun-24	16:00 17:00	1.3 1.3	WSW		
3-Jun-24		1.5	WSW WSW		
3-Jun-24 3-Jun-24	18:00		WSW		
	19:00	1.6 1.6	W		
3-Jun-24	20:00		W		
3-Jun-24	21:00	2.2			
3-Jun-24	22:00 23:00	1.0	WSW WSW		
3-Jun-24 4-Jun-24	0:00	1.1	SW		
		1.2	SW		
4-Jun-24	1:00 2:00	1.3	WSW		
4-Jun-24					
4-Jun-24	3:00	1.3 1.6	SW WSW		
4-Jun-24	4:00 5:00		SW		
4-Jun-24 4-Jun-24		0.9	WSW SW		
4-Jun-24 4-Jun-24	6:00 8:00	1.5	SSW		
4-Jun-24 4-Jun-24	9:00	1.3	S		
4-Jun-24 4-Jun-24	10:00	1.4	SSW		
4-Jun-24 4-Jun-24	11:00	2.0	WSW		
4-Jun-24 4-Jun-24	11:00	1.1	SW		
4-Jun-24 4-Jun-24	12:00	1.1	SSE		
4-Jun-24 4-Jun-24	13:00	1.4	S		
4-Jun-24	15:00	1.7	S		
4-Jun-24	16:00	2.2	WSW		
4-Jun-24 4-Jun-24	17:00	1.7	SSW		
4-Jun-24 4-Jun-24	17:00	0.9	SW		
4-Jun-24 4-Jun-24	19:00	1.4	SW		
4-Jun-24 4-Jun-24	20:00	0.9	S		
4-Jun-24	20.00	1.0	SW		
4-Jun-24	21:00	1.0	W		
4-Jun-24	22:00	1.7	SW		
+-Jull=∠+	25.00	1.0	511		

June 2024					
Г	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
5-Jun-24	0:00	1.4	SW		
5-Jun-24	1:00	1.0	SW		
5-Jun-24	2:00	1.1	SSW		
5-Jun-24	3:00	0.6	S		
5-Jun-24	4:00	0.7	S		
5-Jun-24	5:00	0.5	SSW		
5-Jun-24	6:00	0.6	S		
5-Jun-24	7:00	0.5	S		
5-Jun-24	8:00	0.6	S		
5-Jun-24	9:00	1.1	WSW		
5-Jun-24	10:00	1.5	SSW		
5-Jun-24	11:00	1.5	SW		
5-Jun-24	12:00	1.7	SW		
5-Jun-24	13:00	1.5	WSW		
5-Jun-24	14:00	1.7	W		
5-Jun-24	15:00	1.2	WSW		
5-Jun-24	16:00	1.0	WSW		
5-Jun-24	17:00	0.8	SW		
5-Jun-24	18:00	1.2	W		
5-Jun-24	19:00	0.6	SSE		
5-Jun-24	20:00	0.8	SW		
5-Jun-24	21:00	0.7	S		
5-Jun-24	22:00	1.0	SSE		
5-Jun-24	23:00	0.8	SSE		
6-Jun-24	0:00	0.5	SSE		
6-Jun-24	1:00	0.4	S		
6-Jun-24	2:00	0.7	S		
6-Jun-24	3:00	0.7	S		
6-Jun-24	4:00	0.2	SSE		
6-Jun-24	5:00	0.6	SSE		
6-Jun-24	6:00	0.9	SSE		
6-Jun-24	7:00	1.0	S		
6-Jun-24	8:00	1.0	S		
6-Jun-24	9:00	0.9	S		
6-Jun-24	10:00	1.1	SSW		
6-Jun-24	11:00	1.4	W		
6-Jun-24	12:00	0.9	S		
6-Jun-24	13:00	1.4	S		
6-Jun-24	14:00	1.6	S		
6-Jun-24	15:00	1.0	SSW		
6-Jun-24	16:00	0.5	WSW		
6-Jun-24	17:00	0.4	SSW		
6-Jun-24	18:00	0.7	SW		
6-Jun-24	19:00		SE		
6-Jun-24	20:00	0.8	W SW		
6-Jun-24	21:00	0.6	SW		
6-Jun-24 6-Jun-24	22:00 23:00	0.7	SW		
0-Juli-24	23.00	0.0	3		

June 2024			
Tab	le II: Wind S	Speed and Directions	5
Date	Time	Wind Speed m/s	Direction
7-Jun-24	0:00	0.5	SSW
7-Jun-24	1:00	0.3	SW
7-Jun-24	2:00	0.3	SSW
7-Jun-24	3:00	0.3	S
7-Jun-24	4:00	0.3	SSE
7-Jun-24	5:00	0.6	SSE
7-Jun-24	6:00	1.2	SSW
7-Jun-24	7:00	1.1	SSW
7-Jun-24	8:00	1.4	SSW
7-Jun-24	9:00	1.6	SSW
7-Jun-24	10:00	1.6	S
7-Jun-24	11:00	1.6	SW
7-Jun-24	12:00	1.5	S
7-Jun-24	13:00	1.7	SSW
7-Jun-24	14:00	1.5	SSW
7-Jun-24	15:00	1.1	S
7-Jun-24	16:00	1.0	S
7-Jun-24	17:00	0.8	SSE
7-Jun-24	18:00	1.1	S
7-Jun-24	19:00	1.1	S
7-Jun-24	20:00	0.7	SSE
7-Jun-24	21:00	1.1	S
7-Jun-24	22:00	0.8	S
7-Jun-24	23:00	0.6	SSE
8-Jun-24	0:00	1.0	S
8-Jun-24	1:00	1.1	S
8-Jun-24	2:00	0.7	S
8-Jun-24	3:00	0.4	SE
8-Jun-24	4:00	0.5	S
8-Jun-24	5:00	0.2	SSE
8-Jun-24	6:00	0.3	S
8-Jun-24	7:00	0.4	SSE
8-Jun-24	8:00	0.5	SSW
8-Jun-24	9:00	0.7	SSW
8-Jun-24	10:00	0.6	SE
8-Jun-24	11:00	0.7	SE
8-Jun-24	12:00	0.9	S
8-Jun-24	13:00	1.2	SE
8-Jun-24	14:00	1.0	SSE
8-Jun-24	15:00	2.1	WSW
8-Jun-24	16:00	1.8	WSW WSW
8-Jun-24	17:00	1.7 1.6	WSW
8-Jun-24	18:00		S W
8-Jun-24	19:00	0.9	
8-Jun-24	20:00	1.0 0.4	S SE
8-Jun-24	21:00 22:00		
8-Jun-24	22:00	0.4 0.6	S S
8-Jun-24	25.00	0.0	3

June 2024			
Т	able II: Wi	nd Speed and Direction	IS
Date	Time	Wind Speed m/s	Direction
9-Jun-24	0:00	1.2	W
9-Jun-24 9-Jun-24	1:00	0.6	S
9-Jun-24	2:00	0.8	S
9-Jun-24 9-Jun-24	3:00	0.5	SE
9-Jun-24	4:00	0.3	SSE
9-Jun-24	5:00	0.7	S
9-Jun-24	6:00	0.3	S
9-Jun-24	7:00	1.1	SE
9-Jun-24	8:00	0.7	SSW
9-Jun-24	9:00	0.7	S
9-Jun-24	10:00	0.4	SW
9-Jun-24	11:00	0.5	S
9-Jun-24	12:00	0.1	SSE
9-Jun-24	13:00	0.2	S
9-Jun-24	14:00	0.2	SSE
9-Jun-24	15:00	0.3	S
9-Jun-24	16:00	0.2	SSE
9-Jun-24	17:00	0.2	SSE
9-Jun-24	18:00	0.2	S
9-Jun-24	19:00	0.1	SE
9-Jun-24	20:00	0.0	S
9-Jun-24	21:00	0.0	SSE
9-Jun-24	22:00	0.1	S
9-Jun-24	23:00	0.1	S
10-Jun-24	0:00	0.0	SSE
10-Jun-24	1:00	0.0	SSW
10-Jun-24	2:00	0.0	ESE
10-Jun-24	3:00	0.0	SSE
10-Jun-24	4:00	0.4	S
10-Jun-24	5:00	0.1	SE
10-Jun-24	6:00	0.1	SSE
10-Jun-24	7:00	0.1	SSE
10-Jun-24	8:00	0.8	SW
10-Jun-24	9:00	1.0	WSW
10-Jun-24	10:00	1.2	W
10-Jun-24	11:00	1.8	SW
10-Jun-24	12:00	1.5	SW
10-Jun-24	13:00	1.4	SW
10-Jun-24	14:00	1.2	SW
10-Jun-24	15:00	0.9	S SSE
10-Jun-24 10-Jun-24	16:00	0.9	WSW
10-Jun-24 10-Jun-24	17:00 18:00	1.2	WSW
10-Jun-24 10-Jun-24	19:00	0.8	SSW
10-Jun-24 10-Jun-24	20:00	0.8	S
10-Jun-24 10-Jun-24	20.00	0.4	SSE
10-Jun-24	22:00	0.3	S
10-Jun-24	23:00	0.3	SSE
10-Juli-24	23.00	0.5	551

June 2024			
Tabl		Speed and Directions	s
Date	Time	Wind Speed m/s	Direction
		•	
11-Jun-24 11-Jun-24	0:00 1:00	0.4	SSE SSE
11-Jun-24	2:00	0.4	SSE
11-Jun-24 11-Jun-24	3:00	0.3	S
11-Jun-24	4:00	0.2	S
11-Jun-24	5:00	0.1	S
11-Jun-24	6:00	0.2	SSW
11-Jun-24	7:00	0.5	SSW
11-Jun-24	8:00	0.8	S
11-Jun-24	9:00	1.0	S
11-Jun-24	10:00	1.3	SSE
11-Jun-24	11:00	1.6	SSE
11-Jun-24	12:00	1.9	SSW
11-Jun-24	13:00	1.3	SSE
11-Jun-24	14:00	1.5	SSE
11-Jun-24	15:00	1.5	SSE
11-Jun-24	16:00	0.9	SSE
11-Jun-24	17:00	1.2	SE
11-Jun-24	18:00	1.2	SE
11-Jun-24	19:00	0.8	SSE
11-Jun-24	20:00	0.8	SE
11-Jun-24	21:00	0.7	SW
11-Jun-24	22:00	0.5	S
11-Jun-24	23:00	0.7	S
12-Jun-24	0:00	0.8	SW
12-Jun-24	1:00	0.7	SW
12-Jun-24	2:00	0.5	SSW
12-Jun-24	3:00	0.8	SSW
12-Jun-24	4:00	0.7	SSW
12-Jun-24	5:00	1.0	W
12-Jun-24	6:00	1.0	SSW
12-Jun-24	7:00	1.1	SSW
12-Jun-24	8:00	1.1	S
12-Jun-24	9:00	1.3	SSE
12-Jun-24	10:00	1.5	SSE
12-Jun-24	11:00	1.5	SSE
12-Jun-24	12:00	1.9	SE
12-Jun-24	13:00	1.6	SSE
12-Jun-24	14:00	1.8	S
12-Jun-24	15:00	1.6	S
12-Jun-24	16:00	1.0	SSE SSE
<u>12-Jun-24</u>	17:00	1.2	
<u>12-Jun-24</u>	18:00	1.0	SSE
12-Jun-24	19:00	1.2	S SSE
12-Jun-24	20:00	1.3	
<u>12-Jun-24</u>	21:00	1.1	SE
12-Jun-24	22:00	1.1	SSE SSE
12-Jun-24	23:00	1.0	SOE

June 2024					
Т	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
13-Jun-24	0:00	1.0	S		
13-Jun-24	1:00	0.7	S		
13-Jun-24	2:00	0.7	S		
13-Jun-24	3:00	1.2	SSE		
13-Jun-24	4:00	1.0	S		
13-Jun-24	5:00	1.0	SSE		
13-Jun-24	6:00	0.9	S		
13-Jun-24	7:00	0.8	S		
13-Jun-24	8:00	1.2	SSE		
13-Jun-24	9:00	1.4	S		
13-Jun-24	10:00	1.6	SSE		
13-Jun-24	11:00	1.5	SE		
13-Jun-24	12:00	1.5	SE		
13-Jun-24	13:00	1.6	SSE		
13-Jun-24	14:00	1.9	SE		
13-Jun-24	15:00	1.9	SSE		
13-Jun-24	16:00	1.6	SSE		
13-Jun-24	17:00	1.4	SSE		
13-Jun-24	18:00	1.1	SSE		
13-Jun-24	19:00	1.0	SSE		
13-Jun-24	20:00	0.9	SSW		
13-Jun-24	21:00	0.4	S		
13-Jun-24	22:00	0.6	S		
13-Jun-24	23:00	0.5	S		
14-Jun-24	0:00	0.5	SW		
14-Jun-24	1:00	1.1	W		
14-Jun-24	2:00	0.9	SW		
14-Jun-24	3:00	0.7	S		
14-Jun-24	4:00	0.6	SSW		
14-Jun-24	5:00	0.7	S		
14-Jun-24	6:00	0.6	SSE		
14-Jun-24	7:00	0.8	SSW		
14-Jun-24	8:00	1.0	WSW		
14-Jun-24	9:00	1.2	S		
14-Jun-24	10:00	1.0	S		
14-Jun-24	11:00	0.9	SW		
14-Jun-24	12:00	0.6	S		
14-Jun-24	13:00	0.6	S		
14-Jun-24	14:00	1.2	S S		
14-Jun-24	15:00	1.0	SSE		
14-Jun-24	16:00 17:00	0.9	SSE		
14-Jun-24 14-Jun-24	17:00	0.9	SSE S		
14-Jun-24 14-Jun-24		0.7	SSE		
14-Jun-24 14-Jun-24	19:00 20:00	0.7	SSE		
14-Jun-24 14-Jun-24	20:00	0.4	SSE		
14-Jun-24 14-Jun-24	21:00	0.4	SSE		
14-Jun-24 14-Jun-24	22:00	0.3	S		
14-Jull-24	25.00	0.5	3		

June 2024			
Tabl		Speed and Direction	3
	Time		Direction
Date		Wind Speed m/s	
15-Jun-24	0:00	0.3	S
15-Jun-24	1:00	0.4	S S
15-Jun-24	2:00		S
15-Jun-24	3:00	0.6	
15-Jun-24	4:00	0.8	SW
15-Jun-24	5:00	0.8	SSW
15-Jun-24	6:00	<u> </u>	S
15-Jun-24	7:00		SSE
15-Jun-24	8:00	1.3	WSW SW
15-Jun-24	9:00	0.7	SW
15-Jun-24	10:00	0.6	
15-Jun-24	11:00	0.6	SSW
15-Jun-24	12:00	0.9	SSW
15-Jun-24	13:00	0.7	SSE
15-Jun-24	14:00	1.0	S
15-Jun-24	15:00	1.5	SSE
15-Jun-24	16:00	0.7	SSW
15-Jun-24	17:00	0.6	SSW
15-Jun-24	18:00	1.7	S
15-Jun-24	19:00	0.4	S
15-Jun-24	20:00	0.8	SSE
15-Jun-24	21:00	0.7	S
15-Jun-24	22:00	0.5	S
15-Jun-24	23:00	0.2	SSE
16-Jun-24	0:00	0.1	SSE
16-Jun-24	1:00	0.2	S S
16-Jun-24	2:00	0.0	
16-Jun-24	3:00	0.0	S
16-Jun-24	4:00	0.2	SSE
16-Jun-24	5:00	0.2	S
16-Jun-24	6:00	0.1	SSE
16-Jun-24	7:00	0.2	SSE
16-Jun-24	8:00	0.3 0.4	SSW
16-Jun-24	9:00		S SE
16-Jun-24 16-Jun-24	10:00 11:00	1.0	SE SSE
16-Jun-24	12:00	0.7	SE
16-Jun-24	13:00	0.9	SSE
16-Jun-24	14:00	1.2	SSE
16-Jun-24	15:00	1.5	S S
16-Jun-24	16:00	1.5 1.3	SSE
16-Jun-24	17:00		
16-Jun-24	18:00	1.1	SSE
16-Jun-24	19:00	0.8	SSE
16-Jun-24	20:00	0.8	S
16-Jun-24	21:00	0.9	SSW
16-Jun-24	22:00	0.7	SSW
16-Jun-24	23:00	0.7	SSE

June 2024						
Т	able II: Wi	nd Speed and Direction	IS			
Date         Time         Wind Speed and Directions						
		*				
17-Jun-24 17-Jun-24	0:00 1:00	0.6	S SSE			
	2:00	0.5	SSE			
17-Jun-24	3:00	0.3	SSW			
17-Jun-24		0.5				
17-Jun-24	4:00		S			
17-Jun-24 17-Jun-24	5:00	0.3	S			
17-Jun-24 17-Jun-24	6:00	0.6	SSE SW			
17-Jun-24 17-Jun-24	7:00 8:00	1.2	SW			
17-Jun-24 17-Jun-24	9:00	1.5	SW			
	10:00	2.5	WSW			
17-Jun-24						
17-Jun-24	11:00	<u> </u>	SW			
17-Jun-24 17-Jun-24	12:00 13:00	1.5	SSW SW			
17-Jun-24 17-Jun-24	13:00	1.3	SW			
17-Jun-24 17-Jun-24	14:00	1.4	SSW			
17-Jun-24 17-Jun-24	16:00	2.1	WSW			
	17:00	1.9	SW			
17-Jun-24	17:00	1.9	WSW			
17-Jun-24 17-Jun-24	19:00	1.5	WSW			
17-Jun-24 17-Jun-24	20:00	1.5	W			
			WSW			
17-Jun-24 17-Jun-24	21:00	1.6				
	22:00 23:00	<u> </u>	SW SSW			
17-Jun-24		1.2	SW			
18-Jun-24	0:00	0.9	SW			
18-Jun-24 18-Jun-24	1:00 2:00	0.9	SSW			
18-Jun-24 18-Jun-24	3:00	0.7	SSW			
18-Jun-24	4:00	1.2	WSW			
18-Jun-24	5:00	0.8	SW			
18-Jun-24 18-Jun-24	6:00	0.8	SSW			
18-Jun-24 18-Jun-24	7:00	0.4	S			
18-Jun-24 18-Jun-24	8:00	1.7	WSW			
18-Jun-24 18-Jun-24	9:00	1.7	SW			
18-Jun-24 18-Jun-24	10:00	1.3	SW			
18-Jun-24 18-Jun-24	11:00	1.5	SW			
18-Jun-24	12:00	1.7	SSW			
18-Jun-24	12:00	1.4	SW			
18-Jun-24	14:00	1.3	SSW			
18-Jun-24	15:00	1.4	S			
18-Jun-24	16:00	1.7	W			
18-Jun-24	17:00	1.8	W			
18-Jun-24	18:00	2.0	NW			
18-Jun-24	19:00	1.9	W			
18-Jun-24	20:00	1.7	W			
18-Jun-24	20.00	1.7	W			
18-Jun-24	21:00	1.4	WSW			
18-Jun-24	22:00	1.5	NW			
10-Juli-24	23.00	1.J	11 11			

June 2024			
Tabl	e II: Wind S	Speed and Directions	5
Date	Time	Wind Speed m/s	Direction
19-Jun-24	0:00	1.1	W
19-Jun-24	1:00	1.1	SW
19-Jun-24	2:00	1.6	WNW
19-Jun-24	3:00	0.9	SW
19-Jun-24	4:00	0.7	SSW
19-Jun-24	5:00	0.5	SE
19-Jun-24	6:00	0.5	SSW
19-Jun-24	7:00	0.8	SSE
19-Jun-24	8:00	1.0	S
19-Jun-24	9:00	1.9	WSW
19-Jun-24	10:00	1.6	SW
19-Jun-24	11:00	2.4	SW
19-Jun-24	12:00	2.1	WSW
19-Jun-24	13:00	2.1	W
19-Jun-24	14:00	1.7	SW
19-Jun-24	15:00	2.2	WSW
19-Jun-24	16:00	2.4	W
19-Jun-24	17:00	2.3	WNW
19-Jun-24	18:00	2.2	W
19-Jun-24	19:00	1.7	W
19-Jun-24	20:00	1.7	WSW
19-Jun-24	21:00	2.7	WNW
19-Jun-24	22:00	1.4	SW
19-Jun-24	23:00	2.0	WNW
20-Jun-24	0:00	1.7	WSW
20-Jun-24	1:00	1.5	W
20-Jun-24	2:00	1.5	WNW
20-Jun-24	3:00	1.1	W
20-Jun-24	4:00	0.8	SW
20-Jun-24	5:00	0.4	S
20-Jun-24	6:00	0.4	SSW
20-Jun-24	7:00	1.2	SW
20-Jun-24	8:00	1.4	SW
20-Jun-24	9:00	1.8	SW
20-Jun-24	10:00	1.4	S
20-Jun-24	11:00	1.7	SW
20-Jun-24	12:00	1.6	S
20-Jun-24	13:00	1.8	SW
20-Jun-24	14:00	1.6	SSW
20-Jun-24	15:00	1.6	SW
20-Jun-24	16:00	1.6	SW
20-Jun-24	17:00	3.0	W
20-Jun-24	18:00	3.0	WNW
20-Jun-24	19:00	2.7	WNW
20-Jun-24	20:00	1.6	SW
20-Jun-24	21:00	1.9	SW
20-Jun-24	22:00	1.2	SW
20-Jun-24	23:00	2.0	WSW

June 2024			
Г	able II: Wi	nd Speed and Direction	IS
Date	Time	Wind Speed m/s	Direction
21-Jun-24	0:00	2.3	W
21-Jun-24	1:00	1.4	W
21-Jun-24 21-Jun-24	2:00	1.0	WNW
21-Jun-24	3:00	0.5	SW
21-Jun-24	4:00	1.0	W
21-Jun-24	5:00	0.7	SSW
21-Jun-24	6:00	0.6	SW
21-Jun-24	7:00	0.9	SW
21-Jun-24	8:00	1.6	W
21-Jun-24	9:00	1.1	S
21-Jun-24	10:00	1.6	SW
21-Jun-24	11:00	2.3	W
21-Jun-24	12:00	2.0	SSW
21-Jun-24	13:00	1.8	SSW
21-Jun-24	14:00	2.1	WSW
21-Jun-24	15:00	1.8	S
21-Jun-24	16:00	1.6	SW
21-Jun-24	17:00	1.8	WSW
21-Jun-24	18:00	1.7	W
21-Jun-24	19:00	2.1	NW
21-Jun-24	20:00	1.9	WNW
21-Jun-24	21:00	2.3	WNW
21-Jun-24	22:00	2.0	W
21-Jun-24	23:00	2.8	WNW
22-Jun-24	0:00	2.5	WNW
22-Jun-24	1:00	1.9	W
22-Jun-24	2:00	2.4	W
22-Jun-24	3:00	2.2	NW
22-Jun-24	4:00	1.9	W
22-Jun-24	5:00	1.3	W
22-Jun-24	6:00	1.0	WSW
22-Jun-24	7:00	1.3	WSW
22-Jun-24	8:00	1.3	WSW
22-Jun-24	9:00	1.8	SW
22-Jun-24	10:00	1.8	SW
22-Jun-24	11:00	2.1	WSW
22-Jun-24	12:00	2.4	W
22-Jun-24	13:00	1.8	WSW
22-Jun-24	14:00	2.6	WSW
22-Jun-24	15:00	1.9	SW
22-Jun-24	16:00	2.0	WSW
22-Jun-24	17:00	2.6	W
22-Jun-24	18:00	1.8	WSW
22-Jun-24	19:00	2.0	WNW
22-Jun-24	20:00	2.1	WNW
22-Jun-24	21:00	1.8	W
22-Jun-24	22:00	<u> </u>	WSW WNW
22-Jun-24	23:00	1./	WV IN WV

June 2024										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
			W							
23-Jun-24	0:00	1.6 1.3	SSW							
23-Jun-24	1:00	0.6	SSW							
23-Jun-24	2:00									
23-Jun-24	3:00	0.6	SSE							
23-Jun-24	4:00	0.8	S							
23-Jun-24	5:00	0.4	SSE							
23-Jun-24	6:00	0.7	SSE							
23-Jun-24	7:00	1.5	W							
23-Jun-24	8:00	2.5	WNW							
23-Jun-24	9:00	2.4	W							
23-Jun-24	10:00	1.6	SSW							
23-Jun-24	11:00	1.8	SSW							
23-Jun-24	12:00	1.9	SSW							
23-Jun-24	13:00	1.7	S							
23-Jun-24	14:00	1.6	SSW							
23-Jun-24	15:00	1.6	SSW							
23-Jun-24	16:00	1.7	S							
23-Jun-24	17:00	1.9	SW							
23-Jun-24	18:00	1.8	WSW							
23-Jun-24	19:00	2.1	WSW							
23-Jun-24	20:00	1.8	W							
23-Jun-24	21:00	0.9	WSW							
23-Jun-24	22:00	1.8	W							
23-Jun-24	23:00	1.8	W							
24-Jun-24	0:00	1.8	W							
24-Jun-24	1:00	1.9	W							
24-Jun-24	2:00	2.6	WNW							
24-Jun-24	3:00	2.7	WNW							
24-Jun-24	4:00	1.6	WSW							
24-Jun-24	5:00	1.9	W							
24-Jun-24	6:00	2.3	W							
24-Jun-24	7:00	1.4	SW							
24-Jun-24	8:00	1.9	WSW							
24-Jun-24	9:00	1.7	SSW							
24-Jun-24	10:00	2.1	SW							
24-Jun-24	11:00	1.6	SSW							
24-Jun-24	12:00	2.5	WSW							
24-Jun-24	13:00	2.0	SW							
24-Jun-24	14:00	2.3	W							
24-Jun-24	15:00	1.8	SSW							
24-Jun-24	16:00	1.5	SW							
24-Jun-24	17:00	1.3	S							
24-Jun-24	18:00	1.9	WNW							
24-Jun-24	19:00	1.8	W							
24-Jun-24	20:00	2.2	WNW							
24-Jun-24	21:00	2.4	WNW							
24-Jun-24	22:00	2.4	WNW							
24-Jun-24	23:00	2.1	WNW							

June 2024										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
25-Jun-24	0:00	2.0	WNW							
25-Jun-24	1:00	2.0	WINW							
25-Jun-24	2:00	2.5	W							
25-Jun-24	3:00	2.4	WNW							
25-Jun-24	4:00	1.7	WSW							
25-Jun-24	5:00	1.7	WNW							
25-Jun-24	6:00	0.9	S							
25-Jun-24	7:00	1.4	WSW							
25-Jun-24	8:00	1.6	W							
25-Jun-24	9:00	1.6	SW							
25-Jun-24	10:00	2.1	SSW							
25-Jun-24	11:00	1.9	SSW							
25-Jun-24	12:00	2.3	SW							
25-Jun-24	13:00	2.7	WSW							
25-Jun-24	14:00	1.7	SSW							
25-Jun-24	15:00	1.8	WSW							
25-Jun-24	16:00	2.2	W							
25-Jun-24	17:00	1.9	WNW							
25-Jun-24	18:00	2.1	WSW							
25-Jun-24	19:00	0.6	S							
25-Jun-24	20:00	1.1	WSW							
25-Jun-24	21:00	1.2	SW							
25-Jun-24	22:00	0.8	S							
25-Jun-24	23:00	0.6	S							
26-Jun-24	0:00	0.7	SSE							
26-Jun-24	1:00	0.6	S							
26-Jun-24	2:00	0.6	S							
26-Jun-24	3:00	0.9	S							
26-Jun-24	4:00	0.6	S							
26-Jun-24	5:00	0.5	S							
26-Jun-24	6:00	0.5	SSE							
26-Jun-24	7:00	1.0	S							
26-Jun-24	8:00	1.3	SSW							
26-Jun-24	9:00	2.2	W							
26-Jun-24	10:00	2.4	W							
26-Jun-24	11:00	2.8	WSW							
26-Jun-24	12:00	1.7	SSW							
26-Jun-24	13:00	2.4	WSW							
26-Jun-24	14:00	1.3	S WSW							
26-Jun-24 26-Jun-24	15:00 16:00	<u> </u>	WSW							
26-Jun-24 26-Jun-24	17:00	1.4	WSW							
26-Jun-24 26-Jun-24	17:00	2.0	WNW							
26-Jun-24	19:00	1.7	WNW							
26-Jun-24	20:00	0.7	SW							
26-Jun-24	20.00	0.7	SSW							
26-Jun-24	22:00	0.5	SSW							
26-Jun-24	23:00	0.5	SSW							
20-juli-24	23.00	0.5	1100							

June 2024										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
	0:00	0.4	S							
27-Jun-24 27-Jun-24	1:00	0.4	S							
27-Jun-24 27-Jun-24	2:00	0.1	SSE							
27-Jun-24 27-Jun-24	3:00	0.6	SSE							
27-Jun-24 27-Jun-24	4:00	0.0	S							
27-Jun-24 27-Jun-24	5:00	0.7	S							
27-Jun-24 27-Jun-24	6:00	0.2	S							
	7:00	0.2	SSW							
27-Jun-24 27-Jun-24	8:00	1.4	W							
27-Jun-24 27-Jun-24	9:00	1.4	S							
	10:00	1.4	SSW							
27-Jun-24	1									
27-Jun-24	11:00	<u> </u>	SSW							
27-Jun-24 27-Jun-24	12:00	1.4	SSW							
27-Jun-24 27-Jun-24	13:00	1.6	SSW SW							
	14:00	1.7	S							
27-Jun-24	15:00									
27-Jun-24	16:00	1.7	SW							
27-Jun-24	17:00	1.8 2.7	WSW WNW							
27-Jun-24	18:00									
27-Jun-24	19:00	1.1	W							
27-Jun-24	20:00	1.2	W							
27-Jun-24	21:00	1.8	WNW							
27-Jun-24	22:00	1.9	WNW							
27-Jun-24	23:00	1.5	W							
28-Jun-24	0:00	1.6	WNW							
28-Jun-24	1:00	1.9	WNW							
28-Jun-24	2:00	2.0	WNW							
28-Jun-24	3:00	2.3	WNW							
28-Jun-24	4:00	2.1	W							
28-Jun-24	5:00	1.2	W							
28-Jun-24	6:00 7:00	0.5	SW							
28-Jun-24	7:00	1.2	WNW W							
28-Jun-24	8:00	1.6								
28-Jun-24	9:00	1.0 1.7	SE SW							
28-Jun-24	10:00		SW SW							
28-Jun-24	11:00	1.8								
28-Jun-24	12:00	2.0	SW							
28-Jun-24	13:00	2.3	SSW							
28-Jun-24	14:00	1.7	SSW							
28-Jun-24	15:00	1.9	SW							
28-Jun-24	16:00	1.8	SW							
28-Jun-24	17:00	1.8	SW							
28-Jun-24	18:00	2.0	W							
28-Jun-24	19:00	2.2	WNW							
28-Jun-24	20:00	1.7	WNW							
28-Jun-24	21:00	2.7	WNW							
28-Jun-24	22:00	2.0	WNW							
28-Jun-24	23:00	2.6	W							

June 2024										
Table II: Wind Speed and Directions										
Date	Time	Wind Speed m/s	Direction							
29-Jun-24	0:00	2.4	WNW							
29-Jun-24	1:00	2.2	WNW							
29-Jun-24	2:00	0.9	W							
29-Jun-24	3:00	0.6	S							
29-Jun-24	4:00	0.4	S							
29-Jun-24	5:00	0.7	SSW							
29-Jun-24	6:00	0.3	SSE							
29-Jun-24	7:00	0.7	SSE							
29-Jun-24	8:00	0.2	SE							
29-Jun-24	9:00	1.2	SSW							
29-Jun-24	10:00	1.3	SSE							
29-Jun-24	11:00	1.8	SSE							
29-Jun-24	12:00	2.0	SSE							
29-Jun-24	13:00	2.0	S							
29-Jun-24	14:00	1.6	SSE							
29-Jun-24	15:00	1.5	SE							
29-Jun-24	16:00	1.7	SSE							
29-Jun-24	17:00	1.3	SE							
29-Jun-24	18:00	1.5	SSW							
29-Jun-24	19:00	1.3	S							
29-Jun-24	20:00	1.3	SSE							
29-Jun-24	21:00	1.9	WSW							
29-Jun-24	22:00	1.1	SSW							
29-Jun-24	23:00	0.8	SSE							
30-Jun-24	0:00	1.1	SSE							
30-Jun-24	1:00	1.0	SSE							
30-Jun-24	2:00	1.3	SSE							
30-Jun-24	3:00	1.3	SE							
30-Jun-24	4:00	1.3	SSE							
30-Jun-24	5:00	1.0	S							
30-Jun-24	6:00	1.0	S							
30-Jun-24	7:00	1.1	SSE							
30-Jun-24	8:00	1.1	SSE							
30-Jun-24	9:00	1.2	S							
30-Jun-24	10:00	1.7	SSE							
30-Jun-24	11:00	2.2	SE							
30-Jun-24	12:00	2.2	SSE							
30-Jun-24	13:00	2.0	SSE							
30-Jun-24	14:00	1.9	SSE							
30-Jun-24	15:00	1.8	SSE							
30-Jun-24	16:00	1.9	S							
30-Jun-24	17:00	1.5	SSE							
30-Jun-24	18:00	1.1	SSE							
30-Jun-24	19:00	1.7	WSW							
30-Jun-24	20:00	1.5	WSW							
30-Jun-24	21:00	1.2	S							
30-Jun-24	22:00	1.1	S							
30-Jun-24	23:00	0.9	SSE							

June 2024						
Table	e II: Wind S	Speed and Directions	5			
Date Time Wind Speed m/s Direction						

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for June 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jun
2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun
2-J uli	J-Juli	1-hr TSP x 3 [AM2]	J-Juli	0-Juli	/-Juli	1-hr TSP x 3 [AM2]
		Noise [M3(A), M4 &				
	24-hr TSP [AM2(A)]	M5(C)]			24-hr TSP [AM2(A)]	
9-Jun	10-Jun	11-Jun	12-Jun	13-Jun		15-Jun
					1-hr TSP x 3 [AM2]	
					Noise [M3(A), M4 &	
				24-hr TSP [AM2(A)]		
16-Jun	17 Jun		19-Jun		21-Jun	22-Jun
10-Juli	17-Jun	18-Juli	19-Juli	1-hr TSP x 3 [AM2]	21-Jun	ZZ-JUN
				1-m 15f x 5 [Aw12]		
				Noise [M3(A), M4 &		
			24-hr TSP [AM2(A)]	M5(C)]		
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
			1-hr TSP x 3 [AM2]			
			Noise [M3(A), M4 &			
		24-hr TSP [AM2(A)]				24-hr TSP [AM2(A)]
20 1		24-11 15F [AW12(A)]	M5(C)]			24-01 15F [AWI2(A)]
30-Jun						
			•			-

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

\* The noise level limit is 65dB(A) during the exam period

### Air Quality Monitoring Station

### **Noise Monitoring Station**

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Tentative Impact Air and Noise Monitoring Schedule for July 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
		1-hr TSP x 3 [AM2]				
		Noise [M3(A), M4 &			24-hr TSP [AM2(A)]	
		M5(C)]				
7-Jul		9-Jul	10-Jul	11-Jul	12-Jul	13-Jul
	1-hr TSP x 3 [AM2]				1-hr TSP x 3 [AM2]	
	Noise [M3(A), M4 & M5(C)]			24-hr TSP [AM2(A)]		
14-Jul		16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
				1-hr TSP x 3 [AM2]		_ • • •
			24-hr TSP [AM2(A)]	Noise [M3(A), M4 &		
				M5(C)]		
21-Jul	22-Jul	23-Jul		25-Jul	26-Jul	27-Jul
			1-hr TSP x 3 [AM2]			
		24-hr TSP [AM2(A)]	Noise [M3(A), M4 & M5(C)]			
28-Jul	29-Jul		31-Jul			
		1-hr TSP x 3 [AM2]				
	24-hr TSP [AM2(A)]	Noise [M3(A), M4 & M5(C)]				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

\* The noise level limit is 65dB(A) during the exam period

### Air Quality Monitoring Station

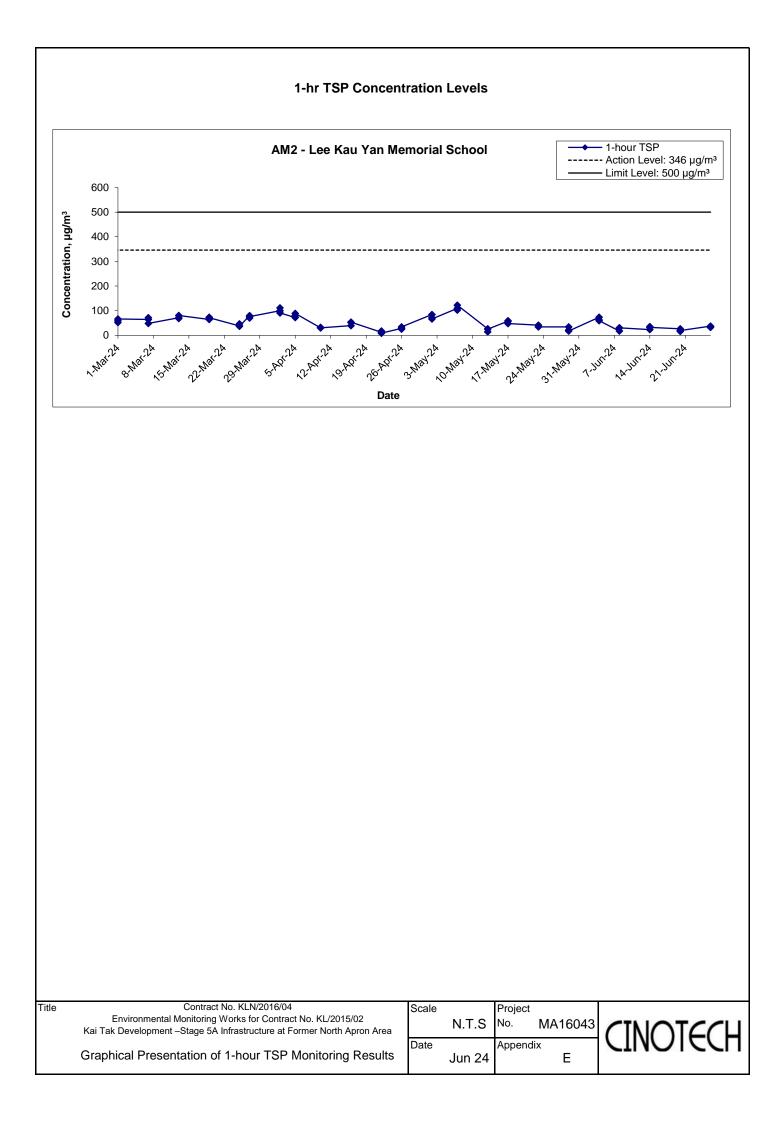
### **Noise Monitoring Station**

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

# Appendix E - 1-hour TSP Monitoring Results

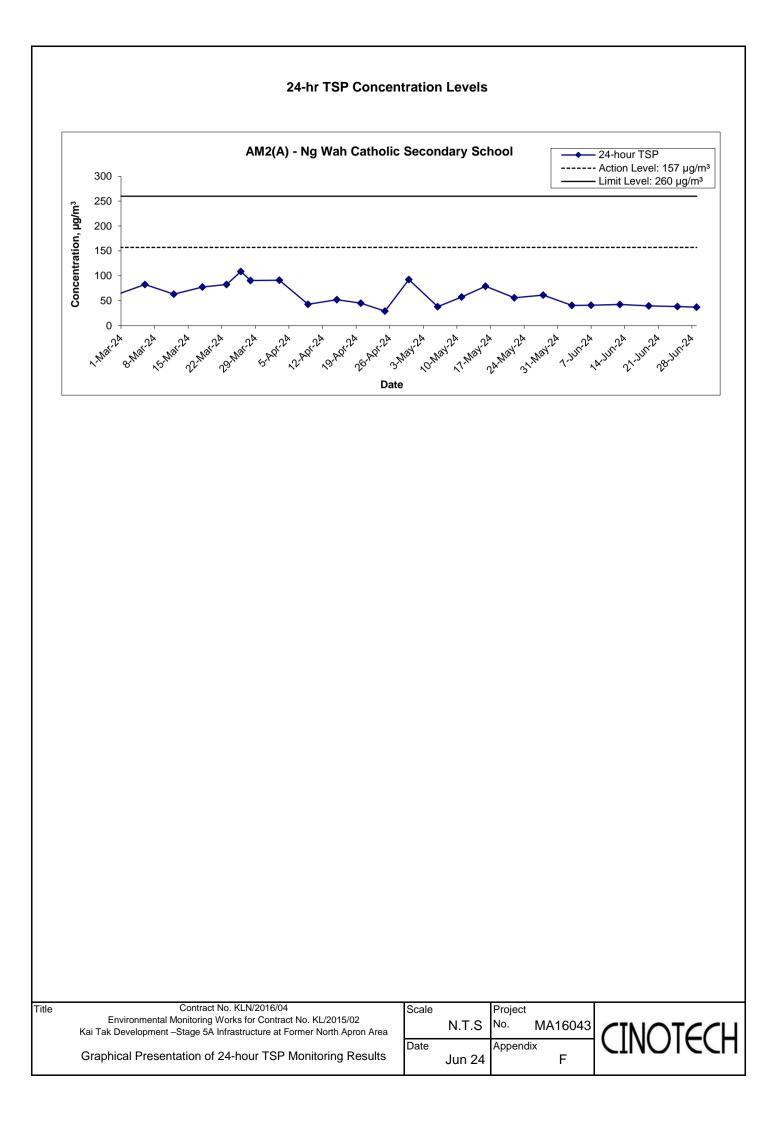
Location AM2 -	Location AM2 - Lee Kau Yan Memorial School										
Date	Time	Weather	Particulate Concentration (µg/m <sup>3</sup> )								
4-Jun-24	10:00	Cloudy	73.8								
4-Jun-24	11:00	Cloudy	63.0								
4-Jun-24	12:00	Cloudy	59.4								
8-Jun-24	10:55	Rainy	18.0								
8-Jun-24	11:55	Rainy	30.6								
8-Jun-24	12:55	Rainy	30.6								
14-Jun-24	11:30	Fine	23.4								
14-Jun-24	12:30	Fine	36.0								
14-Jun-24	13:30	Fine	32.4								
20-Jun-24	10:30	Fine	27.0								
20-Jun-24	11:30	Fine	16.2								
20-Jun-24	12:30	Fine	19.8								
26-Jun-24	10:00	Fine	37.8								
26-Jun-24	11:00	Fine	32.4								
26-Jun-24	12:00	Fine	36.0								
		Average	35.8								
		Maximum	73.8								
		Minimum	16.2								



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

## Appendix F - 24-hour TSP Monitoring Results

Start Date	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m³)
3-Jun-24	Cloudy	297.7	757.9	3.3590	3.4301	0.0710	12427.4	12451.4	24.0	1.22	1.22	1.22	1756.9	40.4
7-Jun-24	Cloudy	299.0	756.5	3.3913	3.4628	0.0715	12451.4	12475.4	24.0	1.22	1.22	1.22	1752.6	40.8
13-Jun-24	Rainy	302.8	754.3	3.3659	3.4396	0.0738	12475.4	12499.4	24.0	1.21	1.21	1.21	1741.4	42.4
19-Jun-24	Cloudy	303.0	755.2	3.3676	3.4366	0.0690	12499.4	12523.4	24.0	1.21	1.21	1.21	1741.8	39.6
25-Jun-24	Fine	303.3	758.7	3.3405	3.4075	0.0670	12523.4	12547.4	24.0	1.21	1.21	1.21	1744.5	38.4
29-Jun-24	Cloudy	302.8	756.3	3.3116	3.3760	0.0644	12547.4	12571.4	24.0	1.21	1.21	1.21	1743.4	36.9
													Min	36.9
													Max	42.4



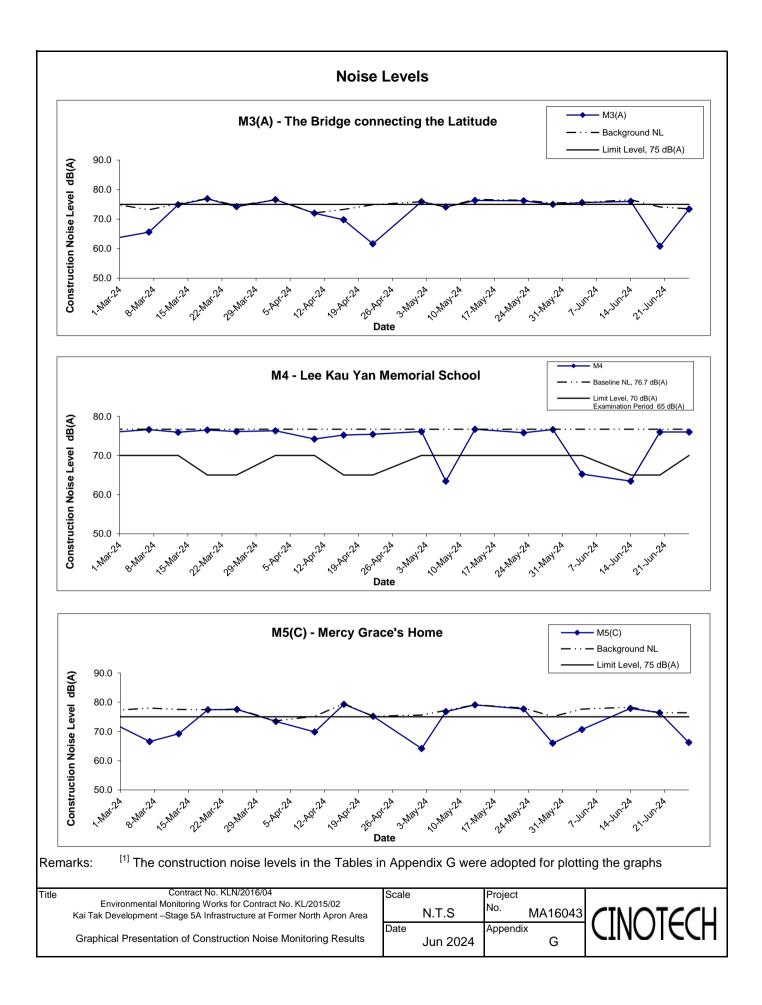
APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

## Appendix G - Noise Monitoring Results

Location M3(A) - The Bridge connecting The Latitude Unit: dB (A) (30-min)										
Date	Time	Weather					nstruction Noise Level			
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>		L <sub>eq</sub>		
4-Jun-24	11:16	Cloudy	75.6	77.7	73.0	75.6	75.6	Measured ≦ Background		
14-Jun-24	16:30	Cloudy	76.0	77.8	73.2	76.6	76.0	Measured ≦ Background		
20-Jun-24	9:00	Sunny	74.3	76.1	72.0	74.1	60.8			
26-Jun-24	10:34	Fine	73.4	75.1	71.0	73.5	73.4	Measured ≦ Background		

Location M4 -	Location M4 - Lee Kau Yan Memorial School											
		Init: dB (A) (30-min)										
Date	Time	Weather	Measured Noise Level Basel			Baseline Level	Coi	nstruction Noise Level				
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>					
4-Jun-24	13:18	Cloudy	77.0	78.4	75.1		65.2					
14-Jun-24	15:48	Cloudy	76.9	78.5	74.8	76.7	63.4					
20-Jun-24	14:57	Fine	76.0	77.5	74.2	10.1	76.0	Measured $\leq$ Baseline				
26-Jun-24	11:44	Fine	76.0	77.8	73.9		76.0	Measured $\leq$ Baseline				

Location M5(C) - Mercy Grace's Home								
			Unit: dB (A) (30-min)					
Date	Time	Weather	Mea	asured Noise I	_evel	Background Noise	Co	nstruction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>		L <sub>eq</sub>
4-Jun-24	14:35	Cloudy	78.4	80.7	74.3	77.6	70.7	
14-Jun-24	15:00	Fine	77.9	79.6	74.0	78.3	77.9	Measured ≤ Background
20-Jun-24	13:55	Fine	76.4	78.5	73.3	76.4	76.4	Measured ≤ Background
26-Jun-24	13:05	Fine	76.8	78.4	73.4	76.4	66.2	



APPENDIX H SUMMARY OF EXCEEDANCE

## **Appendix H – Summary of Exceedance**

**Exceedance Record for Contract No. KL/2015/02 Reporting Month:** June 2024

- (A) Exceedance Record for Air Quality (NIL in the reporting month)
- (B) Exceedance Record for Construction Noise (NIL in the reporting month)
- (C) Exceedance Record for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	240603
Date	03 June 2024 (Monday)
Time	14:00 - 16:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• No environmental deficiency was identified during previous site inspection.	

	Name	Signature	Date
Recorded by	Serena Ng	$\mathcal{C}$	03 June 2024
Checked by	Charles Fung	- Chran	05 June 2024

Checklist Reference Number	240612
Date	12 June 2024 (Wednesday)
Time	09:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
-	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• No environmental deficiency was identified during previous site inspection.	

	Name	Signature	Date
Recorded by	Charles Fung	- Chran	12 June 2024
Checked by	Serena Ng	$\langle  $	17 June 2024

Checklist Reference Number	240617
Date	17 June 2024 (Monday)
Time	14:00 - 16:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Noise	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Others	
	• No environmental deficiency was identified during previous site inspection.	

	Name	Signature	Date
Recorded by	Serena Ng	$\mathcal{L}$	17 June 2024
Checked by	Charles Fung	- Chran	19 June 2024

Checklist Reference Number	240627
Date	27 June 2024 (Thursday)
Time	14:00 - 16:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
-	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	• No environmental deficiency was identified during previous site inspection.	

	Name	Signature	Date
Recorded by	Serena Ng	$\mathcal{C}$	27 June 2024
Checked by	Charles Fung	- Chran	02 July 2024

APPENDIX J EVENT ACTION PLANS

Event/Action Plan for Air Quality

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

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

Event/Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation		
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;		
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation		
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.		
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be		
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after		
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)		
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;			
	check mitigation effectiveness.	(The above actions should be	4. Supervise the			
	(The above actions should be taken	taken within 2 working days after	implementation of remedial			
	within 2 working days after the	the exceedance is identified)	measures.			
	exceedance is identified)		(The above actions should be			
			taken within 2 working days			
			after the exceedance is			
			identified)			
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;		
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial		
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3		
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;		
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed		
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;		

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

Event/Action Plan for Landscape and Visual

EVENT	ACTION				
ACTION LEVEL	ET	IEC	ER	CONTRACTOR	
Design Check	<ol> <li>Check final design conforms to the requirements of EP and prepare report.</li> </ol>	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary</li> </ol>	1. Undertake remedial design if necessary		
Non-conformity on one occasion	<ol> <li>Identify Source</li> <li>Inform IEC and ER</li> <li>Discuss remedial actions with IEC, ER and Contractor</li> <li>Monitor remedial actions until rectification has been completed</li> </ol>	<ol> <li>Check report</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise ER on effectiveness of proposed remedial measures.</li> <li>Check implementation of remedial measures.</li> </ol>	<ol> <li>Notify Contractor</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Amend working methods</li> <li>Rectify damage and undertake any necessary replacement</li> </ol>	
Repeated Non-conformity	1. Identify Source Inform IEC and	1. Check monitoring report	<ol> <li>Notify Contractor</li> <li>Ensure remedial measures are properly</li> </ol>	<ol> <li>Amend working methods</li> <li>Rectify damage and</li> </ol>	

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

sEIA Ref.	Recommended Mitigation Measures	Implementation
SERT Ref.	Recommended Mitigation Acasules	Status
Construct	ion Air Quality	
S6.5	8 times daily watering of the work site with active dust emitting activities.	۸
S6.8	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation	٨
	measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.	
	• Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to	٨
	reduce dust emission.	
	• Misting for the dusty material should be carried out before being loaded into the vehicle. Any vehicle with an open load carrying area should	٨
	have properly fitted side and tail boards.	
	• 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	٨
	and covered by a clean tarpaulin.	
	• The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should	٨
	also be dampened if necessary before transportation.	
	• The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways	٨
	insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.	
	• Vehicle washing facilities should be provided at every vehicle exit point.	N/A(1)
	• 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	٨
	concrete, bituminous materials or hardcores.	
	• 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	٨
	surface wet.	
	• 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	٨
	three sides.	
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	٨

S6.8	•	DWFI compound for JVBC:	N/A
		A DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by	
		interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour	
		emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Desilting compound for KTN:	N/A
		Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and	
		KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour	
		emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Decking or reconstruction of KTN within apron area:	N/A
		It is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the	
		north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with nonodorous	
		fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more	
		than 16m.	
	•	Localised maintenance dredging:	N/A
		Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With	
		reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of	
		taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC	
		discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth	
		required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new	
		development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance	

	dredging operation.	
	Improvement of water circulation in KTAC and KTTS:	N/A
	600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially	
	improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.	
	<u>In-situ sediment treatment by bioremediation:</u>	
	Bioremediation would be applied to the entire KTAC and KTTS.	N/A
Construc	ction Noise	
S7.8	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar	٨
	Bender, Concrete Pump, Generator and Water Pump.	
S7.9	Good Site Practice:	
	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	٨
	• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	٨
	• 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	٨
	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	٨
	nearby NSRs.	
	• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction	٨
	activities.	
S7.9	Scheduling of Construction Works during School Examination Period	٨
S7.8	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A
S7.8	(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
	(ii) Provision of low noise surfacing in a section of Road L2 & L4	N/A

		so that swift actions could be taken in case of malfunction of unmanned facilities	
	•	For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided	N/A
	•	An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and	N/A
	•	Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;	N/A
	•	Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;	N/A
S8.8	The fo	llowing mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:	
Constru	ction Wa	ter Quality	
S7.8	Installa	ation of retractable roof or other equivalent measures	N/A
	(iv)	EFTS depot	N/A
	(iii)	Tunnel Ventilation Shaft	N/A
	(ii)	ESS	N/A
	(i)	SPS	N/A
S7.8	All the	ventilation fans installed in the below will be provided with silencers or acoustics treatment.	
		noise impacts from the slip road	
		alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic	
S7.8	(i)	avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other	٨
		less than 55m away from To Kwa Wan Road to no more than 25m above ground	
	(ii)	provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at	N/A
S7.8	(i)	avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or	N/A
		provide the facades with openable window.	
	(ii)	for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not	N/A
		class room facing Road L2 and L4; and	
S7.8	(i)	avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and Avoid the sensitive façade of	N/A
S7.8	Setbac	k of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
	(ii)	Setback of building about 5m from site boundary.	N/A
S7.8	(i)	Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and	N/A

S8.8	Construction Phase	
	Marine-based Construction	
	Capital and Maintenance Dredging for Cruise Terminal	
	Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	N/A
S8.8	Fireboat Berth, Runway Opening and Road T2	
	Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open water.	N/A
S8.8	Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production	N/A
	rate of 1,000m <sup>3</sup> per day using one grab dredger.	
S8.8	The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works.	N/A
	Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m <sup>3</sup> per day using one grab dredger.	
8.8	Dredging for Road T2 should be conducted at a maximum rate of 8,000m <sup>3</sup> per day (using four grab dredgers) whereas the sand filling should be	N/A
	conducted at a maximum rate of 2,000m3 per day (using two grab dredgers).	
8.8	Silt screens shall be applied to seawater intakes at WSD seawater intake.	N/A

S8.8	Land-based Construction	
	Construction Runoff	
	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	۸
	adequate maintenance of drainage systems to prevent flooding and overflow	۸
S8.8	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed	٨
	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	Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The	٨
	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	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m <sup>3</sup> capacity, are recommended as a	٨
	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 m <sup>3</sup> should be covered with tarpaulin or	٨
	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	٨
	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	٨
	be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty	

Appendix K – Summary of Implementation Schedule of Mitigation Measures for Co	<b>Construction Phase</b>
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	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	N/A(1)
	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	٨
	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	
	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps	۸
	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	٨
	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	٨
	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	٨
	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	
30.0	Siormwater Discharges	
	Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater	٨
	intakes	
S8.8	Debris and Litter	
58.8	Debris and Litter	
	In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of	۸
	contract, to ensure that site management 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.	۸
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	٨
	culvert / nullah.	
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be	٨
	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.	٨
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.	٨
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	٨
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts.	٨
	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.	٨
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	N/A
	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	N/A
	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.	N/A

S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	٨
S8.8	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	N/A
Constru	action Waste Management	
S9.5	Good Site Practices	
	It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations	
	for good site practices during the dredging activities include:	
	• Nomination of an approved person, such as a site manager, be responsible for good site practices, arrangements for collection and effective	٨
	disposal to an appropriate facility, of all wastes generated at the site.	
	Training of site personnel in proper waste management and chemical waste handling procedures.	٨
	• Provision of sufficient waste disposal points and regular collection for disposal.	٨
	• Appropriate measure to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting	٨
	wastes in enclosed containers.	
	• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	٨
S9.5	Waste Reduction Measures	
	Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and	
	design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	
	Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals	٨
	• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and	٨
	their proper disposal	
	• Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated	٨
	from other general refuse generated by the work force	
	Any unused chemicals or those with remaining functional capacity should be recycled	٨
	Proper storage and site practices to minimise the potential for damage or contamination of construction materials	٨

S9.5	Dredged Marine Sediment	
	The basic requirements and procedures for dredged mud disposal are specified under the ETWB TCW No. 34/2002. The management of the	N/A
	dredging, use and disposal of marine mud is monitored by the MFC, while the licensing of marine dumping is required under the Dumping at Sea	
	Ordinance and is the responsibility of the Director of Environmental Protection (DEP)	
S9.5	The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on	N/A
	their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would	
	require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must	
	be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by	
	MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated disposal site	
S9.5	It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged	
	have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report	
	to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites	
	and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine	
	sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality:	
	• Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the	N/A
	decks and exposed fittings of barges and hopper dredgers before the vessel is moved	
	• Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport	N/A
	barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as	
	specified by the DEP	
	• Barges or hopper barges should not be filled to a level that would cause the overflow of materials or sediment laden water during loading or	N/A
	transportation	
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:	
	• Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the	٨

transient stockpiles should be located away from waterfront or storm drains as far as possible	
Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric	٨
• Skip hoist for material transport should be totally enclosed by impervious sheeting	٨
• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site	٨
• 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	۸
concrete, bituminous materials or hardcores	
• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure	۸
dust materials do not leak from the vehicle	
• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials	٨
wet	
• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation	٨
from unloading	
When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less	٨
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 and Demolition Materials" should be included as one of the contractual requirements and implemented by an	
Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for	
auditing the results of the system.	
Chemical Waste	
(i) After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice	٨
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	
(ii) Maintenance of vehicles and equipment involving activities with potential of leakage and spillage should only be undertaken within the areas	۸
which are appropriately equipped to control these discharges.	
	<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric</li> <li>Skip hoist for material transport should be totally enclosed by impervious sheeting</li> <li>Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site</li> <li>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</li> <li>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</li> <li>All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet</li> <li>The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading</li> <li>When delivering inert C&amp;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&amp;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 and Demolition Materials" should to with waste. An Independent Environmental Checker should be responsible for auditing the results of the system.</li> <li>(i) 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 o</li></ul>

S9.5	General R	efuse	
	the contra	efuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by ctor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed ed area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing	^
	or leachin	g into the marine environment, or creating odour nuisance or pest and vermin problem	
Construct	ion Lands	cape and Visual	
S13.9	CM1	All existing trees should be carefully protected during construction.	٨
	CM2	Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to	۸
		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.	N/A(1)
	CM4	Erection of decorative screen hoarding.	۸

#### Remarks:

^	Compliance of mitigation measure
*	Recommendations were made during site audits but improved/rectified by the Contractor
#	Recommendations were made during site audits but has not yet been improved/rectified by the Contractor
•	Non-compliance but rectified by the Contractor
X	Non-compliance of mitigation measure
N/A	Not Applicable at this stage
N/A(1)	Not observed

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

#### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

### Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

EPD Complaint Ref No.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
17-34438	Dakota Drive and Olympic Avenue	23 October 2017	The complainant concerned about the dust emission when vehicle running on the dry surface outside Dakota Drive and Olympic Avenue. In addition, vehicles were not clear enough before leaving the construction site.	<ul> <li>In accordance with the information gathered in the investigation, construction activities were conducted with proper mitigation measures to minimize the dust impact arise from the construction site to the vicinity of this Project.</li> <li>Regular water spraying was provided to haul roads and unpaved areas within the site areas to reduce the dust impact arise from the construction site to the vicinity of this Project. The Contractor had also ensured vehicles and plants were wheel washed to be cleaned of mud and debris before leaving the construction site area. Therefore, the complaint is considered as non-project related.</li> <li>The following recommendations were made to further enhance the mitigation measures:</li> <li>Where practicable, to provide sheltered area on the top and three sides for stockpiles of dusty materials, or perform frequent water spraying so as to maintain the entire surface wet;</li> <li>Frequent checking and repair the gaps or broken tarpaulin sheets; and</li> <li>To provide a hard-surfaced road between any cleaning facility and the public Road</li> </ul>	Closed

**Complaint Log** 

**Remarks**: No complaint was received in the reporting month.

#### Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

#### Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

# Log Ref.Received DateDetails of Warning / Summons and Successful ProsecutionsInvestigation/Mitigation ActionStatusN/AN/AN/AN/AN/A

Warnings / Summons and Successful Prosecutions received

Remarks: No warning/summon and prosecution was received in the reporting month.

APPENDIX M SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Department:	CEDD
Contract No.:	KL/2015/02
Project :	Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



#### Monthly Summary Waste Flow Table for 2024

					-	-			A	As at 2 July 202	4
		Quantities o	f Inert C & D M	aterials Genera	ated Monthly		C	uantities of C 8	& D Wastes Gei	nerated Month	ly
Month	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g general refuse
	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
Jan	0.045	0	0	0	0.045	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0.081	0	0	0	0.081	0	0	0	0	0	0
Apr	0.009	0	0	0	0.009	0	0	0	0	0	0
May	0.036	0	0	0	0.036	0	0	0	0	0	0.007
June	0.09	0	0	0	0.09	0	0	0	0	0	0
Sub-total	70.471	0	0	0.406	70.065	0	0	0	0	0	2.954
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	70.471	0	0	0.406	70.065	0	0	0	0	0	2.954

		Forecast of T	Total Quantitie	s of C&D Mate	rials to be Gene	erated from the	e Contract*			
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m³)	(in '000m <sup>3</sup> )	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
72	0	0	1	71	0	0	0	0	0	3

Notes: (1) The performance targets are given in PS clause 6(14).

(2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.

(4) The Contractor shall also submit the latest forcast of the total amount of C&D materials exected to be generated from the Works, together with a

braskdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or excreeding 50,00 m<sup>3</sup>. (PS Cleuse 25.02A(7) refers).

APPENDIX N CONSTRUCTION PROGRAMME

#### Kai Tak Development

- Stage 5A Infrastructure At Former North Apron Area

# Bar Chart Programme

		202	?	202	3											2024	ļ										
	Anticipated Completion	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Removal of Traffic Deckings at Prince Edward Road East Outer Eastbound in front of Shek Ku Lung Road Playground	29-May-23																										
- Reinstatement of Shek Ku Lung Road Playground	26-Oct-23																										
Reinstatement of Footpath of Prince Edward Road East in front of Shek Ku Lung Road Playground	27-Mar-24																										
- Reinstatement of Stage 2	30-Nov-22																										
- Reinstatement of Stage 1	15-Mar-23																										
- Structural Works for LT2 & ST2	8-Feb-24																										
- Steel Works Erection for LT2 and ST2	8-Apr-24																										
- Finishing and E&M Works for LT2 and ST2	1-Oct-24																										
- Road Works of Road D1 (Olympic Ave)	30-Dec-24																										

# **Appendix B**

Monthly EM&A Report For Contract No. ED/2018/01 Kai Tak Development – Stage 4 infrastructure at the former runway and south apron



# **Environmental Monitoring and Audit Report**

for

# **Contract No. ED/2018/01 –**

# Kai Tak Development – Stage 4 infrastructure at the former runway and south apron

# Contract No.: EDO 15/2018

June 2024

(Version 1.1)

Certified By:	1
	(Environmental Team Leader)



Ref.: CEDKTDS4EM00\_0\_0365L.24

12 July 2024

By Post and Email

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

Attention: Ms. Fanny Lau

Dear Madam,

#### **Re: Contract No. ED/2018/01 – Kai Tak Development** Stage 4 Infrastructure at the Former Runway and South Apron

#### Monthly EM&A Report for June 2024

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for June 2024 (Version 1.1) certified by the ET Leader and provided to us via email on 12 July 2024.

Please be advised that we have no further comment on the captioned Monthly EM&A Report in accordance with Condition 3.3 of EP-337/2009 and Condition 3.2 of EP-445/2013/B.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

Y H Hui Independent Environmental Checker

c.c. CEDD Ka Shing Penta-Ocean Attn.: Mr. Jason Wong Attn.: Mr. Chan Pang Attn.: Mr. Daniel Ho Fax: 2739 0076 By Email Fax: 2572 4080

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Ramboll Hong Kong Limited 英環香港有限公司

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# **EXECUTIVE SUMMARY**

This is the 54<sup>th</sup> Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 30 June 2024.

#### **Breaches of Action and Limit Levels**

- 1) 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2) 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3) Construction noise monitoring was conducted as scheduled in the reporting month. No Action Level and Limit Level exceedance was recorded in the reporting month.
- 4) Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

No. of Exceedance Parameter Action Taken Action Level Limit Level N/A 1-hr TSP 0 0 24-hr TSP 0 0 N/A Construction noise 0 0 N/A

Table I Non-compliance Record in the Reporting Month

# Complaint log

5) No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table II.

|--|

Date of complaint received	Description of complaint	Investigation / Recommendations / Action taken	Close-out date / Status
NA	NA	NA	NA

Date of complaint received	Description of complaint	Investigation / Recommendations / Action taken	Close-out date / Status

# Notifications of summons and successful prosecutions

6) No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table III.

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

Table III Summary of summons and successful prosecutions in the Reporting Month

#### **Report changes**

7) There was no reporting change in the reporting month.

#### Key construction works in the reporting month

- 8) Major construction activities undertake during the reporting month included:
  - Installation of steel roof structure at Observation Deck
  - Granolithic finishing works of Harbour Steps
  - Construction of thrust block, wash-out chamber, manhole for drainage works & draw pit for cable works.
  - Construction of concrete structure of Floating Stage
  - Remedial works in Cell B of DCS Intake Box Culvert
  - Installation of internal partition of Temporary Management Office
  - Installation of internal partition of Toilet cum and Changing Room
  - Installation of drainage near Pumping Stations
  - Finishing work in Pumping Stations
  - Construction of U-channel and footing of Rain Shelter and Feature Shelter at Elevated Landscape Deck

#### **Future key issues**

9) The future key issues and potential impact in the coming month are given in Table IV.

Table IV Summary of Juture key issues and potential impact in the coming month					
Future key issues in the coming month	Potential impact				
Diversion of DCS Intake Box Culvert (For example, Cell 2)	Noise and Air Quality, Chemical and Waste Management				
Granolithic finishing works of Harbour Steps	Noise, Air and Water Quality				
Construction of Underground Utilities (For example, watermains, storm drain, sewage pipe, cable duct etc.)	Noise and Air Quality, Chemical and Waste Management				
Road works and utilities works at Road D3 (Metro Park Section) and Road L12d	Noise and Air Quality, Chemical and Waste Management				
Diversion of DCS Intake Box Culvert (For example, Cell 2)	Noise and Air Quality, Chemical and Waste Management				
Installation of lift cart and E&M works of Lift LT-1 & LT-2	Noise, Air and Water Quality				
Rising Main laying works	Noise and Air Quality, Chemical and Waste Management				
Finishing works of Pumping Stations	Noise and Air Quality, Chemical and Waste Management				
E&M installation of Pumping Stations	Noise and Air Quality, Chemical and Waste Management				
Installation of steel roof of Observation Deck, and Toilet cum and Changing Room	Noise, Air and Water Quality				

Table IV Summary of future key issues and potential impact in the coming month

# **1. INTRODUCTION**

### Project Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern 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/2018/01 Kai Tak Development stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two- lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 The new road connecting Shing Fung Road & Shing Kai Road has been open for public vehicles since 31 December 2022. Detailed location referring to Figure 5.
- 1.4 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.5 The construction work under ED/2018/01 comprises the EM&A Manuals (EIA Register Nos. AEIAR-130/2009 for Kai Tak Development and EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A) and Environmental Permit (EP) Nos. EP-337/2009 and Variation to the EP (VEP) No. EP-445/2013/B.
- 1.6 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register Nos. AEIAR-130/2009 for Kai Tak Development while no air quality and noise monitoring are proposed in EM&A Manual with EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A.

# **Project Organization**

1.7 The project organization chart 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.

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and Development	Project	Mr. Jason Wong	Senior Engineer	3579 2453	2739 0076
Development Department (CEDD)	Proponent	Ms. Chan Ka Yan	Engineer	3579 2458	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Ms. Fanny Lau	CRE	3911 4201	3911 4288
Ramboll Hong Kong Limited (Ramboll)	Independent Environmental Checker (IEC)	Mr. Y H Hui	IEC	3465 2850	3465 2899
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Chan Pang	ET Leader	6082 2973	2120 7752
Penta-Ocean Construction Co., Ltd. (Penta-Ocean)	Contractor	Mr. Tony Tang	Environmental Officer	9433 2628	3465 8898

Table 1.1 Contact Information of Key Personnel

# Works Area and Construction Programme

1.8 The construction works commenced on 20 January 2020. The construction programme of the Project is given in Appendix B.

### Construction works undertaken during reporting month

1.9 Major construction works of the Project in the reporting month are summarized in Table 1.2:

Installation of steel roof structure at Observation Deck	Granolithic finishing works of Harbour Steps	
Construction of thrust block, wash-out chamber, manhole for drainage works & draw pit for cable works	Construction of concrete structure of Floating Stag	
Remedial works in Cell B of DCS Intake Box Culvert	Installation of internal partition of Temporary Management Office	
Installation of internal partition of Toilet cum and Changing Room	Installation of drainage near Pumping Stations	
	Construction of U-channel and footing of Rain	
Finishing work in Pumping Stations	Shelter and Feature Shelter at Elevated Landscape	
	Deck	

Table 1.2 Major activities of the Project during reporting month

### **Submission Status under the Environmental Permits**

1.10 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009 and Variation to the EP (VEP) No. EP-445/2013/B are summarized in Table 1.3.

EP Condition EP-337/2009	EP Condition EP-445/2013/B	Submission	Submission Date		
Condition 1.11	Condition 1.12	Notification of Commencement Date of Construction of the Project	6 Jan 2020		
Condition 2.3	Condition 2.3	Management Organization of Main Construction Companies	9 Sep 2019		
Condition 2.3	Condition 2.3	Updated Management Organization of Main Construction Companies	17 Aug 2021		
Condition 2.4	Condition 2.4	Design Drawings	6 Jan 2020		
Condition 2.11	Condition 2.5	Landscape Mitigation Plans	13 Nov 2020		
Condition 2.1	Condition 2.5	Landscape Mitigation Plans (Revision 2)	18 May 2021		
NA	Condition 2.9	Detailed Design Plan of Traffic Noise Mitigation Measures	9 Dec 2022		
Condition 3.2	NA	Baseline Monitoring Report	2 Jan 2020		
Condition 3.2	NA	Revised Baseline Monitoring Report	28 Mar 2020		
Condition 3.3	Condition 3.2	Monthly EM&A Report (May 2024)	14 June 2024		

Table 1.3 Summary of Status of Required Submission of EPs

# 2. AIR QUALITY MONITORING

# **Monitoring Requirements**

2.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring shall be carried out during the construction phase of the Project. For regular impact monitoring, a sampling frequency of at least once in every six says will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

#### **Monitoring Locations**

2.2 Three designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at three air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 6.

Air Quality Monitoring Locations for the Project	Location of Measurement			
AM3 - Sky Tower	Podium floor near T7			
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Ground			
AM7 – Hong Kong Children's Hospital	Rooftop			

Table 2.1 Locations of Air Quality Monitoring Stations

- 2.3 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) while 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site.
- 2.4 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.
- 2.5 For those premises have property management company, ET sent the proposal to owner /

property management company and explained the purpose of environmental monitoring (refer to Appendix C – Apply permission for Environmental Monitoring). Figure 7 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting month.

2.6 Summary of the status of for proposed alternative monitoring locations for AM4(A) are given in Table 2.2.

<u>Table 2.2 Proposed alternative monitoring location</u>	ns JOF AMI4(A)		
Proposed alternative monitoring locations for M11	Status upto reporting month		
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022		
A2 - Freder Centre	No reply from building management office		
A3 - New Port Centre	No reply from building management office		
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.		
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.		
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.		
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.		
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.		
A9 – 2 - 28 Yin On Street	No property management company and could not apply the permission.		
A10 – 1 – 27 Yin On Street	No property management company and could not apply the permission.		
A11 - 2 - 28 Shim Luen Street	No property management company and could not apply the permission.		
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.		
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.		
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.		
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.		
A16 - 1 - 27 Pang Ching Street	No property management company and could not apply the permission.		
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.		
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.		
A19 - 2 - 28 Lun Cheung Street	No property management company and could not apply the permission.		
A20 - 1 - 27 Lun Cheung Street	No property management company and could		

Table 2.2 Proposed alternative monitoring locations for AM4(A)

Proposed alternative monitoring locations for M11	Status upto reporting month		
	not apply the permission.		
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.		
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.		
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.		

2.7 No update for the approval of monitoring relocation in the reporting month and ET will resume the impact monitoring once the alternative monitoring location for AM4(A) are confirmed.

### Monitoring Parameters, Frequency and Duration

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

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM3 - Sky Tower	Podium floor near T7			
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop	Ground	<ul> <li>24-hour average TSP</li> <li>1-hour</li> </ul>	<ul><li> 24 hours</li><li> 1 hour</li></ul>	<ul><li>Once every 6 days</li><li>Three times</li></ul>
AM7 - Hong Kong Children's Hospital	Rooftop	average TSP		every 6 days

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

- 2.9 The monitoring schedule for reporting month and next month is presented in Appendix D
- 2.10 Photographic records of the impact monitoring setup are shown in Appendix E.

#### **Monitoring Equipment**

2.11 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 2.4 summarizes the equipment to be used in the air quality monitoring.

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

Table 2.4 Air Quality Monitoring Equipment

- 2.12 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).
- 2.13 Calibration certificates, catalogue of equipment are given in Appendix F.

### Monitoring Methodology and QA/QC Procedure

### 24-hour TSP Monitoring

### Operating/Analytical Procedures

2.14 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.
- 2.15 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.16 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.
- 2.17 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.
- 2.18 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.
- 2.19 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.
- 2.20 The shelter lid was closed and secured with the aluminium strip.
- 2.21 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).
- 2.22 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

2.23 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

2.24 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

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

• To validity 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

- 2.26 Wind Anemometer was installed at the roof-top of AM7 Hong Kong Children's Hospital with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.27 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.

2.28 The wind data monitoring equipment will be re-calibrated at least once every six months.

- 2.29 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.30 Details of weather information during the monitoring period are shown in Appendix G.

### Action and Limit Levels

2.31 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.5 and Table 2.6 respectively.

Table 2.5 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
24-hour average TSP	AM3	182	260
	AM4(A)	187	260
	AM7	181	260

Table 2.6 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
1-hour average TSP	AM3	297	500
	AM4(A)	326	500
	AM7	315	500

### **Impact Air Quality Monitoring results**

- 2.32 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designed air quality monitoring stations are summarized in Table 2.7 and Table 2.8 respectively.
- 2.33 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) while 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

Air Monitoring Station	Average TSP Concentration, $\mu g/m^3$	Range, µg/m <sup>3</sup>	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM3	47	29 - 81	182	260
AM4(A)	/	/ _ /	187	260
AM7	48	25 - 86	181	260

Table 2.7 Summary of 24-hour average TSP Monitoring Data during the reporting month

Table 2.8 Summary of 1-hour average TSP Monitoring Data during the reporting month

Air Monitoring Station	Average TSP Concentration, $\mu g/m^3$	Range, µg/m <sup>3</sup>	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM3	49	30 - 83	297	500
AM4(A)	61	39 - 95	326	500
AM7	54	37 - 90	315	500

- 2.34 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.35 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix H and Appendix I respectively.
- 2.36 The Event and Action Plan is provided in Appendix J.
- 2.37 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

### 3. NOISE MONITORING

### **Monitoring Requirements**

- 3.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring, L<sub>Aeq, 30-minute</sub>, for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring will be carried out during the respective restricted hours periods.

### **Monitoring Locations**

3.4 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting month. Table 3.1 describes the noise monitoring locations, which are also depicted in Figure 8.

 Noise Monitoring Locations for the Project
 Location of Measurement

 M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop
 Ground (Façade)

 M12 - Hong Kong Children's Hospital
 Rooftop (Façade)

Table 3.1 Locations of Noise Monitoring Stations

- 3.5 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022.
- 3.6 ET approached the potential sensitive receivers for monitoring station relocation since May 2022. ET conducted site visit in nearby area and found that there was no property management company in most of the nearby premises and could not approach the residents regarding the environmental monitoring. No permission can be applied for environmental monitoring.

- 3.7 For those premises have property management company, ET sent the proposal to owner / property management company and explained the purpose of environmental monitoring (refer to Appendix C Apply permission for Environmental Monitoring). Figure 9 shows the proposed alternative monitoring locations. No permission of setup and entry is received until the reporting month.
- 3.8 Summary of the status of for proposed alternative monitoring locations for M11 are given in Table 3.2.

Table 3.2 Proposed alternative monitoring locations for M11				
Proposed alternative monitoring locations for M11	Status upto reporting month			
A1 - The Lok Sin Tong Modular Social Housing Scheme	Rejected application on 13 Oct 2022			
A2 - Freder Centre	No reply from building management office			
A3 - New Port Centre	No reply from building management office			
A4 - 112 - 138 To Kwa Wan Road	No property management company and could not apply the permission.			
A5 - 2 - 26 Hok Ling Street	No property management company and could not apply the permission.			
A6 - 1 - 27 Hok Ling Street	No property management company and could not apply the permission.			
A7 - 2 - 28 Tsun Fat Street	No property management company and could not apply the permission.			
A8 - 1 - 27 Tsun Fat Street	No property management company and could not apply the permission.			
A9 – 2 - 28 Yin On Street	No property management company and could not apply the permission.			
A10 - 1 - 27 Yin On Street	No property management company and could not apply the permission.			
A11 - 2 - 28 Shim Luen Street	No property management company and could not apply the permission.			
A12 - 1 - 27 Shim Luen Street	No property management company and could not apply the permission.			
A13 - 2 - 28 Hung Wan Street	No property management company and could not apply the permission.			
A14 - 1 - 27 Hung Wan Street	No property management company and could not apply the permission.			
A15 - 2 - 28 Pang Ching Street	No property management company and could not apply the permission.			
A16 - 1 - 27 Pang Ching Street	No property management company and could not apply the permission.			
A17 - 2 - 28 Ying Yeung Street	No property management company and could not apply the permission.			
A18 - 1 - 27 Ying Yeung Street	No property management company and could not apply the permission.			
A19 - 2 - 28 Lun Cheung Street	No property management company and could			

Table 3.2 Proposed alternative monitoring locations for M11

Proposed alternative monitoring locations for M11	Status upto reporting month
	not apply the permission.
A20 - 1 - 27 Lun Cheung Street	No property management company and could not apply the permission.
A21 - 2 - 28 Luk Ming Street	No property management company and could not apply the permission.
A22 - 1 - 27 Luk Ming Street	No property management company and could not apply the permission.
A23 - 2 - 28 Fung Yi Street	No property management company and could not apply the permission.

3.9 No update for the approval of monitoring relocation in the reporting month and ET will resume the impact monitoring once the alternative monitoring location for M11 are confirmed.

### **Monitoring Parameters, Frequency and Duration**

3.10 The noise monitoring locations and monitoring frequency are listed in Table 3.3.

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*		$L_{Aeq}, L_{A10}$ and $L_{A90}$	30 - minutes measurement at each monitoring station between 0700 - 1900 hrs on normal weekdays
M12 - Hong Kong Children's Hospital	Rooftop (Façade)		(Monday to Saturday) at frequency of once per week.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022.

3.11 The monitoring schedule for reporting month and next month is presented in Appendix D.

3.12 Photographic records of the monitoring setup are shown in Appendix E.

#### **Monitoring Equipment**

3.13 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 3.4 summarizes the equipment to be used in the noise monitoring.

8 1 1		
Equipment	Model	Quantity
Sound Level Meter	RION NL52	2
Sound Level Calibrator	RION NC 74	2
Air Flowmeter	TSI TA440 Air Velocity	1

Table 3.4 Noise Monitoring Equipment

3.14 Calibration certificates, catalogue of equipment are given in Appendix K.

### Monitoring Methodology and QA/QC Procedure

- 3.15 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.
- 3.16 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.
- 3.17 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.18 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.
- 3.19 Noise level was recorded.
- 3.20 Recorded any activities that may generate noise during measurement period.

### **Maintenance and Calibration**

3.21 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at

quarterly intervals.

- 3.22 The sound level meter and sound calibrator were calibrated annually.
- 3.23 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.

### **Action and Limit Levels**

3.24 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.5.

Limit Noise Monitoring **Baseline** Noise Time Period Action Level Station Levels, dB (A) Level 0700 – 1900 on M11 68.3 When one documented 75 dB(A) normal weekdays complaint is received.

Table 3.5 Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring

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.

61.9

### **Impact Noise Monitoring results**

M12

- 3.25 Impact noise monitoring results at the designed noise monitoring stations are summarized in Table 3.6 respectively.
- 3.26 Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.

Noise Monitoring Station	Measured L <sub>Aeq, 30-min</sub> , Average, dB(A)	Measured L <sub>Aeq, 30-min</sub> , Range, dB(A)	Action Level	Limit Level <sup>^</sup>
M11	73.0	71.8 - 73.9	When one documented	75
M12	66.8	63.0 - 68.9	complaint is received	dB(A)

Table 3.6 Summary of Noise Monitoring Data during the reporting month

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.

- 3.27 There were no Action Level exceedance of noise monitoring and Limit Level exceedance of  $L_{Aeq}$ ,  $_{30min}$  recorded during the reporting month.
- 3.28 Graphical presentation and detailed monitoring results are shown in Appendix L.
- 3.29 The Event and Action Plan is provided in Appendix J.
- 3.30 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

# 4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 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 4.1 to Table 4.3.

Table 4.1 Comparison of 24-hour average TSP Monitoring Data with EIA predictions

Air Monitoring Station	ASR No. in EIA report	Predicted Cumu 24-hour av concen Scenario 1 (Mid 2009 to Mid 2013), µg/m <sup>3</sup>	e	Measured 24-hr average TSP in Reporting Month (June 2024) µg/m <sup>3</sup>
AM3 - Sky Tower	A40^	106	138	29 - 81
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43^	123	195	/ _ /
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	25 - 86

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.

Table 4.2 Comparison of 1-hour average TSP Monitoring Data with EIA predictions

Table 112 Comparison of Thomas and a second and the second				
		Predicted Cumulative Maximum 1-hour average TSP concentration		Measured 1-hr average TSP in
Air Monitoring Station	ASR No. in EIA report	Scenario 1 (Mid 2009 to	Scenario 2 (Mid 2013 to	Reporting Month (June 2024)
		Mid 2013), $\mu g/m^3$	Late 2016), $\mu g/m^3$	$\mu g/m^3$
AM3 - Sky Tower	A40	217^	247^	30 - 83
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43	283^	409^	39 - 95
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	37 - 90

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (June 2024) L <sub>Aeq, 30min</sub> , dB(A)		
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop <sup>*</sup>	N18	50 - 76*	71.8 - 73.9		
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	63.0 - 68.9		

*Table 4.3 Comparison of Noise Monitoring Data with EIA predictions* 

Note:

\* Prediction results are given in the Table 3.20 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

\*Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

- 4.2 24-hr TSP monitoring result at AM3 were recorded lower than the prediction in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.3 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.4 1-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the prediction in the EIA Report. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.5 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.6 Noise monitoring results at M11 were recorded lower than the prediction in the EIA Report.

Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

4.7 No prediction in the EIA Report for noise monitoring results at M12.

### 5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009 and AEIAR-170/2013), 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.

### **Results and Observations**

- 5.2 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.
- 5.3 Site inspections were conducted on 6, 11, 20 and 27 June 2024 in the reporting month.
- 5.4 The summaries of site audits are attached in Table 5.1.

 Table 5.1 Summary of observations of Landscape and Visual impact during the reporting month

 L
 Close-optimized

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
06 June 2024	No	NA	NA
11 June 2024	No	NA	NA
20 June 2024	No	NA	NA
27 June 2024	No	NA	NA

- 5.5 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.6 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix N shall be performed.

## 6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

### **Site Inspection**

- 6.1 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.
- 6.2 Site inspections were conducted on 6, 11, 20 and 27 June 2024 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
06 June 2024	No	NA	NA
11 June 2024	Observation: Waste (C&D & Domestic) found at pumping station & harbour step area should be removed timely.	Action Taken: Waste (C&D & Domestic) found at pumping station & harbour step area have been removed timely.	Closed-out on 11 June 2024

Table 6.1 Summary of site inspections observations during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
	Observation: Fencing in tree protection zone shall be maintained properly without any gap for unauthorized entry. Construction materials inside the protection zone is not allowed.	Action Taken: Fencing in tree protection zone has been maintained properly without any gap for unauthorized entry. Construction materials inside the protection zone is not allowed.	Closed-out on 20 June 2024
20 June 2024	No	NA	NA
27 June 2024	Observation:           The NRMM Label should be displayed on the PME at pumping station.	Action Taken: The NRMM Label have been displayed on the PME at pumping station.	Closed-out on 04 July 2024
2024	Observation:           The accumulation wastes should be removed at site office.	Action Taken: The accumulation wastes have been removed at site office.	Closed-out on 04 July 2024

### **Status of Waste Management**

- 6.4 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting month is shown in Appendix O.
- 6.5 The Contractor was registered as a chemical waste producer for the Project. 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.

### **Status of Environmental Licenses, Notification and Permits**

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for the Project is shown in Table 6.2.

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Environmental Permit under EIAO	EP-337/2009	23 Apr 2009	N/A
Environmental Permit under EIAO	EP-445/2013/B	3 May 2022	N/A
Construction Dust Notification under APCO	445956	6 Jun 2019	N/A
Wastewater Discharge License under WPCO	WT00034610-2019	26 Sep 2019	30 Sep 2024
Waste Disposal Billing Account	7034450	28 Jun 2019	N/A
Registration as a Chemical Waste Producer	5218-286-P3182-03	18 Jul 2019	N/A
Construction Noise Permit	GW-RE0525-24	30 Apr 2024	29 Oct 2024
	GW-RE0526-24	30 Apr 2024	29 Oct 2024
	GW-RE0063-24	30 Jan2024	28 Jul 2024
	GW-RE0064-24	05 Feb 2024	04 Jul 2024
	GW-RE0082-24	14 Feb 2024	13 Aug 2024
	GW-RE0445-24	21 Apr 2024	20 Oct 2024
	GW-RE0570-24	10 May 2024	09 Nov 2024

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

### **Implementation Status of Environmental Mitigation Measures**

6.7 The Contractor has implemented environmental mitigation measures and requires as stated in the EIA reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in Appendix P.

6.8 In response to the site audit findings, the Contractor carried out corrective actions with summary given in Appendix P.

### **Environmental Complaint and Non-compliance**

6.9 No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table 6.3.

### Table 6.3 Summary of complaints in the Reporting Month

Date of complaint received	Description of complaint	Investigation / Recommendations / Action taken	Close-o ut date / Status
NA	NA	NA	NA

6.10 Complaint log and Complaint Investigation report are shown in Appendix Q.

### Notifications of summons and successful prosecutions

6.11 No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table 6.4.

Table 6.4 Summary of summons and successful prosecutions in the Reporting Month

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

6.12 The summaries of cumulative environmental complaint, warning, summon and notification of

successful prosecution for the Project is presented in Appendix Q.

### 7. FUTURE KEY ISSUES

### **Construction Programme in the coming month**

7.1 The major construction activities and potential impacts in the next reporting month as follow:

<u>Table 7.1 Summary of juture key issues and potential impact in the coming month</u>						
Future key issues in the coming month	Potential impact					
Diversion of DCS Intake Box Culvert (For example, Cell 2)	Noise and Air Quality, Chemical and Waste Management					
Granolithic finishing works of Harbour Steps	Noise, Air and Water Quality					
Construction of Underground Utilities (For example, watermains, storm drain, sewage pipe, cable duct etc.)	Noise and Air Quality, Chemical and Waste Management					
Road works and utilities works at Road D3 (Metro Park Section) and Road L12d	Noise and Air Quality, Chemical and Waste Management					
Diversion of DCS Intake Box Culvert (For example, Cell 2)	Noise and Air Quality, Chemical and Waste Management					
Installation of lift cart and E&M works of Lift LT-1 & LT-2	Noise, Air and Water Quality					
Rising Main laying works	Noise and Air Quality, Chemical and Waste Management					
Finishing works of Pumping Stations	Noise and Air Quality, Chemical and Waste Management					
E&M installation of Pumping Stations	Noise and Air Quality, Chemical and Waste Management					
Installation of steel roof of Observation Deck, and Toilet cum and Changing Room	Noise, Air and Water Quality					

Table 7.1 Summary of future key issues and potential impact in the coming month

- 7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:
  - Sufficient watering of the works site with the active dust emitting activities,
  - Limitation of the speed for vehicles on unpaved site roads,
  - Properly cover the stockpiles,
  - Good maintenance to the plant and equipment,
  - Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
  - Provide movable noise barriers,
  - Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
  - Well maintain the drainage system to prevent the spillage of wastewater during heavy

rainfall,

- Onsite waste sorting and implementation of trip ticket system,
- Good management and control on construction waste reduction,
- Erection of decorative screen hoarding,
- Strictly following the Environmental Permits and Licenses, and
- Provide sufficient mitigation measures as recommended in Approved EIA Reports.

### **Environmental Site Inspection and Monitoring Schedule for next month**

7.3 The tentative schedule for weekly site inspection and air quality and noise monitoring in the next month is provided in Appendix D.

### 8. CONCLUSIONS

- 8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 8.2 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since1 Sept 2022. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.
- 8.5 No complaint was received in the reporting month.
- 8.6 No notification of summons and successful prosecutions was received in the reporting month.

## Figure

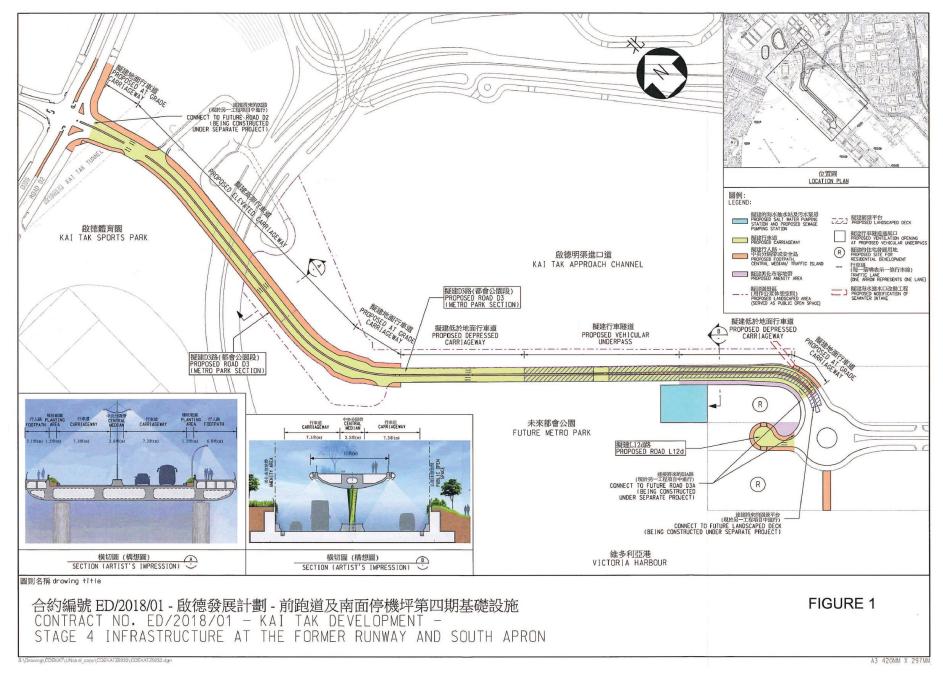


Figure 1 – Proposed works of Contract No. ED/2018/01

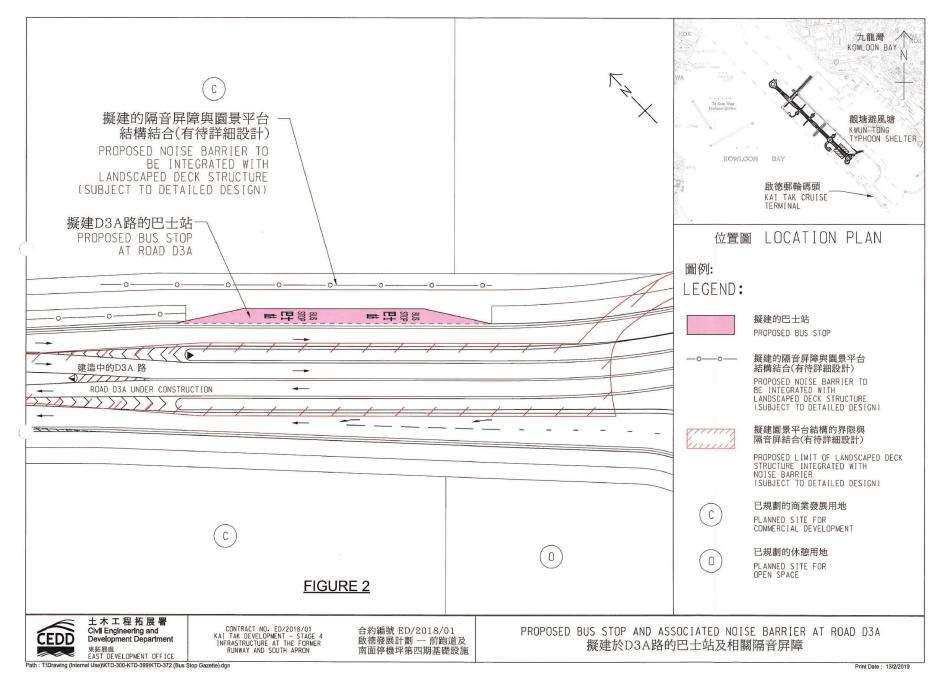


Figure 2 - Proposed Bus Stop And Associated Noise Barrier At Road D3A

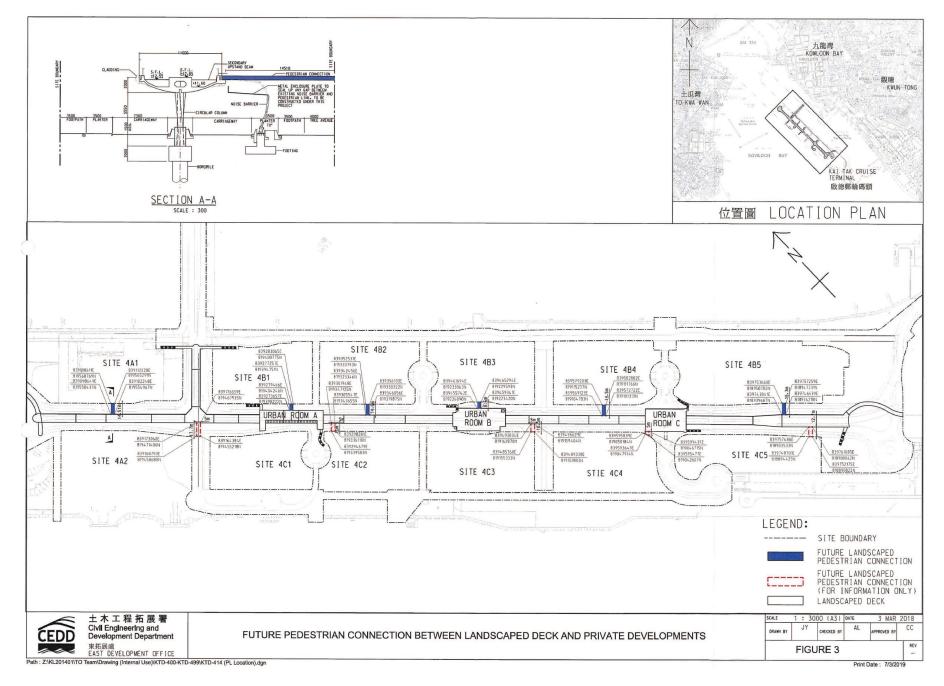


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

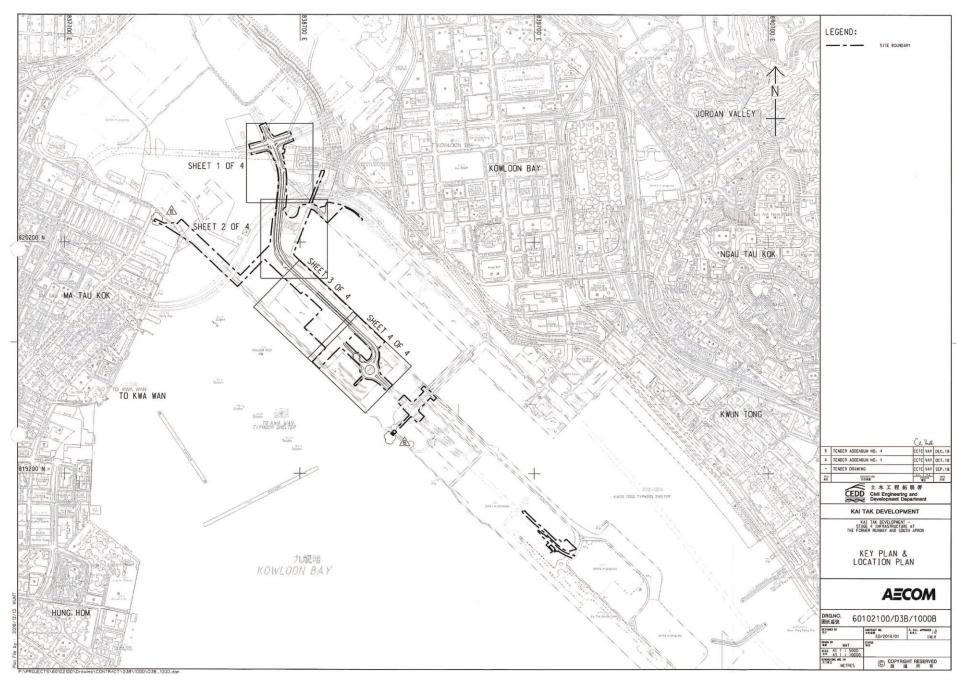


Figure 4 – Site Layout Plan

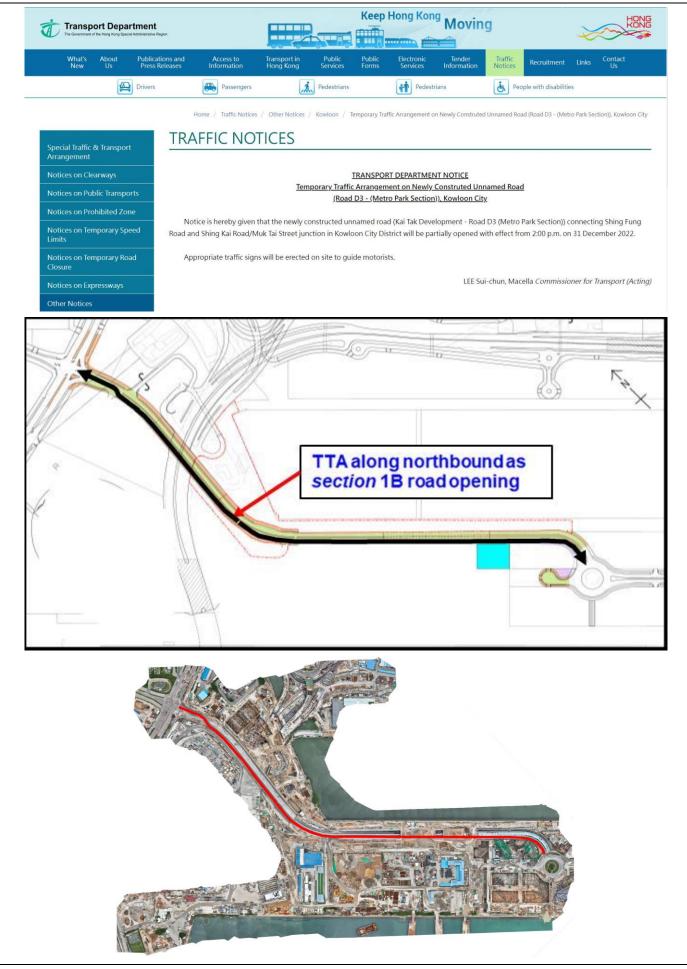
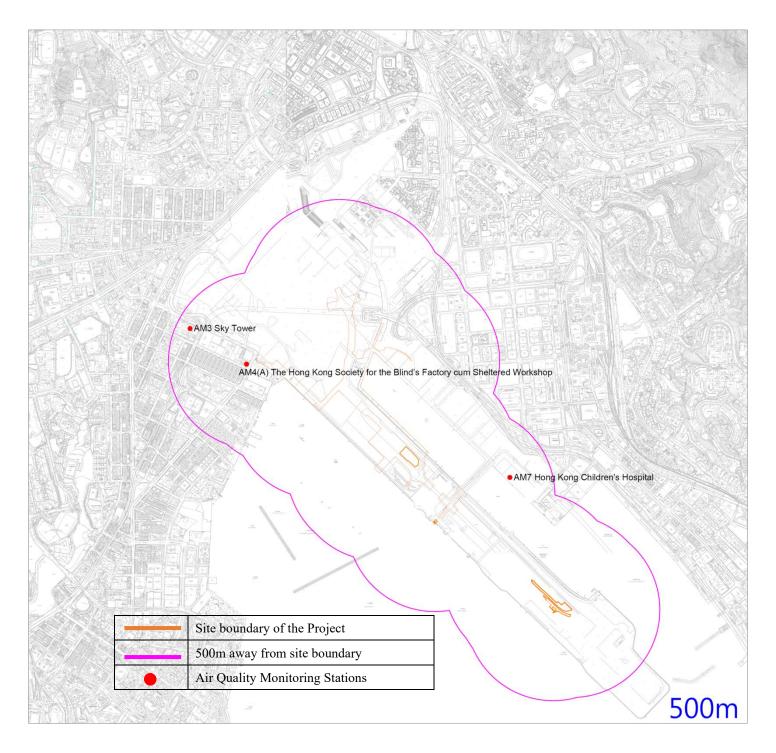
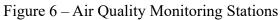


Figure 5 – New Opened Road on 31 December 2022





\* Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

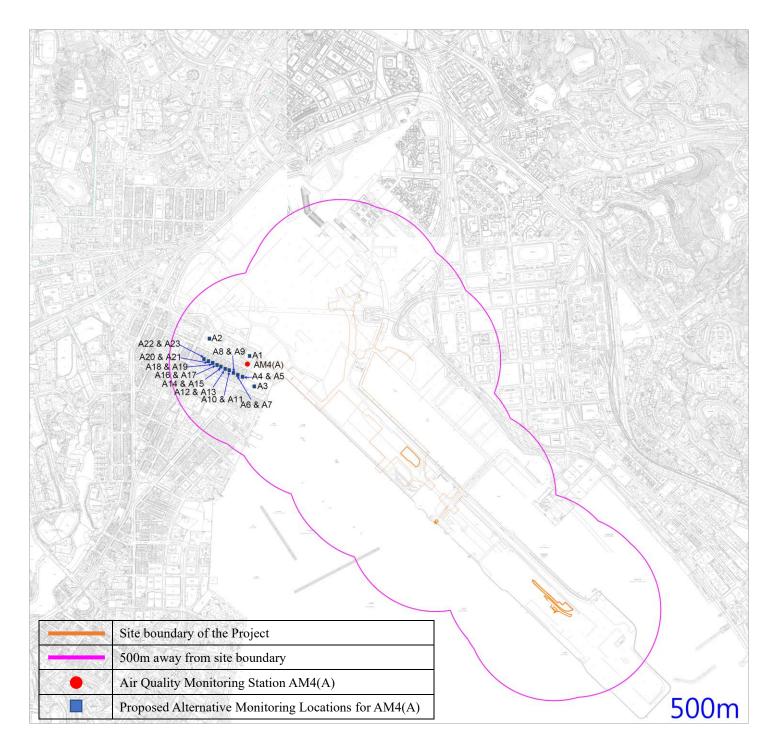


Figure 7 – Proposed Alternative Monitoring Locations for AM4(A)

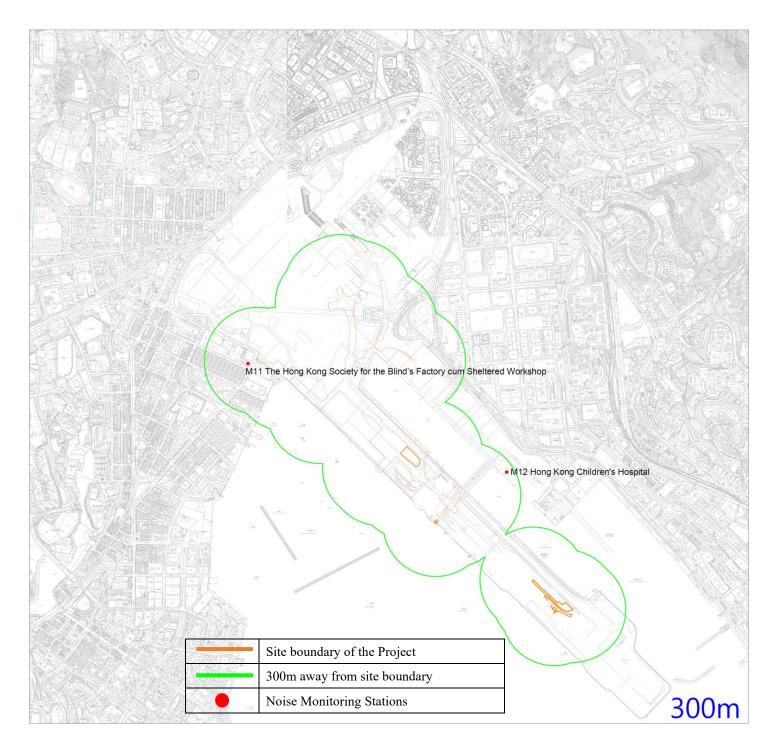


Figure 8 – Noise Monitoring Stations

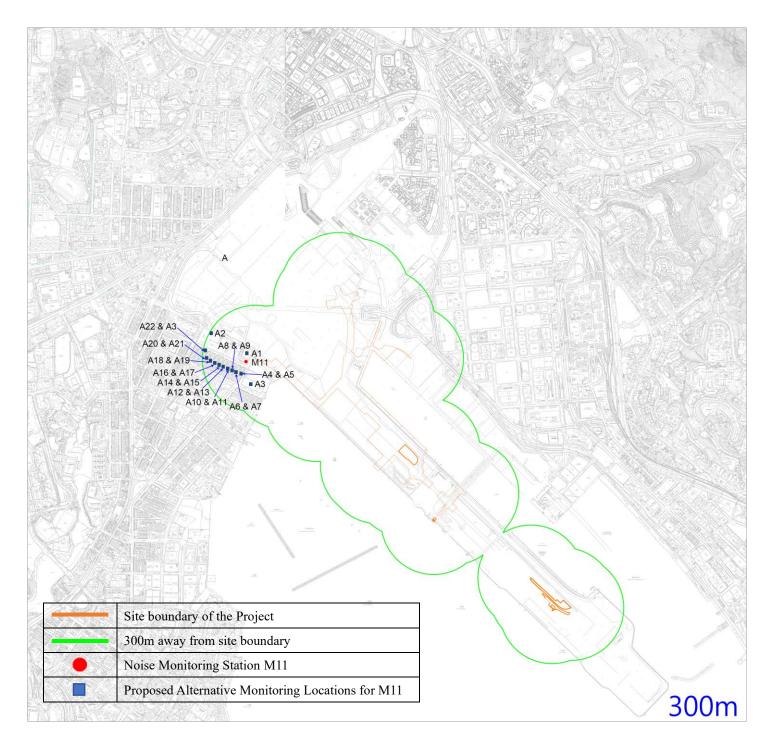
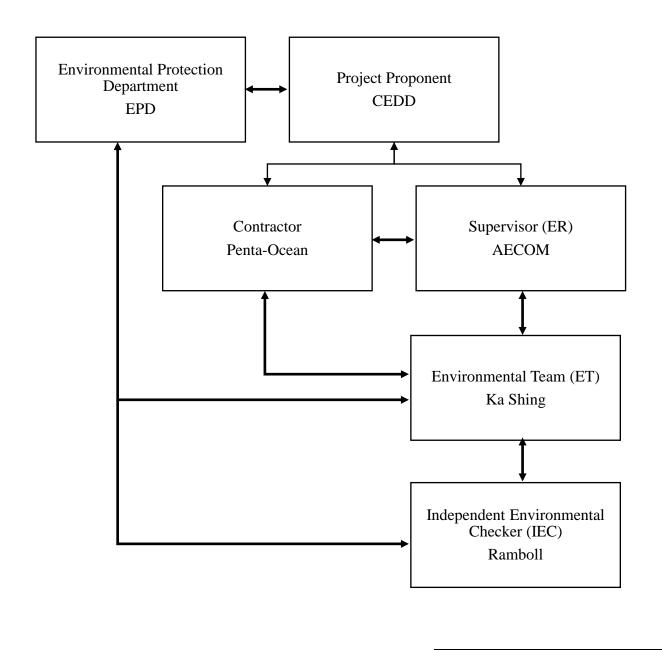
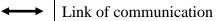


Figure 9 – Proposed Alternative Monitoring Locations for M11

Appendix A – Organization Chart of EM&A Team



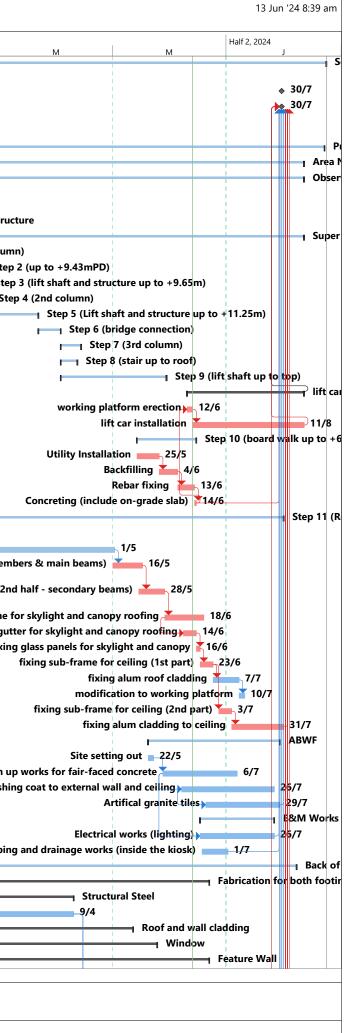


## **Appendix B – Construction Programme**

Penta-Ocean Construction Co., Ltd.

#### Project: ED201801 - Kai Tak Development - Stage 4 Infrastructure at the Former Runway & South Apron Section 6C with critcal path (1 Feb 2024)

			,		Sectio	on 6C with critca	l path (1 Feb 2024)		·	
WBS	Task Name	Task Calend	Duration	Start	Finish	Predecessors	Successors	Total Slack	N	Half 1, 2024
1	Section 6C - Completion of remaining works within Parts 1, 2A,			1 Sep '22	23 Aug '24			0 days?		J 
	2B, 2E, 3A to 3I, 4, 7B, 8, 9, 9A, 9B and 10 including landscape		<b>A</b> 1		00 I I I0 I					
1.1	Summary	C2 C2	0 days	30 Jul '24	30 Jul '24 30 Jul '24	26 60 60 27	-	0 days		
1.1.1	Planned Section 6D completion (with Inclement weather upto end May 2024)	62	0 days	30 Jul '24	30 Jul 24	26,68,60,37,	,	-23 days	<b>\$</b>	
1.2	Twin DN 1400DI pipe by DCS - 1002 Contractor	C2	376 days	1 Sep '22	11 Sep '23			325 days	s ipe by DCS - 1002 Conti	ractor
1.3	Promenade	C2	-	10 Jan '23	22 Aug '24			1 day		l I
1.3.1	Area No.1	C2	558 days	10 Jan '23	11 Aug '24			12 days	s	 
1.3.1.1	Observation Deck	C2	558 days	10 Jan '23	11 Aug '24			12 days	s	 
1.3.1.1.1	Area return from KTE for Observation Deck area (due to the disruption by DCS 1002EM19A)	C2	0 days	10 Jan '23	10 Jan '23			570 days	5	   
1.3.1.1.2	Foundation & substructure	C2	15 days	23 Dec '23	6 Jan '24			-2 days		Foundation & sub
<b>1.3.1.1.3</b>	Super Structure	C2	-	22 Nov '23	11 Aug '24			12 days		<u>i</u> I
1.3.1.1.3.1	Step 1 (1st Column)	C2	-	7 Jan '24	19 Jan '24			-2 days		Step 1 (1st C
1.3.1.1.3.2	Step 2 (up to +9.43mPD)	C2	21 days	20 Jan '24	21 Feb '24			150 days		
1.3.1.1.3.3	Step 3 (lift shaft and structure up to +9.65m)	C2	29 days	13 Jan '24	22 Feb '24			-2 days		
1.3.1.1.3.4	Step 4 (2nd column)	C2	9 days	4 Feb '24	24 Feb '24			-2 days		
1.3.1.1.3.5	Step 5 (Lift shaft and structure up to +11.25m)	C2	30 days	21 Feb '24	21 Mar '24			-2 days		l l
1.3.1.1.3.6	Step 6 (bridge connection)	C2	12 days	22 Mar '24	2 Apr '24			-2 days		
1.3.1.1.3.7	Step 7 (3rd column)	C2	11 days	3 Apr '24	13 Apr '24			-2 days		1
1.3.1.1.3.8	Step 8 (stair up to roof)	C2	9 days	3 Apr '24	11 Apr '24			100 days		1
1.3.1.1.3.9	Step 9 (lift shaft up to top)	C2	47 days	3 Apr '24	29 May '24		2	-2 days		1
1.3.1.1.3.10           1.3.1.1.3.10.1	lift car installation working platform erection	C2 C2	63 days 3 days	10 Jun '24 10 Jun '24	11 Aug '24 12 Jun '24	75FS-5 days	3	-12 days		1
1.3.1.1.3.10.1 1.3.1.1.3.10.2	lift car installation	C2 C2	60 days	10 Jun 24	12 Juli 24 11 Aug '24		3	-12 days		
1.3.1.1.3.11	Step 10 (board walk up to +6.22mPD))	C2	32 days	14 May '24	14 Jun '24	05	5	-12 days		
1.3.1.1.3.11.1	Utility Installation	C2	12 days	14 May '24	25 May '24	66	73	-12 days		
1.3.1.1.3.11.2		C2	10 days	26 May '24	4 Jun '24	72	74	-12 days		
1.3.1.1.3.11.3	5	C2	9 days	5 Jun '24	13 Jun '24	73	75	-12 days		
1.3.1.1.3.11.4	-	C2	1 day	14 Jun '24	14 Jun '24		3,69FS-5 days	-12 days		1
1.3.1.1.3.12	Step 11 (Roofing works including ceiling)	C2	-	22 Nov '23	31 Jul '24			19 days		1
1.3.1.1.3.12.1	Design of the steel structure	C2	60 days	22 Nov '23	20 Jan '24		78	-	sructure	_20/1
1.3.1.1.3.12.2	-	C2	75 days	29 Jan '24	1 May '24	77	79FS-13 days	11 days	S Fabrication of the stee	l structure
1.3.1.1.3.12.3	Installation of the steel structure (1st half - skylight members & main beams)	C2	13 days	1 May '24	16 May '24	78FS-13 days,66,54	80FS-2 days	-1 day	yation of the steel structu	ure (1st half - skylight i
1.3.1.1.3.12.4		C2	14 days	15 May '24	28 May '24		81	-1 day	y Installatio	n of the steel structure
1.3.1.1.3.12.5	fixing purlins and subframe for skylight and canopy roofing	C2	21 days	29 May '24	18 Jun '24	80	82SS+10 days	-1 day	v fi:	xing purlins and subfra
1.3.1.1.3.12.6	fixing and welding roof gutter for skylight and canopy roofi		7 days	, 8 Jun '24	14 Jun '24	81SS+10 days	-	-1 day	-	fixing and welding roo
1.3.1.1.3.12.7		C2	2 days	15 Jun '24	16 Jun '24	82	84	-1 day		1
1.3.1.1.3.12.8	fixing sub-frame for ceiling (1st part)	C2	7 days	17 Jun '24	23 Jun '24	83	85,87FS+3 days	-1 day	Y	1
1.3.1.1.3.12.9	fixing alum roof cladding	C2	14 days	24 Jun '24	7 Jul '24	84	86	44 days	S	
1.3.1.1.3.12.10	modification to working platform	C2	3 days	8 Jul '24	10 Jul '24	85		44 days	S	
1.3.1.1.3.12.11	fixing sub-frame for ceiling (2nd part)	C2	7 days	27 Jun '24	3 Jul '24	84FS+3 days	88	-1 day	Y	
1.3.1.1.3.12.12	fixing alum cladding to ceiling	C2	28 days	4 Jul '24	31 Jul '24	87	3	-1 day	Y	
1.3.1.1.4	ABWF	C2	71 days	20 May '24	29 Jul '24			1 day	y l	
1.3.1.1.4.1	Site setting out	C2	3 days	20 May '24	22 May '24		91	6 days	s	1
1.3.1.1.4.2	Touch up works for fair-faced concrete	C2	40 days	28 May '24	6 Jul '24	90	92SS+10 days,95SS+20 day	1 day		То
1.3.1.1.4.3	Apply undercoat and finishing coat to external wall and ceiling	-	50 days	7 Jun '24	26 Jul '24		93SS+13 days	1 day	<u>y</u> A	pply undercoat and f
1.3.1.1.4.4	Artifical granite tiles	C2	40 days	20 Jun '24	29 Jul '24	92SS+13 days	3	1 day		1
1.3.1.1.5	E&M Works	C2	40 days	17 Jun '24	26 Jul '24			4 days		
1.3.1.1.5.1	Electrical works (lighting)	C2	40 days	17 Jun '24	26 Jul '24	91SS+20 days		4 days	-	
1.3.1.1.5.2	plumbing and drainage works (inside the kiosk)	C2	14 days	18 Jun '24	1 Jul '24		3	29 days		plu
1.3.1.2	Back of house facilities (under bridge D3)	C2	162 days		7 Aug '24			16 days		
1.3.1.2.1	Fabrication for both footings A & B	None	-	6 Feb '24	21 Jun '24			57 days		
1.3.1.2.1.1	Structural Steel		50 days	20 Feb '24	9 Apr '24		110ECLE days 12750	111 days		Fabrication of steel
1.3.1.2.1.1.1	Fabrication of steel	C2	50 days	20 Feb '24	9 Apr '24		118FS+5 days,137FS+5 day	101 days		
1.3.1.2.1.2	Roof and wall cladding	None	-	6 Feb '24	11 May '24			104 days	_	
1.3.1.2.1.3 1.3.1.2.1.4	Window Feature Wall	C2	85 days 123 days	20 Feb '24 20 Feb '24	24 May '24			53 days	-	
1.3.1.2.1.4	Feature Wall	None	123 gays	20 FED 24	21 Jun '24			63 days	د اد	
	Tack		Start only	C	Critical		Program			
	Task Summary Milestone I Project Summary		Start-only Finish-only	3	Critical Critical Split		Progress Manual Progress		_	
	Project Summary 1	u	. misri oniy	-						
						Page 1	of 12			

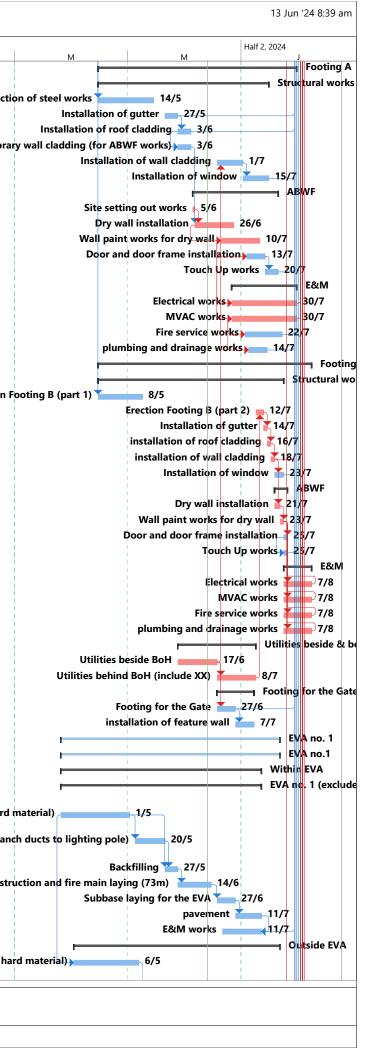


	isk Name	Task Calenda	Duration ar	Start	Finish	Predecessors	Successors	Total Slack	Half 1, 2024 N J
16 <b>1.3.1.2.2</b>	Footing A		107 days	15 Apr '24	30 Jul '24			24 days	
17 <b>1.3.1.2.2.1</b>	Structural works	None	92 days	15 Apr '24	15 Jul '24			38 days	
18 1.3.1.2.2.1.1	Erection of steel works	C2	20 days	15 Apr '24	14 May '24	100FS+5 days		101 days	
19 1.3.1.2.2.1.2	Installation of gutter	C2	7 days	21 May '24	27 May '24		3,120	2 days	
20 1.3.1.2.2.1.3	Installation of roof cladding	C2	7 days	28 May '24	3 Jun '24		3,121SS	2 days	
1.3.1.2.2.1.4	installation of temporary wall cladding (for ABWF works)	C2	7 days	28 May '24	3 Jun '24		126	2 days	
22 1.3.1.2.2.1.5	Installation of wall cladding	C2	14 days	18 Jun '24	1 Jul '24		123	15 days	
23 1.3.1.2.2.1.6	Installation of window	C2	14 days	2 Jul '24	15 Jul '24	112,122	3	15 days	
<sup>24</sup> <b>1.3.1.2.2.2</b>	ABWF	None	46 days	5 Jun '24	20 Jul '24			0 days	
25 1.3.1.2.2.2.1	Site setting out works	C2	1 day	5 Jun '24	5 Jun '24		126	0 days	
26 1.3.1.2.2.2.2	Dry wall installation	C2	21 days	6 Jun '24	26 Jun '24	-	127SS+14 days	0 days	
27 1.3.1.2.2.2.3	Wall paint works for dry wall	C2	21 days	20 Jun '24	10 Jul '24		128SS+14 days,131SS+6 da	•	
28 1.3.1.2.2.2.4	Door and door frame installation	C2	10 days	4 Jul '24	13 Jul '24	127SS+14 day		10 days	
29 1.3.1.2.2.2.5	Touch Up works	C2	7 days	14 Jul '24	20 Jul '24	128	3	10 days	
30 <b>1.3.1.2.2.3</b>	E&M	None	35 days	26 Jun '24	30 Jul '24			0 days	I I I I I I I I I I I I I I I I I I I
31 1.3.1.2.2.3.1	Electrical works	C2	35 days	26 Jun '24	30 Jul '24	127SS+6 days	3	0 days	
32 1.3.1.2.2.3.2	MVAC works	C2	35 days	26 Jun '24	30 Jul '24	127SS+6 days	3,133SS+7 days,134SS+7 d	0 days	
33 1.3.1.2.2.3.3	Fire service works	C2	20 days	3 Jul '24	22 Jul '24	132SS+7 days	3	8 days	
34 1.3.1.2.2.3.4	plumbing and drainage works	C2	10 days	5 Jul '24	14 Jul '24	132SS+7 days	3	16 days	
35 <b>1.3.1.2.3</b>	Footing B	None	115 days	15 Apr '24	7 Aug '24			16 days	
<sup>36</sup> <b>1.3.1.2.3.1</b>	Structural works	None	100 days	15 Apr '24	23 Jul '24			31 days	
37 1.3.1.2.3.1.1	Erection Footing B (part 1)	C2	14 days	15 Apr '24	8 May '24	100FS+5 days		107 days	Erection F
38 1.3.1.2.3.1.2	Erection Footing B (part 2)	C2	4 days	9 Jul '24	12 Jul '24	155	139	-8 days	
39 1.3.1.2.3.1.3	Installation of gutter	C2	2 days	13 Jul '24	14 Jul '24	138	140	-8 days	
40 1.3.1.2.3.1.4	installation of roof cladding	C2	2 days	15 Jul '24	16 Jul '24	139	141	-8 days	
41 1.3.1.2.3.1.5	installation of wall cladding	C2	2 days	17 Jul '24	18 Jul '24	140	3,142,144	-8 days	
42 1.3.1.2.3.1.6	Installation of window	C2	5 days	19 Jul '24	23 Jul '24	141	3	7 days	
<sup>43</sup> <b>1.3.1.2.3.2</b>	ABWF	None	7 days	19 Jul '24	25 Jul '24			-8 days	
44 1.3.1.2.3.2.1	Dry wall installation	C2	3 days	19 Jul '24	21 Jul '24	141	145	-8 days	
45 1.3.1.2.3.2.2	Wall paint works for dry wall	C2	2 days	22 Jul '24	23 Jul '24	144	146,149,150,151,152	-8 days	
46 1.3.1.2.3.2.3	Door and door frame installation	C2	2 days	24 Jul '24	25 Jul '24		147SS	5 days	
47 1.3.1.2.3.2.4	Touch Up works	C2	2 days	24 Jul '24	25 Jul '24	146SS	3	5 days	
48 1.3.1.2.3.3	E&M	C2	15 days	24 Jul '24	7 Aug '24			-8 days	
49 1.3.1.2.3.3.1	Electrical works	C2	15 days	24 Jul '24	7 Aug '24	145	3	-8 days	
50 1.3.1.2.3.3.2	MVAC works	C2	15 days	24 Jul '24	7 Aug '24	145	3	-8 days	
51 <b>1.3.1.2.3.3.3</b>	Fire service works	C2	, 15 days	24 Jul '24	7 Aug '24		3	-8 days	
52 1.3.1.2.3.3.4	plumbing and drainage works	C2	, 15 days	24 Jul '24	7 Aug '24		3	-8 days	
53 <b>1.3.1.2.4</b>	Utilities beside & behind the BoH	None	42 days	28 May '24	8 Jul '24			-8 days	
54 1.3.1.2.4.1	Utilities beside BoH	C2	21 days	28 May '24	17 Jun '24		157,155,122	-8 days	
55 1.3.1.2.4.2	Utilities behind BoH (include XX)	C2	21 days	18 Jun '24	8 Jul '24		138	-8 days	
56 <b>1.3.1.2.5</b>	Footing for the Gate	None	20 days	18 Jun '24	7 Jul '24			33 days	
57 1.3.1.2.5.1	Footing for the Gate	C2	10 days	18 Jun '24	27 Jun '24	154	3,158	33 days	
58 1.3.1.2.5.2	installation of feature wall	C2	10 days	28 Jun '24	7 Jul '24	157	-,	47 days	
59 <b>1.3.1.3</b>	EVA no. 1	C2		26 Mar '24	21 Jul '24			9 days	
50 <b>1.3.1.3.1</b>	EVA no.1	C2	-	26 Mar '24	21 Jul '24			9 days	
51 <b>1.3.1.3.1.1</b>	Within EVA	None	-	26 Mar '24	11 Jul '24			9 days	
<sup>52</sup> <b>1.3.1.3.1.1.1</b>	EVA no. 1 (exclude the remaining section connect to the deck channel)	None	-	26 Mar '24	11 Jul '24			9 days	I I I I I I I I I I I I I I I I I I I
53 1.3.1.3.1.1.1.1	Trench excavation for ducts and drawpits within EV (include breaking hard material)	AC2	30 days	26 Mar '24	1 May '24		171SS+7 days,164,165		nd drawpits within EVA (include breaking hard
54 1.3.1.3.1.1.1.2	Installation of ducts and drawpits within EVA (include branch ducts to lighting pole)	C2	16 days	5 May '24	20 May '24		165		of ducts and drawpits within EVA (include bran
55 1.3.1.3.1.1.1.3	Backfilling	C2	7 days	21 May '24	27 May '24		166	19 days	
56 1.3.1.3.1.1.1.4	u-channel construction and fire main laying (73m)	C2	18 days	28 May '24	14 Jun '24		167FS+3 days	19 days	
57 1.3.1.3.1.1.1.5	Subbase laying for the EVA	C2	10 days	18 Jun '24	27 Jun '24	166FS+3 days		19 days	
58 1.3.1.3.1.1.1.6	pavement	C2	14 days	28 Jun '24	11 Jul '24		169FF	19 days	
59 1.3.1.3.1.1.1.7	E&M works	C2	21 days	21 Jun '24	11 Jul '24	168FF	3	19 days	
70 1.3.1.3.1.2	Outside EVA	None		2 Apr '24	21 Jul '24			9 days	
1.3.1.3.1.2.1	Trench excavation for ducts and drawpits outside EVA (include breaking hard material)	C2	25 days	2 Apr '24	6 May '24	163SS+7 days	172	9 days	and drawpits outside EVA (include breaking ha

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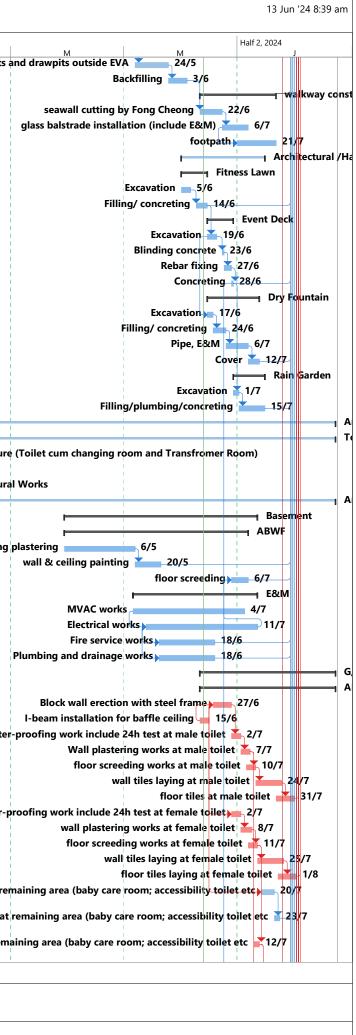
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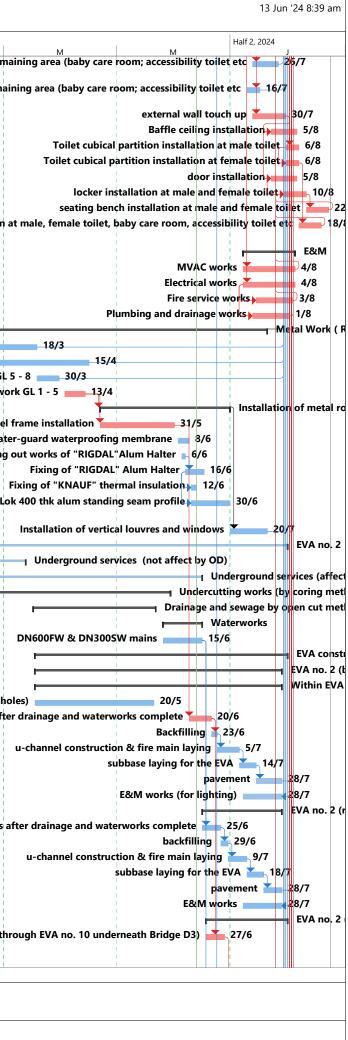


WBS	Task Name	Task	Duration	Start	Finish	Predecessors	Successors	Total Slack		Half 1, 2024
72 1.3.1.3.1.2.2	Installation of ducts and drawpits outside EVA	Calenda	r 18 days	7 May '24	24 May '24	171	173	9 days	N	Installation of ducts a
73 1.3.1.3.1.2.3	Backfilling	C2	10 days	25 May '24	3 Jun '24		175FS+7 days	9 days		instantation of ducts a
74 1.3.1.3.1.2.4	walkway construction	C2	41 days	11 Jun '24	21 Jul '24	172	3	9 days		
75 1.3.1.3.1.2.4.1	seawall cutting by Fong Cheong	C2	12 days	11 Jun '24	22 Jun '24	173FS+7 days		9 days		
76 1.3.1.3.1.2.4.2	glass balstrade installation (include E&M)	C2	14 days	23 Jun '24	6 Jul '24		177SS+8 days	9 days		
77 1.3.1.3.1.2.4.3	footpath	C2	21 days	1 Jul '24	21 Jul '24	176SS+8 days	•	9 days		
1.3.1.4	Architectural /Hard landscaping Works	C2	45 days	1 Jun '24	15 Jul '24	1705510 0035		12 days		
179 1.3.1.4.1	Fitness Lawn	C2	14 days	1 Jun '24	14 Jun '24			12 days		
180 1.3.1.4.1.1	Excavation	C2	5 days	1 Jun '24	5 Jun '24		181FS+3 days	12 days		
181 1.3.1.4.1.2	Filling/ concreting	C2	6 days	9 Jun '24	14 Jun '24	180FS+3 day	•	12 days		
182 1.3.1.4.2	Event Deck	C2	14 days	15 Jun '24	28 Jun '24		-,	12 days		
183 1.3.1.4.2.1	Excavation	C2	5 days	15 Jun '24	19 Jun '24	181	184FS+3 days,188SS	12 days		
184 1.3.1.4.2.2	Blinding concrete	C2	1 day	23 Jun '24	23 Jun '24	183FS+3 day	-	12 days		
185 1.3.1.4.2.3	Rebar fixing	C2	4 days	24 Jun '24	27 Jun '24	184	186	12 days		
186 1.3.1.4.2.4	Concreting	C2	1 day	28 Jun '24	28 Jun '24	185	3,193,340SS	12 days		
187 <b>1.3.1.4.3</b>	Dry Fountain		28 days	15 Jun '24	12 Jul '24		-,,	18 days		 
188 1.3.1.4.3.1	Excavation	C2	3 days	15 Jun '24	17 Jun '24	183SS	189	18 days		
189 1.3.1.4.3.2	Filling/ concreting	C2	7 days	18 Jun '24	24 Jun '24		190	18 days	1	
190 1.3.1.4.3.3	Pipe, E&M	C2	12 days	25 Jun '24	6 Jul '24		191	18 days		
191 1.3.1.4.3.4	Cover	C2	6 days	7 Jul '24	12 Jul '24	190	3	18 days		
192 <b>1.3.1.4.4</b>	Rain Garden		17 days	29 Jun '24	15 Jul '24			15 days		
193 1.3.1.4.4.1	Excavation	C2	3 days	29 Jun '24	1 Jul '24	186	194	15 days		
194 1.3.1.4.4.2	Filling/plumbing/concreting	C2	, 14 days	2 Jul '24	15 Jul '24	193	3	15 days		
195 <b>1.3.2</b>	Area No. 2	C2	,	1 Jun '23	22 Aug '24			1 day		
196 <b>1.3.2.1</b>	Toilet cum changing room and Transformer Room	C2	-	1 Jun '23	22 Aug '24			1 day		
197 <b>1.3.2.1.1</b>	Structure (Toilet cum changing room and Transfromer	FC2	247 days	1 Jun '23	2 Feb '24			181 days		Structure
198 <b>1.3.2.1.1.1</b>	ELS	C2	97 days	1 Jun '23	5 Sep '23			331 days		
201 <b>1.3.2.1.1.2</b>	Structural Works	C2	181 days	6 Aug '23	2 Feb '24			95 days	I	l Structural
221 <b>1.3.2.1.2</b>	Architectural Works	C2	185 days	29 Jan '24	22 Aug '24			-18 days		
222 <b>1.3.2.1.2.1</b>	Basement	None	104 days	30 Mar '24	11 Jul '24			24 days		1
223 <b>1.3.2.1.2.1.1</b>	ABWF	None	99 days	30 Mar '24	6 Jul '24			24 days		 
224 1.3.2.1.2.1.1.1	wall & ceiling plastering	C2	28 days	30 Mar '24	6 May '24		225	71 days		wall & ceiling p
225 1.3.2.1.2.1.1.2	wall & ceiling painting	C2	14 days	7 May '24	20 May '24	224	3	71 days		 
226 1.3.2.1.2.1.1.3	floor screeding	C2	9 days	28 Jun '24	6 Jul '24	229FS-14 days	s 3	24 days		
227 <b>1.3.2.1.2.1.2</b>	E&M	None	67 days	6 May '24	11 Jul '24			24 days		
228 1.3.2.1.2.1.2.1	MVAC works	C2	60 days	6 May '24	4 Jul '24		229SS+7 days	24 days		
229 1.3.2.1.2.1.2.2	Electrical works	C2	60 days	13 May '24	11 Jul '24	228SS+7 days	226FS-14 days,230SS+7 da	a 24 days		
230 1.3.2.1.2.1.2.3	Fire service works	C2	30 days	20 May '24	18 Jun '24	229SS+7 days	3	42 days		
231 1.3.2.1.2.1.2.4	Plumbing and drainage works	C2	30 days	20 May '24	18 Jun '24	229SS+7 days	3	42 days		1
232 <b>1.3.2.1.2.2</b>	G/F	C2	73 days	11 Jun '24	22 Aug '24			-23 days		
233 <b>1.3.2.1.2.2.1</b>	ABWF	C2	73 days	11 Jun '24	22 Aug '24			-23 days		
234 <b>1.3.2.1.2.2.1.1</b>	Block wall erection with steel frame	C2	10 days	18 Jun '24	27 Jun '24	235SS+7 day	236,241SS+10 days,24	e -23 days		
235 <b>1.3.2.1.2.2.1.2</b>	I-beam installation for baffle ceiling	C2	5 days	11 Jun '24	15 Jun '24		234SS+7 days	-23 days		
236 1.3.2.1.2.2.1.3	water-proofing work include 24h test at male toilet	C2	5 days	28 Jun '24	2 Jul '24	234	237	-5 days		water-
<sup>237</sup> 1.3.2.1.2.2.1.4	Wall plastering works at male toilet	C2	5 days	3 Jul '24	7 Jul '24	236	238FS-2 days,260,261	-5 days		
238 1.3.2.1.2.2.1.5	floor screeding works at male toilet	C2	5 days	6 Jul '24	10 Jul '24	237FS-2 day	239	-1 day		
239 1.3.2.1.2.2.1.6	wall tiles laying at male toilet	C2	14 days	11 Jul '24	24 Jul '24	238	240FS-3 days	-1 day		
240 1.3.2.1.2.2.1.7	floor tiles at male toilet	C2	10 days	22 Jul '24	31 Jul '24	239FS-3 days	3	-1 day		
241 1.3.2.1.2.2.1.8	water-proofing work include 24h test at female toilet	C2	5 days	28 Jun '24	2 Jul '24	234SS+10 day	s242	-23 days		water-pi
242 1.3.2.1.2.2.1.9	wall plastering works at female toilet	C2	6 days	3 Jul '24	8 Jul '24	241	243FS-2 days	-23 days		
243 1.3.2.1.2.2.1.10	floor screeding works at female toilet	C2	5 days	7 Jul '24	11 Jul '24	242FS-2 day	248FS-2 days,244	-23 days		
	wall tiles laying at female toilet	C2	14 days	12 Jul '24	25 Jul '24	243	245FS-3 days	-2 days		
244 1.3.2.1.2.2.1.11	floor tiles laying at female toilet	C2	10 days	23 Jul '24	1 Aug '24	244FS-3 days	3	-2 days		
244         1.3.2.1.2.2.1.11           245         1.3.2.1.2.2.1.12		C2	7 days	14 Jul '24	20 Jul '24		247	7 days	water-proofing work	include 48 hr test at rem
		01				days			i i	
245         1.3.2.1.2.2.1.12           246         1.3.2.1.2.2.1.13	area (baby care room; accessibility toilet etc		0 4	01.0004	00 10104	0.40	0	7 -1	1	المراجع والمتعاد والمراجع
245 <b>1.3.2.1.2.2.1.12</b>	area (baby care room; accessibility toilet etc wall plastering works at remaining area (baby care		3 days	21 Jul '24	23 Jul '24	246	3	7 days	Ý	wall plastering works at r
245         1.3.2.1.2.2.1.12           246         1.3.2.1.2.2.1.13	area (baby care room; accessibility toilet etc wall plastering works at remaining area (baby care room; accessibility toilet etc	C2	3 days 3 days	21 Jul '24 10 Jul '24	23 Jul '24 12 Jul '24	246 243FS-2	3 249,250FS-3 days,251	7 days -23 days		wall plastering works at r

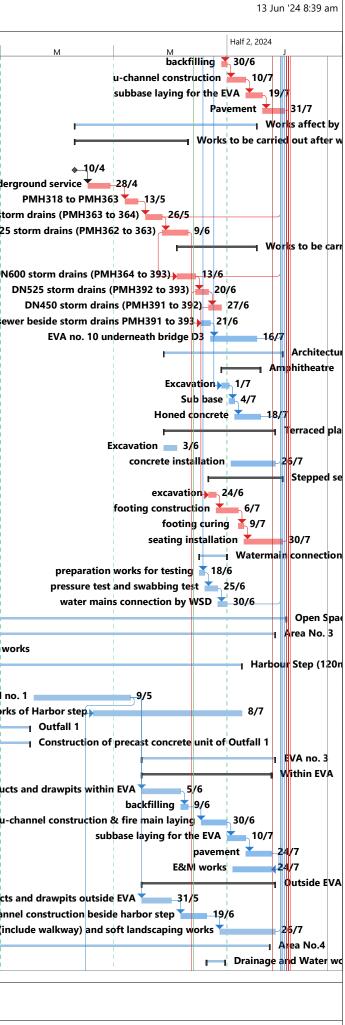
Task		Summary	Start-only	C	Critical	Progress
Milestone	٠	Project Summary	Finish-only	3	Critical Split	Manual Progress



)	WBS	Task Name	Task	Duration	Start	Finish	Predecessors	Successors	Total Slack		Half 1, 2024
249	1.3.2.1.2.2.1.16	wall tiles laying at remaining area (baby care room;	Calenda		13 Jul '24	26 Jul '24	248	3	4 days	N	wall tiles laying at rem
250	1.3.2.1.2.2.1.17	accessibility toilet etc floor tiles laying at remaining area (baby care room;	C2	7 days	10 Jul '24	16 Jul '24	248FS-3	3	14 days		floor tiles laying at rema
	-	accessibility toilet etc		-			days				
	1.3.2.1.2.2.1.18	external wall touch up	C2	18 days	13 Jul '24	30 Jul '24	248	252FS-8 days,253	-23 days		
	1.3.2.1.2.2.1.19	Baffle ceiling installation	C2	14 days	23 Jul '24	5 Aug '24	251FS-8 days		-23 days		
	1.3.2.1.2.2.1.20	Toilet cubical partition installation at male toilet	C2	7 days	31 Jul '24	6 Aug '24	251	254SS	-19 days		
	1.3.2.1.2.2.1.21	Toilet cubical partition installation at female toilet	C2	7 days	31 Jul '24	6 Aug '24	253SS	258	-19 days		 
255 256	1.3.2.1.2.2.1.22         1.3.2.1.2.2.1.23	door installation locker installation at male and female toilet	C2	14 days 12 days	23 Jul '24 30 Jul '24	5 Aug '24 10 Aug '24	252SS 255SS+7 days	256SS+7 days	-23 days		 
250	1.3.2.1.2.2.1.23	seating bench installation at male and female toilet	C2 C2	12 days	11 Aug '24	22 Aug '24	25555+7 uays	237	-23 days -23 days		
258	1.3.2.1.2.2.1.24	Sanitary fitment installation at male, female toilet, baby		12 days	7 Aug '24	18 Aug '24	254	3	-19 days	San	itary fitment installation
		care room, accessibility toilet etc									-
	1.3.2.1.2.2.2	E&M	C2	28 days	8 Jul '24	4 Aug '24		-	-5 days		
	1.3.2.1.2.2.2.1	MVAC works	C2	28 days	8 Jul '24	4 Aug '24	237	3	-5 days		
	1.3.2.1.2.2.2.2	Electrical works	C2	28 days	8 Jul '24	4 Aug '24	237	262SS+7 days,263SS+5 day			
	1.3.2.1.2.2.2.3	Fire service works	C2	20 days	15 Jul '24	3 Aug '24	261SS+7 days		-4 days		
	1.3.2.1.2.2.2.4	Plumbing and drainage works	C2	20 days	13 Jul '24	1 Aug '24	261SS+5 days		-2 days		I I I
	1.3.2.1.2.3	Metal Work ( Roof)	C2			20 Jul '24		3	10 days	on of metal roof steel w	
	1.3.2.1.2.3.1	Fabrication of metal roof steel work GL 1-8	C2	38 days	29 Jan '24	18 Mar '24		3		roof decking, louvre an	
	1.3.2.1.2.3.2 1.3.2.1.2.3.3	Fabrication of roof decking, louvre and window Installation of metal roof steelwork GL 5 - 8	C2	66 days 12 days	29 Jan '24	15 Apr '24 30 Mar '24		3 3	96 days 112 days		metal roof steelwork GL
	1.3.2.1.2.3.4	Installation of metal roof steelwork GL 5 - 8	C2	12 days 11 days	19 Mar '24 3 Apr '24	13 Apr '24		5 269FS+8 days,270FS+8 day			ion of metal roof steelw
	1.3.2.1.2.3.4 1.3.2.1.2.3.5	Installation of metal roof decking GL 1 - 8	C2 C2	60 days	22 Apr '24	<b>30 Jun '24</b>	268FS+8 days	• •	-1 day	-	
	1.3.2.1.2.3.5.1	structural steel frame installation	C2	30 days	22 Apr 24	31 May '24		306FS+8 days	-1 day		structural stee
	1.3.2.1.2.3.5.2	"GUDI" water-guard waterproofing membrane	C2	6 days	3 Jun '24	8 Jun '24	2001 5+0 uays	5001 5+8 uays	32 days		"GUDI" wat
	1.3.2.1.2.3.5.3	setting out works of "RIGDAL"Alum Halter	C2	2 days	5 Jun '24	6 Jun '24		273	10 days		setting
	1.3.2.1.2.3.5.4	Fixing of "RIGDAL" Alum Halter	C2	10 days	7 Jun '24	16 Jun '24	272	274SS+3 days,275SS+3 day			
	1.3.2.1.2.3.5.5	Fixing of "KNAUF" thermal insulation	C2	3 days	10 Jun '24	12 Jun '24	273SS+3 days		28 days		
	1.3.2.1.2.3.5.6		C2	21 days	10 Jun '24	30 Jun '24	273SS+3 days		10 days	_	ixing of "RIGIDAL" Zip-L
276	1.3.2.1.2.3.6	Installation of vertical louvres and windows	C2	20 days	1 Jul '24	20 Jul '24	269	3	10 days		 
277	1.3.2.2	EVA no. 2	C2	164 days	28 Jan '24	31 Jul '24			12 days		
278	1.3.2.2.1	Underground services (not affect by OD)	C2	33 days	28 Jan '24	12 Mar '24			95 days		
280	1.3.2.2.2	Underground services (affect by OD)	C2	108 days	19 Feb '24	15 Jun '24			2 days		
281	1.3.2.2.2.1	Undercutting works (by coring method)	C2	91 days	19 Feb '24	29 May '24			2 days		
296	1.3.2.2.2.2	Drainage and sewage by open cut method	None	66 days	17 Mar '24	21 May '24			52 days		
	1.3.2.2.2.3	Waterworks	None	21 days	26 May '24	15 Jun '24			2 days		
	1.3.2.2.2.3.1	DN600FW & DN300SW mains	C2	21 days	26 May '24	15 Jun '24	298FS+4 da	352,313	2 days		
	1.3.2.2.3	EVA construction	C2		18 Mar '24	31 Jul '24			23 days		
	1.3.2.2.3.1	EVA no. 2 (beside toilet cum)	C2	-	18 Mar '24	28 Jul '24			26 days		
	1.3.2.2.3.1.1	Within EVA	None	-	18 Mar '24	28 Jul '24			26 days		
	1.3.2.2.3.1.1.1	pipes laying for rain garden drainage (with manholes)	C2	54 days	18 Mar '24	20 May '24	279FS+5 days			pipes laying for rain gar	Duct and drawpits af
	1.3.2.2.3.1.1.2	Duct and drawpits after drainage and waterworks co		12 days	9 Jun '24	20 Jun '24		307,320FS-3 days	-1 day		Duct and drawpits an
	1.3.2.2.3.1.1.3	Backfilling	C2	3 days	21 Jun '24	23 Jun '24	306	308	2 days		
	1.3.2.2.3.1.1.4	u-channel construction & fire main laying	C2	12 days	24 Jun '24	5 Jul '24	307	309	2 days		
	1.3.2.2.3.1.1.5	subbase laying for the EVA	C2	9 days	6 Jul '24	14 Jul '24	308	310 311FF	2 days		
	1.3.2.2.3.1.1.6 1.3.2.2.3.1.1.7	pavement E&M works (for lighting)	C2	14 days	15 Jul '24 8 Jul '24	28 Jul '24 28 Jul '24	309 310FF	3	2 days		
			C2	21 days			310FF	3	2 days		
	1.3.2.2.3.2 1.3.2.2.3.2.1	EVA no. 2 (reserve for observation deck) Duct and drawpits after drainage and waterworks com	C2	43 days 10 days	16 Jun '24 16 Jun '24	28 Jul '24 25 Jun '24	301	314	2 days 2 days		Duct and drawpits
	1.3.2.2.3.2.2	backfilling	C2	4 days	26 Jun '24	29 Jun '24	313	315	2 days 2 days		Buccuna arampio
	1.3.2.2.3.2.3	u-channel construction & fire main laying	C2	10 days	30 Jun '24	9 Jul '24	314	316	2 days 2 days		 
	1.3.2.2.3.2.4	subbase laying for the EVA	C2	9 days	10 Jul '24	18 Jul '24	315	317	2 days 2 days		 
	1.3.2.2.3.2.5	pavement	C2	10 days	19 Jul '24	28 Jul '24	316	318FF	2 days		 
	1.3.2.2.3.2.6	E&M works	C2	21 days	8 Jul '24	28 Jul '24	317FF	3	2 days		
	1.3.2.2.3.3	EVA no. 2 (reserve for the entrance of the works)	None	44 days	18 Jun '24	31 Jul '24			-1 day		
	1.3.2.2.3.3.1	Duct and drawpits after EVA no. 3 complete (after close the current access by using access through EVA no. 10 underneath Bridge D3)	C2	10 days	18 Jun '24	27 Jun '24	306FS-3 days	321	•	(after close the current	access by using access t
		Task Summary		Start-only	с	Critical		Progress			



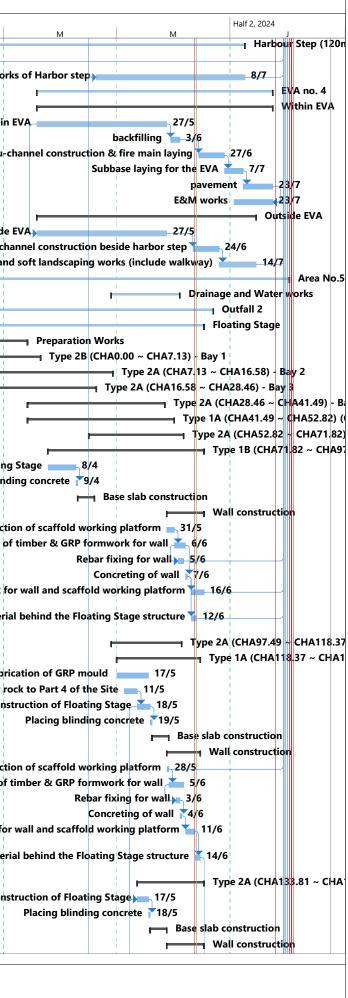
	WBS	Task Name	Task	Duration	Start	Finish		I path (1 Feb 2024) Successors	Total Slack		11-15 1 2024
			Calenda		Start	FILISI	Fieuecessors	Successors		Ν	Half 1, 2024 J
	1.3.2.2.3.3.2	backfilling	C2	3 days	28 Jun '24	30 Jun '24	320	322	-1 day		·   
	1.3.2.2.3.3.3	u-channel construction	C2	10 days	1 Jul '24	10 Jul '24	321	323	-1 day		l I
	1.3.2.2.3.3.4 1.3.2.2.3.3.5	subbase laying for the EVA	C2	9 days	11 Jul '24	19 Jul '24 31 Jul '24	322	324	-1 day		
	1.3.2.2.3.3.5 1.3.2.3	Pavement Works affect by OD (outside EVA no. 2)	C2 C2	12 days 88 days	20 Jul '24 10 Apr '24	16 Jul '24	323	3	-1 day 0 days		
	1.3.2.3.1	Works to be carried out after water main diversion from		61 days	10 Apr '24	9 Jun '24			0 days		
-		Gammon complete									l I
27	1.3.2.3.1.1	water main in conflict with our drainage works divert by Gam	nnNone	0 days	10 Apr '24	10 Apr '24		328FS+7 days	0 days		l I
28	1.3.2.3.1.2	site formation prior to the underground service	C2	7 days	17 Apr '24	28 Apr '24	327FS+7 days	329FS+3 days	0 days	site fo	rmation prior to the ur
	1.3.2.3.1.3	PMH318 to PMH363	C2	7 days	7 May '24	13 May '24	328FS+3 days	330FS+4 days	0 days		
	1.3.2.3.1.4	DN600 storm drains (PMH363 to 364)	C2	9 days	18 May '24	26 May '24	329FS+4 days		0 days		DN600
	1.3.2.3.1.5	DN525 storm drains (PMH362 to 363)	C2	14 days	27 May '24	9 Jun '24	330	333SS+8 days,1137	0 days		DN
32	1.3.2.3.2	Works to be carried out concurrently with the installation of steel roof of Observation Deck	None	43 days	4 Jun '24	16 Jul '24			0 days		l I
33	1.3.2.3.2.1	DN600 storm drains (PMH364 to 393)	C2	10 days	4 Jun '24	13 Jun '24	331SS+8 days	3 334	0 days		l I
_	1.3.2.3.2.2	DN525 storm drains (PMH392 to 393)	C2	7 days	14 Jun '24	20 Jun '24	333	335,336SS+3 days	0 days		1
	1.3.2.3.2.3	DN450 storm drains (PMH391 to 392)	C2	7 days	21 Jun '24	27 Jun '24	334	347SS	0 days		
	1.3.2.3.2.4	DN160 sewer beside storm drains PMH391 to 393	C2	5 days	17 Jun '24	21 Jun '24	334SS+3 days		14 days		DN160
	1.3.2.3.2.5	EVA no. 10 underneath bridge D3	C2	, 25 days	22 Jun '24	16 Jul '24	336	3	14 days		
38	1.3.2.4	Architectural/ Hard Landscaping Works	C2	64 days	28 May '24	30 Jul '24			24 days		
39	1.3.2.4.1	Amphitheatre	C2	21 days	28 Jun '24	18 Jul '24			12 days		 
0	1.3.2.4.1.1	Excavation	C2	4 days	28 Jun '24	1 Jul '24	186SS	341	12 days		1
1	1.3.2.4.1.2	Sub base	C2	3 days	2 Jul '24	4 Jul '24	340	342	12 days		l I
12	1.3.2.4.1.3	Honed concrete	C2	14 days	5 Jul '24	18 Jul '24	341	3	12 days		l I
13	1.3.2.4.2	Terraced planter	None	60 days	28 May '24	26 Jul '24			28 days		 
14	1.3.2.4.2.1	Excavation	C2	7 days	28 May '24	3 Jun '24			81 days		1
5	1.3.2.4.2.2	concrete installation	C2	24 days	3 Jul '24	26 Jul '24		3	4 days		
6	1.3.2.4.3	Stepped seating (underneath bridge D3)	None	40 days	21 Jun '24	30 Jul '24			0 days		
	1.3.2.4.3.1	excavation	C2	4 days	21 Jun '24	24 Jun '24	33555	348	0 days		
	1.3.2.4.3.2	footing construction	C2	12 days	25 Jun '24	6 Jul '24	347	349	0 days		
	1.3.2.4.3.3	footing curing	C2	3 days	7 Jul '24	9 Jul '24	348	350	0 days		
	1.3.2.4.3.4	seating installation	C2	21 days	10 Jul '24	30 Jul '24	349	3	0 days		
_	1.3.3	Watermain connection between Area No.1 and 2		15 days	16 Jun '24	30 Jun '24			30 days		 
	1.3.3.1	preparation works for testing	C2	3 days	16 Jun '24	18 Jun '24	301	353	30 days		l I
	1.3.3.2	pressure test and swabbing test		7 days	19 Jun '24	25 Jun '24	352	354	30 days		l I
	1.3.3.3	water mains connection by WSD	C2	5 days	26 Jun '24	30 Jun '24	353	3	30 days	_	1
	1.4 1.4.1	Open Space Beside Existing Seawall Area No. 3	C2	-	3 Nov '23	1 Aug '24			22 days		
	1.4.1 1.4.1.1	Drainage and Water works	C2 C2	-	3 Nov '23 24 Nov '23	26 Jul '24 4 Jan '24			28 days 210 days		Drainage and Wa
	1.4.1.2	Harbour Step (120m)	C2	-	3 Nov '23	4 Jul '24			46 days		
	1.4.1.2.1	Harbour step (upto the work zone of outfall no.1)	C2	80 days	3 Nov '23	21 Jan '24			193 days		21/1
	1.4.1.2.2	Remaining harbour step after completion of the outfall no.		42 days	19 Mar '24	9 May '24	384FS+2 da	363FS-10 days,387FS+	-	ing harbour step after c	
	1.4.1.2.3	architectural works of Harbor step	C2	70 days	20 Apr '24	8 Jul '24		402SS,691SS	22 days	···· <b>j</b> ····· · · · · · · · · · · · · · · · ·	architectural
	1.4.1.3	Outfall 1	C2	62 days	3 Jan '24	16 Mar '24	0021 0 10 00	10200,00100	4 days		1
	1.4.1.3.1	Construction of precast concrete unit of Outfall 1	C2	-		16 Mar '24			4 days		
	1.4.1.4	EVA no. 3	C2	72 days	16 May '24	26 Jul '24			4 days		
36	1.4.1.4.1	Within EVA		70 days	16 May '24	24 Jul '24			6 days		
37	1.4.1.4.1.1	Installation of ducts and drawpits within EVA	C2	21 days	16 May '24	5 Jun '24	362FS+6 da	388	6 days		Installation o
38	1.4.1.4.1.2	backfilling	C2	4 days	6 Jun '24	9 Jun '24	387	389FS+7 days	6 days		
39	1.4.1.4.1.3	u-channel construction & fire main laying	C2	14 days	17 Jun '24	30 Jun '24	388FS+7 days	390	6 days		l I
90	1.4.1.4.1.4	subbase laying for the EVA	C2	10 days	1 Jul '24	10 Jul '24	389	391	6 days		l I
1	1.4.1.4.1.5	pavement	C2	14 days	11 Jul '24	24 Jul '24	390	392FF	6 days		l I
2	1.4.1.4.1.6	E&M works	C2	21 days	4 Jul '24	24 Jul '24	391FF	3	6 days		1
_	1.4.1.4.2	Outside EVA		72 days	16 May '24	26 Jul '24			4 days		
	1.4.1.4.2.1	Installation of ducts and drawpits outside EVA	C2	16 days	16 May '24	31 May '24		395FS+5 days	4 days		Installation of
_	1.4.1.4.2.2	additional u-channel construction beside harbor step	C2	14 days	6 Jun '24	19 Jun '24		399,396FS+7 days	4 days		additional u
6	1.4.1.4.2.3	Hard landscape (include walkway) and soft landscaping		30 days	27 Jun '24	26 Jul '24	395FS+7 da	3	4 days		Hard landsca
_	1.4.2	Area No.4	C2		3 Nov '23	23 Jul '24			7 days		 
7	1.4.2.1	Drainage and Water works	C2	10 days	20 Jun '24	29 Jun '24			31 days		
7											
'		Tal		Canada I		C.22. 1		Ductore			
		Task Summary Milestone $\blacklozenge$ Project Summary		Start-only Finish-only	с э	Critical Critical Split		Progress Manual Progress			



### Project: ED201801 - Kai Tak Development - Stage 4 Infrastructure at the Former Runway & South Apron Section 6C with critcal path (1 Feb 2024)

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					Sectio	on 6C with critca	· patit (1 · cb 202 i)			
•	Task Name	Task Calenda	Duration	Start	Finish	Predecessors	Successors	Total Slack	N	Half 1, 2024
2	Harbour Step (120m)	C2		3 Nov '23	8 Jul '24			22 days		
2.1	Harbour step (upto the work zone of outfall no.1)	C2	80 days	3 Nov '23	21 Jan '24		3	169 days		21/1
2.2	architectural works of Harbor step	C2	70 days	20 Apr '24	8 Jul '24	363SS	3	22 days		architectural work
.3	EVA no. 4	C2	117 days	19 Mar '24	23 Jul '24			7 days		
3.1	Within EVA	None	127 days	19 Mar '24	23 Jul '24			7 days		
3.1.1	Installation of ducts and drawpits within EVA	C2	60 days	19 Mar '24	27 May '24		412SS,406FS+2 days	7 days	Installation of o	ducts and drawpits within
3.1.2	backfilling	C2	5 days	30 May '24	3 Jun '24	405FS+2 days	407FS+10 days	7 days		
3.1.3	u-channel construction & fire main laying	C2	14 days	14 Jun '24	27 Jun '24	406FS+10 day	408	7 days		u₋c
3.1.4	Subbase laying for the EVA	C2	10 days	28 Jun '24	7 Jul '24	407	409	7 days		
3.1.5	pavement	C2	16 days	8 Jul '24	23 Jul '24	408	410FF	7 days		
3.1.6	E&M works	C2	21 days	3 Jul '24	23 Jul '24	409FF	3	7 days		
3.2	Outside EVA			19 Mar '24	14 Jul '24			16 days		
3.2.1	•	C2	60 days	19 Mar '24	27 May '24	405SS	413FS+14 days	16 days	Installation of de	ucts and drawpits outside
3.2.2	additional u-channel construction beside harbor step	C2	14 days	11 Jun '24	24 Jun '24			16 days		additional u-cha
3.2.3	Hard landscape and soft landscaping works (include w	alk C2	20 days	25 Jun '24		413	3	16 days		Hard landscape and
	Area No.5	C2	-		1 Aug '24			22 days		
.1		C2	-	-	3 Jun '24			18 days		 
.2		C2	-		21 Jun '24			40 days		<u>                                      </u>
.3	Floating Stage	C2			16 Jun '24			68 days		
3.1	Preparation Works	C2	-		13 Mar '24			129 days		
3.2	Type 2B (CHA0.00 ~ CHA7.13) - Bay 1	C2	-		20 Mar '24			146 days		
3.3	Type 2A (CHA7.13 ~ CHA16.58) - Bay 2	C2	76 days	27 Jan '24	28 Apr '24			88 days		
3.4	Type 2A (CHA16.58 ~ CHA28.46) - Bay 3	C2	72 days	27 Jan '24	19 Apr '24			116 days		
3.5		C2	64 days	14 Mar '24	26 May '24			65 days		(
3.6			69 days		31 May '24			60 days		(
3.7			41 days	16 Apr '24	5 Jun '24			55 days		
3.8		- BiC2	74 days	25 Mar '24	16 Jun '24			44 days		
3.8.1	Excavation for construction of Floating Stage	C2	15 days	25 Mar '24	8 Apr '24			93 days	Excavation for	or construction of Floating
3.8.2	Placing blinding concrete	C2	1 day	9 Apr '24	9 Apr '24	564	567	93 days		Placing blind
3.8.3	Base slab construction	None	9 days	10 Apr '24	18 Apr '24			103 days		
3.8.4	Wall construction	None	20 days	28 May '24	16 Jun '24			44 days		
3.8.4.1	Erection of scaffold working platform	C2	4 days	28 May '24	31 May '24			44 days		Erectio
3.8.4.2	Erection of timber & GRP formwork for wall		6 days				-	44 days		Erection of
3.8.4.3	Rebar fixing for wall		3 days	3 Jun '24			3	55 days		
3.8.4.4	Concreting of wall		1 day	7 Jun '24			577FS+2 days,578FS+2	44 days		
3.8.4.5	Dismantle of timber formwork for wall and scaffold working platform					days	3	44 days		tle of timber formwork fo
3.8.4.6	Stage structure		-			576FS+2 days	3		Backt	filling with rockfill materia
			-					-		I I I
			-	-				-		Fabric
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	0		-				,	-	Dismont	le of timber formwork for
	working platform					days				filling with rockfill materia
	Stage structure					012	677	-	Dack	
3.11.1			-	-		59988	616.63188	-		Excavation for const
				,	,			-		
			-	,	,	510		-		
3.11.3 3.11.4	Wall construction		20 days	19 May 24 28 May '24	16 Jun '24			1 day		
J.11.4	wan construction	None	20 uays	20 Way 24	10 Juli 24			I uay		, I 
22333333333333333333333333333333333333	2.1         2.2         1.1.1         1.2         1.3         1.4         1.5         1.6         .2         .2.1         .2         .2.1         .2         .2.3         .2         .3.3         .4         .5         .6         .7         .8         .8.1         .8.2         .8.3         .8.4.1         .8.4.2         .8.4.3         .8.4.4         .8.4.5         .8.4.5         .8.4.6         .9         .10.1         .10.2         .10.3         .10.4         .10.5         .10.6         .10.6.1         .10.6.2         .10.6.3         .10.6.4         .10.6.5         .10.6.5         .10.6.6         .11.1         .11.1	1       Harbour step (upto the work zone of outfall no.1)         .2       architectural works of Harbor step         .1       Within EVA         1.1       Installation of ducts and drawpits within EVA         1.2       backfilling         1.3       u-channel construction & fire main laying         1.4       Subbase laying for the EVA         1.5       pavement         1.6       E&M works         2       Outside EVA         2.1       Installation of ducts and drawpits outside EVA         2.2       additional u-channel construction beside harbor step         2.3       Hard landscape and soft landscaping works (include w         Area No.5       Dutial 2         1.6       Floating Stage         1.1       Preparation Works         2.2       Type 2B (CHA0.00 ~ CHA7.13) - Bay 1         2.3       Type 2A (CHA7.13 ~ CHA16.58) - Bay 2         2.4       Type 2A (CHA7.13 ~ CHA16.58) - Bay 3         3.5       Type 2A (CHA7.13 ~ CHA1.49) - Bay 6         3.6       Type 1A (CHA41.49 ~ CHA5.28) (C-shape structure)         7.7       Type 2A (CHA52.82 ~ CHA71.82) - Bay 6         8.4       Wall construction         8.4       Wall construction         8.4.4       Canc	Harbour Step (120m)         C2           11         Harbour step (upto the work zone of outfall no.1)         C2           12         architectural works of Harbor step         C2           14         Within EVA         None           1.11         Installation of ducts and drawpits within EVA         C2           13         u-channel construction & fire main laying         C2           14         Subbase laying for the EVA         C2           15         pavement         C2           16         E&M works         C2           20         Outside EVA         None           2.1         Installation of ducts and drawpits outside EVA         C2           2.2         Outside EVA         None           2.1         Installation of ducts and drawpits outside EVA         C2           2.2         Additional u-channel construction beside harbor step         C2           2.3         Hard landscape and soft landscaping works (include walk C2         Area No.5         C2           2.3         Hard landscape and soft landscaping works (include walk C2         C2         Floating Stage         C2           2.3         Type 2A (CHA7.13 - CHA1.49, Pay 1         C2         C2         C2           3.4         Type 2A (CHA3.5, C - CH	Harbour Step (120m)         C2         227 days           1         Harbour step (upto the work zone of outfall no.1)         C2         80 days           2.2         architectural works of Harbor step         C2         17 days           1         Within EVA         None         127 days           1.1         Installation of ducts and drawpits within EVA         C2         50 days           1.3         u-channel construction & fire main laying         C2         10 days           1.4         Subbase laying for the EVA         C2         10 days           1.5         pawement         C2         12 days           2.1         Installation of ducts and drawpits outside EVA         C2         20 days           2.1         Installation of ducts and drawpits outside EVA         C2         20 days           2.2         additional u-channel construction basis de harbor step         C2         20 days           2.1         Installation of Mucts and drawpits outside EVA         C2         20 days           2.2         additional u-channel construction basis de harbor step         C2         20 days           2.1         Installation of Mucts and drawpits outside EVA         C2         20 days           2.1         Instapas         C2         12 days <td>Harbour Step (120m)         C2         22         27 days         3 Nov 23           1         Harbour Step (upto the work zone of outfall no.1)         C2         80 days         3 Nov 23           2:2         architestural works of Harbor step         C2         17 days         9 Mar 24           1         Within EVA         None         12 days         19 Mar 24           1.1         Installation of ducts and drawpits within EVA         C2         6 days         30 May 24           1.2         backfilling         C2         1 days         44 Aun 24           1.3         u-channel construction &amp; fire main laying         C2         1 days         38 Jul 24           1.4         Subbase laying for the EVA         C2         1 days         13 Mar 24           2.4         Outcide EVA         C2         1 days         19 Mar 24           2.1         Installation of ducts and drawpits outside EVA         C2         1 days         19 Mar 24           2.2.3         Hard landscape and soft landscaping works (include wak C2         20 days         21 Mar 24           2.3         Hard landscape and Water works         C2         12 Gays         22 Jan 24           2.4         Hard landscape and Soft landscaping works (include wak C2         10 days</td> <td>Harbour Siep (120m)         Cite         Cale Add         Single Cale         Single Cale</td> <td>Harbour Step (120m)         C2         C3         C2         C3         C2         C3         C2         C3         C3         C2         C3         C3<td>Imathour Step (120m)         Cleared         June         June         June           11         Harbour step (upto the work zone of outfal no.1)         C2         80 dyy         3 how '23         9 June '24         33           22         are thindertal works zone of outfal no.1)         C2         80 dyy         3 how '24         9 June '24</td><td>Installation of acta and on the vork zone of outfall in 0.1         C2         C2 and acta and acta and acta and a constraints acta acta acta acta acta acta acta ac</td><td>Interfactor Stage (120m)         C22         C2 with a low 22         <thc2 22<="" a="" low="" th="" with="">         C2 with a low 22</thc2></td></td>	Harbour Step (120m)         C2         22         27 days         3 Nov 23           1         Harbour Step (upto the work zone of outfall no.1)         C2         80 days         3 Nov 23           2:2         architestural works of Harbor step         C2         17 days         9 Mar 24           1         Within EVA         None         12 days         19 Mar 24           1.1         Installation of ducts and drawpits within EVA         C2         6 days         30 May 24           1.2         backfilling         C2         1 days         44 Aun 24           1.3         u-channel construction & fire main laying         C2         1 days         38 Jul 24           1.4         Subbase laying for the EVA         C2         1 days         13 Mar 24           2.4         Outcide EVA         C2         1 days         19 Mar 24           2.1         Installation of ducts and drawpits outside EVA         C2         1 days         19 Mar 24           2.2.3         Hard landscape and soft landscaping works (include wak C2         20 days         21 Mar 24           2.3         Hard landscape and Water works         C2         12 Gays         22 Jan 24           2.4         Hard landscape and Soft landscaping works (include wak C2         10 days	Harbour Siep (120m)         Cite         Cale Add         Single Cale         Single Cale	Harbour Step (120m)         C2         C3         C2         C3         C2         C3         C2         C3         C3         C2         C3         C3 <td>Imathour Step (120m)         Cleared         June         June         June           11         Harbour step (upto the work zone of outfal no.1)         C2         80 dyy         3 how '23         9 June '24         33           22         are thindertal works zone of outfal no.1)         C2         80 dyy         3 how '24         9 June '24</td> <td>Installation of acta and on the vork zone of outfall in 0.1         C2         C2 and acta and acta and acta and a constraints acta acta acta acta acta acta acta ac</td> <td>Interfactor Stage (120m)         C22         C2 with a low 22         <thc2 22<="" a="" low="" th="" with="">         C2 with a low 22</thc2></td>	Imathour Step (120m)         Cleared         June         June         June           11         Harbour step (upto the work zone of outfal no.1)         C2         80 dyy         3 how '23         9 June '24         33           22         are thindertal works zone of outfal no.1)         C2         80 dyy         3 how '24         9 June '24	Installation of acta and on the vork zone of outfall in 0.1         C2         C2 and acta and acta and acta and a constraints acta acta acta acta acta acta acta ac	Interfactor Stage (120m)         C22         C2 with a low 22         C2 with a low 22 <thc2 22<="" a="" low="" th="" with="">         C2 with a low 22</thc2>

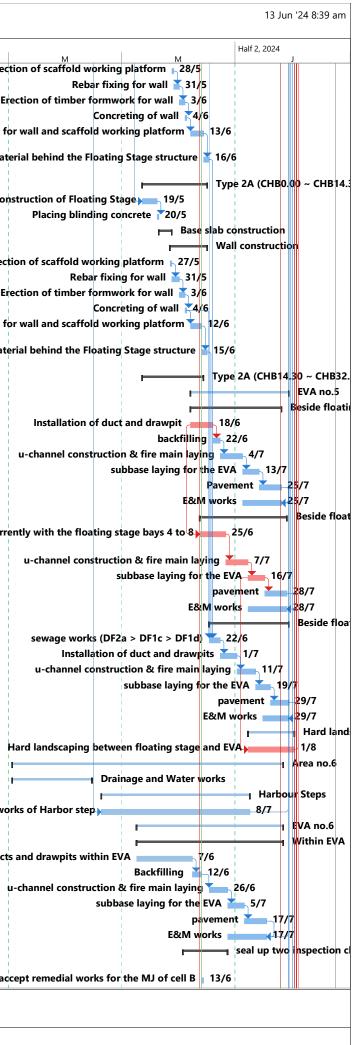


13 Jun '24 8:39 am

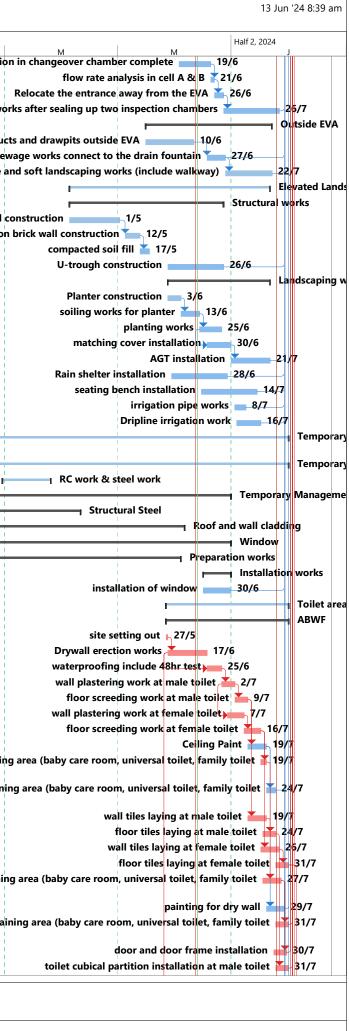
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### Project: ED201801 - Kai Tak Development - Stage 4 Infrastructure at the Former Runway & South Apron Section 6C with critcal path (1 Feb 2024)

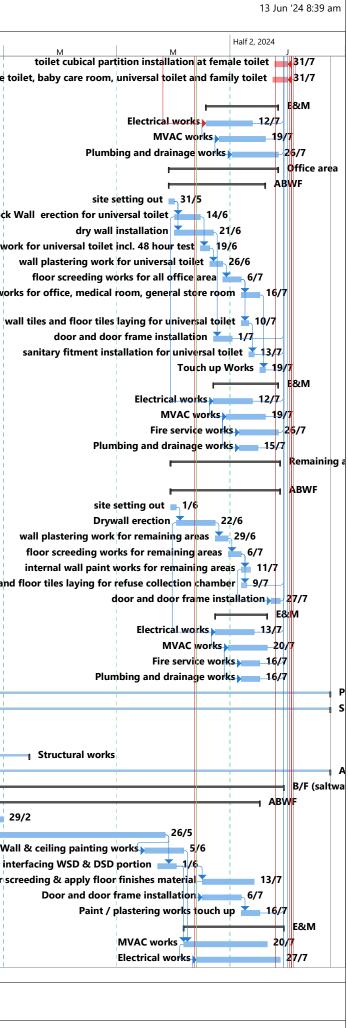
						Sectio	on 6C with critca	l path (1 Feb 2024)			
D	WBS	Task Name	Task Calenda	Duration	Start	Finish	Predecessors	Successors	Total Slack	N	Half 1, 2024
624	1.4.3.3.11.4.1	Erection of scaffold working platform	C2	1 day	28 May '24	28 May '24	622	625	1 day	N	Erect
625	1.4.3.3.11.4.2	Rebar fixing for wall	C2	3 days	29 May '24	31 May '24	624	626	1 day		
626	1.4.3.3.11.4.3	Erection of timber formwork for wall	C2	3 days	1 Jun '24	3 Jun '24	625	627	1 day		Ere
	1.4.3.3.11.4.4	Concreting of wall	C2	1 day	4 Jun '24	4 Jun '24	626	628FS+2 days	1 day		
	1.4.3.3.11.4.5	Dismantle of timber formwork for wall and scaffold working platform	C2	7 days	7 Jun '24	13 Jun '24	627FS+2 days	629	1 day	Dismantl	e of timber formwork fo
629	1.4.3.3.11.4.6	Backfilling with rockfill material behind the Floating Stage structure	C2	3 days	14 Jun '24	16 Jun '24	628	677	1 day	Bac	cfilling with rockfill mate
630	1.4.3.3.12	Type 2A (CHB0.00 ~ CHB14.30, adjacent Outfall 2) - Bay	C2	35 days	12 May '24	15 Jun '24			2 days	1	
631	1.4.3.3.12.1	Excavation for construction of Floating Stage	C2	8 days	12 May '24	19 May '24	615SS	632,647SS	2 days	1	Excavation for cons
632	1.4.3.3.12.2	Placing blinding concrete	C2	1 day	20 May '24	20 May '24	631	634	2 days	l I	
633	1.4.3.3.12.3	Base slab construction	None	7 days	21 May '24	27 May '24			2 days	l T	
639	1.4.3.3.12.4	Wall construction	None	20 days	27 May '24	15 Jun '24			2 days	1	
640	1.4.3.3.12.4.1	Erection of scaffold working platform	C2	1 day	27 May '24	27 May '24	637	641	2 days	1	Erecti
641	1.4.3.3.12.4.2	Rebar fixing for wall	C2	4 days	28 May '24	31 May '24	640	642	2 days	l I	
642	1.4.3.3.12.4.3	Erection of timber formwork for wall	C2	3 days	1 Jun '24	3 Jun '24	641	643	2 days	l I	Ere
643	1.4.3.3.12.4.4	Concreting of wall	C2	1 day	4 Jun '24	4 Jun '24	642	644FS+2 days,677	2 days	l I	
644	1.4.3.3.12.4.5	Dismantle of timber formwork for wall and scaffold working platform	C2	6 days	7 Jun '24	12 Jun '24	643FS+2 days	645	2 days	Dismant	e of timber formwork fo
645	1.4.3.3.12.4.6	Backfilling with rockfill material behind the Floating Stage structure	C2	3 days	13 Jun '24	15 Jun '24	644	677	2 days	Back	filling with rockfill mater
646	1.4.3.3.13	Type 2A (CHB14.30 ~ CHB32.32) - Bay 12	C2	33 days	12 May '24	13 Jun '24			4 days	l I	
662	1.4.3.4	EVA no.5	C2	53 days	7 Jun '24	29 Jul '24			-2 days	1	
663	1.4.3.4.1	Beside floating stage bays 1 to 4	None	49 days	7 Jun '24	25 Jul '24			-2 days	1	
664	1.4.3.4.1.1	Installation of duct and drawpit	C2	12 days	7 Jun '24	18 Jun '24	417FS+3 da	y665,671SS+5 days	-2 days	1	 
665	1.4.3.4.1.2	backfilling	C2	4 days	19 Jun '24	22 Jun '24	664	666	5 days	l I	
666	1.4.3.4.1.3	u-channel construction & fire main laying	C2	12 days	23 Jun '24	4 Jul '24	665	667	5 days	1	
667	1.4.3.4.1.4	subbase laying for the EVA	C2	9 days	5 Jul '24	13 Jul '24	666	668	5 days	1	
668	1.4.3.4.1.5	Pavement	C2	12 days	14 Jul '24	25 Jul '24	667	669FF	5 days	1	 
669	1.4.3.4.1.6	E&M works	C2	21 days	5 Jul '24	25 Jul '24	668FF	3	5 days	1	
670	1.4.3.4.2	Beside floating stage bays 5 to 8	None	47 days	12 Jun '24	28 Jul '24			-2 days	l I	
671	1.4.3.4.2.1	Installation of duct and drawpits concurrently with the	C2	14 days	12 Jun '24	25 Jun '24	664SS+5 days	672	-2 days	Installation of du	ct and drawpits concurre
		floating stage bays 4 to 8								1	
672	1.4.3.4.2.2	u-channel construction & fire main laying	C2	12 days	26 Jun '24	7 Jul '24	671	673	-2 days	1	
673	1.4.3.4.2.3	subbase laying for the EVA	C2	9 days	8 Jul '24	16 Jul '24	672	674,684SS	-2 days	1	
674	1.4.3.4.2.4	pavement	C2	12 days	17 Jul '24	28 Jul '24	673	675FF	2 days	1	
	1.4.3.4.2.5	E&M works	C2	21 days	8 Jul '24	28 Jul '24	674FF	3	2 days	l I	
676	1.4.3.4.3	Beside floating stage 8 to 11	None	43 days	17 Jun '24	29 Jul '24			1 day	 	
677	1.4.3.4.3.1	sewage works (DF2a > DF1c > DF1d)	C2	6 days	17 Jun '24	22 Jun '24	613,629,645	,453SS-7 days,678	1 day		
678	1.4.3.4.3.2	Installation of duct and drawpits	C2	9 days	23 Jun '24	1 Jul '24	677	679	1 day		
679	1.4.3.4.3.3	u-channel construction & fire main laying	C2	10 days	2 Jul '24	11 Jul '24	678	680	1 day	1	
680	1.4.3.4.3.4	subbase laying for the EVA	C2	8 days	12 Jul '24	19 Jul '24	679	681	1 day		
681	1.4.3.4.3.5	pavement	C2	10 days	20 Jul '24	29 Jul '24	680	682FF	1 day		
682	1.4.3.4.3.6	E&M works	C2	14 days	16 Jul '24	29 Jul '24	681FF	3	1 day		
683	1.4.3.5	Hard landscape and soft landscaping works	C2	25 days	8 Jul '24	1 Aug '24			-2 days		
684	1.4.3.5.1	Hard landscaping between floating stage and EVA	C2	25 days	8 Jul '24	1 Aug '24	673SS	3	-2 days		н
685	1.4.4	Area no.6	C2	-	3 Mar '24	26 Jul '24			28 days		1
686	1.4.4.1	Drainage and Water works	C2	43 days	3 Mar '24	14 Apr '24			97 days		1
690	1.4.4.2	Harbour Steps	C2	70 days	20 Apr '24	8 Jul '24			22 days		
691	1.4.4.2.1	architectural works of Harbor step	C2	70 days	20 Apr '24	8 Jul '24	363SS	3	22 days		architectural wor
692	1.4.4.3	EVA no.6	C2	79 days	9 May '24	26 Jul '24			13 days		
693	1.4.4.3.1	Within EVA	None	79 days	9 May '24	26 Jul '24			13 days		
694	1.4.4.3.1.1	Installation of ducts and drawpits within EVA	C2	30 days	9 May '24	7 Jun '24		695	13 days		Installation of ducts
695	1.4.4.3.1.2	Backfilling	C2	5 days	8 Jun '24	12 Jun '24	694	696FS+4 days	13 days		
696	1.4.4.3.1.3	u-channel construction & fire main laying	C2	10 days	17 Jun '24	26 Jun '24	695FS+4 days	697	13 days		u
697	1.4.4.3.1.4	subbase laying for the EVA	C2	9 days	27 Jun '24	5 Jul '24	696	698	13 days	1	
698	1.4.4.3.1.5	pavement	C2	12 days	6 Jul '24	17 Jul '24	697	699FF	13 days	1	 
699	1.4.4.3.1.6	E&M works	C2	21 days	27 Jun '24	17 Jul '24	698FF	3	13 days	1	
700	1.4.4.3.1.7	seal up two inspection chambers of box culvert (relate to the CE/124 of Section 8)	C2	24 days	3 Jun '24	26 Jun '24			4 days		
701	1.4.4.3.1.7.1	EMSD accept remedial works for the MJ of cell B	C2	1 day	13 Jun '24	13 Jun '24			71 days		EMSD acc
		Task Summary		Start-only	С	Critical		Progress		I	
					3			5			
		Milestone   Project Summary	T	Finish-only	-	Critical Split		Manual Progress			
							Page 7	of 12			



WBS	Task Name	Task	Duration	Start	Finish	Predecessors	Successors	Total Slack	Half 1, 2024
		Calenda	-	a					N J
<sup>02</sup> 1.4.4.3.1.7.2 <sup>03</sup> 1.4.4.3.1.7.3		C2	17 days	3 Jun '24 20 Jun '24	19 Jun '24 21 Jun '24	702	703 704	4 days	permanent connection
03       1.4.4.3.1.7.3         04       1.4.4.3.1.7.4	flow rate analysis in cell A & B Relocate the entrance away from the EVA	C2 C2	2 days 5 days	20 Jun 24 22 Jun 24	21 Jun 24 26 Jun '24	702 703	704	4 days 4 days	
1.4.4.3.1.7.4	Remaining EVA works after sealing up two inspection chambe		30 days	27 Jun '24	26 Jul '24	703	3	4 days	Remaining EVA w
6 <b>1.4.4.3.2</b>	Outside EVA		68 days	16 May '24	20 Jul '24	704	5	8 days	······ <b>·</b> ·····························
7 1.4.4.3.2.1	Installation of ducts and drawpits outside EVA	C2	26 days	16 May '24	10 Jun '24		708FS+7 days	8 days	Installation of du
8 1.4.4.3.2.2	85m DN225 sewage works connect to the drain fountain	C2	10 days	18 Jun '24	27 Jun '24	707FS+7 days	-	8 days	85m DN225 s
9 1.4.4.3.2.3	Hard landscape and soft landscaping works (include walk		25 days	28 Jun '24	22 Jul '24	708	3	8 days	Hard landscape
0 1.4.4.4	Elevated Landscape deck		108 days		21 Jul '24		-	33 days	
1 <b>1.4.4.4.1</b>	Structural works		83 days	5 Apr '24	26 Jun '24			58 days	
2 1.4.4.4.1.1	U-channel construction	C2	20 days	5 Apr '24	1 May '24		713	98 days	U-channe
3 1.4.4.4.1.2	division brick wall construction	C2	8 days	5 May '24	12 May '24	712	714	98 days	divisio
1.4.4.1.3	compacted soil fill	C2	5 days	13 May '24	17 May '24	713		98 days	
5 1.4.4.4.1.4	U-trough construction	C2	30 days	28 May '24	26 Jun '24		3	34 days	
1.4.4.4.2	Landscaping works	None	55 days	28 May '24	21 Jul '24			9 days	
1.4.4.2.1	Planter construction	C2	7 days	28 May '24	3 Jun '24		718	9 days	
3 1.4.4.4.2.2	soiling works for planter	C2	10 days	4 Jun '24	13 Jun '24	717	719	9 days	
9 1.4.4.4.2.3	planting works	C2	12 days	14 Jun '24	25 Jun '24	718	720SS+4 days	9 days	
1.4.4.2.4	matching cover installation	C2	13 days	18 Jun '24	30 Jun '24	719SS+4 days	721	9 days	
1.4.4.2.5	AGT installation	C2	21 days	1 Jul '24	21 Jul '24	720	3	9 days	
1.4.4.4.2.6	Rain shelter installation	C2	30 days	30 May '24	28 Jun '24		3	32 days	
1.4.4.2.7	seating bench installation	C2	30 days	15 Jun '24	14 Jul '24		3	16 days	
1.4.4.2.8	irrigation pipe works	C2	6 days	3 Jul '24	8 Jul '24		3	22 days	
5 1.4.4.4.2.9	Dripline irrigation work	C2	13 days	4 Jul '24	16 Jul '24		3	14 days	
5 <b>1.5</b>	Temporary Management Office, Temporary Toilet, Plant Rooms of Generatl Building services and Refuse Collection	C2	153 days	20 Feb '24	31 Jul '24			-1 day	-
1.5.1	Temporary Office	C2	153 days	20 Feb '24	31 Jul '24			-1 day	
1.5.1.1	RC work & steel work	C2	-	29 Feb '24	25 Mar '24			117 days	
1.5.1.2	Temporary Management Office	None	132 days	20 Feb '24	30 Jun '24			30 days	
1.5.1.2.1	Structural Steel	None	51 days	20 Feb '24	10 Apr '24			111 days	
1.5.1.2.2	Roof and wall cladding	C2	97 days	20 Feb '24	5 Jun '24			30 days	F
1.5.1.2.3	Window		132 days	20 Feb '24	30 Jun '24			30 days	
1.5.1.2.3.1	Preparation works	None	105 days	20 Feb '24	3 Jun '24			42 days	
5 <b>1.5.1.2.3.2</b>	Installation works		15 days	16 Jun '24	30 Jun '24			30 days	
7 1.5.1.2.3.2.1	installation of window	C2	15 days	16 Jun '24	30 Jun '24	750FS+10 day	\$3	30 days	
3 1.5.1.3	Toilet area	C2	66 days	27 May '24	31 Jul '24			-1 day	
9 1.5.1.3.1	ABWF		66 days	27 May '24	31 Jul '24			-1 day	
0 1.5.1.3.1.1	site setting out	C2	1 day	27 May '24	27 May '24		761	-1 day	
1.5.1.3.1.2	Drywall erection works	C2	21 days	28 May '24	17 Jun '24		762SS+21 days,782SS+21 d		
2 1.5.1.3.1.3	waterproofing include 48hr test	C2	8 days	18 Jun '24	25 Jun '24	761SS+21 day		-1 day	
1.5.1.3.1.4	wall plastering work at male toilet	C2	7 days	26 Jun '24	2 Jul '24		764,765SS+3 days	-1 day	
	floor screeding work at male toilet	C2	7 days	3 Jul '24	9 Jul '24		767,770	-1 day	
5 1.5.1.3.1.6	wall plastering work at female toilet	C2	9 days	29 Jun '24 8 Jul '24	7 Jul '24 16 Jul '24	763SS+3 days		-1 day	
5 <b>1.5.1.3.1.7</b> 7 <b>1.5.1.3.1.8</b>	floor screeding work at female toilet Ceiling Paint	C2 C2	9 days 10 days	8 Jul 24 10 Jul '24	18 Jul 24	765 764	768,772 769,775	-1 day 1 day	
3 1.5.1.3.1.9	wall plastering work at remaining area (baby care room,	C2	3 days	10 Jul 24	19 Jul '24		774FS-2 days	-1 day	wall plastering work at remain
1.5.1.5.1.9	universal toilet, family toilet	C2	5 uays	17 Jul 24	19 Jul 24	700	774F3-2 udys	-1 day	
9 1.5.1.3.1.10	floor screeding work at remaining area (baby care room,	C2	5 days	20 Jul '24	24 Jul '24	767	3	6 days	floor screeding work at remai
	universal toilet, family toilet		/ -					,-	_
) 1.5.1.3.1.11	wall tiles laying at male toilet	C2	10 days	10 Jul '24	19 Jul '24	764	771FS-2 days	-1 day	
1.5.1.3.1.12	floor tiles laying at male toilet	C2	7 days	18 Jul '24	24 Jul '24	770FS-2 days	778	-1 day	
1.5.1.3.1.13	wall tiles laying at female toilet	C2	10 days	17 Jul '24	26 Jul '24	766	773FS-2 days	-1 day	
1.5.1.3.1.14	floor tiles laying at female toilet	C2	7 days	25 Jul '24	31 Jul '24	772FS-2 days	779FF,780FF	-1 day	
1.5.1.3.1.15	wall tiles laying at remaining area (baby care room, universal toilet, family toilet	C2	10 days	18 Jul '24	27 Jul '24		776FS-3 days,777FS-4 days	-1 day	wall tiles laying at remain
5 1.5.1.3.1.16	painting for dry wall	C2	10 days	20 Jul '24	29 Jul '24	767	3	1 day	
1.5.1.3.1.17	floor tiles laying at remaining area (baby care room, universal toilet, family toilet	C2	7 days	25 Jul '24	31 Jul '24	774FS-3 days	3	-1 day	floor tiles laying at rem
1.5.1.3.1.18	door and door frame installation	C2	7 days	24 Jul '24	30 Jul '24	774FS-4 days	3	0 days	
3 1.5.1.3.1.19	toilet cubical partition installation at male toilet	C2	7 days	25 Jul '24	31 Jul '24	771	3	-1 day	
	p			1			l		I
			Characterization	C	Critical		Deserves		
	Task Summary		Start-only		Childa		Progress		



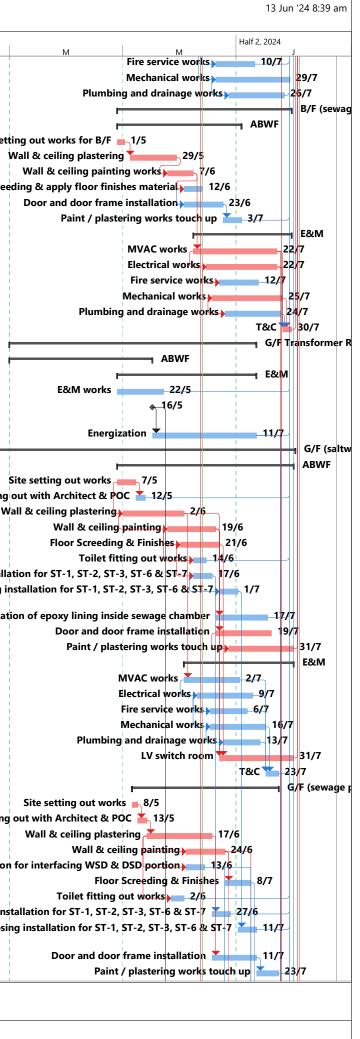
	WBS	Task Name	Task Calenda	Duration	Start	Finish	Predecessors	Successors	Total Slack		Half 1, 2024
779	1.5.1.3.1.20	toilet cubical partition installation at female toilet	Calenda C2	ar 7 days	25 Jul '24	31 Jul '24	773FF	3	-1 day	N	J
780	1.5.1.3.1.21	sanitary fitment installation at male, female toilet, baby care	C2	8 days	24 Jul '24	31 Jul '24	773FF	3	-1 day	sanitary fitment ins	tallation at male, female t
101		room, universal toilet and family toilet	NI	20.4	40 1	26 1.1 124			<b>A</b> alassa		
	<b>1.5.1.3.2</b> 1.5.1.3.2.1	Electrical works	C2	<b>39 days</b> 25 days	<b>18 Jun '24</b> 18 Jun '24	<b>26 Jul '24</b> 12 Jul '24	76155+21 days	3,783SS+7 days	4 days 4 days		
	1.5.1.3.2.2	MVAC works	C2	25 days	25 Jun '24	12 Jul 24		3,784SS+7 days	4 days		
	1.5.1.3.2.3	Plumbing and drainage works	C2	25 days	2 Jul '24	26 Jul '24	783SS+7 days	· ·	4 days		
785	1.5.1.4	Office area	None	59 days	29 May '24	26 Jul '24			4 days		i i
786	1.5.1.4.1	ABWF	None	52 days	29 May '24	19 Jul '24			4 days		
	1.5.1.4.1.1	site setting out	C2	3 days	29 May '24	31 May '24		788,789	4 days		
	1.5.1.4.1.2	Dry Wall & Block Wall erection for universal toilet	C2	14 days	1 Jun '24	14 Jun '24		790,799SS+21 days	4 days		Dry Wall & Bloc
	1.5.1.4.1.3	dry wall installation	C2	-	1 Jun '24	21 Jun '24		795	29 days		waterproofing wo
	1.5.1.4.1.4 1.5.1.4.1.5	waterproofing work for universal toilet incl. 48 hour test wall plastering work for universal toilet	C2	5 days 7 days	15 Jun '24 20 Jun '24	19 Jun '24 26 Jun '24		791 792	11 days 11 days		waterprooning we
	1.5.1.4.1.6	floor screeding works for all office area	C2 C2	-	20 Jun 24 27 Jun 24	6 Jul '24		792,794	11 days		
	1.5.1.4.1.7	internal wall paint works for office, medical room, general	C2	10 days	7 Jul '24	16 Jul '24		797	11 days		internal wall paint wor
		store room									
	1.5.1.4.1.8	wall tiles and floor tiles laying for universal toilet	C2	4 days	7 Jul '24	10 Jul '24		796	17 days		w
	1.5.1.4.1.9	door and door frame installation	C2	10 days	22 Jun '24	1 Jul '24		3	29 days		
	1.5.1.4.1.10	sanitary fitment installation for universal toilet	C2	3 days	11 Jul '24	13 Jul '24		3	17 days		
	1.5.1.4.1.11	Touch up Works	None	3 days	17 Jul '24	19 Jul '24	793	3	11 days		
	1.5.1.4.2	E&M	None	•	22 Jun '24	26 Jul '24	79955121 day	2 20055 17 dave	4 days		1 1 1 1
	1.5.1.4.2.1 1.5.1.4.2.2	Electrical works MVAC works	C2 C2	21 days 21 days	22 Jun '24 29 Jun '24	12 Jul '24 19 Jul '24		3,800SS+7 days 3,801SS+7 days,802SS+7 d	4 days 4 days		
	1.5.1.4.2.3	Fire service works	C2	21 days 21 days	6 Jul '24	26 Jul '24	800SS+7 days		4 days		
	1.5.1.4.2.4	Plumbing and drainage works	C2	10 days	6 Jul '24	15 Jul '24	800SS+7 days		15 days		
	1.5.1.5	Remaining area (refuse collection chamber, horticultural		59 days	30 May '24	27 Jul '24			3 days		
		machinery store room, etc									1 I I I
	1.5.1.5.1	ABWF		59 days	30 May '24	27 Jul '24			3 days		
	1.5.1.5.1.1	site setting out	C2	3 days	30 May '24	1 Jun '24		806	3 days		
	1.5.1.5.1.2	Drywall erection	C2	21 days	2 Jun '24	22 Jun '24		807,813SS+21 days	3 days		i i
	1.5.1.5.1.3 1.5.1.5.1.4	wall plastering work for remaining areas floor screeding works for remaining areas	C2 C2	7 days 7 days	23 Jun '24 30 Jun '24	29 Jun '24 6 Jul '24		808 809,810	3 days 3 days		1 I 1 I
	1.5.1.5.1.5	internal wall paint works for remaining areas	C2		7 Jul '24	11 Jul '24		811SS+16 days	3 days		
	1.5.1.5.1.6	wall tiles and floor tiles laying for refuse collection chamb			7 Jul '24	9 Jul '24		3	21 days		wall tiles and
	1.5.1.5.1.7	door and door frame installation	C2	5 days	23 Jul '24	27 Jul '24	809SS+16 da		3 days		
812	1.5.1.5.2	E&M	None	28 days	23 Jun '24	20 Jul '24			10 days		
13	1.5.1.5.2.1	Electrical works	C2	21 days	23 Jun '24	13 Jul '24	806SS+21 days	3,814SS+7 days	10 days		
814	1.5.1.5.2.2	MVAC works	C2	21 days	30 Jun '24	20 Jul '24	813SS+7 days	3,815SS+7 days,816SS+7 d	10 days		
	1.5.1.5.2.3	Fire service works	C2		7 Jul '24	16 Jul '24	814SS+7 days		14 days		
	1.5.1.5.2.4	Plumbing and drainage works	C2	-	7 Jul '24	16 Jul '24	814SS+7 days	3	14 days		
17		Pumping station, box culvert and lifts	C2	-	2 1 Sep '22	23 Aug '24			0 days?		 
	1.6.1 1.6.1.1	Sewage and Saltwater Pumping Station ELS	C2 C2	-	? 1 Sep '22 19 Mar '23	23 Aug '24 30 Jun '23		820	0 days? 0 days		
	1.6.1.2	PLT Test, Binder concrete	C2		14 Jun '23	26 Jun '23		826	0 days		
	1.6.1.3	Structural works	C2	-	15 Mar '23	14 Mar '24	0.0		128 days		i i
	1.6.1.4	Architectural works	C2		2 1 Sep '22	23 Aug '24			0 days?		I I
	1.6.1.4.1	B/F (saltwater pumping station)	C2	-	26 Feb '24	29 Jul '24			4 days		
32	1.6.1.4.1.1	ABWF	None	142 days	26 Feb '24	16 Jul '24			4 days		
33	1.6.1.4.1.1.1	Site setting out works for B/F	C2	4 days	26 Feb '24	29 Feb '24		934SS+1 day	4 days		ing out works for B/F 👝 2
	1.6.1.4.1.1.2	Wall & ceiling plastering	C2	80 days	27 Feb '24	26 May '24	-	935FS-11 days,936FS-4	-	Wa	all & ceiling plastering
	1.6.1.4.1.1.3	Wall & ceiling painting works	C2	21 days	16 May '24	5 Jun '24	934FS-11 da		4 days		Wa
	1.6.1.4.1.1.4	Block wall erection for interfacing WSD & DSD portion	C2	10 days	23 May '24	1 Jun '24		937FS+14 days,941	8 days		Block wall erection for in
	1.6.1.4.1.1.5	Floor screeding & apply floor finishes material	C2	28 days	16 Jun '24	13 Jul '24	936FS+14 days		14 days		Floor
	1.6.1.4.1.1.6	Door and door frame installation	C2 C2	21 days	16 Jun '24 7 Jul '24	6 Jul '24 16 Jul '24		939 3	14 days		
	1.6.1.4.1.1.7 <b>1.6.1.4.1.2</b>	Paint / plastering works touch up E&M		10 days 54 days	7 Jul 24 6 Jun '24	29 Jul '24	300	0	14 days <b>4 days</b>		
	1.6.1.4.1.2.1	MVAC works	C2	45 days	6 Jun '24	20 Jul '24	935,936	942SS+7 days	4 days		1
	1.6.1.4.1.2.2	Electrical works	C2	45 days	13 Jun '24	20 Jul 24		94355+7 days,94455+7 day	-		
-					20 7011 27	2. 341 27	5 . 100 . 7 uuy5		1 00 43		I I
		Task Summary		Start-only	С	Critical		Progress			
		IdSK									



Penta-Ocean Construction Co., Ltd.
Fend-Ocean Construction Co., Ltu.

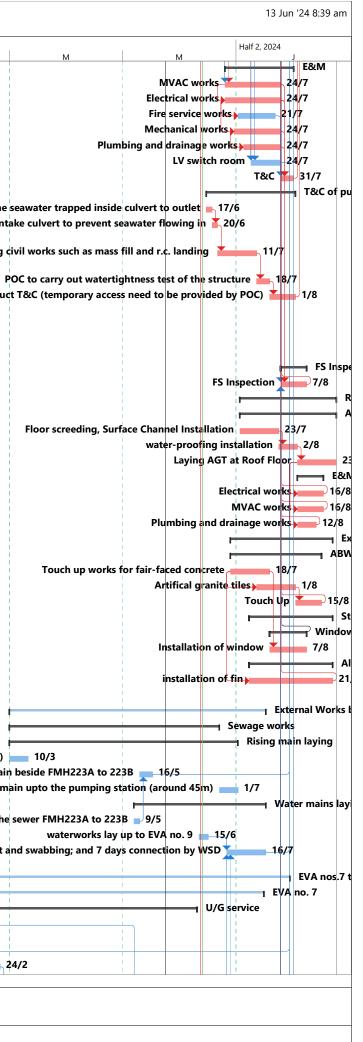
### Project: ED201801 - Kai Tak Development - Stage 4 Infrastructure at the Former Runway & South Apron Section 6C with critcal path (1 Feb 2024)

					Sectio	on 6C with critca	l path (1 Feb 2024)		
D WBS	Task Name	Task Calenda	Duration	Start	Finish	Predecessors	Successors	Total Slack	Half 1, 2024
1.6.1.4.1.2.3	Fire service works	C2	21 days	20 Jun '24	10 Jul '24	942SS+7 days	3	20 days	
944 1.6.1.4.1.2.4	Mechanical works	C2	40 days	20 Jun '24	29 Jul '24	942SS+7 days	945SS+7 days	4 days	
945 1.6.1.4.1.2.5	Plumbing and drainage works	C2	30 days	27 Jun '24	26 Jul '24	944SS+7 days	3	4 days	
946 <b>1.6.1.4.2</b>	B/F (sewage pumping station)	None	94 days	28 Apr '24	30 Jul '24			-11 days	
947 <b>1.6.1.4.2.1</b>	ABWF	None	67 days	28 Apr '24	3 Jul '24			-11 days	
948 1.6.1.4.2.1.1	Site setting out works for B/F	C2	2 days	28 Apr '24	1 May '24		949	-6 days	Site set
949 1.6.1.4.2.1.2	Wall & ceiling plastering	C2	-	5 May '24	29 May '24	948	950FS-5 days	-6 days	
950 1.6.1.4.2.1.3	Wall & ceiling painting works	C2	14 days	25 May '24	7 Jun '24	-	951FS-5 days,955	-6 days	
951 1.6.1.4.2.1.4	Floor screeding & apply floor finishes material	C2	10 days	3 Jun '24	12 Jun '24	950FS-5 days	952SS	27 days	Floor scree
952 1.6.1.4.2.1.5	Door and door frame installation	C2	21 days	3 Jun '24	23 Jun '24	951SS	953	27 days	
953 1.6.1.4.2.1.6	Paint / plastering works touch up	C2	10 days	24 Jun '24	3 Jul '24	952	3	27 days	1
954 <b>1.6.1.4.2.2</b>	E&M	None	53 days	8 Jun '24	30 Jul '24			-6 days	
955 1.6.1.4.2.2.1	MVAC works	C2	45 days	8 Jun '24	22 Jul '24	950	956SS+7 days,960,1028	-6 days	
956 1.6.1.4.2.2.2	Electrical works	C2	38 days	15 Jun '24	22 Jul '24	955SS+7 days	957SS+7 days,958SS+3 day	-6 days	
957 1.6.1.4.2.2.3	Fire service works	C2	21 days	22 Jun '24	12 Jul '24	956SS+7 days	960	13 days	
958 1.6.1.4.2.2.4	Mechanical works	C2	38 days	18 Jun '24	25 Jul '24		959SS+7 days,960	0 days	
959 1.6.1.4.2.2.5	Plumbing and drainage works	C2	30 days	25 Jun '24	24 Jul '24	958SS+7 days	960	1 day	
960 1.6.1.4.2.2.6	T&C	C2	5 days	26 Jul '24	30 Jul '24	955,956,957,9	93	0 days	
961 <b>1.6.1.4.3</b>	G/F Transformer Room	C2	123 days	1 Mar '24	11 Jul '24			9 days	
962 <b>1.6.1.4.3.1</b>	ABWF	None	77 days	1 Mar '24	16 May '24			9 days	
974 <b>1.6.1.4.3.2</b>	E&M	None	75 days	28 Apr '24	11 Jul '24			14 days	
975 1.6.1.4.3.2.1	E&M works	C2	20 days	28 Apr '24	22 May '24	968	3	69 days	
976 1.6.1.4.3.2.2	Handover to CLP (after water-proofing double slab certificate issued)	C2	0 days	16 May '24	16 May '24	973,972	977,1102FS+7 days	-5 days	
977 1.6.1.4.3.2.3	Energization	C2	56 days	17 May '24	11 Jul '24	976	3,1028	5 days	
978 <b>1.6.1.4.4</b>	G/F (saltwater pumping station)	C2		? 1 Sep '22	1 Aug '24			22 days?	
979 1.6.1.4.4.1	ABWF	None	95 days	28 Apr '24	31 Jul '24			-6 days	
980 1.6.1.4.4.1.1	Site setting out works	C2	5 days	28 Apr '24	7 May '24		981,982SS+1 day	-1 day	
981 1.6.1.4.4.1.2	Vertify the site setting out with Architect & POC	C2	5 days	8 May '24	12 May '24	980	3	79 days	Vertify the site setting
982 1.6.1.4.4.1.3	Wall & ceiling plastering	C2	30 days	1 May '24	2 Jun '24		983SS+21 days,997,992	-	v
983 1.6.1.4.4.1.4	Wall & ceiling painting	C2	26 days	25 May '24	19 Jun '24		2984SS+7 days,985SS+1		
984 1.6.1.4.4.1.5	Floor Screeding & Finishes	C2	21 days	1 Jun '24	21 Jun '24		986SS+7 days,997	-1 day	
985 1.6.1.4.4.1.6	Toilet fitting out works	C2	7 days	8 Jun '24	14 Jun '24	983SS+14 d		46 days	
986 1.6.1.4.4.1.7	Handrail installation for ST-1, ST-2, ST-3, ST-6 & ST-7		10 days	8 Jun '24	17 Jun '24		987SS+14 days,1007	19 days	Handrail installa
987 1.6.1.4.4.1.8 988 1.6.1.4.4.1.9	Screeding and nosing installation for ST-1, ST-2, ST-3 ST-6 & ST-7		10 days	22 Jun '24	1 Jul '24	days	1008	19 days	Screeding and nosing i Applicat
989 1.6.1.4.4.1.10	Application of epoxy lining inside sewage chamber Door and door frame installation	None C2	28 days	20 Jun '24	17 Jul '24 19 Jul '24	983 983	3 990SS+7 days	13 days -1 day	Applicat
		C2	30 days	20 Jun '24			•		
-	Paint / plastering works touch up		35 days	27 Jun '24	31 Jul '24	989SS+7 da	yo	-1 day	
991 <b>1.6.1.4.4.2</b>	E&M MVAC works		59 days	3 Jun '24	31 Jul '24	082	00265 v 7 dava 000	-1 day	
992 1.6.1.4.4.2.1		C2	30 days	3 Jun '24	2 Jul '24	982	993SS+7 days,998	7 days	
993 1.6.1.4.4.2.2	Electrical works	C2	30 days	10 Jun '24	9 Jul '24		994SS+7 days,995SS+7 day		
994         1.6.1.4.4.2.3           995         1.6.1.4.4.2.4	Fire service works Mechanical works	C2	20 days 30 days	17 Jun '24 17 Jun '24	6 Jul '24 16 Jul '24	993SS+7 days	998 996SS+7 days,998	17 days	
996 1.6.1.4.4.2.5	Plumbing and drainage works	C2	20 days	24 Jun '24	18 Jul 24	99555+7 days	• •	7 days 10 days	
997 1.6.1.4.4.2.6	LV switch room	C2 C2	40 days	24 Jun 24 22 Jun 24	31 Jul '24	99333+7 uays 982,983,984		-1 day	
998 1.6.1.4.4.2.7	T&C		•	17 Jul '24	23 Jul '24	992,993,994,9			
		C2	7 days			992,995,994,5	15	7 days	
999 <b>1.6.1.4.4.3</b>	G/F (sewage pumping station) Site setting out works	None	79 days	6 May '24	23 Jul '24		1001	-18 days	
000 1.6.1.4.4.3.1	5	C2	3 days	6 May '24	8 May '24		1001	-8 days	Vertify the site setting
1001 1.6.1.4.4.3.2 1002 1.6.1.4.4.3.3	Vertify the site setting out with Architect & POC	C2 C2	5 days 35 days	9 May '24 14 May '24	13 May '24 17 Jun '24	1000 1001	1002 1003SS+21 days,1006S	-8 days	vertify the site setting
1002 1.6.1.4.4.3.3	Wall & ceiling plastering	C2 C2	,	4 Jun '24			-	-	
	Wall & ceiling painting		21 days		24 Jun '24		1005,1012,1017	-8 days	Block wall erection
004 1.6.1.4.4.3.5	Block wall erection for interfacing WSD & DSD portion	C2	10 days	4 Jun '24	13 Jun '24	1002SS+21 da		3 days	Block wall election
005 1.6.1.4.4.3.6	Floor Screeding & Finishes	C2	14 days	25 Jun '24	8 Jul '24		1017	6 days	
006 1.6.1.4.4.3.7	Toilet fitting out works Handrail installation for ST-1, ST-2, ST-3, ST-6 & ST-7	C2	7 days	27 May '24	2 Jun '24	1002SS+13 da		58 days	Handrail ins
007 1.6.1.4.4.3.8			10 days	18 Jun '24	27 Jun '24	986	3	33 days	Screeding and nosi
008 1.6.1.4.4.3.9	Screeding and nosing installation for ST-1, ST-2, ST-3 ST-6 & ST-7		10 days	2 Jul '24	11 Jul '24	987	3 1010	19 days	Screeding and host
1009 1.6.1.4.4.3.10	Door and door frame installation	C2	24 days	18 Jun '24	11 Jul '24	1002		7 days	
010 1.6.1.4.4.3.11	Paint / plastering works touch up	C2	12 days	12 Jul '24	23 Jul '24	1009	3	7 days	I
	Task Summary		Start-only	E	Critical		Progress		
	Milestone    Project Summary			7	C de la Calle		Marcal December 1		
	Milestone • Project Summary •		Finish-only	2	Critical Split		Manual Progress		



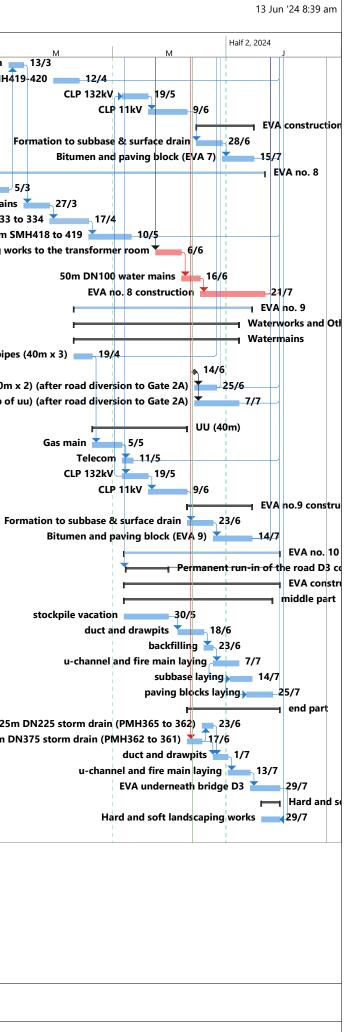
11       LALA4       Advecoria       Nome	WBS	Task Name	Task	Duration	Start	Finish	Predecessors	Successors	Total Slack	Half 1, 2024
201       16.1.4.4.1       MWC werks       G2       36.2.4.2       20.1.0.4       20.00.2.0       10.2.30, 01.2.0.00       4 9.00.7         201       16.1.4.4.1       Percent works       G2       10.1.2.4       10.1.2.50, 01.2.0.00       4 2.00.7         201       16.1.4.4.1       Percent works       G2       10.1.2.4       10.1.2.50, 01.2.0.0.00       4 2.00.7         201       16.1.4.4.1       Meter werks works       G2       10.7.2       10.1.2.1.2.1       10.1.2.50, 01.2.0.0.00       4 2.00.7         201       16.1.4.4.1       Meter werks works       G2       2.00.7       2.00.72       10.1.2.1.1.1.1.1.1       5 .50.7         201       16.1.4.5.1       Meter werks works       G2       2.00.7       2.00.72       10.1.2.1.1.1.1.1.1.1.1       5 .50.7         201       16.1.4.5.1       Meter werks works       G2       10.7.2       10.1.2.2       10.1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	)11 <b>161444</b>	F&M	Calenda		25 lun '24	31 Jul '24			-8 days	N J
N1       L1A4.4.2       Leteration works       C.2       O.40       A       D.401       A       D.1004-7       D.1004-7 <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td>1003.1004</td><td>1013SS.1018.1028</td><td></td><td></td></td<>				-			1003.1004	1013SS.1018.1028		
Init Julia44       Merennes each       □<							-			
C2       LALA44       Mechanical uoris       C2       O Jan 24       Jal 24       Ull 24 </td <td></td>										
19       11.14.435       Plands and dramage works       C1       20       5.1/2       2.1/2       2.1/2       1.0.100	015 1.6.1.4.4.4.4	Mechanical works				24 Jul '24		•		
199       19.1       1.1.1.4.4.4.7       TRC       0.7.1.9	016 1.6.1.4.4.4.5	Plumbing and drainage works	C2	20 days	5 Jul '24	24 Jul '24			-1 day	
19       14.4.4.5       74.0 a funding system for labeled performance interview into a serie system particulation of the serie system particulation system particulatin system particulation of ser	017 1.6.1.4.4.4.6	LV switch room	C2	16 days	9 Jul '24	24 Jul '24	1003,1004,10	0(3	6 days	
2000       16.14.64.51       pump out the seawater tapped multic ower to ower the seawater false of the	1.6.1.4.4.4.7	T&C	C2	7 days	25 Jul '24	31 Jul '24	1012,1013,10	013	-1 day	
221       16.1.4.5.2       seal a center by licked barver by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked (or lick)? Is carry or Confined space worker by licked for licked by lick	019 <b>1.6.1.4.4.5</b>	T&C of pumping system for saltwater pumping station (unde	erNone	48 days	15 Jun '24	1 Aug '24			-2 days	5
1         1.1.4.4.3         Control to provide transming and works such as max 11 and 12 and 1	020 1.6.1.4.4.5.1	pump out the seawater trapped inside culvert to outlet	C2	3 days	15 Jun '24	17 Jun '24		1021		
22       1.4.1.4.5.3       Contributing sources to where to where the since and the since an	021 1.6.1.4.4.5.2		C2	3 days	18 Jun '24	20 Jun '24	1020	1022	-2 days	al up existing bulkhead between box culvert
Internation (of the proof such as mass 111 and r.c. landing         Internation (of the proof such as mass 111 and r.c. landing         Internation (of the proof such as mass 111 and r.c. landing         Internation (of the proof such as mass 111 and r.c. landing         Internation (of the proof such as mass 111 and r.c. landing         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing)         Internation (of the proof such as mass 111 and r.c. landing) <thi< td=""><td></td><td>·</td><td>63</td><td>24.1</td><td>24 1 124</td><td></td><td>1024</td><td>4000</td><td></td><td>s by Pichwoll (or 14122) to correct out remaining</td></thi<>		·	63	24.1	24 1 124		1024	4000		s by Pichwoll (or 14122) to correct out remaining
201       12.14.24.5.4.2.       POC to carry our wateringtomes set of the structure of the s	1.6.1.4.4.5.3		C2	21 days	21 Jun '24	11 Jul '24	1021	1023	-2 days	s by Richwell (or JHL??) to carry out remaining
22       12.1.4.4.5.5       Alik 5.5       12.1.4.4.5.5       12.1.4.4.5	23 1614454		C2	7 days	12 Jul '24	18 Jul '24	1022	1024	-2 days	
International constructor back provided by international constructor b									,	pumping system; secondary screens and cor
Pick         Lab.4.6.1         water-production production at the ground floor of the program of the product of the				,.					,.	
Image         Image <th< td=""><td>25 <b>1.6.1.4.4.6</b></td><td>water-proofing installation</td><td>None</td><td>1 day?</td><td>1 Sep '22</td><td>1 Sep '22</td><td></td><td></td><td>687 days?</td><td></td></th<>	25 <b>1.6.1.4.4.6</b>	water-proofing installation	None	1 day?	1 Sep '22	1 Sep '22			687 days?	
221       24.14.5.1       15 Inspection       25 In 1/4       7 Nug 24       10.101 3397       3 dispin         23       6.1.4.5.1       RF       C2       24 dispin       25 Nug 24       10.101 3397       3 dispin         23       6.1.4.5.1       RF       C2       24 dispin       25 Nug 24       10.201 30197       10.202       17 dispin         231       6.1.4.6.1.1       Floor screeding, Surface Channel Installation       C2       10 dispin       2 Nug 24       1031       10.202       107403       17 dispin         231       6.1.4.6.1.1       Lawren andren finallation       C2       10 dispin       2 Nug 24       1031       10.202       10733       17 dispin         231       6.1.4.6.1.1       Lawren andren finallation       C2       10 dispin       2 Nug 24       10313       17 dispin         231       6.1.4.6.1.1       Lawren andren dispin dispi	)26 1.6.1.4.4.6.1	water-proofing installation at the ground floor of the	None	1 day?	1 Sep '22	1 Sep '22			687 days?	5
100       10.1.1.2.1       15 Impaction       C2       12 Jul 24       23 Jul 24       24 Jul 24       123 Jul 24       124 Jul 24       123 Jul 24       124 Jul 24       123 Jul 24       123 Jul 24       124 Jul 24       124 Jul 24       124 Jul 24										-
19:14.6.1       RF       C2       22 days       3 Jul 24       22 Mg 24       C4       C4       1.77 days         18:14.6.1.1       Floor screeding, Surface Channel Installation       C2       10 days       3 Jul 24       23 ul 24       1032       1.77 days         18:14.1.3       Floor screeding, Surface Channel Installation       C2       10 days       2 Jul 24       23 ul 24       1031       1.77 days         18:14:13       Layong AGT all Roof Floor       C2       10 days       2 Jul 24       1031       1033       1.77 days         18:14:13       Layong AGT all Roof Floor       C2       14 days       3 Mag 24       12 days       10 days       1.77 days         18:14:13       Detectrical works       C2       14 days       3 Mag 24       12 days       10 days       1.77 days         19:14:14:13       Touch up works for fair-faced concrete       C2       10 days       3 Mag 24       10 days       1.03 days       2.22 days         19:14:14:13       Touch up works for fair-faced concrete       C2       2 days       2 Jul 24       13 days       1.04 days       2.22 days         19:14:14:14       Touch up works for fair-faced concrete       C2       2 days       1.04 days       2.04 days       1.04 days       2.24									-	
190       1.6.1.4.6.1.1       FOR seconding. State Channel Installation       C2       21 day       21 day       23 uag 24       23 uag 24       1032       -17 days         21       1.6.1.4.6.1.2       watter proofing installation       C2       10 days       24 uag 24       1031       1033       -17 days         21       1.6.1.4.6.1.2       watter proofing installation       C2       12 days       3 uag 24       16 Aug 24       1032       -17 days         21       1.6.1.4.6.2.1       Exectual works       C2       14 days       3 uag 24       16 Aug 24       10335S. 1036SS. 1037S       +7 days         25       1.6.1.4.6.2.1       Exectual works       C2       14 days       3 uag 24       16 Aug 24       1033SS. 1037S       +7 days         26       1.6.4.6.2.1       Exectual works       C2       14 days       3 uag 24       16 Aug 24       1033SS. 1037S       +7 days         21       1.6.1.4.6.2.1       Functions       C2       14 days       3 uag 24       12 uag 24       1033SS. 1037S       +7 days         21       1.6.1.4.6.2.1       Functions       C2       14 days       3 uag 24       12 uag 24       1033SS. 1037S       +7 days         21       1.6.1.4.6.2.1       Functions							1012,1013,95	5:3		
19       19       16.1.4.6.1.1       Floor screeding, Surface Channel Installation       C2       21 day       2.4.1.4.1.2       2.4.1.4.2.1.2       1032       -17 days         13       16.1.4.6.1.3       Laying AGT at Root Floor       C2       21 days       3.4.02/24       1033       1033       -17 days         14       16.1.4.6.1.3       Laying AGT at Root Floor       C2       21 days       3.4.02/24       10335       3       -17 days         15       16.1.4.6.2.2       E&M works       C2       14 days       3.4.02/24       10335       3       -17 days         16       16.1.4.6.2.2       MVAC works       C2       14 days       3.4.02/24       10335       3       -17 days         16       16.1.4.7.1.1       Touchu pworks for fai-faced concrete       C2       21 days       24.1.02/24       10335       3       -16 days         16.1.4.7.1.1       Touchu pworks for fai-faced concrete       C2       21 days       24.1.02/24       104135-14 days.104/75       -22 days         16.1.4.7.1.1       Touchu pworks for fai-faced concrete       C2       21 days       12.01/24       13.01/24       104135-14 days.104/75       -22 days         16.1.4.7.2.1       Mindea malouree       None       16 days       16				-		-			-	
22       16.1.4.6.1.2       water moning installation       C2       10 days       24 larges       3.4.0.124       10.31       10.31       10.31       10.33       -1.7 days         3       16.1.4.6.1.3       Laymong AddT at Rool Floor       C2       14 days       3.4.0124       10.32       10.325       10.335       10.34       -1.7 days         51       16.1.4.6.2.1       Electrical works       C2       14 days       3.4.02 '4       10.342       10.335       3       -1.7 days         51       16.1.4.6.2.2       Plumbing and traisage works       C2       10.4.92       4       10.342       10.335       3       -1.7 days         51       16.1.4.7       A       Plumbing and traisage works       C2       10.4.92       10.4.92       10.335       3       -1.6 days         31       16.1.4.7       A       Plumbing and traisage works       C2       10.4.92       10.4.92       10.4.92       10.4.12       10.4				-		-		4000		
133       1.1.4.6.1.3       Laying AGT al Roof Floor       C.2       21 day       3.0.2       3.0.202       1.0.2055,10.0355, 1-7 days         14       15.1.4.6       Betworks       C.2       1.4.4 av       3.0.2       1.0.2055, 10.0355, 1.37 days         15       Listenda layor       Bienticitativotis       C.2       1.4.4 av       3.0.2       1.0.2055, 3       3       1.7 days         15       Listenda layor       C.2       1.0.4 av       3.0.2       1.0.4 av       3.0.2       1.0.2055, 3       3       1.0.4 av         16       Listenda layor       C.2       1.0.4 av       3.0.2       1.0.4 av       1.0.4		-		-						
44       16.4.6.2.0       16.4.0.4.0.0       16.4.0.2.0       16.4.0.0.0       16.4.0.2.0       16.4.0.0.0.0       16.4.0.0.0.0       16.4.0.0.0.0 </td <td></td>										
1919       154.46.2.1       Bierchaiworks       C2       14 days       3 Aug '24       16 Aug '24       103355       3       -17 days         12       16.14.6.2.2       M'VAC works       C2       10 days       3 Aug '24       12 Aug '24       103355       3       -17 days         12       16.14.6.2.2       M'VAC works       C2       10 days       3 Aug '24       12 Aug '24       103355       3       -17 days         13       16.14.7       External Fagade Works       C2       10 days       3 Aug '24       12 Aug '24       10 days       -22 days         14       16.14.7.1.1       Touch Up works for fair-faced concrete       C2       21 days       2 Aug '24       15 Aug '24       10415Sr14 days.10475       -22 days         16.14.7.1.3       Touch Up       None       42 days       2 Aug '24       15 Aug '24       1040       -0415Sr14 days.10475       -22 days         16.14.7.1.3       Touch Up       None       14 days       2 Aug '24       1040Sr14 '1042       -0402Sr14'1042       -16 days         16.14.7.1.3       Touch Up       None       12 days       14 days       12 Aug '24       1040       -22 days         16.14.7.2.1       Window and Lowre       None       12 days					-		1032	103555,103655,10375	-	
98       94.9       <				-	-	-	100000	2	-	
79       71.4.4.2.3       Pumbing and drainage works       C2       10 days       3 Aug. 24       12 Aug. 24       10335       3       -13 days         80       16.1.4.7       External Façade Works       C2       56 days       28 Jun. 24       15 Aug. 24       10 Jun. 24       5.2 days         80       16.1.4.7.1       Touch up works for fair-faced concrete       C2       21 days       28 Jun. 24       14 Jul. 24       10015514 days.10475       22 days         81.1.4.7.1       Touch up works for fair-faced concrete       C2       21 days       24 Jul. 24       140124       14012541 days.10475       22 days         81.1.4.7.1       Touch up works for fair-faced concrete       C2       21 days       21 days       10415514 days.10475       22 days         81.1.4.7.1       Touch up works for fair-faced concrete       C2       21 days       104124       1.40124       1.401254       3       -8 days         81.1.4.7.1       Unidow and Louve       None       24 days       19.1124       7 Aug 24       1.40124       3       -8 days         81.1.4.7.2.1       Installation of window       C2       45 days       1.9 Jul 24       1.40124       1.40124       3       -8 days         81.1.4.7.1       Installatin of window										
Bit Normal Sector       External Vorks       C2       55 days       28 un 24       15 Aug 24       C       -22 days         39       16.14.7.1       ABWF       None       49 days       28 un 24       15 Aug 24       104 ISS+14 days.10475       -22 days         39       16.14.7.1.1       Touch up works for fair-faced concrete       C2       21 days       28 un 24       15 Aug 24       104 ISS+14 days.10475       -22 days         41       16.14.7.1.2       Artifical granite tiles       C2       21 days       12 Jul 24       1 Aug 24       104 ISS+14 days.10475       -22 days         41       16.14.7.2       Artifical granite tiles       None       3 days       19 Jul 24       7 Aug 24       104 OSS+14 c1042       -6 days         41       16.14.7.2.1       Mindow and Louve       None       20 days       19 Jul 24       7 Aug 24       3       -8 days         41       16.14.7.2.2       Aug 11 Installation of tim       C2       45 days       19 Jul 24       7 Aug 24       1040       -8 days         41       16.14.7.2.2       Aug 11 Installation of tim       C2       45 days       113 days       1 Mar 24       10 Jul 24       24 Jul 24       24 Jul 24       24 Jul 24       24 Jul 24       38 days <t< td=""><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				· · ·						
Bits       16.1.4.7.1.1       ABWF       None       49 days       28 Jun '24       15 Aug '24       10 dut State       10 dut State       22 days         40       16.1.4.7.1.1       Touch up works for fair-faced concrete       C2       21 days       23 dun '24       18 dul '24       10 dut State       10 dut State       22 days         41       16.1.4.7.1.3       Touch up works for fair-faced concrete       C2       21 days       23 dur '24       15 Aug '24       10 dut State       16 days       -22 days         42       16.1.4.7.1.3       Touch up works for fair-faced concrete       None       14 days       2 Aug '24       15 Aug '24       10 dut State       -22 days         43       16.1.4.7.2       Steel Structure Works       None       20 days       19 lul '24       7 Aug '24       10 dut       -8 days         45       16.1.4.7.2.1       Installation of fin       C2       45 days       8 lul '24       21 Aug '24       10 dut       -8 days       -22 days         46       16.1.4.7.2.1       Installation of fin       C2       45 days       8 lul '24       12 day '24       10 dut '24       10 d							103555	3		
400       16.14.71.1       Touch up works for fair-faced concrete       C2       21 days       28 Jun '24       18 Jul '24       1041 SS+14 days.1047S       22 days         41       16.14.71.12       Artificial granite liles       C2       21 days       12 Jul '24       1 Aug '24       1040 SS+14 (1042)       -16 days         42       16.14.71.2       Artificial granite liles       C2       21 days       24 Jul '24       1 Aug '24		_		-						
11       16.1.4.7.1.2       Artifical grantle tiles       C2       21 days       12 Jul '24       1 Aug '24       1040SS+14 (1042)       -16 days         12       16.1.4.7.1.3       Touch Up       None       42 days       2 Aug '24       1041       3       -16 days         12       16.1.4.7.1.3       Touch Up       None       42 days       Aug '24       1041       3       -16 days         141       16.1.4.7.2.1       Window and Louve       None       42 days       19 Jul '24       7 Aug '24       1040       -8 days         15.1.4.7.2.1       Mindow and Louve       None       42 days       19 Jul '24       7 Aug '24       1040       -8 days         16.1.4.7.2.1       Installation of window       C2       42 days       11 Aug '24       1040       -8 days         16.1.4.7.2.1       Installation of fin       C2       45 days       8 Jul '24       16 Jul '24       0400       -8 days         16.1.4.7.2.1       Installation of fin       C2       128 days       1 Mar '24       12 Jul '24       10405510 da's       32 days         17.1       External Works beside Underpass and pumping station       C2       10 days       1 Mar '24       10 Jul '24       10 Mar '24       10 Mar '24       10 Mar '				-		-		1041SS+14 days 1047S		
Num       14 days       2 Aug'24       15 Aug'24       1041       3       -16 days         Num       16 Lav7.2       Steel Structure Works       None       8 days       8 Jul'24       21 Aug'24       1041       3       -22 days         16 Lav7.2       Window and Louve       None       20 days       9 Jul'24       7 Aug'24       1040       -22 days         16 Lav7.2       Window and Louve       C2       20 days       9 Jul'24       7 Aug'24       1040       -8 days         16 Lav7.2.1       Installation of window       C2       45 days       8 Jul'24       1 Aug'24       1040       -22 days         16 Lav7.2.2       Aluminium Fin       C2       45 days       8 Jul'24       1 Aug'24       1 Aug'24       1 Aug'24       1 Aug'24       1 Aug'24       -22 days         17       External Works beside Underpass and pumping station       C2       45 days       1 Mar'24       1 G Jul'24       1 Aug'24				,			1040SS+14	-	-	
None       Stade Structure Works       None       Stade Stade Stade Structure Works       None       Stade				-						
M44       16.1.4.7.2.1       Window and Louvre       None       20 days       19 Jul 24       7 Aug 24       3       3       8 days         5       16.1.4.7.2.1.1       Installation of window       C2       20 days       19 Jul 24       7 Aug 24       1040       -8 days         6       16.1.4.7.2.2.1       installation of mindow       C2       45 days       8 Jul 24       21 Aug 24       1040       -22 days         70       16.1.4.7.2.2.1       installation of fin       C2       45 days       8 Jul 24       21 Aug 24       104055+10 da 3       -22 days         70       16.1.4.7.2.2.1       installation of fin       C2       45 days       8 Jul 24       21 Aug 24       104055+10 da 3       -22 days         70       T.2       Rising main laying       None       123 days       1 Mar 24       10 Jul 24       53 days         77       7.2.1       Remaining rising main beside FMH223 to 223A (25m)       C2       7 days       1 Mar 24       10				-			10.1	<u> </u>		
H45       1.6.1.4.7.2.1.1       Installation of window       C2       20 days       19 Jul '24       7 Aug '24       1040       -8 days         H45       1.6.1.4.7.2.2       Aluminium Fin       C2       45 days       8 Jul '24       21 Aug '24       1040       -22 days         H47       1.6.1.4.7.2.1       installation of fin       C2       45 days       8 Jul '24       21 Aug '24       10400sts+10 dar3       -22 days         H47       1.6.1.4.7.2.1       installation of fin       C2       45 days       8 Jul '24       21 Aug '24       10400sts+10 dar3       -22 days         H49       1.7       External Works beside Underpass and pumping station       C2       128 days       1 Mar '24       12 Jun '24       1040sts+10 dar3       53 days         177       1.7.2       Rising main baside FMH223 to 223A (25m)       C2       10 days       1 Mar '24       10 Mar '24       1081       3       75 days         17.2.2       Rising main baside FMH223 to 223B       C2       7 days       1 Mar '24       1 Jul '24       1081       3       75 days         17.3.3       Water mains laying       None       71 days       7 May '24       16 Jul '24       1083       24 days       Water         183       1.7.3.3				-		-		3		
Med       16.1.4.7.2.2       Aluminium Fin       C2       45 days       8 Jul '24       21 Aug '24       Med       -22 days         Med       16.1.4.7.2.2.1       installation of fin       C2       45 days       8 Jul '24       21 Aug '24       10405710 days       -22 days         Med       Installation of fin       C2       25 days       8 Jul '24       16 Jul '24       10405710 days       -22 days         Med       Installation of fin       C2       128 days       1 Mar '24       21 Aug '24       1040 '24       0       38 days         Med       Installation of fin       None       113 days       1 Mar '24       1 Jul '24       10       -22 days       38 days         Med       Installation of fining main laying       None       123 days       1 Mar '24       1 Jul '24       10       -21 days       38 days         Med       Installation of fining main laying       None       123 days       1 Mar '24       1 Jul '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24       1081 '24				-		-	1040		-	
447       1.6.1.4.7.2.2.1       installation of fin       C2       45 days       8 Jul '24       124 ug '24       104055+10 da'3       -22 days         449       1.7       External Works beside Underpass and pumping station       C2       128 days       1 Mar '24       16 Jul '24       -22 days       36 days         50       1.7.1       Sewage works       None       113 days       1 Mar '24       1 Jul '24       -22 days       36 days         707       1.7.2       Rising main beside FMH223 to 223A (25m)       C2       10 days       1 Mar '24       10 Mar '24										· · · · · · · · · · · · · · · · · · ·
M44       1.7       External Works beside Underpass and pumping station       C2       128 days       1 Mar '24       16 Jul '24       10       38 days         M50       1.7.1       Sewage works       None       113 days       1 Mar '24       1 Jul '24       1 Jul '24       53 days       53 days         M70       1.7.2       Remaining rising main beside FMH223 to 223A (25m)       C2       10 days       1 Mar '24       1 Jul '24       1081       3       75 days         M70       1.7.2.1       Remaining main beside FMH223 to 223B       C2       7 days       10 May '24       16 May '24       1081       3       75 days         M70       1.7.3.1       Waterworks cross the sewer FMH223 to 223B       C2       7 days       7 May '24       16 Jul '24       1075       53 days       Last section of rising main beside FMH223 to 223B       C2       3 days       7 May '24       16 Jul '24       1083       24 days       Materworks lay up to EVA no.9       C2       50 days       11 days       14 days       418 days for pressure test and swabbing; and 7 days for preparation; 7 days for pressure test and swabbing; and 7 days connection       16 Jul '24       16 Jul '24       1083       24 days       14 days		installation of fin	C2	45 days	8 Jul '24		1040SS+10 d	a <mark>r</mark> 3	-22 days	
Sewage works       None       113 days       1 Mar '24       21 Jun '24       1 Mar '24       21 Jun '24       1 Jul '24	48									
None       123 days       1 Mar '24       1 Jul '24       1 Jul '24       53 days         177       1.7.2.1       Remaining rising main beside FMH223 to 223A (25m)       C2       10 days       1 Mar '24       10 Mar '24       10 Mar '24       156 days       156 days       156 days       157       177       1.7.2.2       Rising main beside FMH223 to 223B       C2       7 days       10 Mar '24       10 Mar '24       1081       3       75 days       75 days       75 days       1.7.3.3       Last section of rising main upto the pumping station (around 4 C2       10 days       7 May '24       16 Jul '24       1075       53 days       Last section of rising main beside FMH223 to 223B       C2       3 days       7 May '24       16 Jul '24       1075       53 days       Last section of rising main beside FMH223 to 223B       C2       3 days       7 May '24       16 Jul '24       1078       75 days       Vater       1.7.3.3       Waterworks lay up to EVA no. 9       C2       5 days       11 Jun '24       15 Jun '24       1083       24 days       4 days <td>049 <b>1.7</b></td> <td>External Works beside Underpass and pumping station</td> <td>C2</td> <td>128 days</td> <td>1 Mar '24</td> <td>16 Jul '24</td> <td></td> <td></td> <td>38 days</td> <td>5</td>	049 <b>1.7</b>	External Works beside Underpass and pumping station	C2	128 days	1 Mar '24	16 Jul '24			38 days	5
77       1.7.2.1       Remaining rising main beside FMH223 to 223A (25m)       C2       10 days       1 Mar '24       10 Mar '24       11 Mar '24       10 Mar '24       11 Mar '24       10 Mar '24       11 Mar '24       10 Mar '24       <	50 <b>1.7.1</b>	Sewage works	None	113 days	1 Mar '24	21 Jun '24			53 days	
78       1.7.2.2       Rising main beside FMH223A to 223B       C2       7 days       10 May '24       16 May '24       1081       3       75 days         79       1.7.2.3       Last section of rising main up to the pumping station (around 4 C2       10 days       22 Jun '24       1 Jul '24       1075       53 days       Last section of rising main up to the pumping station (around 4 C2       10 days       22 Jun '24       1 Jul '24       1075       53 days       Last section of rising main up to the pumping station (around 4 C2       10 days       22 Jun '24       1 Jul '24       1075       53 days       Last section of rising main up to the pumping station (around 4 C2       3 days       7 May '24       9 May '24       418       1078       75 days       Last section of rising main up to the pumping station (around 4 C2       3 days       7 May '24       9 May '24       418       1078       75 days       Last section of rising main up to the pumping station (around 4 C2       5 days       11 Jun '24       15 Jun '24       418       1078       75 days       Water         81       1.7.3.2       waterworks lay up to EVA no.9       C2       5 days       11 Jun '24       15 Jun '24       1082,1108,113       14 days       days for preparation; 7 days       15 Jun		Rising main laying	None	123 days	1 Mar '24	1 Jul '24				
17.2.3       Last section of rising main up to the pumping station (around 4 C2       10 days       22 Jun '24       1 Jul '24       1075       53 days       Last section         17.3       Water mains laying       None       71 days       7 May '24       16 Jul '24       1075       14 days       14 days         181       1.7.3.1       Water works cross the sewer FMH223A to 223B       C2       3 days       7 May '24       9 May '24       418       1078       75 days       Water         182       1.7.3.2       waterworks lay up to EVA no. 9       C2       5 days       11 Jun '24       15 Jun '24       1083       24 days       44 days </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				-						
None       71 days       7 May '24       16 Jul '24       16 Jul '24       14 days       14 days </td <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>1081</td> <td>3</td> <td>-</td> <td></td>		-		-	-	-	1081	3	-	
1.7.3.1       Waterworks cross the sewer FMH223A to 223B       C2       3 days       7 May '24       9 May '24       418       1078       75 days         1.7.3.2       waterworks lay up to EVA no. 9       C2       5 days       11 Jun '24       15 Jun '24       1083       24 days         1.8.3       1.7.3.3       arrange water mains connection (10 days for preparation; 7 days connection)       C2       21 days       26 Jun '24       16 Jul '24       1082,1108,11 3       14 days       days for preparation; 7 days for preparation; 7 days for pressure test and swabbing; and 7 days connection       C2       676 days       1 Sep '22       29 Jul '24       1082,1108,11 3       14 days       days for preparation; 7 days for preparation; 7 days for pressure test and swabbing; and 7 days connection       C2       676 days       1 Sep '22       29 Jul '24       1082,1108,11 3       14 days       days for preparation; 7 days for preparation; 7 days for preparation; 7 days for preparation; 7 days for pressure test and swabbing; and 7 days connection       C2       676 days       1 Sep '22       29 Jul '24       1082,1108,11 3       14 days       days for preparation; 7 days for preparation; 7 days for preparation; 7 days for preparation; 7 days for pressure test and swabbing; and 7 days connection       16 Jul '24       1082,1108,11 3       14 days       14 days       0 days for preparation; 7 days for preparation; 7 days for preparation; 7 days       15 days       16 Jul '24							1075		-	
Waterworks lay up to EVA no. 9C25 days11 Jun '2415 Jun '24108324 daysWaterworks lay up to EVA no. 9arrange water mains connection (10 days for preparation; 7 days for pressure test and swabbing; and 7 days connectionC221 days26 Jun '2416 Jul '241082,1108,11314 days0 days for preparation; 7 days for preparation; 7daysWaterworks lay up to EVA no. 7C2676 days1 Sep '2229 Jul '241082,1108,11314 days0 days for preparation; 7 daysdaysWaterworks lay up to EVA no. 7C2676 days1 Sep '2229 Jul '241082,1108,11314 days0 days for preparation; 7 				-	-				-	
No.1.7.3.3arrange water mains connection (10 days for preparation; 7 days for pressure test and swabbing; and 7 days connectionC221 days26 Jun '2416 Jul '241082,1108,1 '314 daysdaysdays for preparation; 7 days forNo.1.8EVA no. 7C2676 days1 Sep '2229 Jul '2416 Jul '241082,1108,1 '314 daysdays for preparation; 7 days forNo.1.8.1U/G serviceC2192 days15 Dec '2315 Jul '2415 Jul '2415 daysNo.1.8.1.1DN315 sewer with 2.5m deep after diversion Site 4E1 to use Road L12dC227 days15 Dec '2310 Jan '2410873155 daysNo.1.8.1.1.2DN600 water main is to be laid after sewer completeC225 days11 Jan '244 Feb '2410873155 daysLaid after sewer complete					,	-	418		-	
add a days for pressure test and swabbing; and 7 days connectionadd a days for pressure test and swabbing; and 7 days connectionadd a days for pressure test and swabbing; and 7 days connection841.8EVA nos.7 to 10C2676 days1 Sep '2229 Jul '241 day851.8.1EVA no. 7C2192 days15 Dec '2315 Jul '2415 days861.8.1.1U/G serviceNone163 days15 Dec '239 Jun '241121,1088155 daysuse Road L12d881.8.1.1.2DN600 water main is to be laid after sewer completeC225 days11 Jan '244 Feb '2410873155 dayslaid after sewer complete1121,1088				-						
84       1.8       EVA nos.7 to 10       C2       676 days       1 Sep '22       29 Jul '24       1 day         85       1.8.1       EVA no. 7       C2       192 days       15 Dec '23       15 Jul '24       15 days       15 days         86       1.8.1.1       U/G service       None       163 days       15 Dec '23       9 Jun '24       51 days       51 days         87       1.8.1.1.1       DN315 sewer with 2.5m deep after diversion Site 4E1 to use Road L12d       C2       27 days       15 Dec '23       10 Jan '24       1121,1088       155 days       use Road L12d       14         88       1.8.1.1.2       DN600 water main is to be laid after sewer complete       C2       25 days       11 Jan '24       4 Feb '24       1087       3       155 days       Laid after sewer complete       14	83 1.7.3.3		C2	21 days	26 Jun '24	16 Jul '24	1082,1108,1	113	14 days	D days for preparation; 7 days for pressure to
851.8.1EVA no. 7C2192 days15 Dec '2315 Jul '2415 days861.8.1.1U/G serviceNone163 days15 Dec '239 Jun '2451 days871.8.1.1.1DN315 sewer with 2.5m deep after diversion Site 4E1 to use Road L12dC227 days15 Dec '2310 Jan '241121,1088155 days881.8.1.1.2DN600 water main is to be laid after sewer completeC225 days11 Jan '244 Feb '2410873 days155 dayslaid after sewer complete	84 <b>1.8</b>		C2	676 days	1 Sep '22	29 Jul '24			1 dav	
861.8.1.1U/G serviceNone163 days15 Dec '239 Jun '2451 days871.8.1.1.1DN315 sewer with 2.5m deep after diversion Site 4E1 to use Road L12dC227 days15 Dec '2310 Jan '241121,1088155 daysuse Road L12d11881.8.1.1.2DN600 water main is to be laid after sewer completeC225 days11 Jan '244 Feb '2410873155 dayslaid after sewer complete11				-	-				-	
371.8.1.1.1DN315 sewer with 2.5m deep after diversion Site 4E1 to use Road L12dC227 days15 Dec '2310 Jan '241121,1088155 daysuse Road L12d381.8.1.1.2DN600 water main is to be laid after sewer completeC225 days11 Jan '244 Feb '2410873155 dayslaid after sewer complete				-					-	
88 1.8.1.1.2 DN600 water main is to be laid after sewer complete C2 25 days 11 Jan '24 4 Feb '24 1087 3 155 days laid after sewer complete 📩				-				1121,1088	-	
	88 1.8.1.1.2		C2	25 days	11 Jan '24	4 Feb '24	1087	3	155 days	e laid after sewer complete 📩 4/2
	089 1.8.1.1.3	Gas main	C2	6 days	19 Feb '24	24 Feb '24		1098	81 days	
	1					I			<b>,</b> -	

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D WBS	Task Name		Duration	Start	Finish	Predecessors	Successors	Total Slack		Half 1, 2024	
1000 1 9 1 1 4	Talaaam	Calendar	dava	6 Mar '24	13 Mar '24	1009	1000	91 dovo	N	J Telecor	<b>—</b>
1090 <b>1.8.1.1.4</b> 1091 <b>1.8.1.1.5</b>	Telecom Storm SMH419-420		3 days 4 days	30 Mar '24	12 Apr '24	1098	1099 3	81 days		Storm SI	- <b>-</b>
	CLP 132kV		•		•	111500		99 days		50000	1
1092 <b>1.8.1.1.6</b>	CLP 132KV CLP 11kV			6 May '24	19 May '24		1093	1 day	1		
1093 <b>1.8.1.1.7</b> 1094 <b>1.8.1.2</b>	EVA construction		21 days 81 days	20 May '24 15 Jun '24	9 Jun '24 15 Jul '24	1092	1095FS+5 days	1 day			
1094 1.8.1.2	Formation to subbase & surface drain		-	15 Jun '24	28 Jun '24	1093FS+5 da	1006	1 day 1 day			F
1095 1.8.1.2.1	Bitumen and paving block (EVA 7)		•	29 Jun '24	15 Jul '24		3,1028	1 day			
1096 <b>1.8.1</b> .2.2	EVA no. 8			29 Juli 24 25 Feb '24	21 Jul '24	1095	3,1020	9 days			
1097 <b>1.8.2</b>	DN300 water main connect to washout chamber		-	25 Feb 24 25 Feb '24	5 Mar '24	1089	1090		00 water main connect	to washout chamber	i,
1098 1.8.2.1	washout chamber construction for water mains			14 Mar '24	27 Mar '24		1100	81 days	1	onstruction for water m	1
1100 1.8.2.3	50m DN315 sewer from FMH333 to 334		-	28 Mar '24	17 Apr '24		1101	81 days		N315 sewer from FMH3	1
1100 1.8.2.3	50m DN750 storm drains from SMH418 to 419		-	18 Apr '24	•	1100	3	81 days		DN750 storm drains fro	1
1101 1.8.2.4 1102 <b>1.8.2.5</b>	3 nos. 3.5m x 3.5m draw pits for CLP cabling works to the		,	24 May '24	6 Jun '24	976FS+7	1103	,		raw pits for CLP cabling	1.1
1102 1.0.2.5	transformer room	02 1	4 days	24 Way 24	0 Juli 24	days	1105	-5 days	5 1103. 5.5111 × 5.5111 0		J 100
1103 1.8.2.6	50m DN100 water mains	C2 1	0 days	7 Jun '24	16 Jun '24		1104	-5 days			1
1104 1.8.2.7	EVA no. 8 construction	C2 3	35 days	17 Jun '24	21 Jul '24	1103	3,1028	-5 days			
1105 <b>1.8.3</b>	EVA no. 9		B6 days	10 Apr '24	14 Jul '24			1 day			
1106 <b>1.8.3.1</b>	Waterworks and Others		-	10 Apr '24	7 Jul '24			1 day			
1107 <b>1.8.3.1.1</b>	Watermains		•	10 Apr '24	7 Jul '24			1 day			i -
1108 1.8.3.1.1.1	Main pipes (40m x 3)		0 days	10 Apr '24	19 Apr '24	923	1113,1083	1 day		Main	pipe
1109 1.8.3.1.1.2			) days	14 Jun '24	14 Jun '24		1110,1111	14 days			1
1110 1.8.3.1.1.3	Branch pipes (50m x 2) (after road diversion to Gate 2A)		-	14 Jun '24	25 Jun '24		3,1083	14 days		Branch pipes (5	0m :
1111 1.8.3.1.1.4	SWI dosing pipe and buliding plumbing (lay on top of uu) (after road diversion to Gate 2A)		4 days	14 Jun '24	7 Jul '24	1109	3	23 days/l	dosing pipe and bulidi	ng plumbing (lay on to	p of
1112 <b>1.8.3.1.2</b>	UU (40m)	C2 4	1 days	20 Apr '24	9 Jun '24			1 day			i -
1113 <b>1.8.3.1.2.1</b>	Gas main	C2 6	6 days	20 Apr '24	5 May '24	1108	1114,1115	1 day			į.
1114 1.8.3.1.2.2	Telecom	C2 6	6 days	6 May '24	11 May '24	1113	3	80 days			i -
1115 <b>1.8.3.1.2.3</b>	CLP 132kV	C2 1	4 days	6 May '24	19 May '24	1113	1116,1092SS	1 day			i -
1116 1.8.3.1.2.4	CLP 11kV	C2 2	21 days	20 May '24	9 Jun '24	1115	1118	2 days			i -
1117 <b>1.8.3.2</b>	EVA no.9 construction	C2 3	85 days	10 Jun '24	14 Jul '24			2 days			1
1118 <b>1.8.3.2.1</b>	Formation to subbase & surface drain	C2 1	4 days	10 Jun '24	23 Jun '24	1116	1119	2 days			For
1119 <b>1.8.3.2.2</b>	Bitumen and paving block (EVA 9)	C2 2	21 days	24 Jun '24	14 Jul '24	1118	3,1028	2 days			1
1120 <b>1.8.4</b>	EVA no. 10	C2 8	84 days	7 May '24	29 Jul '24			1 day			
1121 <b>1.8.4.1</b>	Permanent run-in of the road D3 construction	C2 2	23 days	8 May '24	30 May '24	1087	3	61 days			1
1127 <b>1.8.4.2</b>	EVA construction	None 8	84 days	7 May '24	29 Jul '24			1 day			1
1128 <b>1.8.4.2.1</b>	middle part	None 8	80 days	7 May '24	25 Jul '24			5 days			1
1129 <b>1.8.4.2.1.1</b>	stockpile vacation	C2 24	24 days	7 May '24	30 May '24		1130FS+5 days	5 days			1
1130 <b>1.8.4.2.1.2</b>	duct and drawpits	C2 14	4 days	5 Jun '24	18 Jun '24	1129FS+5 da	1131	5 days	1		1
1131 1.8.4.2.1.3	backfilling	C2 5	i days	19 Jun '24	23 Jun '24	1130	1132	5 days	1		1
1132 1.8.4.2.1.4	u-channel and fire main laying	C2 14	4 days	24 Jun '24	7 Jul '24	1131	1133SS+9 days	5 days			l.
1133 1.8.4.2.1.5	subbase laying	C2 12	2 days	3 Jul '24	14 Jul '24	1132SS+9 day	1134SS+9 days	5 days			
1134 <b>1.8.4.2.1.6</b>	paving blocks laying	C2 1	4 days	12 Jul '24	25 Jul '24	1133SS+9 da	3	5 days			
1135 <b>1.8.4.2.2</b>	end part	None 5	0 days	10 Jun '24	29 Jul '24			1 day			
1136 1.8.4.2.2.1	25m DN225 storm drain (PMH365 to 362)	C2 6	6 days	18 Jun '24	23 Jun '24	1137	1138	1 day			25m
1137 <b>1.8.4.2.2.2</b>	53m DN375 storm drain (PMH362 to 361)	C2 8	3 days	10 Jun '24	17 Jun '24	331	1138,1136	1 day		53	m Dl
1138 <b>1.8.4.2.2.3</b>	duct and drawpits	C2 8	3 days	24 Jun '24	1 Jul '24	1137,1136	1139	1 day			1
1139 1.8.4.2.2.4	u-channel and fire main laying	C2 12	2 days	2 Jul '24	13 Jul '24	1138	1140	1 day			l l
1140 1.8.4.2.2.5	EVA underneath bridge D3	C2 1	6 days	14 Jul '24	29 Jul '24	1139	1142FF	1 day			
1141 <b>1.8.4.3</b>	Hard and soft landscaping works	C2 1	0 days	20 Jul '24	29 Jul '24			1 day			1
1142 1.8.4.3.1	Hard and soft landscaping works	C2 1	0 days	20 Jul '24	29 Jul '24	1140FF	3	1 day			
1143 <b>1.8.5</b>	Box Culvert	C2 4	151 davs	1 Sep '22	25 Nov '23			226 days	Box Culvert		

Task Milestone	•	Summary Project Summary	Start-only Finish-only	с Э	Critical Critical Split		Progress Manual Progress
						Page 12 of 12	



# Appendix C – Apply permission for Environmental Monitoring

Propose alternative monitoring location: The Lok Sin Tong Modular Social Housin	ng Scheme
Status: Rejected application	
Email on: 10 May 2022	Email on: 13 October 2022
Subject The Lok Sin Tong Benevolent Society Kowloon - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development	Subject The Lok Sin Tong Benevolent Society Kowloon - Reject to Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development
To Bcc	To Bcc
Date 2022-05-10 15:48	Date 2022-10-13 15:52
<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> <li>Company: The Lok Sin Tong Benevolent Society Kowloon By Email (</li></ul>	Date       2022-10-13 15:52         Company: The Lok Sin Tong Benevolent Society Kowloon         By Email         Dear Sir/         Referring to the communication between your staff and me regarding the captioned work at 21 September 2022, the Lok Sin Tong Benevolent Society Kowloon was rejected the apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development.         Dut to electricity supply and security concern in Modular House , Environmental monitoring at Modular House is not allowed open.         Should you have any enquires regarding the measurement, please do not hesitate to contact         Thank you for your kind attention and I look forward to receiving your favourable reply soon.         Yours Sincerely,         Lee Wing Hang         Ka Shing Management Consultant Limited
The monitoring location will be located on the roof top floor of The Lok Sin Tong Modular Social Housing Scheme at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size $0.5m$ (L) x $0.5m$ (W) x $1.4m$ (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue noise measurement.	
We hope to conduct site visit at 13:30 pm of 25 May 2022 (Wed). Should you have any enquires regarding the measurement, please do not hesitate to contact at	
Thank you for your kind attention and I look forward to receiving your favourable reply soon.	
Yours Sincerely,	
Lee Wing Hang Ka Shing Management Consultant Limited	

Propose alternative monitoring location: Freder Centre	
Status: No reply from building management office unit the reporting month	
Email on: 19 July 2022	
Subject Freder Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development	
From	
To Bcc	
Date 2022-07-19 13:33	
<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> </ul>	
<ul> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> </ul>	
Company: Freder Centre	
By Email	
Dear Sin	
Re: Environmental Monitoring for Kai Tak Development – Stage 4 Infrastructure at the former runway and south apron	
We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the EM&A programme of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron (KTD Stage 4 Project) starting from July 2019 to May 2024.	
KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular 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. Your premise, Hong Kong Society for Blind Workshop and Hotels, is one of the proposed sensitive receivers.	
We would like to obtain your kind permission for entering the premise to carry out baseline and impact monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30- minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.	
After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six days.	
The monitoring location will be located on the roof top floor of Freder Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue noise measurement.	
We hope to conduct site visit at 15:30pm of 26 July 2022 (Tue).	
Should you have any enquires regarding the measurement, please do not hesitate to contactat	
Thank you for your kind attention and I look forward to receiving your favourable reply soon.	
Yours Sincerely,	
Lee Wing Hang Ka Shing Management Consultant Limited	

Propose alternative monitoring location: New Port Centre	
Status: No reply from building management office unit the reporting month	
Email on: 19 July 2022	Email on: 17 August 2022
Subject New Port Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development	Subject Kum Shing Group and Hong Kong Energy Infrastructure Limited - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development
Date 2022-07-19 13:33	Всс
<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> </ul>	Date 2022-08-17 11:54
Definition of the second s	<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> <li>Juip 01.jpg(~2.6 MB)</li> </ul> Company: Kum Shing Group and Hong Kong Energy Infrastructure Limited By Email

Propose alternative monitoring location: New Port Centre	
Status: No reply from building management office unit the reporting month	
Email on: 19 August 2022	Email on: 15 September 2022
	Subject New Port Centre - Apply permission for Environmental Monitoring for Stage 4 of Kai Tak Development
Subject RE: Kum Shing Group and Hong Kong Energy Infrastructure	
	То
Limited - Apply permission for Environmental Monitoring for	Bcc
Stage 4 of Kai Tak Development	Date 2022-09-15 15:35
From	
	<ul> <li>Figure 1 Impact dust measurement setup.jpg(~1.2 MB)</li> <li>Figure 2 Impact noise measurement setup.jpg(~979 KB)</li> </ul>
To	<ul> <li>Figure 3 expect Impact dust measurement setup.png(~267 KB)</li> <li>Figure 4 power supply plug.jpg(~2.6 MB)</li> </ul>
ſc	Company New Dask Castro & Currents environ limited
	Company: New Port Centre & Synergis management services limited
Date 2022-08-19 08:36	By Email
	Dear Sir,
Dear Mr. LEE,	Re: Environmental Monitoring for Kai Tak Development – Stage 4 Infrastructure at the former runway and south apron
Deal MI. LEC,	We, Ka Shing Management Consultant Limited (KS), is appointed by Civil Engineering and Development
	Department (CEDD), working as Environmental Team (ET) to conduct the monitoring and audit works as part of the Kai Tak Development - Stage 4 Infrastructure at the former runway and south apron
As we do not have ownership to the roof, we'd suggest you to approach the management company of Newport	(KTD Stage 4 Project) starting from July 2019 to May 2024.
Center for further discussion.	KTD Stage 4 project is located in the south-eastern part of Kowloon Peninsular 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
https://www.synergis.com.hk/html/en/	Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. Your premise, New Port Centre, is one of the proposed sensitive receivers.
	We would like to obtain your kind permission for entering the premise to carry out baseline and impact
best,	monitoring, baseline dust monitoring (1-hour and 24-hour TSP monitoring) and baseline noise monitoring (30- minute) would need to conduct continuously for 14 days, our propose baseline monitoring date is August 2022.
Paul Lee	
raul Lee	After baseline monitoring, impact dust monitoring (1-hour and 24-hour TSP monitoring) and impact noise monitoring (30-minute) would take place between 08:00 hrs to 18:00 hrs in normal working days once every six
	days.
	The monitoring location will be located on the roof top floor of New Port Centre at Junction of Sung Wong Toi Road and To Kwa Wan Road facing to Kai Tak Development area. 220V power supply is needed for 24-hour TSP
	monitor with size 0.5m (L) x 0.5m (W) x 1.4m (H). We will pay for the electricity. Similar setup photo records are shown in Figure 1 and Figure 2 for your kindly reference. The expect of impact dust measurement
	setup photo records are shown in Figure 3 and the power supply will come from the roof of the socket (Figure 4) for reference. Our technician will stay at the measurement point for 1-hour TSP and 30-mintue
	noise measurement.
	Should you have any enquires regarding the measurement, please do not hesitate to contact at
	Thank you for your kind attention and I look forward to receiving your favourable reply soon.
	Yours Sincerely,
	Lee Wing Hang
	Ka Shing Management Consultant Limited

# **Appendix D – Environmental monitoring schedules**

## Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Environmental Monitoring and Weekly Site Inspection Schedule for June 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6 Weekly Site Inspection 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	7	8
9	10	11 Weekly Site Inspection + SSMC meeting	12 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	13	14	15
16	17	18 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	19	20 Weekly Site Inspection	21	22
23	24 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	25	26	27 Weekly Site Inspection	28	29 24-hr TSP: AM3, AM4(A), AM7 1-hr X3 TSP: AM3, AM4(A), AM7
30						

June 2024

NOTE:

1) Site inspection schedule and Impact monitoring schedule may be changed due to unforeseen circumstance (e.g. adverse weather).

## Air Quality Monitoring Station

AM3 - Sky Tower AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop AM7 - Hong Kong Children's Hospital

## Noise Quality Monitoring Station

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop M12 - Hong Kong Children's Hospital

## Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Tentative Environmental Monitoring and Weekly Site Inspection Schedule for July 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
				Weekly Site Inspection	24-hr TSP: AM3,	
					AM4(A), AM7	
					1-hr X3 TSP: AM3,	
					AM4(A), AM7	
-					30-min Noise: M11, M12	10
7	8	9	10	11	12	13
		Weekly Site Inspection +		24-hr TSP: AM3,		
		SSMC meeting		AM4(A), AM7		
				1-hr X3 TSP: AM3, AM4(A), AM7		
				30-min Noise: M11, M12		
14	15	16	17	18	19	20
17	15	10	24-hr TSP: AM3,	Weekly Site Inspection	19	20
			AM4(A), AM7	weekly site inspection		
			1-hr X3 TSP: AM3,			
			AM4(A), AM7			
			30-min Noise: M11, M12			
21	22	23	24	25	26	27
		24-hr TSP: AM3,		Weekly Site Inspection		
		AM4(A), AM7				
		1-hr X3 TSP: AM3,				
		AM4(A), AM7				
		30-min Noise: M11, M12				
28	29	30	31			
	24-hr TSP: AM3,					
	AM4(A), AM7					
	1-hr X3 TSP: AM3,					
	AM4(A), AM7					
	30-min Noise: M11, M12					

July 2024

NOTE:

1) Site inspection schedule and Impact monitoring schedule may be changed due to unforeseen circumstance (e.g. adverse weather).

2) Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A) and M11), the premises owner rejected ET to conduct impact monitoring starting from 1 Sept 2022. No 24-TSP monitoring will be conducted at AM4(A) while 1-hr TSP at AM4(A) and 30-min noise monitoring at M11 will be conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) and M11 are confirmed.

Air Quality Monitoring Station

AM3 - Sky Tower

AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

AM7 - Hong Kong Children's Hospital

**Noise Quality Monitoring Station** 

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

M12 - Hong Kong Children's Hospital

# Appendix E – Photographic records

## Impact TSP Monitoring

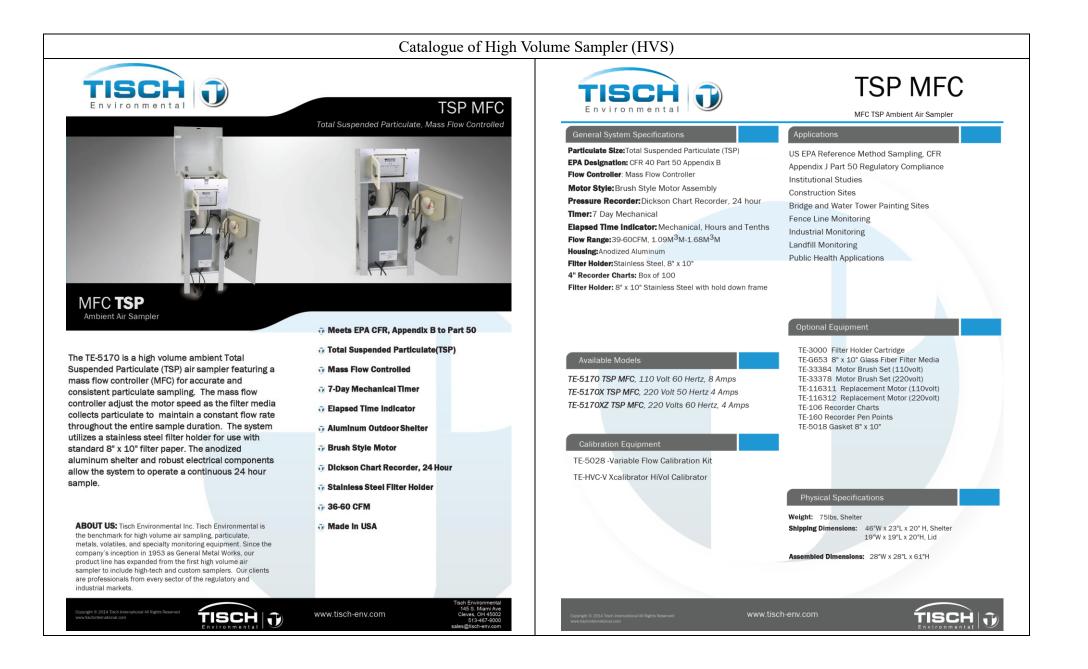


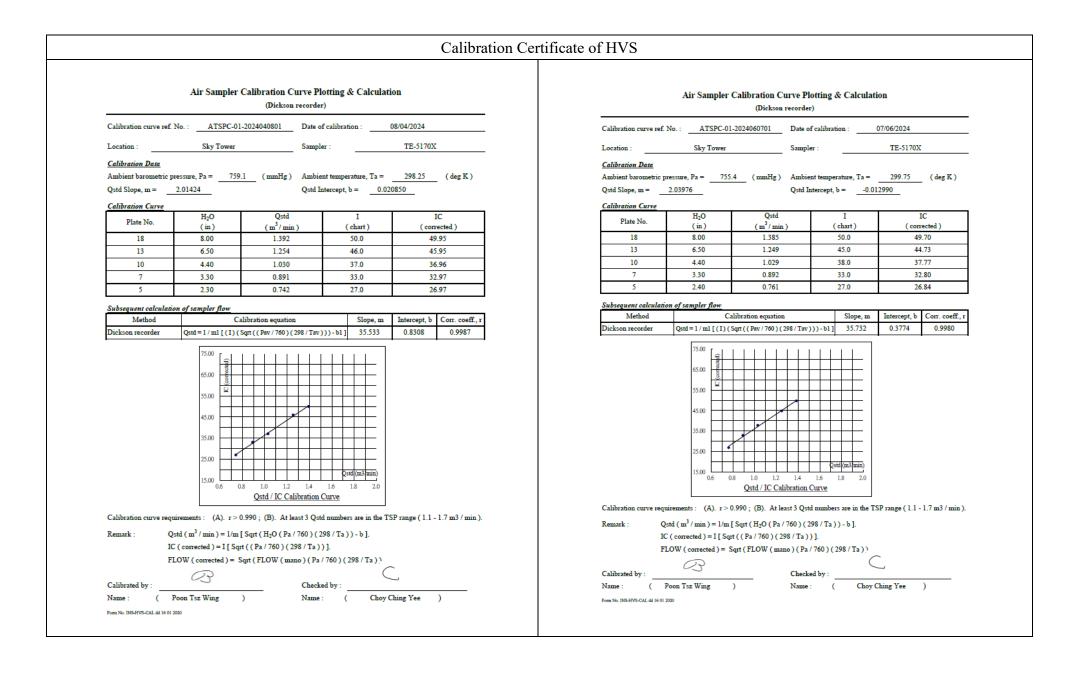
## Impact Noise Monitoring

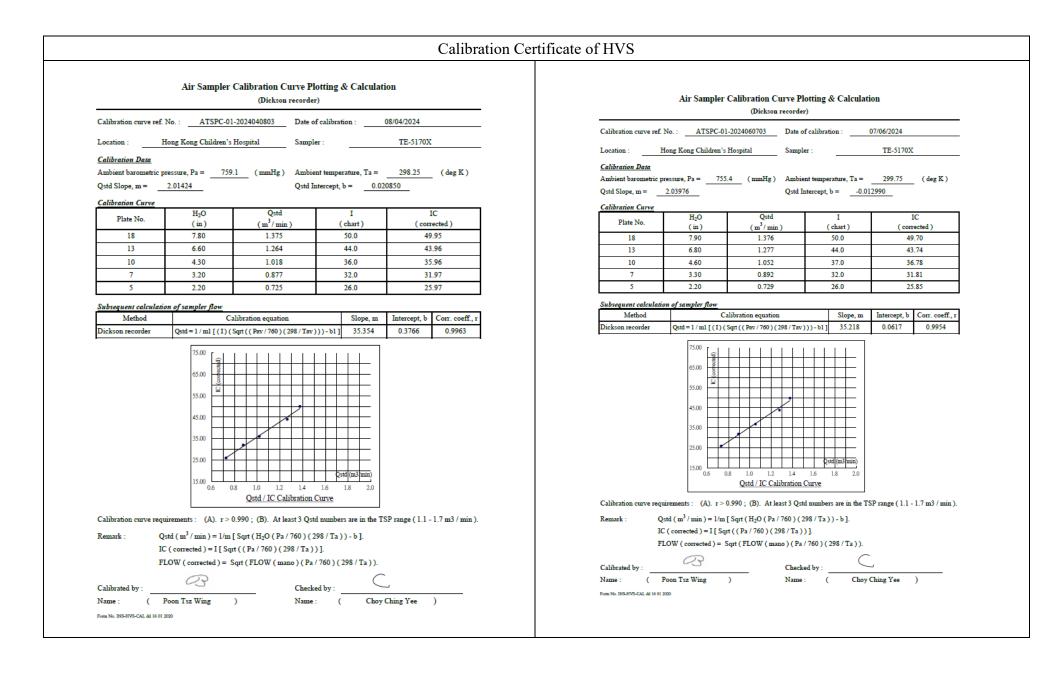


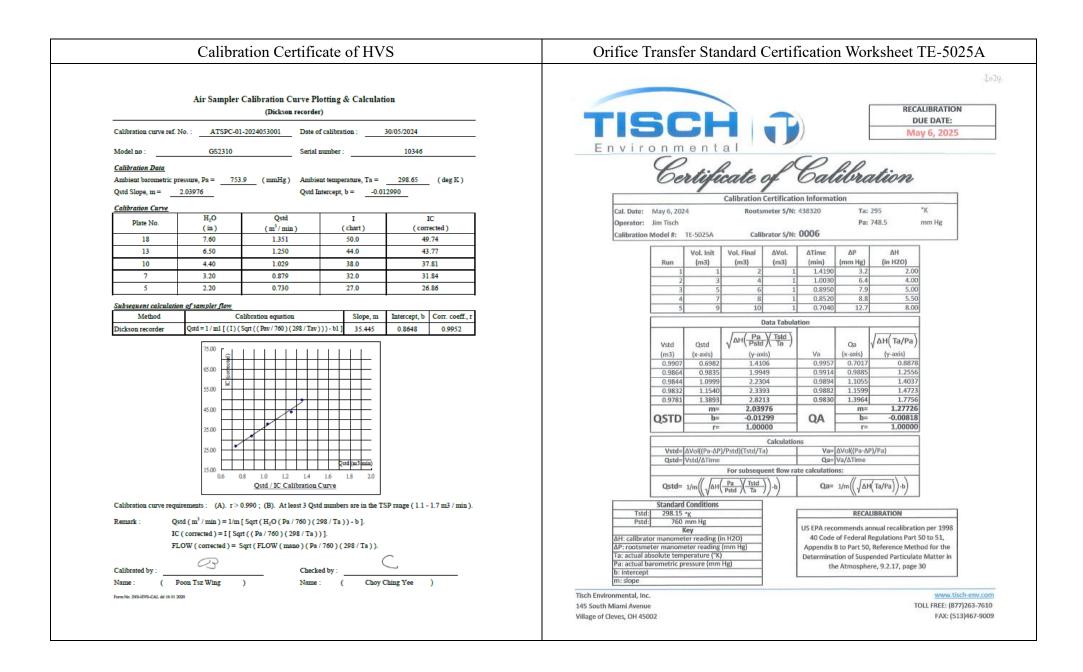
Weather Station at the rooftop of Hong Kong Children's Hospital

Appendix F – Calibration certificates, catalogue of air quality monitoring equipment









## Catalogue of Dust Meter (TSI Sidepak AM510)

The SidePak AM510 monitor's easy-to-read display shows your data as both real-time aerosol mass-concentration and 8-hour time-weighted average (TWA). With its convenient data logging and long battery life, the AM510 is also ideal for extended sampling. The easy-to-use TrakPro Data Analysis Software lets you create effective graphs and reports.



#### **User Friendly**

+ Small, lightweight and quiet to maximize worker acceptance + Rugged design with secure belt clip + Easy-to-understand user interface with only four keys + Lockable keypad prevents tampering while sampling + User-adjustable sample flow rate + Define, label and store multiple calibration constants + Easy-to-read LCD display + Convenient, threaded tripod socket accommodates area sampling

#### Advanced Features

+ Smart Battery Management System provides precise run time information, maximizes battery capacity and speeds charging Integrated pump allows use of size-selective aerosol inlet conditioners + Built-in impactors let you choose "none," 1.0, 2.5 or 10-micron cut off + 10-mm Dorr-Oliver cyclone for respirable sampling + Display shows real-time concentrations (mg/m³) and "on-the-fly" TWA as you data log + Display statistics: max, min and average readings, elapsed time and 8-hour TWA

#### **Quick and Easy Reports**

+ Convenient preprogramming for occupational exposure sampling + Data log for long periods and store multiple tests + Analyze data, print graphs and create reports with TrakPro Data Analysis Software + USB port lets you conveniently connect to your computer

#### Power to Spare

+ Long-lasting NiMH rechargeable battery packs eliminate "memory" issues + Choice of rechargeable NiMH smart battery packs or AA-cell pack

#### Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration

Particle Size Range

Zero stability

0.001 to 20 mg/m<sup>3</sup> Range (calibrated to respirable fraction of ISO 12103-1, A1 test dust) 0.1 to 10 micrometer (µm) Minimum Resolution 0.001 mg/m<sup>3</sup> ±0.001 mg/m<sup>3</sup> over 24 hours using 10-second time-constant Temperature Coefficient Approximately +0.0005 mg/m<sup>3</sup> per °C (for variations from temperature at which instrument was last zeroed)

90° light scattering,

670 nm laser diode

#### Flow Rate Range

User-adjustable, 0.7 to 1.8 liters/min (L/min)

**Temperature Range** Operating Range 32 to 120°F (0 to 50°C) Storage Range -4 to 140°F (-20 to 60°C)

**Operational Humidity** 0 to 95% RH, non-condensing

#### Time Constant (LCD display) Jser-adjustable, 1 to 60 seconds Range

Data Logging Approx. 31,000 Data Points Logging Interval User-adjustable, 1 second to 1 hour

#### **User-Select Calibration Factors**

Factory Setting 1.0 (non-adjustable) User-defined Settings 3, with user-defined labels 0.1 to 10.0, user-adjustable

#### Physical External Dimensions

Range

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm) with 801723, 801724, 801729 or 801743 battery 5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm) with 801708, 801722, 801728, 801735, or 801736 battery 16 oz (0.46 kg) with 801723, 801724, Weight 801729 or 801743 battery 19 oz (0.54 kg) with 801708, 01722, 801728, 801735, or 801736 battery Display Tripod Socket 2 line x 12 character LCD 1/4-20 female thread

## Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC. 50 to 60 Hz

Input Voltage Range Output Voltage 9 VDC @ 1.0 A

#### Maintenance Factory Clean/Calibrate User Zero Calibration

Before each use User Flow Calibration As needed Communications Interface

Recommended annually

USB 1.1 Type Connector, Instrument USB Mini-B (socket)

#### Minimum Computer Requirements for TrakPro™ Data Analysis Software

Communications Port Universal Serial Bus (USB) v 1.1 or higher Microsoft Windows® XP, or 7 Operating System (32-bit or 64-bit) operating systems

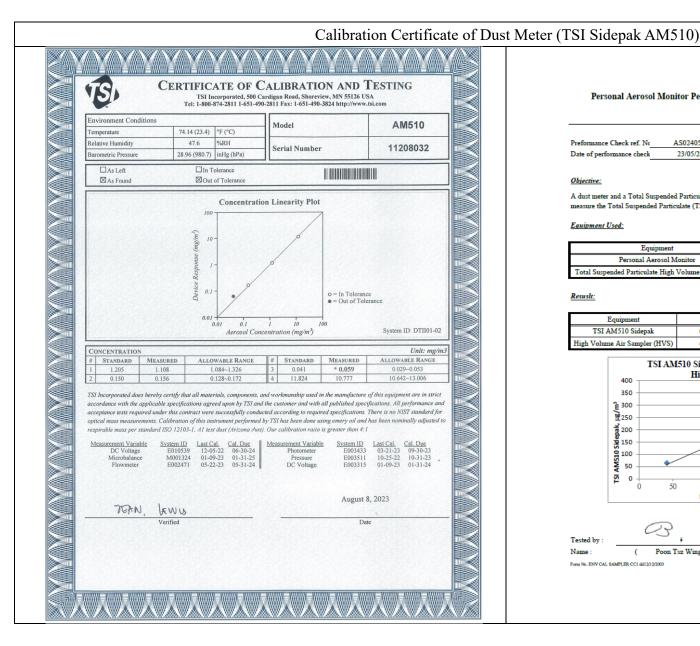
#### Battery Performance

Battery Options	Charge Time (hrs)*	Intrinsic Safety Rating	Run Time (hrs @ 1.7 L/min)
1600 mAH NiMH Pack, 4.8 V (P/N 801723)	3.0	No	7.1
1650 mAH NiMH Pack, 4.8V (P/N 801724, 801729 or 801743)	3.5	CSA**	7.5
2700 mAH NiMH Pack, 4.8 V (P/N 801722 or 801728)	5.5	No	12.0
2700 mAH NiMH Pack, 4.8 V (P/N 801735)	5.5	No	12.0
6-Cell AA-size Alkaline Pack*** (P/N 801708 or 801736 with six user-supplied AA cells)	N/A	No	22.5

\*Of a fully depleted battery \*\*All dust plugs and dust gaskets must be installed. \*\*\*Using Energizer AA-size, E91 alkaline batteries.

#### **Battery Level Indicator**

The Smart Battery Management System™ technology utilizes a built-in "gauge" in the SidePak™ battery packs. The gauge monitors battery capacity and calculates run time information by dividing capacity of the battery (mAH) by the instantaneous current consumed by the instrument (mA). This calculation is correct for current operating conditions and can change due to current (mA) consumption or changes in battery capacity.



### Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No	AS0240523-1	Report Issue Date	23/05/2024	
Date of performance check	23/05/2024			

#### Objective:

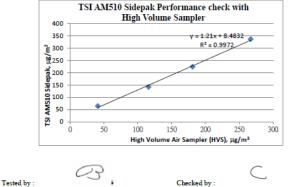
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

#### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11208032
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

#### Resust:

Equipment	Measurement Result, µg/m <sup>3</sup>							
TSI AM510 Sidepak	64	142	224	336				
High Volume Air Sampler (HVS)	41	116	181	267				



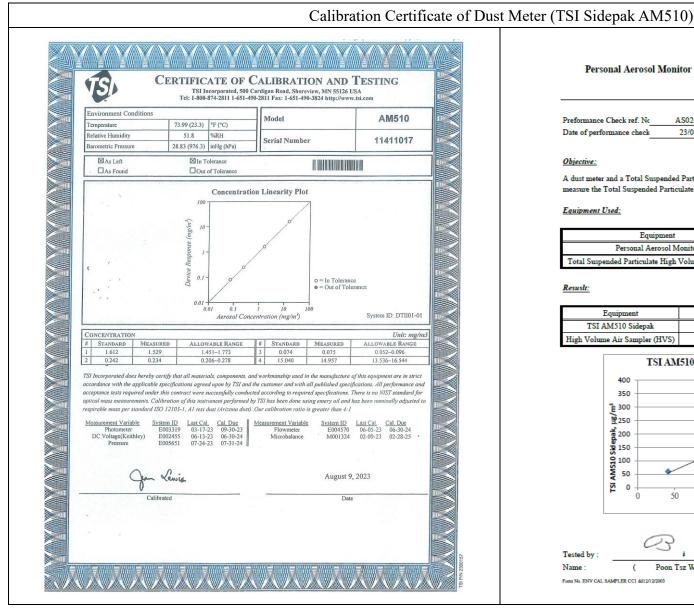


)

Form No. ENV CAL SAMPLER CC1 dd12/12/2003

(

Name



Preformance Check ref. No AS0240523-3 23/05/2024 Report Issue Date Date of performance check 23/05/2024

Personal Aerosol Monitor Performance check with High Volume Sampler

#### Objective:

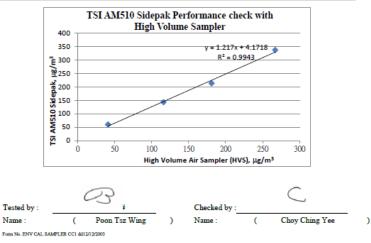
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

### Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11411017
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

### Resust:

	Equipment		Measurement	Result, µg/m <sup>3</sup>	
TSL	AM510 Sidepak	60	143	213	337
High Volu	ne Air Sampler (HVS)	41	116	181	267



#### Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus™ Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Vantage Pro2<sup>™</sup> Range ..... 0 to 16 Index High)) The Vantage Pro2<sup>™</sup> (# 6152C) and Vantage Pro2<sup>™</sup> Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data...... Instant Reading and Hourly Average: Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink<sup>®</sup> to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source..... United States National Weather Service (NWS)/NOAA Equation Used ...... Osczevski (1995) (adopted by US NWS in 2001) Cable Type ...... 4-conductor, 26 AWG Variables Used ...... Avg. Wind Speed Current Display Data ..... Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140° (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Current Graph Data ...... Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s). Historical Graph Data. . . . . . . . . . . . . . . . Hourly, Daily and Monthly Lows Wind Speed Sensor ...... Solid state magnetic sensor Alarm..... Low Threshold from Instant Calculation Wind Direction Sensor ...... Wind vane with potentiometer Wind Direction Range ...... 1 - 360° (214 cm<sup>2</sup>) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type ...... Film capacitor element Accuracy ..... ±3° Update Interval ..... 2.5 to 3 seconds Sensor Inputs Current Graph Data ...... Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, RF Filtering ...... RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes); Monthly Dominants Wind Speed Resolution and Units ...... 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr. 0.1 Vantage Pro2 Plus with Standard Rad Shield ..... 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield ..... 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval ..... Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data ..... Instant Current Graph Data ...... Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs High Thresholds from Instant Reading and 10-minute Average Alarms

Calibration Certificate of Weather Station
Cal Lab Limited 校正實驗室有限公司 Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NK, Hong Kong
CALIBRATION     Tel: +852 25680106 Fax: +852 30116194     Email: Info@callab.com.hk       Calibration Certificate No. COLI22402     Website: www.callab.com.hk       Customer:     Castco Testing Centre Limited Address:       33, On Kui Street, Fanling, N.T.
Equipment Identification         Equipment Description       Manufacturer       Model No.       Serial No.       Assigned equipment No.:         Weather Station       Davis       Vantage PRO 2       8D190307008       AAST-WS-O-1         Certificate Information       Date of Receipt:       6 February 2024       Calibration Condition:       21.5°C, 55%RH, 1012hPa         Date of Calibration:       16 February 2024       Adjustment:       N/A         Due Date of Calibration:       N/A       Appearance:       Good         Calibration Procedure:       SOP.16       Remark:       N/A
Reference Equipment IdentificationEquipment DescriptionModelSerial No.Expiration DatePlatinum resistance thermometerKPPRHT-A-1KCI I-1095, KCI P-10959 November 2024Humidity sensorKPPRHT-A-1KCI I-1095, KCI P-10959 November 2024Hot Wire Anemometer9535T9535131600411 August 2024
CALIBRATION
on on on on on on on
Note1:       The estimated sepanded uncertainties have been calculated in "balautation and expression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor 07 is assumed unless explicitly stated.         Note1:       The statution of uncertainties to national or international incorpliced standard of and international recognized standard and are calibrated on a schedule to maintain the discourse of 10 is assumed uncertainties to national or international recognized standard and are calibrated on a schedule to maintain the discourse of the statution of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.         Note4:       The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration on the calibration.
Approved By: When Yerry Warren Yeung Certificate Issue Date: 16 February 2024
1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Limited       CC0122402         2. The certificate is issued subject to the latest Terms and Conditions, available at our web site       Page 1 of 2

# Appendix G – Weather information

## General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/06/2024	25.6	29.8	54.2
02/06/2024	25.8	30.3	3.2
03/06/2024	23.8	28.2	8.6
04/06/2024	22.9	24.9	2.9
05/06/2024	23.4	25.4	8.5
06/06/2024	24.7	28.7	Trace
07/06/2024	25.1	26.6	1.6
08/06/2024	24.8	28.9	6.8
09/06/2024	25.3	27.5	33.5
10/06/2024	26.5	30.7	0.2
11/06/2024	28.2	30.8	0.6
12/06/2024	28.1	31.8	8.3
13/06/2024	28.7	32	4.9
14/06/2024	27.7	30.4	32
15/05/2024	25	30	28.3
16/06/2024	26.1	30.9	17.5
17/06/2024	28.6	32.7	Trace
18/06/2024	27.6	32.1	4.6
19/06/2024	28	32.2	9.4
20/06/2024	27.3	33	5
21/06/2024	28.7	34	0
22/06/2024	29.5	33.8	0
23/06/2024	27.9	33.9	4.7
24/06/2024	28.8	33.4	0.3
25/06/2024	26.5	33.2	19
26/06/2024	27.9	34	0
27/06/2024	28.4	34.4	1.4
28/06/2024	28.9	34.2	1.6
29/06/2024	26.8	31.5	15.5
30/06/2024	27.7	32	8.7

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

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2024&m=6

Date	Time	Wind Speed (m/s)	Wind Direction												
01/06/2024	0:00	2.2	112.5	02/06/2024	0:00	1.3	112.5	03/06/2024	0:00	0.9	135	04/06/2024	0:00	0.9	45
01/06/2024	1:00	2.7	337.5	02/06/2024	1:00	1.3	112.5	03/06/2024	1:00	0.9	112.5	04/06/2024	1:00	0.4	90
01/06/2024	2:00	2.7	67.5	02/06/2024	2:00	1.8	112.5	03/06/2024	2:00	1.3	112.5	04/06/2024	2:00	0.4	112.5
01/06/2024	3:00	3.1	67.5	02/06/2024	3:00	1.3	112.5	03/06/2024	3:00	0.9	90	04/06/2024	3:00	0.4	112.5
01/06/2024	4:00	3.1	90	02/06/2024	4:00	1.8	45	03/06/2024	4:00	1.3	90	04/06/2024	4:00	0.4	180
01/06/2024	5:00	3.6	67.5	02/06/2024	5:00	1.3	337.5	03/06/2024	5:00	0.4	112.5	04/06/2024	5:00	0.4	270
01/06/2024	6:00	4.1	67.5	02/06/2024	6:00	0.9	112.5	03/06/2024	6:00	0.4	135	04/06/2024	6:00	0.4	45
01/06/2024	7:00	4.1	90	02/06/2024	7:00	0.9	135	03/06/2024	7:00	0.4	112.5	04/06/2024	7:00	0.9	45
01/06/2024	8:00	3.6	90	02/06/2024	8:00	1.8	90	03/06/2024	8:00	0.4	112.5	04/06/2024	8:00	0.9	90
01/06/2024	9:00	2.2	112.5	02/06/2024	9:00	1.8	135	03/06/2024	9:00	0.9	112.5	04/06/2024	9:00	0.4	67.5
01/06/2024	10:00	2.2	90	02/06/2024	10:00	1.3	135	03/06/2024	10:00	0.9	135	04/06/2024	10:00	1.8	157.5
01/06/2024	11:00	1.8	270	02/06/2024	11:00	1.8	67.5	03/06/2024	11:00	0.9	112.5	04/06/2024	11:00	1.8	112.5
01/06/2024	12:00	2.7	270	02/06/2024	12:00	0.4	90	03/06/2024	12:00	0.9	90	04/06/2024	12:00	0.4	180
01/06/2024	13:00	2.2	270	02/06/2024	13:00	1.3	225	03/06/2024	13:00	0.9	112.5	04/06/2024	13:00	0.9	112.5
01/06/2024	14:00	2.7	90	02/06/2024	14:00	1.3	67.5	03/06/2024	14:00	0.9	90	04/06/2024	14:00	0.9	90
01/06/2024	15:00	2.2	90	02/06/2024	15:00	0.9	22.5	03/06/2024	15:00	0.9	112.5	04/06/2024	15:00	1.3	135
01/06/2024	16:00	2.2	90	02/06/2024	16:00	0.4	270	03/06/2024	16:00	0.4	112.5	04/06/2024	16:00	1.3	112.5
01/06/2024	17:00	2.7	90	02/06/2024	17:00	0.4	270	03/06/2024	17:00	1.3	45	04/06/2024	17:00	1.8	135
01/06/2024	18:00	3.1	112.5	02/06/2024	18:00	0.9	247.5	03/06/2024	18:00	0.4	45	04/06/2024	18:00	1.3	135
01/06/2024	19:00	2.7	337.5	02/06/2024	19:00	0.9	247.5	03/06/2024	19:00	0.4	135	04/06/2024	19:00	0.9	270
01/06/2024	20:00	2.7	67.5	02/06/2024	20:00	0.4	270	03/06/2024	20:00	0.9	112.5	04/06/2024	20:00	0.9	247.5
01/06/2024	21:00	3.1	67.5	02/06/2024	21:00	0.4	270	03/06/2024	21:00	0.4	90	04/06/2024	21:00	0.4	270
01/06/2024	22:00	3.1	90	02/06/2024	22:00	0.9	225	03/06/2024	22:00	0.4	112.5	04/06/2024	22:00	1.3	247.5
01/06/2024	23:00	3.6	67.5	02/06/2024	23:00	0.4	225	03/06/2024	23:00	0.4	112.5	04/06/2024	23:00	1.3	90

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
05/06/2024	0:00	1.3	67.5	06/06/2024	0:00	0.9	270	07/06/2024	0:00	1.3	112.5	08/06/2024	0:00	1.3	112.5
05/06/2024	1:00	1.3	90	06/06/2024	1:00	0.9	247.5	07/06/2024	1:00	0.9	112.5	08/06/2024	1:00	1.3	90
05/06/2024	2:00	0.4	90	06/06/2024	2:00	0.9	225	07/06/2024	2:00	0.9	112.5	08/06/2024	2:00	0.9	112.5
05/06/2024	3:00	0.4	112.5	06/06/2024	3:00	0.9	45	07/06/2024	3:00	1.3	202.5	08/06/2024	3:00	1.3	67.5
05/06/2024	4:00	0.4	112.5	06/06/2024	4:00	0.9	247.5	07/06/2024	4:00	0.4	90	08/06/2024	4:00	0.9	112.5
05/06/2024	5:00	0.4	112.5	06/06/2024	5:00	0.4	270	07/06/2024	5:00	0.9	112.5	08/06/2024	5:00	1.3	135
05/06/2024	6:00	0.4	135	06/06/2024	6:00	0.9	202.5	07/06/2024	6:00	0.4	90	08/06/2024	6:00	0.9	90
05/06/2024	7:00	0.4	112.5	06/06/2024	7:00	0.9	45	07/06/2024	7:00	0.9	90	08/06/2024	7:00	0.9	112.5
05/06/2024	8:00	0.4	112.5	06/06/2024	8:00	0.9	112.5	07/06/2024	8:00	1.3	90	08/06/2024	8:00	0.4	112.5
05/06/2024	9:00	0.4	67.5	06/06/2024	9:00	0.9	112.5	07/06/2024	9:00	1.8	90	08/06/2024	9:00	0.9	112.5
05/06/2024	10:00	1.3	247.5	06/06/2024	10:00	0.4	112.5	07/06/2024	10:00	0.9	90	08/06/2024	10:00	0.9	135
05/06/2024	11:00	1.3	22.5	06/06/2024	11:00	0.4	112.5	07/06/2024	11:00	0.9	90	08/06/2024	11:00	1.3	112.5
05/06/2024	12:00	0.9	225	06/06/2024	12:00	0.9	112.5	07/06/2024	12:00	0.9	112.5	08/06/2024	12:00	1.3	157.5
05/06/2024	13:00	0.9	67.5	06/06/2024	13:00	0.9	135	07/06/2024	13:00	0.9	112.5	08/06/2024	13:00	0.9	112.5
05/06/2024	14:00	0.9	22.5	06/06/2024	14:00	0.4	112.5	07/06/2024	14:00	0.9	90	08/06/2024	14:00	0.9	90
05/06/2024	15:00	1.3	157.5	06/06/2024	15:00	0.4	112.5	07/06/2024	15:00	0.9	90	08/06/2024	15:00	0.9	112.5
05/06/2024	16:00	0.9	135	06/06/2024	16:00	0.9	22.5	07/06/2024	16:00	0.4	112.5	08/06/2024	16:00	0.9	67.5
05/06/2024	17:00	0.9	67.5	06/06/2024	17:00	0.4	45	07/06/2024	17:00	0.9	112.5	08/06/2026	17:00	0.9	22.5
05/06/2024	18:00	0.9	247.5	06/06/2024	18:00	0.4	45	07/06/2024	18:00	0.4	112.5	08/06/2024	18:00	0.9	247.5
05/06/2024	19:00	0.4	225	06/06/2024	19:00	1.3	45	07/06/2024	19:00	0.4	112.5	08/06/2024	19:00	0.9	22.5
05/06/2024	20:00	0.9	45	06/06/2024	20:00	0.9	67.5	07/06/2024	20:00	0.4	135	08/06/2024	20:00	0.9	22.5
05/06/2024	21:00	0.9	45	06/06/2024	21:00	0.9	45	07/06/2024	21:00	0.9	135	08/06/2024	21:00	1.3	270
05/06/2024	22:00	1.3	45	06/06/2024	22:00	0.4	67.5	07/06/2024	22:00	0.9	112.5	08/06/2024	22:00	1.3	247.5
05/06/2024	23:00	1.3	45	06/06/2024	23:00	0.4	157.5	07/06/2024	23:00	0.9	112.5	08/06/2024	23:00	1.3	270

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
09/06/2024	0:00	0.9	67.5	10/06/2024	0:00	1.3	247.5	11/06/2024	0:00	1.3	225	12/06/2024	0:00	1.3	247.5
09/06/2024	1:00	0.9	22.5	10/06/2024	1:00	0.9	247.5	11/06/2024	1:00	0.9	112.5	12/06/2024	1:00	1.3	270
09/06/2024	2:00	0.9	45	10/06/2024	2:00	0.4	247.5	11/06/2024	2:00	1.3	67.5	12/06/2024	2:00	1.3	67.5
09/06/2024	3:00	0.9	67.5	10/06/2024	3:00	0.4	112.5	11/06/2024	3:00	1.3	45	12/06/2024	3:00	0.9	67.5
09/06/2024	4:00	1.3	67.5	10/06/2024	4:00	0.4	180	11/06/2024	4:00	1.3	337.5	12/06/2024	4:00	1.3	67.5
09/06/2024	5:00	1.3	45	10/06/2024	5:00	0.9	225	11/06/2024	5:00	0.9	67.5	12/06/2024	5:00	1.3	67.5
09/06/2024	6:00	1.3	45	10/06/2024	6:00	0.9	247.5	11/06/2024	6:00	0.4	45	12/06/2024	6:00	1.3	67.5
09/06/2024	7:00	2.7	45	10/06/2024	7:00	0.9	247.5	11/06/2024	7:00	0.4	112.5	12/06/2024	7:00	1.3	67.5
09/06/2024	8:00	1.8	45	10/06/2224	8:00	0.4	225	11/06/2024	8:00	0.4	112.5	12/06/2024	8:00	0.9	90
09/06/2024	9:00	1.3	22.5	10/06/2024	9:00	0.4	247.5	11/06/2024	9:00	0.4	112.5	12/06/2024	9:00	0.4	112.5
09/06/2024	10:00	1.3	45	10/06/2024	10:00	0.4	292.5	11/06/2024	10:00	0.9	112.5	12/06/2024	10:00	0.4	67.5
09/06/2024	11:00	1.8	45	10/06/2024	11:00	0.9	225	11/06/2026	11:00	1.8	112.5	12/06/2024	11:00	0.4	90
09/06/2024	12:00	2.2	270	10/06/2024	12:00	0.9	247.5	11/06/2024	12:00	0.4	247.5	12/06/2024	12:00	0.9	67.5
09/06/2024	13:00	3.6	22.5	10/06/2024	13:00	0.4	247.5	11/06/2024	13:00	0.4	247.5	12/06/2024	13:00	0.9	67.5
09/06/2024	14:00	2.2	45	10/06/2024	14:00	0.4	157.5	11/06/2024	14:00	0.4	112.5	12/06/2024	14:00	0.4	90
09/06/2024	15:00	3.6	247.5	10/06/2024	15:00	0.9	112.5	11/06/2024	15:00	0.9	112.5	12/06/2024	15:00	0.9	67.5
09/06/2024	16:00	1.3	270	10/06/2024	16:00	0.9	157.5	11/06/2024	16:00	0.9	135	12/06/2024	16:00	0.9	67.5
09/06/2024	17:00	1.3	270	10/06/2024	17:00	0.4	157.5	11/06/2024	17:00	0.9	112.5	12/06/2024	17:00	0.9	67.5
09/06/2024	18:00	1.8	247.5	10/06/2024	18:00	0.9	247.5	11/06/2024	18:00	1.3	112.5	12/06/2024	18:00	1.3	67.5
09/06/2024	19:00	1.8	247.5	10/06/2024	19:00	0.9	112.5	11/06/2024	19:00	0.9	112.5	12/06/2024	19:00	0.9	90
09/06/2024	20:00	2.7	247.5	10/06/2024	20:00	0.4	247.5	11/06/2024	20:00	0.9	112.5	12/06/2024	20:00	0.9	67.5
09/06/2024	21:00	1.3	67.5	10/06/2024	21:00	0.9	225	11/06/2024	21:00	1.3	202.5	12/06/2024	21:00	0.9	45
09/06/2024	22:00	2.7	45	10/06/2024	22:00	0.9	157.5	11/06/2024	22:00	0.4	90	12/06/2024	22:00	0.9	67.5
09/06/2024	23:00	0.9	135	10/06/2024	23:00	1.8	112.5	11/06/2024	23:00	0.9	112.5	12/06/2024	23:00	1.3	225

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
13/06/2024	0:00	1.3	112.5	14/06/2024	0:00	0.9	135	15/06/2024	0:00	0.4	247.5	16/06/2024	0:00	0.4	112.5
13/06/2024	1:00	1.3	90	14/06/2024	1:00	0.9	247.5	15/06/2024	1:00	1.3	247.5	16/06/2024	1:00	0.4	135
13/06/2024	2:00	1.3	90	14/06/2024	2:00	0.9	135	15/06/2024	2:00	0.9	180	16/06/2024	2:00	0.9	67.5
13/06/2024	3:00	0.9	90	14/06/2024	3:00	0.4	270	15/06/2024	3:00	2.7	180	16/06/2024	3:00	0.9	67.5
13/06/2024	4:00	0.9	67.5	14/06/2024	4:00	1.3	112.5	15/06/2024	4:00	2.2	247.5	16/06/2024	4:00	0.4	90
13/06/2024	5:00	0.9	67.5	14/06/2024	5:00	1.3	112.5	15/06/2024	5:00	2.2	247.5	16/06/2024	5:00	0.9	67.5
13/06/2024	6:00	0.4	112.5	14/06/2024	6:00	1.3	135	15/06/2024	6:00	1.8	225	16/06/2024	6:00	1.8	112.5
13/06/2024	7:00	0.4	90	14/06/2024	7:00	1.3	112.5	15/06/2024	7:00	1.3	247.5	16/06/2024	7:00	0.4	112.5
13/06/2024	8:00	1.3	67.5	14/06/2024	8:00	2.2	112.5	15/06/2024	8:00	1.3	247.5	16/06/2024	8:00	1.8	112.5
13/06/2024	9:00	1.3	45	14/06/2024	9:00	2.2	112.5	15/06/2024	9:00	1.8	247.5	16/06/2024	9:00	1.8	112.5
13/06/2024	10:00	0.9	90	14/06/2024	10:00	1.8	112.5	15/06/2024	10:00	1.3	247.5	16/06/2024	10:00	0.9	112.5
13/06/2024	11:00	0.9	67.5	14/06/2024	11:00	1.3	112.5	15/06/2024	11:00	1.8	225	16/06/2024	11:00	1.3	112.5
13/06/2024	12:00	0.9	90	14/06/2024	12:00	1.8	90	15/06/2025	12:00	0.9	225	16/06/2024	12:00	0.9	112.5
13/06/2024	13:00	0.9	90	14/06/2024	13:00	2.2	112.5	15/06/2024	13:00	0.9	247.5	16/06/2024	13:00	0.9	112.5
13/06/2024	14:00	1.3	90	14/06/2024	14:00	2.2	90	15/06/2024	14:00	0.4	225	16/06/2024	14:00	0.9	135
13/06/2024	15:00	0.9	112.5	14/06/2024	15:00	2.2	112.5	15/06/2024	15:00	0.9	247.5	16/06/2024	15:00	0.9	112.5
13/06/2024	16:00	0.9	112.5	14/06/2024	16:00	2.7	112.5	15/06/2024	16:00	0.9	112.5	16/06/2024	16:00	0.4	112.5
13/06/2024	17:00	0.9	112.5	14/06/2024	17:00	1.8	90	15/06/2024	17:00	0.4	112.5	16/06/2024	17:00	0.4	112.5
13/06/2024	18:00	1.3	90	14/06/2024	18:00	1.8	112.5	15/06/2024	18:00	0.4	337.5	16/06/2024	18:00	0.4	135
13/06/2024	19:00	1.3	90	14/06/2024	19:00	2.2	112.5	15/06/2024	19:00	0.4	112.5	16/06/2024	19:00	0.9	112.5
13/06/2024	20:00	1.3	90	14/06/2024	20:00	2.2	90	15/06/2024	20:00	0.9	112.5	16/06/2024	20:00	0.9	112.5
13/06/2024	21:00	1.3	112.5	14/06/2024	21:00	2.2	112.5	15/06/2024	21:00	0.9	112.5	16/06/2024	21:00	0.9	112.5
13/06/2024	22:00	1.3	135	14/06/2024	22:00	1.8	112.5	15/06/2024	22:00	1.3	112.5	16/06/2024	22:00	0.9	112.5
13/06/2024	23:00	1.8	112.5	14/06/2024	23:00	1.8	112.5	15/06/2024	23:00	1.8	112.5	16/06/2024	23:00	0.9	135

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
17/06/2024	0:00	0.9	135	18/06/2024	0:00	0.9	135	19/06/2024	0:00	0.9	112.5	20/06/2024	0:00	1.8	90
17/06/2024	1:00	0.4	135	18/06/2024	1:00	0.4	135	19/06/2024	1:00	0.9	112.5	20/06/2024	1:00	0.9	90
17/06/2024	2:00	0.4	135	18/06/2024	2:00	0.4	135	19/06/2024	2:00	0.9	67.5	20/06/2024	2:00	0.9	202.5
17/06/2026	3:00	0.4	135	18/06/2024	3:00	0.4	135	19/06/2024	3:00	0.9	45	20/06/2024	3:00	0.9	112.5
17/06/2024	4:00	0.4	0	18/06/2024	4:00	0.4	0	19/06/2024	4:00	0.9	337.5	20/06/2024	4:00	0.9	0
17/06/2024	5:00	0.4	112.5	18/06/2024	5:00	0.4	112.5	19/06/2024	5:00	1.8	0	20/06/2024	5:00	1.3	112.5
17/06/2024	6:00	0	112.5	18/06/2024	6:00	0	112.5	19/06/2024	6:00	1.8	45	20/06/2024	6:00	1.3	247.5
17/06/2024	7:00	0.4	112.5	18/06/2024	7:00	1.8	90	19/06/2024	7:00	0.9	112.5	20/06/2024	7:00	1.8	337.5
17/06/2024	8:00	0.4	337.5	18/06/2024	8:00	1.3	90	19/06/2024	8:00	1.3	90	20/06/2024	8:00	1.8	45
17/06/2024	9:00	0.9	45	18/06/2024	9:00	0.9	45	19/06/2024	9:00	0.9	90	20/06/2024	9:00	0.9	67.5
17/06/2024	10:00	0.4	45	18/06/2024	10:00	0.9	90	19/06/2024	10:00	0.4	135	20/06/2024	10:00	0.4	112.5
17/06/2024	11:00	0.4	112.5	18/06/2024	11:00	0.9	90	19/06/2024	11:00	0.9	337.5	20/06/2024	11:00	1.3	247.5
17/06/2024	12:00	0.9	112.5	18/06/2024	12:00	1.8	45	19/06/2024	12:00	0.9	135	20/06/2024	12:00	0.9	225
17/06/2024	13:00	0.4	315	18/06/2024	13:00	1.3	0	19/06/2024	13:00	0.9	90	20/06/2024	13:00	0.9	247.5
17/06/2024	14:00	0.4	112.5	18/06/2024	14:00	0.9	112.5	19/06/2024	14:00	1.3	90	20/06/2024	14:00	0.4	247.5
17/06/2024	15:00	1.3	67.5	18/06/2024	15:00	2.2	90	19/06/2024	15:00	1.8	112.5	20/06/2024	15:00	0.4	247.5
17/06/2024	16:00	1.3	90	18/06/2024	16:00	1.8	90	19/06/2024	16:00	2.2	112.5	20/06/2024	16:00	0.4	247.5
17/06/2024	17:00	1.8	112.5	18/06/2024	17:00	1.3	90	19/06/2024	17:00	1.3	112.5	20/06/2024	17:00	0	247.5
17/06/2024	18:00	2.7	90	18/06/2024	18:00	0.9	337.5	19/06/2024	18:00	0.9	112.5	20/06/2024	18:00	0.4	112.5
17/06/2024	19:00	1.3	90	18/06/2024	19:00	1.3	45	19/06/2024	19:00	0.9	112.5	20/06/2024	19:00	0.9	270
17/06/2024	20:00	1.8	45	18/06/2024	20:00	0.4	292.5	19/06/2024	20:00	1.8	247.5	20/06/2024	20:00	0.4	292.5
17/06/2024	21:00	1.8	67.5	18/06/2024	21:00	0.9	112.5	19/06/2024	21:00	0.9	202.5	20/06/2024	21:00	0.4	135
17/06/2024	22:00	0.9	112.5	18/06/2024	22:00	0.4	247.5	19/06/2024	22:00	0.9	135	20/06/2024	22:00	0.9	135
17/06/2024	23:00	0.9	45	18/06/2024	23:00	0.9	270	19/06/2024	23:00	0.9	112.5	20/06/2024	23:00	0.9	90

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
21/06/2024	0:00	0.9	0	22/06/2024	0:00	0.4	90	23/06/2024	0:00	0.4	225	24/06/2024	0:00	0.4	90
21/06/2024	1:00	0.4	292.5	22/06/2024	1:00	0.4	22.5	23/06/2024	1:00	0.4	202.5	24/06/2024	1:00	0.4	22.5
21/06/2024	2:00	0.4	135	22/06/2024	2:00	1.3	90	23/06/2024	2:00	0	202.5	24/06/2024	2:00	1.3	90
21/06/2024	3:00	0.9	135	22/06/2024	3:00	0.9	112.5	23/06/2024	3:00	0.4	225	24/06/2024	3:00	0.9	112.5
21/06/2024	4:00	0.9	90	22/06/2024	4:00	0.9	112.5	23/06/2024	4:00	0.4	202.5	24/06/2024	4:00	0.9	112.5
21/06/2024	5:00	0.4	270	22/06/2024	5:00	0.9	135	23/06/2024	5:00	0	202.5	24/06/2024	5:00	0.9	135
21/06/2024	6:00	0.9	45	22/06/2024	6:00	0.9	90	23/06/2024	6:00	0.4	112.5	24/06/2024	6:00	0.9	90
21/06/2024	7:00	0.4	337.5	22/06/2024	7:00	0.9	112.5	23/06/2024	7:00	0	112.5	24/06/2024	7:00	0.9	112.5
21/06/2024	8:00	0.9	45	22/06/2024	8:00	1.8	112.5	23/06/2024	8:00	0.4	112.5	24/06/2024	8:00	1.8	112.5
21/06/2024	9:00	0.4	247.5	22/06/2024	9:00	1.3	112.5	23/06/2024	9:00	0.4	112.5	24/06/2024	9:00	1.3	112.5
21/06/2024	10:00	0.4	225	22/06/2024	10:00	0.9	90	23/06/2024	10:00	0.4	112.5	24/06/2024	10:00	0.9	90
21/06/2024	11:00	1.3	90	22/06/2024	11:00	0	247.5	23/062024	11:00	1.3	112.5	24/06/2024	11:00	1.8	90
21/06/2024	12:00	0.4	112.5	22/06/2024	12:00	0	225	23/06/2024	12:00	0.4	90	24/06/2024	12:00	1.3	90
21/06/2024	13:00	0.9	202.5	22/06/2024	13:00	1.3	247.5	23/06/2024	13:00	0.4	22.5	24/06/2024	13:00	1.8	67.5
21/06/2024	14:00	0.4	112.5	22/06/2024	14:00	0.9	225	23/06/2024	14:00	1.3	90	24/06/2024	14:00	0.9	112.5
21/06/2024	15:00	0	112.5	22/06/2024	15:00	0.9	247.5	23/06/2024	15:00	0.9	112.5	24/06/2024	15:00	1.8	22.5
21/06/2024	16:00	0.4	112.5	22/06/2024	16:00	0.4	247.5	23/06/2024	16:00	0.9	112.5	24/06/2024	16:00	0.9	270
21/06/2024	17:00	0.4	112.5	22/06/2024	17:00	0.4	247.5	23/06/2024	17:00	0.9	135	24/06/2024	17:00	1.3	0
21/06/2024	18:00	0.4	112.5	22/06/2024	18:00	0.4	247.5	23/06/2024	18:00	0.9	90	24/06/2024	18:00	1.3	270
21/06/2024	19:00	1.3	112.5	22/06/2024	19:00	0	247.5	23/06/2024	19:00	0.9	112.5	24/06/2024	19:00	0.4	337.5
21/06/2024	20:00	1.8	112.5	22/06/2024	20:00	0.4	112.5	23/06/2024	20:00	1.8	112.5	24/06/2024	20:00	1.3	270
21/06/2024	21:00	2.2	90	22/06/2024	21:00	0.9	270	23/06/2024	21:00	1.3	112.5	24/06/2024	21:00	0.9	247.5
21/06/2024	22:00	1.8	90	22/06/2024	22:00	0.4	292.5	23/06/2024	22:00	0.9	90	24/06/2024	22:00	0.4	225
21/06/2024	23:00	1.3	90	22/06/2024	23:00	0.4	112.5	23/06/2024	23:00	1.8	90	24/06/2024	23:00	0.4	180

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
25/06/2024	0:00	2.2	112.5	26/06/2024	0:00	1.3	67.5	27/06/2024	0:00	1.3	90	28/06/2024	0:00	1.3	90
25/06/2024	1:00	2.2	90	26/06/2024	1:00	0.9	67.5	27/06/2024	1:00	1.8	67.5	28/06/2024	1:00	0.9	45
25/06/2024	2:00	2.7	112.5	26/06/2024	2:00	0.9	135	27/06/2024	2:00	0.9	112.5	28/06/2024	2:00	0.4	45
25/06/2024	3:00	1.8	112.5	26/06/2024	3:00	0.9	45	27/06/2024	3:00	0.4	112.5	28/06/2024	3:00	0.4	67.5
25/06/2024	4:00	2.2	90	26/06/2024	4:00	0.9	247.5	27/06/2024	4:00	0.4	90	28/06/2024	4:00	0.4	315
25/06/2024	5:00	1.3	90	26/06/2024	5:00	0.4	225	27/06/2024	5:00	0.9	112.5	28/06/2024	5:00	0.9	270
25/06/2024	6:00	1.3	112.5	26/06/2024	6:00	0.9	67.5	27/06/2024	6:00	0.9	90	28/06/2024	6:00	0.4	337.5
25/06/2024	7:00	1.3	112.5	26/06/2024	7:00	0.4	270	27/06/2024	7:00	1.3	90	28/06/2024	7:00	0.9	292.5
25/06/2024	8:00	2.2	112.5	26/06/2024	8:00	0.4	247.5	27/06/2024	8:00	1.3	112.5	28/06/2024	8:00	0.4	337.5
25/06/2024	9:00	2.2	90	26/06/2024	9:00	0.4	180	27/06/2024	9:00	0.4	45	28/06/2024	9:00	0.9	315
25/06/2024	10:00	2.7	112.5	26/06/2024	10:00	0.4	247.5	27/06/2024	10:00	0.4	0	28/06/2024	10:00	0.9	112.5
25/06/2024	11:00	1.8	112.5	26/06/2024	11:00	0.4	270	27/06/2024	11:00	0.9	90	28/06/2024	11:00	0.9	225
25/06/2024	12:00	2.2	90	26/06/2024	12:00	0.4	135	27/06/2024	12:00	0.4	112.5	28/06/2024	12:00	0.9	112.5
25/06/2024	13:00	1.3	90	26/06/2024	13:00	0.4	157.5	27/06/2024	13:00	0.4	135	28/06/2024	13:00	0.4	67.5
25/06/2024	14:00	1.3	112.5	26/06/2024	14:00	0.4	157.5	27/06/2024	14:00	0.4	135	28/06/2024	14:00	0.4	337.5
25/06/2024	15:00	1.3	112.5	26/06/2024	15:00	0.4	202.5	27/06/2024	15:00	0.4	112.5	28/06/2024	15:00	0.4	135
25/06/2024	16:00	0.9	135	26/06/2024	16:00	1.3	225	27/06/2024	16:00	0.4	112.5	28/06/2024	16:00	0.4	90
25/06/2024	17:00	1.3	90	26/06/2024	17:00	1.3	247.5	27/06/2024	17:00	0.4	112.5	28/06/2024	17:00	1.3	90
25/06/2024	18:00	0.9	112.5	26/06/2024	18:00	0.9	135	27/06/2024	18:00	0.4	112.5	28/06/2024	18:00	0.9	135
25/06/2024	19:00	0.9	112.5	26/06/2024	19:00	0.9	112.5	27/06/2024	19:00	0.9	112.5	28/06/2024	19:00	0.9	90
25/06/2024	20:00	1.8	112.5	26/06/2024	20:00	1.3	22.5	27/06/2024	20:00	0.4	112.5	28/06/2024	20:00	0.4	135
25/06/2024	21:00	0.4	90	26/06/2024	21:00	1.3	135	27/06/2024	21:00	1.3	112.5	28/06/2024	21:00	0.4	112.5
25/06/2024	22:00	1.3	45	26/06/2024	22:00	2.2	90	27/06/2024	22:00	1.3	90	28/06/2024	22:00	0.4	112.5
25/06/2024	23:00	0.9	112.5	26/06/2024	23:00	1.8	112.5	27/06/2024	23:00	0.9	112.5	28/06/2024	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

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
29/06/2024	0:00	1.8	157.5	30/06/2024	0:00	0.4	67.5								
29/06/2024	1:00	1.8	67.5	30/06/2024	1:00	0.4	112.5								
29/06/2024	2:00	2.2	67.5	30/06/2024	2:00	0.9	337.5								
29/06/2024	3:00	2.7	90	30/06/2024	3:00	0.9	135								
29/06/2024	4:00	2.7	90	30/06/2024	4:00	0.4	135								
29/06/2024	5:00	2.2	90	30/06/2024	5:00	0.9	135								
29/06/2024	6:00	2.7	67.5	30/06/2024	6:00	0.9	135								
29/06/2024	7:00	2.2	90	30/06/2024	7:00	1.3	45								
29/06/2024	8:00	2.2	67.5	30/06/2024	8:00	1.3	112.5								
29/06/2024	9:00	1.8	90	30/06/2024	9:00	0.9	90								
29/06/2024	10:00	0.9	135	30/06/2024	10:00	1.3	112.5								
29/06/2024	11:00	0.9	135	30/06/2024	11:00	0.9	337.5								
29/06/2024	12:00	0.9	112.5	30/06/2024	12:00	0.4	337.5								
29/06/2024	13:00	0.9	135	30/06/2024	13:00	0.4	337.5								
29/06/2024	14:00	0.9	135	30/06/2024	14:00	0.4	337.5								
29/06/2024	15:00	1.3	112.5	30/06/2024	15:00	0.4	135								
29/06/2024	16:00	1.8	112.5	30/06/2024	16:00	0.4	135								
29/06/2024	17:00	1.3	112.5	30/06/2024	17:00	1.3	112.5								
29/06/2024	18:00	1.3	112.5	30/06/2024	18:00	1.3	112.5								
29/06/2024	19:00	0.9	112.5	30/06/2024	19:00	1.3	112.5								
29/06/2024	20:00	0.9	112.5	30/06/2024	20:00	0.4	90								
29/06/2024	21:00	0.4	247.5	30/06/2024	21:00	0.4	90								
29/06/2024	22:00	0.9	90	30/06/2024	22:00	0.4	112.5								
29/06/2024	23:00	0.4	135	30/06/2024	23:00	0.4	112.5								

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Appendix H – 24-hr TSP monitoring results and graphical presentation

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	<u> </u>	Particulate weight (g)		e Time	Sampling Time	Flow (cfi	m)	Av. Flow	Total vol.	Conc. (µg/m <sup>3</sup> )
		(°C)	(hPa)	Initial	Final	e (e)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	
06/06/2024	Sunny	27.9	1009.4	17.9571	18.0177	0.0606	2024/6/6 9:24	2024/6/7 9:24	1440.0	46	46	1.26	1818	33
12/06/2024	Cloudy	32.7	1006.9	14.4438	14.4979	0.0541	2024/6/12 13:24	2024/6/13 13:24	1440.0	48	48	1.31	1881	29
18/06/2024	Sunny	32.3	1005.9	18.3874	18.5342	0.1468	2024/6/18 13:29	2024/6/19 13:29	1440.0	46	46	1.25	1801	81
24/06/2024	Sunny	29.8	1007.3	15.1304	15.1922	0.0618	2024/6/24 9:26	2024/6/25 9:26	1440.0	46	46	1.26	1810	34
29/06/2024	Cloudy	32.2	1007.6	15.0609	15.1642	0.1033	2024/6/29 13:27	2024/6/30 13:27	1440.0	46	46	1.25	1803	57
												Maxim	um	81
												Minim	um	29
												Avera	ige	47
												Action I	Level	182
												Limit L	evel	260

Location: AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A) ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cfi		Av. Flow	Total vol.	Conc. $(u \sim m^3)$
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
06/06/2024	Sunny	27.9	1009.4	14.5259	14.5761	0.0502	2024/6/6 13:35	2024/6/7 13:35	1440.0	50	50	1.39	2007	25
12/06/2024	Cloudy	32.7	1006.9	18.2521	18.3248	0.0727	2024/6/12 9:27	2024/6/13 9:27	1440.0	50	50	1.40	2010	36
18/06/2024	Sunny	32.3	1005.9	18.3581	18.5313	0.1732	2024/6/18 9:31	2024/6/19 9:31	1440.0	50	50	1.40	2010	86
24/06/2024	Sunny	29.8	1007.3	15.0019	15.0517	0.0498	2024/6/24 13:19	2024/6/25 13:19	1440.0	48	48	1.35	1939	26
29/06/2024	Cloudy	32.2	1007.6	14.8599	14.9874	0.1275	2024/6/29 9:39	2024/6/30 9:39	1440.0	48	48	1.34	1931	66
												Maxim	um	86
												Minim	um	25

Average

Action Level

Limit Level

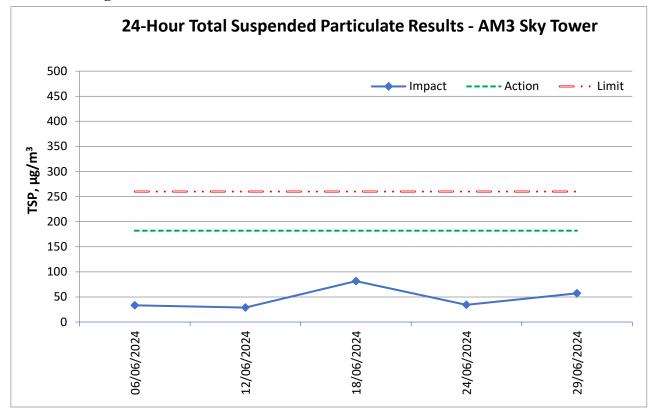
48

181

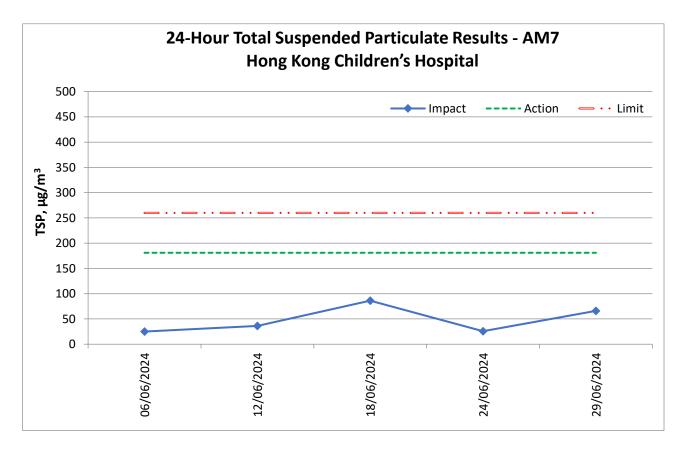
260

Location: AM7 – Hong Kong Children's Hospital

## 24-hour average TSP



Note: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. No 24-TSP monitoring was conducted at AM4(A). ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.



Appendix I – 1-hr TSP monitoring results and graphical presentation

Date	Measure	eme	nt Period	1-hr TSP concentration, g/m <sup>3</sup>	Weather
	9:00	-	10:00	42	
06/06/2024	10:00	-	11:00	47	Sunny
	11:00	-	12:00	46	
	13:00	-	14:00	32	
12/06/2024	14:00	-	15:00	36	Cloudy
	15:00	-	16:00	38	
	13:00	-	14:00	78	
18/06/2024	14:00	-	15:00	78	Sunny
	15:00	-	16:00	83	
	9:00	-	10:00	30	
24/06/2024	10:00	-	11:00	38	Sunny
	11:00	-	12:00	37	
	13:00	-	14:00	47	
29/06/2024	14:00	-	15:00	54	Cloudy
	15:00	-	16:00	54	
Ν	/laximum	l		83	
Ν	Ainimum			30	
	Average			49	
	ction Lev			297	
Li	imit Leve	el		500	

## Location:

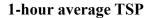
AM3 -

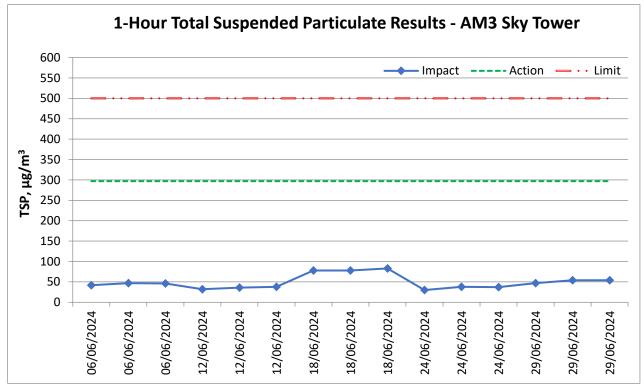
**Sky Tower** 

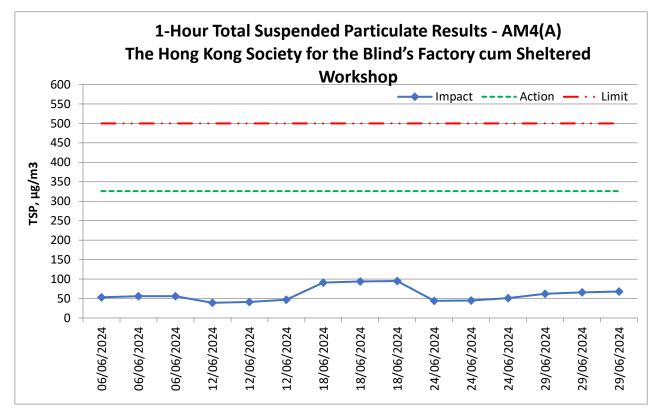
	Date	Measure	men	nt Period	1-hr TSP concentration, µg/m <sup>3</sup>	Weather
Location:		9:00	-	10:00	53	
AM4(A) -	06/06/2024	10:00	-	11:00	56	Sunny
The Hong Kong		11:00	-	12:00	56	
Society for the		13:00	-	14:00	39	
Blind's Factory	12/06/2024	14:00	-	15:00	41	Cloudy
cum Sheltered		15:00	-	16:00	47	
Workshop		13:00	-	14:00	91	
	18/06/2024	14:00	-	15:00	94	Sunny
		15:00	-	16:00	95	
		9:00	-	10:00	44	
	24/06/2024	10:00	-	11:00	45	Sunny
		11:00	-	12:00	51	
		13:00	-	14:00	62	
	29/06/2024	14:00	-	15:00	66	Cloudy
		15:00	-	16:00	68	
		Aaximum			95	
	N	Minimum			39	
		Average	-		61	
		ction Leve			326	
	L	imit Leve	I		500	

NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.

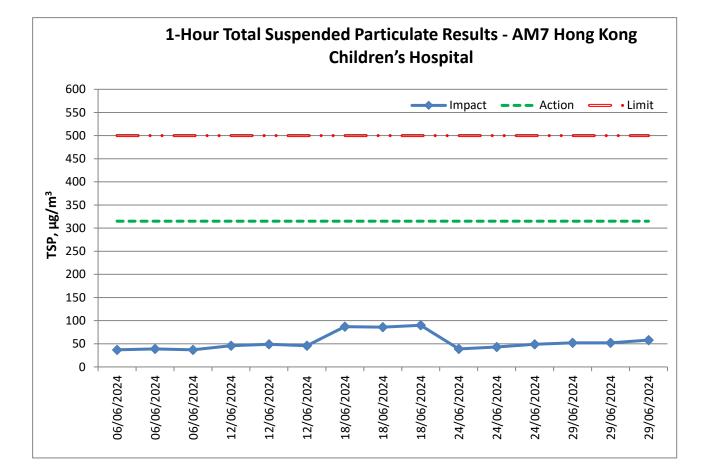
	Date	Measure	me	nt Period	1-hr TSP concentration, µg/m <sup>3</sup>	Weather
Location:		13:00	-	14:00	37	
AM7 -	06/06/2024	14:00	-	15:00	39	Sunny
Hong Kor	g	15:00	-	16:00	37	
Children's		9:00	-	10:00	46	
Hospital	12/06/2024	10:00	-	11:00	49	Cloudy
		11:00	-	12:00	46	
		9:00	-	10:00	87	
	18/06/2024	10:00	-	11:00	86	Sunny
		11:00	-	12:00	90	
		13:00	-	14:00	39	
	24/06/2024	14:00	-	15:00	43	Sunny
		15:00	-	16:00	49	
		9:00	-	10:00	52	
	29/06/2024	10:00	-	11:00	52	Cloudy
		11:00	-	12:00	58	
	]	Maximum			90	
	]	Minimum			37	
		Average			54	
		ction Leve			315	
	L	imit Leve	l		500	







NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), the premises owner rejected ET to conduct impact monitoring since1 Sept 2022. 1-hr TSP monitoring at AM4(A) were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for AM4(A) is confirmed.



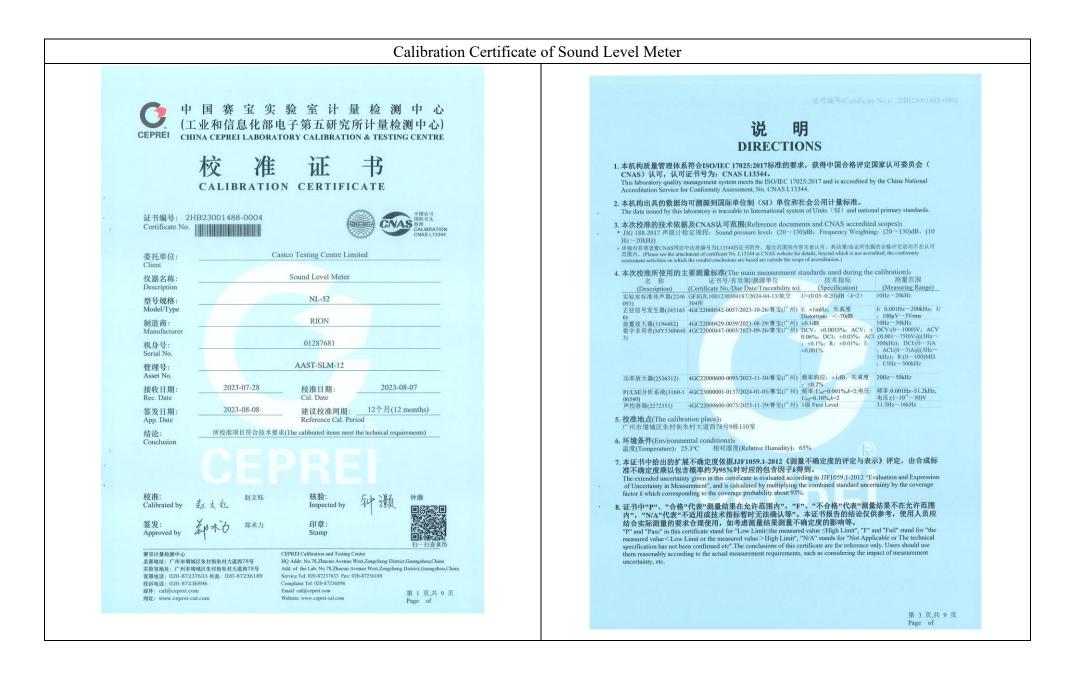
## Appendix J – Event and Action Plan for air quality

		Action	n	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded by one sampling	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Inform Contractor, IEC and Supervisor /ER;</li> <li>Repeat measurement to confirm finding.</li> </ol>	<ol> <li>Check monitoring data 1 submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	I. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Action Level being exceeded by two or more consecutive	1. Identify source and investigate the causes of exceedance;	<ol> <li>Check monitoring data 1 submitted by ET;</li> <li>Check Contractor's</li> </ol>	notification of exceedance in writing;	1. Discuss with ET and IEC on proper remedial actions;
sampling	2. Inform Contractor, IEC and Supervisor /ER;	working method;23. Discuss with ET and3	3. In consolidation with the	2. Submit proposals for remedial actions to
	3. Increase monitoring frequency to daily;	Contractor on possible remedial measures;	IEC, agree with the Contractor on the remedial	Supervisor /ER and IEC within three working day
	4. Discuss with IEC and Contractor on remedial actions required;	on the effectiveness of the	measures to be implemented; 4. Supervise implementation	of notification; 3. Implement the agreed proposals;
	5. Assess the effectiveness of Contractor's remedial actions;	measures. 5	<ul><li>of remedial measures;</li><li>5. Conduct meeting with ET and IEC if exceedance</li></ul>	4. Amend proposal if appropriate.
	6. If exceedance continues, arrange meeting with IEC and Supervisor /ER;		continues.	
	7. If exceedance stops, cease additional monitoring.			
Limit Level being		1. Check monitoring data 1	1	1. Take immediate action to
exceeded by one sampling	investigate the causes of exceedance;	submitted by ET; 2. Check Contractor's	notification of exceedance in writing;	<ul><li>avoid further exceedance;</li><li>Discuss with ET and IEC</li></ul>
	2. Inform Contractor, IEC, Supervisor / EP, and EPD:	working method; 2 3. Discuss possible remedial 3	5	on proper remedial actions;
	<ul><li>Supervisor /ER, and EPD;</li><li>Repeat measurement to confirm finding;</li></ul>	3. Discuss possible remedial 3 measures with ET and Contractor;	IEC, agree with the Contractor on the remedial	3. Submit proposal for remedial actions to
	4. Assess effectiveness of	4. Advise the Supervisor /ER	measures to be	Supervisor /ER and IEC

		Ac	tion	
Event	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.	<ul> <li>implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ul>	<ul><li>within three working days of notification;</li><li>4. Implement the agreed proposals.</li></ul>
Limit Level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, Supervisor /ER, Contractor and EPD;</li> <li>Repeat measurement to confirm findings;</li> <li>Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance;</li> <li>Increase monitoring frequency to daily;</li> <li>Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER</li> </ol>	<ul> <li>submitted by ET;</li> <li>Check Contractor's working method;</li> </ul>	<ul> <li>notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> </ul>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Discuss with ET and IEC on proper remedial actions;</li> <li>Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further remedial actions if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.</li> </ol>
	7. If exceedance stop, cease additional monitoring.			

Appendix K – Calibration certificates, catalogue of noise monitoring equipment

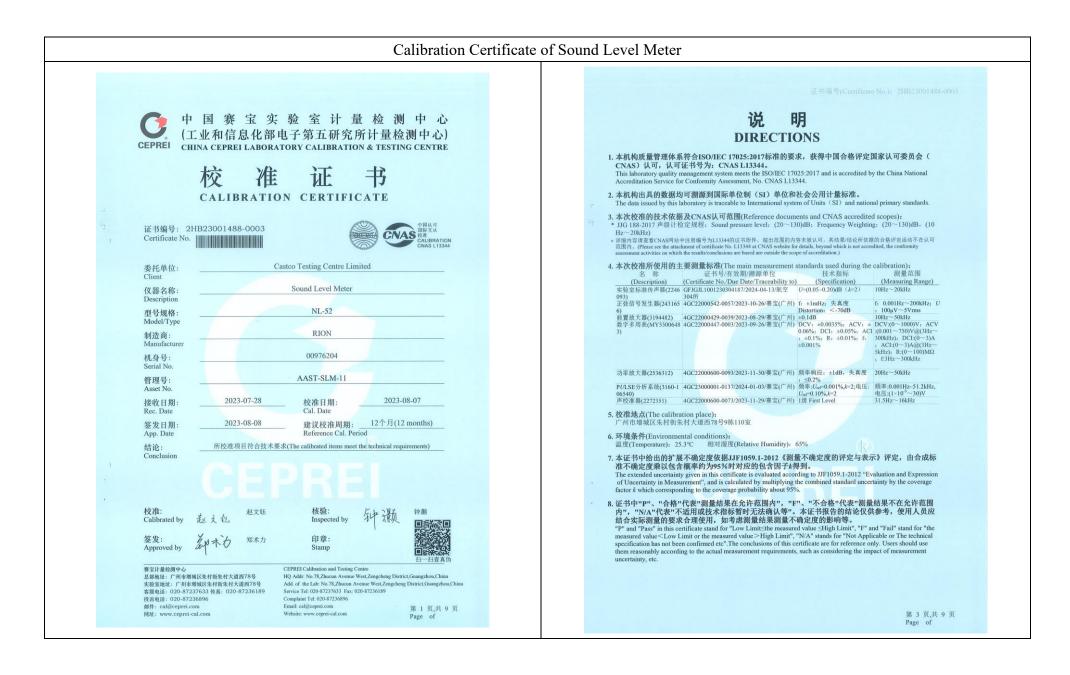
Spec	ifications	1920.						
				Data r	recall o memor		Allows viewing of stored data	an be saved in internal memory, for later reca
Applicabl	le standards	NL-52	NL-42	Setup	memor	y	Start up via file settings previou	
Approabl	ie standards	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		form recor e format		Uncompressed waveform WAV	E filo
		ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2	Sar	mpling fre	quency	Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	JIS C 1509-1: 2005 Class 2		ata lengti DC ou		Select 24 bit or 16 bit Output DC signals using a frequence	y weighting characteristic selected by processing
		WEEE Directives, Chinese RoH	( 8. C, Low Voltage Directive 2006/95/EC), S (export model for China only)			put voltage	2.5 V, 25 mV / dB at bar graph (	display full scale
Measure	ment functions	Simultaneous measurement of t weighting and frequency weighti	he following items, with selected time		AC ou	tput	processing or by A, C, Z-weight	ency weighting characteristic selected by ing.
Proces	ssing (main ch)	Instantaneous sound pressure le			Compa	put voltage	1 V (rms values) at bar graph d	isplay full scale or output exceeds the set value
		Equivalent continuous sound pre Sound exposure level: Le	essure level: Leg		output		(max. applied voltage 24 V, max.	current 60 mA, allowable dissipation 300 mW)
		Maximum sound pressure level:		USB			Allows USB to be connected to a Allows USB to be controlled via a	computer and recognized as a removable dis communication commands
		Minimum sound pressure level: Percentile sound levels: LN (0.1 to	Lmin 99.9 %, 0.1-increment steps, max. 5 values)	RS-23	32C con	nmunication	Allows for RS-232C communication	ation via use of a dedicated cable
	ssing (sub ch)	Instantaneous sound pressure le	avel: Lp			us output * 2 stantaneous value	Lp	
Additio	onal processing	In addition to main processing it for simultaneous processing:	ems, one of the following can be selected	dat		rocessed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continuou		Print o		91 V 81	Printing of measurement results	
		C-weighted peak sound level: Lo Z-weighted peak sound level: Lo	peak		er require attery life			e or rechargeable batteries) or external power supply Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continu Maximum I-time-weighted equivale	ous sound level: Laieq *2 ent continuous sound level: Laimax*2		-		At the maximum * Depends on	the setting
		The power average of the maximum	n level of each 5 second interval: LAtm 5		C adapte temal po	r ower voltage	NC-98C (NC-34 for previous me 5 to 7 V (rated voltage: 6 V)	odels cannot be used)
			I processing synchronizes with the frequency weighting nel has A-weighting, LAtm5 can be selected.	Cu	urrent co	nsumption	Approximately 90 mA (normal of	peration, rated voltage)
		When C-weighting (Z-weighting ) is se	lected, the additional processing $L_{Ceq}$ and $L_{Cpeak}$	Ambie condit	ent <u>Te</u> tions H	emperature lumidity	-10 to +50 °C 10 to 90 % RH (non-condensing	g)
Measurin	ig time	(Lzpeak) are selectable. 10 s, 1, 5, 10, 15, 30 m, 1, 8, 24	h, and manual (maximum 24 h)	Dustp		ter-resistant	IP code: IP54 (except for micro See precautions regarding wate	
Microphone	Type Sensitivity level	UC-59	UC-52 -33 dB	Dimer	nsions, v	weight	Approx. 250 (H) x 76 (W) x 33 m	m(D), approx. 400 g (with batteries)
Measure	ment range	A-weighting: 25 dB to 138 dB	-00 05	Suppl	lied acce	essories		-10 x 1, Windscreen fall prevention rubber x 1, batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 5		Opti	ions			
Inherent	A-weighting	Z-weighting peak sound level: 60 17 dB or less	19 dB or less				luct name	Product number
noise	C-weighting	25 dB or less	27 dB or less				n (Inst.on 512 MB SD card) am*2 (Inst.on 2 GB SD card)	NX-42EX NX-42WR
Frequenc	Z-weighting by range	30 dB or less 20 Hz to 20 kHz	32 dB or less 20 Hz to 8 kHz				rsis program*2 (Inst.on 512 MB SD card)	NX-42RT
	cy weighting	A, C, and Z					Inst.on 512 MB SD card) for environmental measurement	NX-42FT AS-60
Time wei Level ran	ige	F (Fast) and S (Slow) Single range (Linearity range: 1	3 dB)	Data r (Includ	manager des the o	ment software ctave and 1/3 (	for environmental measurement octave data management software)	AS-60RT
	ph display range max ng of bar graph display	Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 d	B increments	Data r (Inclu	manager udes the	nent software vibration leve	for environmental measurement el data management software)	AS-60∨M
RMS det	ection circuit	Digital processing method		Wave	əform an	alysis softwa		CAT-WAVE
Sampling	) cycle	20.8 µs (Lp, Leg, LE, Lmax, Lmin, I 100 ms (LN)	.peak : sampling frequency: 48 kHz)		ard 512 ard 2 G			SD-512M SD-2G
Calibratio	on		on performed according to IEC and JIS standards,		dapter (* ery pack	100 ∨ to 240	∨)	NC-98C BP-21
Correctio	n functions	Windscreen correction:	oustic calibration performed with the NC-74.	Micro	ophone e	extension cab	les	EC-04 (from 2 m)
		Compliant with IEC 61672-1 and JIS C Diffuse sound field correction:	1509-1 standards when the windscreen is installed.		-Pin outp parator c	out code output cable		CC-24 CC-42C
		Correction of frequency charac	teristics in order to comply with standards	Printe	er			DPU-414
Delay tim	10	(ANSI S1.4) in diffuse sound fiel The meter can be set to start mea	d. suring a specified time (OFF, 1, 3, 5 or 10 s)		er cable 32C seri	ial 1/O cable		CC-42P CC-42R
		after the start button has been pr	essed or when a user-set trigger is exceeded.	USB	cable			-
back era	se function		t to pause measurement, the preceding ata are excluded from processing.	All-we		rindscreen		NC-74 WS-15
Display		Backlit semitransparent color TF	T LCD display WQVGA (400 x 240 dots)			nounting ada on windscree		WS-15006 WS-16
			y:1 s⊞⊞Bar graph update frequency: 100 ms	Soun	Id level n	neter tripod		ST-80
Store M	anual Number of data	Data for measurement results are Internal memory: max. 1000 set	stored manually in single address increments.	*1 Use	e Rion full	rindscreen trij ly guaranteed p	roducts. *2 NX-42EX required (sold	ST-81 separately). *3 NX-42WR required (sold separate
88		SD Card: depends on the capac	ity of the SD Card *1	*4 Pro	otection a	against harmf regarding wa	ful dust and water splashing from	any direction.
EEEA	uto*2	Instantaneous values (Lp mode) stored continuously and automa	and processed values (Leg mode) are tically at preset intervals.	Before	e use, ver	rify that the rul	bber bottom cover and the battery	
I E	Lp sampling cycle	100 ms, 200 ms, 1 s, Leg 1s		io mai	initain the	water and du	ist proof rating, internal packing rej	placement is required every two years (at cost
	Leg sampling cycle Measurement Time							ISO 14001
								TI'N/
Window	vs is a trademo	rk of Microsoft Corporation.						ISO 14001 RION CO., LTD.
		to change without notice.						ISO 14001 RION CO., LTD. 180 9001
Distribu	uted by:							
				1				0., LTD.
				0.00			tp://www.rion.co.jp/eng	-
							notomachi, Kokubu 7888 Fax: +81-42-	nji, Tokyo 185-8533, Japar 359-7442
				101.	515	.2 000-		
			e toxic chemicals on our policy.					



Calibration	Certificate of Sound L	Level Meter				
t这校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委 方参考。委托方可以根据实际使用情况自行决定样品的校准周期。 he reference calibration period is based on the reference documents and normal operating conditions of the calibrated strument. It is only for reference. The client may decide the calibration period of the instrument according to the		CEPREI		证书编号(Certif	icate No.): 2HB2300148	8-0004
al use.			Appearance and Function C 果准确度的因素和缺陷。 d defect that affect the mea		of the certificate.	
		2 指示声级调整 (Indication 传声器型号	SPL Calibration) 传声器编号	放大器	频率(Frequency)=10 型号 放大器编号	
		(Microphone Type)	(Microphone SN.)	(Preamplific		
	s	声校准器型号	标准声压级	校准前示值	校准后示值	U
		(Calibrator Type)	(Reference SPL) (dB)	(Before Calibration) (dB)	(After Calibration) (dB) 94.0	(k=2) (dB) 0.2
		4226 3 级线性 (Level Linearity)	94.0	94.0	94.0	0.2
		3.1 参考级量程 (Reference	Range)	频率(F	requency): 8000Hz	
		标准声级	指示声级		允许误差 结论	U
		(Standard)	(Indication)	(Error)	(Limit) (Pass/Fail)	( <i>k</i> =2)
		(dB)	(dB)	(dB)	(dB) (P/F)	(dB)
		130.0	129.8	-0.2	±0.8 P	0.3
		129.0	128.8	-0.2	±0.8 P	0.3
		128.0	127.8	-0.2	±0.8 P	0.3
		127.0	126.8	-0.2	±0.8 P	0.3
		126.0	125.9	-0.1	±0.8 P	0.3
		125.0	124.9	-0.1	±0.8 P	0.3
		120.0	119.9	-0.1	±0.8 P	0.3
		110.0	110.0	0.0	±0.8 P	0.3
D		100.0	100.0	0.0	±0.8 P +0.8 P	0.3 0.3
		90.0 80.0	90.0 79.9	0.0	$^{\pm 0.8}_{\pm 0.8}$ P P	0.3
		70.0	69.9	-0.1	±0.8 P	0.3
		60.0	60.0	0.0	±0.8 P	0.3
		50.0	49.9	-0.1	±0.8 P	0.3
		40.0	39.9	-0.1	±0.8 P	0.3
		35.0	34.8	-0.2	±0.8 P	0.3
		34.0	33.8	-0.2	±0.8 P	0.3
构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written		33.0	32.9	-0.1	±0.8 P	0.3
oratory.) 5被校物有关。(The results are only related to the items calibrated.)		32.0	31.8	-0.2	±0.8 P	0.3
方联络信息"由委托方提供,"制造厂"、"型号规格"、"出厂编号"以及"设备编号"为仪器		31.0	30.8	-0.2	±0.8 P	0.3
内容如春驿议,须在收到证书后二十个工作日内提出。 nd Contact Information are provided by client, and the Manufacurer, Model/Type, Serial are marked on the items.Client shall submit any objection within 20 working days after		30.0	29.8	-0.2	±0.8 P	0.3
cate for the information above.			数据页(Data s	heet) ID: 071288	第 5 ] Page	页,共 9 页 of

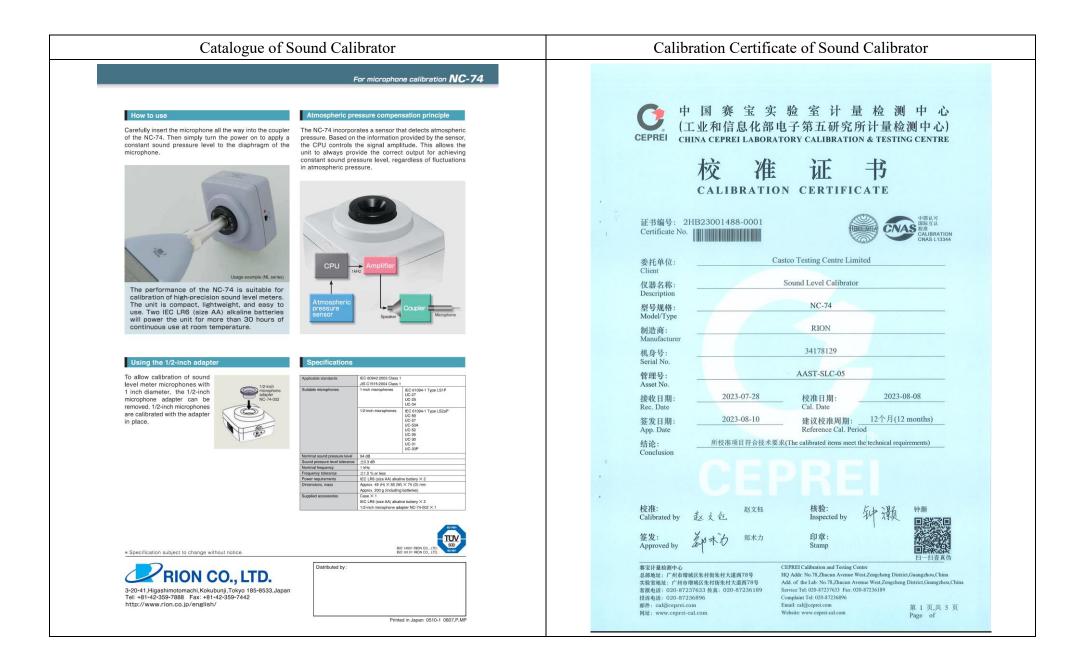
CEPREI		证书编号	룩(Certificate No.):	2HB2300148	8-0004		CEPREI			证书编号	<sup>a</sup> (Certificate No.):	2HB2300148	8-0004
3.2 其它级量程 (Other Range)			频率(Frequency): 1	000Hz			4 A计权特性(A-1	Weighting Char	acteristic)				
标准声级	指示声级	误差	允许误差	结论	U		频率	实测值	理论值	误差	允许误差	结论	U
(Standard)	(Indication)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)		(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)
(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)		(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
130.0	129.9	-0.1	±0.8	Р	0.3		20	-50.8	-50.5	-0.3	±2.0	Р	0.5
129.0	128.9	-0.1	±0.8	Р	0.3		25	-45.0	-44.7	-0.3	+2.0 ~ -1.5	Р	0.5
128.0	127.9	-0.1	±0.8	Р	0.3		31.5	-39.6	-39.4	-0.2	±1.5	Р	0.5
127.0	126.9	-0.1	±0.8	Р	0.3		40	-34.6	-34.6	0.0	±1.0	P	0.5
126.0	125.9	-0.1	±0.8	Р	0.3	14	50	-30.2	-30.2	0.0	±1.0	P	0.5 0.5
125.0 120.0	124.9 120.0	-0.1 0.0	±0.8	P P	0.3		63	-26.1	-26.2	0.1 0.2	$^{\pm 1.0}_{\pm 1.0}$	P	0.5
120.0	120.0	0.0	±0.8 ±0.8	P P	0.3 0.3		80	-22.3 -19.1	-22.5 -19.1	0.2	±1.0 ±1.0	P	0.5
100.0	100.0	0.0	±0.8 ±0.8	P	0.3		100 125	-19.1	-19.1	0.0	±1.0 ±1.0	P	0.5
90.0	90.0	0.0	±0.8	р	0.3		125	-13.2	-13.4	0.0	±1.0	Р	0.5
80.0	80.0	0.0	±0.8	P	0.3		200	-10.7	-10.9	0.2	±1.0	Р	0.5
70.0	70.0	0.0	±0.8	Р	0.3		250	-8.7	-8.6	-0.1	±1.0	Р	0.5
60.0	60.0	0.0	±0.8	Р	0.3		315	-6.8	-6.6	-0.2	±1.0	Р	0.4
50.0	50.0	0.0	±0.8	Р	0.3		400	-4.7	-4.8	0.1	±1.0	Р	0.4
40.0	40.0	0.0	±0.8	Р	0.3		500	-3.1	-3.2	0.1	±1.0	Р	0.4
35.0	34.9	-0.1	±0.8	Р	0.3		630	-1.8	-1.9	0.1	±1.0	Р	0.4
34.0	33.9	-0.1	±0.8	Р	0.3		800	-0.7	-0.8	0.1	±1.0	Р	0.4
33.0	32.9	-0.1	±0.8	Р	0.3		1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
32.0	31.9	-0.1	±0.8	Р	0.3		1250	0.6	0.6	0.0	±1.0	Р	0.6
31.0 30.0	30.9 29.9	-0.1 -0.1	±0.8	P	0.3		1600	1.0	1.0	0.0	±1.0	Р	0.6
50.0	29.9	-0.1	±0.8	Р	0.3		2000	1.1	1.2	-0.1	±1.0	P	0.6
							2500	1.1	1.3 1.2	-0.2 -0.2	±1.0 ±1.0	P	0.6 0.6
							3150 4000	1.0 0.7	1.2	-0.2	±1.0	р	0.6
			6				5000	0.4	0.5	-0.1	±1.5	P	0.6
			R				6300	-0.2	-0.1	-0.1	+1.5 ~ -2.0	Р	0.6
							8000	-1.0	-1.1	0.1	+1.5 ~ -2.5	Р	0.6
							10000	-2.3	-2.5	0.2	+2.0 ~ -3.0	Р	0.6
						х.	12500	-4.2	-4.3	0.1	+2.0 ~ -5.0	Р	1.0
							16000	-8.5	-6.6	-1.9	+2.5 ~ -16.0	Р	1.0
							20000	-18.4	-9.3	-9.1	+3.0 ~ -∞	Р	1.0
							20000	-18.4	-9.3	-9.1	+3.0 ~ -∞	Р	1.0
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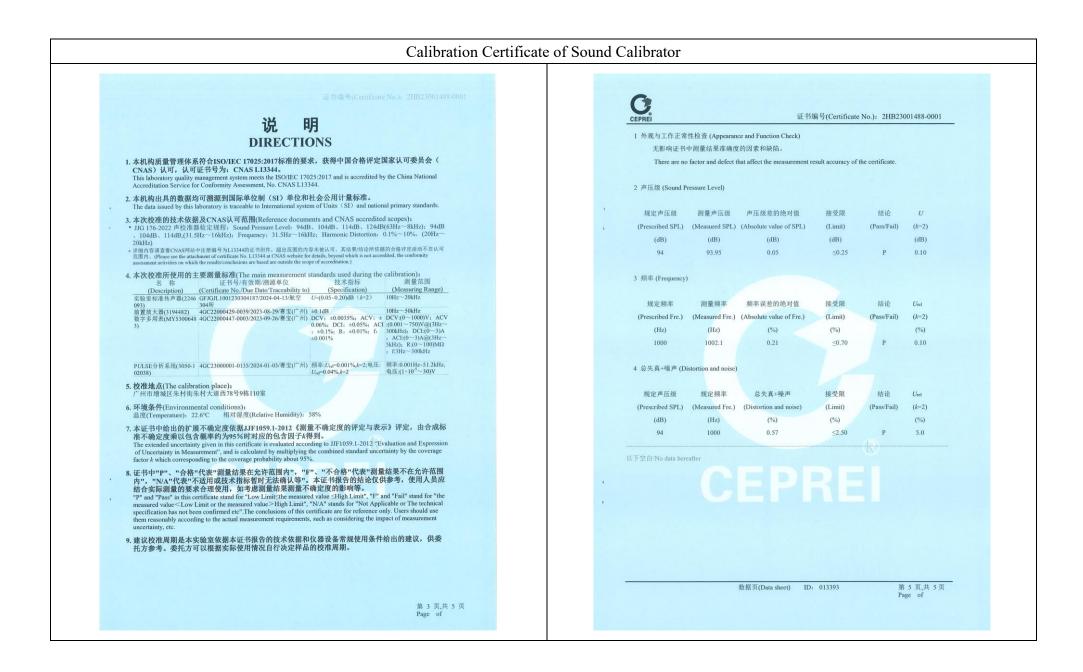
CEPREI			证书编号	弓(Certificate No.):	2HB2300148	8-0004	CEPREI 证书编号(Certificate No.): 2HB23001488-000
5 C计权特性(C-W	eighting Cha	racteristic)					6 自生噪声 (Autogenous noise)
頻率	实测值	理论值	误差	允许误差	结论	U	H H 权 実 測 値
(Frequency) (Hz)	(Actual) (dB)	(Theoretical value) (dB)	(Error) (dB)	(Limit) (dB)	(Pass/Fail)	(k=2) (dB)	(Weighting) (Actual)
20	-6.3	-6.2	-0.1	(dB) ±2.0	(P/F) P	0.5	(dB)
25	-4.5	-4,4	-0.1	+2.0 ~ -1.5	P	0.5	A 17.7
31.5	-3.0	-3.0	0.0	±1.5	Р	0.5	
40	-2.0	-2.0	0.0	±1.0	Р	0.5	以下空白/No data hereafter
50	-1.2	-1.3	0.1	±1.0	Р	0.5	
63 80	-0.7 -0.4	-0.8 -0.5	0.1 0.1	±1.0	P P	0.5	
100	-0.4	-0.3	0.1	±1.0 ±1.0	P	0.5 0.5	
125	-0.1	-0.2	0.1	±1.0	P	0.5	
160	0.0	-0.1	0.1	±1.0	Р	0.5	
200	0.0	0.0	0.0	±1.0	Р	0.5	
250 315	0.0 0.0	0.0	0.0	±1.0	P P	0.5	
400	0.0	0.0	0.0	±1.0 ±1.0	P	0.4 0.4	
500	0.0	0.0	0.0	±1.0	Р	0.4	
630	0.0	0.0	0.0	±1.0	Р	0.4	
800	0.0	0.0	0.0	±1.0	Р	0.4	
1000(Ref.) 1250	0.0 -0.1	0.0 0.0	0.0 -0.1	±0.7	P	0.4	
1600	-0.1	-0.1	-0.1	±1.0 ±1.0	P P	0.6 0.6	
2000	-0.3	-0.2	-0.1	±1.0	Р	0.6	
2500	-0.5	-0.3	-0.2	±1.0	Р	0.6	
3150	-0.8	-0.5	-0.3	±1.0	Р	0.6	
4000 5000	-1.1 -1.5	-0.8 -1.3	-0.3 -0.2	±1.0 ±1.5	P P	0.6 0.6	
6300	-2.1	-2.0	-0.1	+1.5 ~ -2.0	P	0.6	D
8000	-2.9	-3.0	0.1	+1.5 ~ -2.5	P	0.6	
10000	-4.2	-4.4	0.2	+2.0 ~ -3.0	Р	0.6	
12500	-6.2	-6.2	0.0	+2.0 ~ -5.0	Р	1.0	
16000 20000	-10.4 -20.4	-8.5	-1.9 -9.2	$+2.5 \sim -16.0$ $+3.0 \sim -\infty$	P	1.0 1.0	CEPREI
第 8 页,共 9 页 Page of		数据页(Data she	et) ID: 0	71288			



CEPREI		证书编号(Certific	cate No.): 2HB230014	88-0003	CEPREI		证书编号	(Certificate No.):	2HB23001488	8-0003
					3.2 其它级量程 (Other Ran	ige)		频率(Frequency): 10	000Hz	
1 外观与工作正常性检查(A	ppearance and Function C 具准确度的因素和缺陷。				标准声级	指示声级	误差	允许误差	结论	U
		asurement result accuracy	of the certificate		(Standard)	(Indication)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)
There are no factor and	defect that affect the mea	asurement result accuracy	of the certificate.		(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
2 指示声级调整 (Indication S	PL Calibration)		频率(Frequency)=10	000Hz	130.0	129.9	-0.1	$\pm 0.8$	Р	0.3
传声器型号	传声器编号	放大器型			129.0	128.9	-0.1	±0.8	Р	0.3
(Microphone Type)	(Microphone SN.)		Type) (Preamplifier S		128.0	127.9	-0.1	±0.8	Р	0.3
/	/	, ,	/		127.0	126.9	-0.1	±0.8	Р	0.3
					126.0	125.9	-0.1	±0.8	Р	0.3
声校准器型号	标准声压级	校准前示值	校准后示值	U	125.0	124.9	-0.1	±0.8	P	0.3
(Calibrator Type)	(Reference SPL)	(Before Calibration)	(After Calibration)	( <i>k</i> =2)	120.0 110.0	120.0 110.0	0.0 0.0	±0.8	P P	0.3
	(dB)	(dB)	(dB)	(dB)	110.0	100.0	0.0	±0.8 ±0.8	P	0.3 0.3
4226	94.0	93.8	93.8	0.2	90.0	90.0	0.0	±0.8	P	0.3
					80.0	80.0	0.0	±0.8	P	0.3
3 级线性 (Level Linearity)		-			70.0	70.0	0.0	±0.8	P	0.3
3.1 参考级量程 (Reference)			equency): 8000Hz	U	60.0	60.0	0.0	±0.8	Р	0.3
标准声级	指示声级		t许误差 结论 (Limit) (Pass/Fail)		50.0	50.0	0.0	±0.8	Р	0.3
(Standard)	(Indication) (dB)	(Error) (dB)	(Limit) (Pass/Fail) (dB) (P/F)	(dB)	40.0	40.0	0.0	±0.8	Р	0.3
(dB) 130.0	(dB) 129.8		±0.8 P	0.3	35.0	34.9	-0.1	±0.8	Р	0.3
129.0	123.8	-0.2	±0.8 P	0.3	34.0	33.9	-0.1	±0.8	Р	0.3
128.0	127.8	-0.2	±0.8 P	0.3	33.0	32.9	-0.1	±0.8	Р	0.3
127.0	126.8		±0.8 P	0.3	32.0	31.9	-0.1	±0.8	Р	0.3
126.0	125.9	-0.1	±0.8 P	0.3	31.0	30.9	-0.1	±0.8	Р	0.3
125.0	124.9	-0.1	±0.8 P	0.3	30.0	29,9	-0.1	±0.8	Р	0.3
120.0	119.9	-0.1	±0.8 P	0.3						
110.0	110.0	0.0	±0.8 P	0.3						
100.0	100.0		±0.8 P	0.3						
90.0	90.0	0.0	±0.8 P	0.3						
80.0	79.9		±0.8 P	0.3						
70.0	69.9 60.0		±0.8 P ±0.8 P	0.3 0.3						
60.0 50.0	60.0 49.9	-0.1	±0.8 P	0.3						
40.0	39.9		±0.8 P	0.3						
35.0	34.8		±0.8 P	0.3						
34.0	33.8		±0.8 P	0.3						
33.0	32.9		±0.8 P	0.3						
32.0	31.8	-0.2	±0.8 P	0.3						
31.0	30.8	-0.2	±0.8 P	0.3						
30.0	29.8	-0.2	±0.8 P	0.3						
		heet) ID: 071288		页,共 9页	第6页,共9页	粉据页(Deter	heet) ID: 07	11200		

EPREI							
			证书编号	(Certificate No.):	2HB23001488	3-0003	
A计权特性(A-We	eighting Char	racteristic)					
频率	实测值	理论值	误差	允许误差	结论	U	
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	
(Hz)	(dB)	(dB)	(dB)				
20	-50.5	-50.5					
25	-44.9	-44.7					
				±1.0	P	0.5	
	-19.1	-19.1	0.0	±1.0	Р	0.5	
		-16.1	0.0	±1.0	Р	0.5	
160	-13.2	-13.4	0.2	$\pm 1.0$	Р	0.5	
200	-10.8	-10.9	0.1	±1.0	Р	0.5	
250	-8.6	-8.6	0.0	±1.0	Р		
315	-6.6	-6.6	0.0	±1.0	Р		
400		-4.8					
					Р	0.6	
		1.2	-0.1	±1.0	Р	0.6	
	1.1	1.3	-0.2	±1.0	Р	0.6	
3150	0.9	1.2	-0.3	$\pm 1.0$	Р	0.6	
4000	0.7	1.0	-0.3	$\pm 1.0$	Р	0.6	
5000	0.3	0.5	-0.2	±1.5 R			
6300							
						1.0	
		-9.3	-9.1	+3.0 ~ -∞	P	1.0	
	(Frequency) (Hz) 20 25 31.5 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1000(Ref.) 1250 1600 2000 2500 3150 4000 5500	(Frequency)         (Actual)           (Hz)         (dB)           20         -50.5           25         -44.9           31.5         -39.7           40         -34.5           50         -30.3           63         -26.2           80         -22.3           100         -19.1           125         -16.1           160         -13.2           200         -10.8           250         -8.6           315         -6.6           400         -4.7           500         -3.2           630         -1.9           800         -0.8           1000(Ref.)         0.0           1250         0.5           1600         0.9           2000         1.1           2500         1.1           3150         0.9           4000         0.7           5000         0.3           6300         -0.2           8000         -1.1           10000         -2.3           12500         -4.3           12500         -4.3           12500<	(Frequency)         (Actual)         (Theoretical value)           (Hz)         (dB)         (dB)           20         -50.5         -50.5           25         -44.9         -44.7           31.5         -39.7         -39.4           40         -34.5         -34.6           50         -30.3         -30.2           63         -26.2         -26.2           80         -22.3         -22.5           100         -19.1         -16.1           125         -16.1         -16.1           160         -13.2         -13.4           200         -10.8         -10.9           250         -8.6         -8.6           315         -6.6         -6.6           400         -4.7         -4.8           500         -3.2         -3.2           630         -1.9         -1.9           800         -0.8         -0.8           1000(Ref.)         0.0         0.0           2000         1.1         1.2           2000         1.1         1.2           2000         1.1         1.2           2000         0.7         1	(Frequency)(Actual)(Theoretical value)(Error)(Hz)(dB)(dB)(dB)20-50.5-50.50.025-44.9-44.7-0.231.5-39.7-39.4-0.340-34.5-34.60.150-30.3-30.2-0.163-26.2-26.20.080-22.3-22.50.2100-19.1-19.10.0125-16.1-16.10.0135-6.6-6.60.0315-6.6-6.60.0300-3.2-3.20.0630-1.9-1.90.01000-1.3-1.90.0800-0.8-0.80.010000.91.0-0.120001.11.2-0.115000.50.6-0.116000.91.0-0.120001.11.2-0.340000.71.0-0.350000.30.5-0.231500.91.2-0.340000.71.0-0.350000.30.5-0.26300-0.2-0.1-0.18000-1.1-1.10.010000-2.3-2.50.21250-4.3-4.3-0.016000-0.2-0.1-0.18000-1.1-1.10.010000-2.3 <td></td> <td>(Frequency)(Actual)(Theoretical value)(Error)(Limit)(Pass/Fail)(Hz)(dB)(dB)(dB)(dB)(dB)(P)20<math>50.5</math><math>50.5</math><math>0.0</math><math>\pm 2.0</math>P25<math>44.9</math><math>44.7</math><math>-0.2</math><math>\pm 2.01.5</math>P31.5<math>-39.7</math><math>-39.4</math><math>-0.3</math><math>\pm 1.5</math>P40<math>-34.5</math><math>-34.6</math><math>0.1</math><math>\pm 1.0</math>P50<math>-30.3</math><math>-30.2</math><math>-0.1</math><math>\pm 1.0</math>P63<math>-2c.2</math><math>-2c.2</math><math>0.0</math><math>\pm 1.0</math>P80<math>-22.3</math><math>-22.5</math><math>0.2</math><math>\pm 1.0</math>P100<math>-19.1</math><math>-19.1</math><math>0.0</math><math>\pm 1.0</math>P125<math>-16.1</math><math>-16.1</math><math>0.0</math><math>\pm 1.0</math>P126<math>-16.1</math><math>-16.1</math><math>0.0</math><math>\pm 1.0</math>P200<math>-10.8</math><math>-10.9</math><math>0.1</math><math>\pm 1.0</math>P215<math>-6.6</math><math>-6.6</math><math>0.0</math><math>\pm 1.0</math>P200<math>-1.8</math><math>-10.9</math><math>0.1</math><math>\pm 1.0</math>P315<math>-6.6</math><math>-6.6</math><math>0.0</math><math>\pm 1.0</math>P300<math>-3.2</math><math>-3.2</math><math>0.0</math><math>\pm 1.0</math>P300<math>-3.2</math><math>-3.2</math><math>0.0</math><math>\pm 1.0</math>P300<math>-0.5</math><math>0.6</math><math>-0.1</math><math>\pm 1.0</math>P200<math>1.1</math><math>1.2</math><math>0.1</math><math>\pm 1.0</math>P300<math>-0.5</math><math>0.6</math><math>-0.1</math><math>\pm 1.0</math>P3150<math>0.9</math><math>1.0</math><math>-0.1</math>&lt;</td> <td>(Frequency) (Hz)(Actual) (HB)(Theoretical value) (HB)(Error)(Limit) (HB)(Pas/Fail) (PD)(<math>k=2</math>) (HB)20-50.5-50.50.0<math>\pm 2.0</math>P0.525-44.9-44.7-0.2<math>\pm 2.0</math>-1.5P0.531.5-39.7-39.4-0.3<math>\pm 1.5</math>P0.540-34.5-34.60.1<math>\pm 1.0</math>P0.550-30.3-30.2-0.1<math>\pm 1.0</math>P0.563-26.2-26.20.0<math>\pm 1.0</math>P0.5100-19.1-19.10.0<math>\pm 1.0</math>P0.51100-19.1-0.0<math>\pm 1.0</math>P0.5125-16.1-16.10.0<math>\pm 1.0</math>P0.5160-13.2-13.40.2<math>\pm 1.0</math>P0.5200-10.8-10.90.1<math>\pm 1.0</math>P0.5215-6.6-6.60.0<math>\pm 1.0</math>P0.4400-4.7-4.80.1<math>\pm 1.0</math>P0.4500-3.2-3.20.0<math>\pm 1.0</math>P0.4500-3.2-3.20.0<math>\pm 1.0</math>P0.4630-1.9-1.90.0<math>\pm 1.0</math>P0.4630-1.9-1.90.0<math>\pm 1.0</math>P0.61000(Ref.0.91.0-0.1<math>\pm 1.0</math>P0.620001.11.2-0.1<math>\pm 1.0</math></td>		(Frequency)(Actual)(Theoretical value)(Error)(Limit)(Pass/Fail)(Hz)(dB)(dB)(dB)(dB)(dB)(P)20 $50.5$ $50.5$ $0.0$ $\pm 2.0$ P25 $44.9$ $44.7$ $-0.2$ $\pm 2.01.5$ P31.5 $-39.7$ $-39.4$ $-0.3$ $\pm 1.5$ P40 $-34.5$ $-34.6$ $0.1$ $\pm 1.0$ P50 $-30.3$ $-30.2$ $-0.1$ $\pm 1.0$ P63 $-2c.2$ $-2c.2$ $0.0$ $\pm 1.0$ P80 $-22.3$ $-22.5$ $0.2$ $\pm 1.0$ P100 $-19.1$ $-19.1$ $0.0$ $\pm 1.0$ P125 $-16.1$ $-16.1$ $0.0$ $\pm 1.0$ P126 $-16.1$ $-16.1$ $0.0$ $\pm 1.0$ P200 $-10.8$ $-10.9$ $0.1$ $\pm 1.0$ P215 $-6.6$ $-6.6$ $0.0$ $\pm 1.0$ P200 $-1.8$ $-10.9$ $0.1$ $\pm 1.0$ P315 $-6.6$ $-6.6$ $0.0$ $\pm 1.0$ P300 $-3.2$ $-3.2$ $0.0$ $\pm 1.0$ P300 $-3.2$ $-3.2$ $0.0$ $\pm 1.0$ P300 $-0.5$ $0.6$ $-0.1$ $\pm 1.0$ P200 $1.1$ $1.2$ $0.1$ $\pm 1.0$ P300 $-0.5$ $0.6$ $-0.1$ $\pm 1.0$ P3150 $0.9$ $1.0$ $-0.1$ <	(Frequency) (Hz)(Actual) (HB)(Theoretical value) (HB)(Error)(Limit) (HB)(Pas/Fail) (PD)( $k=2$ ) (HB)20-50.5-50.50.0 $\pm 2.0$ P0.525-44.9-44.7-0.2 $\pm 2.0$ -1.5P0.531.5-39.7-39.4-0.3 $\pm 1.5$ P0.540-34.5-34.60.1 $\pm 1.0$ P0.550-30.3-30.2-0.1 $\pm 1.0$ P0.563-26.2-26.20.0 $\pm 1.0$ P0.5100-19.1-19.10.0 $\pm 1.0$ P0.51100-19.1-0.0 $\pm 1.0$ P0.5125-16.1-16.10.0 $\pm 1.0$ P0.5160-13.2-13.40.2 $\pm 1.0$ P0.5200-10.8-10.90.1 $\pm 1.0$ P0.5215-6.6-6.60.0 $\pm 1.0$ P0.4400-4.7-4.80.1 $\pm 1.0$ P0.4500-3.2-3.20.0 $\pm 1.0$ P0.4500-3.2-3.20.0 $\pm 1.0$ P0.4630-1.9-1.90.0 $\pm 1.0$ P0.4630-1.9-1.90.0 $\pm 1.0$ P0.61000(Ref.0.91.0-0.1 $\pm 1.0$ P0.620001.11.2-0.1 $\pm 1.0$







6						SPECIFICATIO	NS				
CEPREI		证书编	编号(Certificate	e No.): 2HB23	001715-0001	THERMAL ANEN MODELS TA410,	10METERS TA430 AND TA440				
1 外观与工作正常性	检查 (Appearanc	e and Function Check)									
	则量结果准确度										
There are no fac	ctor and defect th	at affect the measurement re	esult accuracy of	the certificate.		Velocity Range (TA410) Range (TA430, TA440)	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min)	<b>Time Constant (T</b> User selectable	A430, TA44	0)	
2 声压级 (Sound Press	sure Level)					Accuracy (TA410) <sup>162</sup> Accuracy (TA430, TA440	±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater )µ <sup>µµ</sup> ±3% of reading or ±0.015 m/s	External Meter D 8.4 cm x 17.8 cm x 4	4.4 cm (3.3 in.	x 7.0 in. x 1.8 in	L)
规定声压级	测量声压级	声压级差的绝对值	接受限	结论	U	Resolution	(±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	Meter Weight wit 0.27 kg (0.6 lbs.)	th Batteries		
(Prescribed SPL) (I	Measured SPL)	(Absolute value of SPL)	(Limit)	(Pass/Fail)	(k=2)	Duct Size (TA430, TA		Meter Probe Dime	ensions		
(dB)	(dB)	(dB)	(dB)		(dB)	Dimensions	1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Probe Length Probe Diameter of	101.6 Tip 7.0 m	5 cm (40 in.) 1m (0.28 in.)	
94	93.86	0.14	≤0.25	Р	0.10	Volumetric Flow Rate	e (TA430, TA440)	Probe Diameter of I		mm (0.51 in.)	
3 頻率 (Frequency)						Range	Actual range is a function of velocity, and duct size	Articulating Prob Articulating Section Length		<b>is</b> cm (7.8 in.)	
						<b>Temperature</b> Range (TA410, TA430)	-18 to 93°C (0 to 200°F)	Diameter of Articulating Knuckle	9.5 m	ım (0.38 in.)	
规定频率	测量频率	频率误差的绝对值	接受限	结论	Urel	Range (TA440) Accuracy <sup>a</sup>	-10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F)	Power Requirem			
		(Absolute value of Fre.)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	Resolution	0.1°C (0.1°F)	Four AA-size batte	ries or AC adag	pter	
(Hz)	(Hz)	(%)	(%)		(%)	Relative Humidity (T Range	A440 only) 5 to 95% RH		TA410	TA430, TA430-A	TA44
1000	1003.7	0.37	≤0.70	Р	0.10	Accuracy <sup>4</sup> Resolution	±3% RH	Velocity range 0 to 20.00 m/s			1
4 总失真+噪声 (Disto	ution and noise)						0.1% RH	(0 to 4000 ft/min) Velocity range 0 to 30.00 m/s		+	+
1.0704 307 (2.00	Auton and noise)					Wet Bulb Temperatur Range	5 to 60°C (40 to 140°F)	(0 to 6000 ft/min) Temperature	+	+	+
规定声压级	规定频率	总失真+噪声	接受限	结论	Urel	Resolution	0.1°C (0.1°F)	Flow		+	
(Prescribed SPL) (I	Measured Fre.)	(Distortion and noise)	(Limit)	(Pass/Fail)	( <i>k</i> =2)	Dew Point (TA440 or Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb,			+
(dB)	(Hz)	(%)	(%)		(%)	Resolution	0.1°C (0.1°F)	dew point Probe	Straight	Straight or -A articulated	Straight articula
94	1000	0.69	≤2.50	Р	5.0	Instrument Tempera		Variable time constant		+	+
				R	······	Operating (Electronics) Model TA410, TA430	5 to 45°C (40 to 113°F) -18 to 93°C (0 to 200°F)	Manual data logging		+	+
以下空白/No data hereaft	ter					Operating (Probe) Model TA440	-10 to 60°C (14 to 140°F)	Auto save data logging			+
						Operating (Probe) Storage	-20 to 60°C (-4 to 140°F)	Statistics		+	+
						Data Storage Capabil	ities (TA430, TA440)	Review data		+	+
						Range	12,700+ samples and 100 test IDs	LogDat2 downloading		+	+
						Logging Interval (TA	430, TA440)	software Free Certificate	+	+	+
						1 second to 1 hour		of Calibration			L
						Specifications subject to change v TSI and the TSI logo are registered the Airflow logo and LogDat2 are	I trademarks, and Airflow,	<sup>4</sup> Temperature compensated <sup>8</sup> The accuracy statement be for the Model TA410, and 3 Models TA430 and TA440	egins at 30 ft/min th 30 ft/min through 6 1	170ugh 4000 ft/min (( .000 ft/min (0.15 m/s	0.15 m/s throug through 30 m/
							<b>FLOW</b> RUMENTS	<sup>9</sup> Accuracy with instrument for change in instrument t <sup>4</sup> Accuracy with probe at 25 change in probe temperate	temperature. S°C (77°F). Add uncer	tainty of 0.2% RH/°C	
The second	ġ	数据页(Data sheet) ID:	013393		5页,共 5页 ge of	Airflow Instruments, TSI	Instruments Ltd. airflowinstruments.co.uk for more informat				

Calibration Certificate of Air Flow Meter	
Calibration Certificate of Air Flow Meter	
Reference Reading (m/s)         Measured Reading (m/s)         Error (m/s)         Uncertainty (%)         Technical Regimement         Technical Reference Doc.           0.99         0.99         0.00         3.6         ± 5 %         Mfr's Spec.           2.02         2.03         0.01         3.6         ± 5 %         Mfr's Spec.           5.01         4.98         -0.03         3.6         ± 5 %         Mfr's Spec.           7.96         8.07         0.11         3.6         ± 5 %         Mfr's Spec.	
Note: The estimated argential interestinities have been calculated in "Svaluetion and expression of executativity in measurement" and give an internal estimated to here a level of conference of 50%. A converge factor of 2 is assume an interesting in reasourcement and an explicit and an	
holds: incompared pool on anticolo. Heads:	

Appendix L – Noise monitoring results and graphical presentation

	<b>T</b> (0 <b>C</b> )	Weather	Measured Noise Level at M11, dB(A)									
Date	Temp (°C)		Ti	me	e	Baseline	L <sub>Aeq</sub>	L <sub>A10</sub>	L <sub>A90</sub>	Limit		
06/06/2024	27.9	Sunny	10:14	-	10:44	68.3	72.5	76.3	62.8	75		
12/06/2024	32.7	Cloudy	14:02	-	14:32	68.3	71.8	75.7	65.2	75		
18/06/2024	32.3	Sunny	13:37	-	14:07	68.3	73.4	77.8	66.7	75		
24/06/2042	29.8	Sunny	10:04	-	10:34	68.3	73.9	78.1	65.6	75		
			]	Ma	aximum		73.9					
				M	inimum		71.8					
				A	verage		73.0					

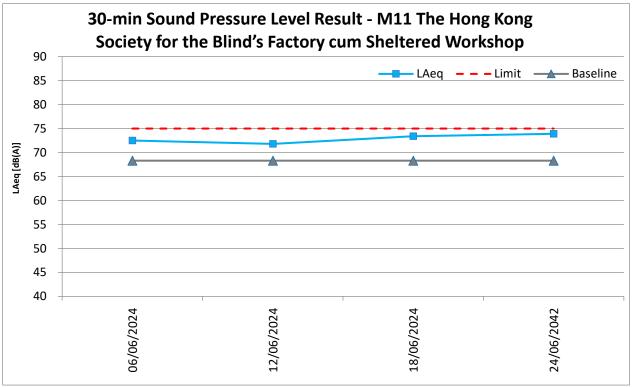
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.

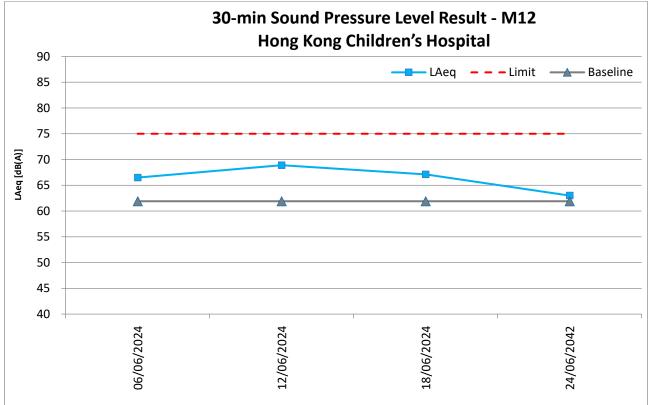
M12 - Hong Kong Children's Hospital

		Weather			Measured	d Noise Le	evel at M1	2, dB(A)		<b>T</b> · · ·
Date	Temp (°C)		Т	'n	me	Baseline	L <sub>Aeq</sub>	L <sub>A10</sub>	LA90	Limit
06/06/2024	27.9	Sunny	14:12	-	14:42	61.9	66.5	70.0	59.5	75
12/06/2024	32.7	Cloudy	10:22	-	10:52	61.9	68.9	69.7	66.7	75
18/06/2024	32.3	Sunny	10:06	-	10:36	61.9	67.1	69.8	58.1	75
24/06/2042	29.8	Sunny	13:37	-	14:07	61.9	63.0	64.8	60.9	75
				]	Maximum	1	68.9			
					Minimum	l	63.0			
					Average		66.8			

L<sub>Aeq</sub>, 30-min graphical results of M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop



NOTE: Due to the relocation of The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), the premises owner rejected ET to conduct impact monitoring since 1 Sept 2022. 30-min noise monitoring at M11 were conducted on the ground floor with orienting to the Project site. ET will resume the impact monitoring once the alternative monitoring location for M11 is confirmed.



LAeq, 30-min graphical results of M12 - Hong Kong Children's Hospital

## Appendix M – Event and Action Plan for noise

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

Event		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial		exceedance until the	taken within 2 working days
	actions and keep IEC,		exceedance is abated.	after the exceedance is
	EPD, and Supervisor /ER		(The above actions should be	identified.)
	informed of the results;		taken within 2 working days after	
	8. If exceedance stops, cease		the exceedance is identified.)	
	additional monitoring.			
	(The above actions should be			
	taken within 2 working days			
	after the exceedance is			
	identified.)			

Appendix N – Event and Action Plan for Landscape and Visual Impact

Event		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary.</li> </ol>	<ol> <li>Undertake remedial design if necessary.</li> </ol>	
Non-conformity on one occasion	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> </ol>	Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>
Repeated Non-conformity	<ol> <li>Identify Source.</li> <li>Inform IEC and Supervisor /ER.</li> <li>Increase monitoring frequency.</li> <li>Discuss remedial actions with IEC, Supervisor /ER and Contractor.</li> <li>Monitor remedial actions until rectification has been completed.</li> <li>If non-conformity stops, cease additional monitoring.</li> </ol>	method. 3. Discuss with ET and Contractor on possible remedial measures.	<ol> <li>Notify Contractor.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Amend working methods.</li> <li>Rectify damage and undertake any necessary replacement.</li> </ol>

**Appendix O – Waste Flow Table** 



#### Appendix I - Monthly Summary Waste Flow Table

Name of Department: CEDD

#### Contract No.: ED/2018/01

6	Ac	tual Quantitie	s of Inert C&D	<b>Materials Gene</b>	rated Monthl	У		<b>Actual Quantities</b>	of C&D Wastes	s Generated Mont	hly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg	) (in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup>
Jan	2.311	0.111			2.311			-			0.184
Feb	2.232	0.177			2.232			-			0.173
Mar	2.893	0.032			2.893			0.051			0.259
Apr	3.482	0.016			3.482			-			0.238
May	5.531	0.595		Shote 188 Al Ada da te waaloo da	5.531						0.143
Jun	1.610	0.248			1.610	1.106					0.190
Sub-total	18.059	1.179			18.059	1.106		0.051			1.187
July											
Aug											
Sep				, som det for det setter av det for det set				e talen ander elle solen en solene en			
Oct	ranizza en enclation en las encon			Consectific on Anna and Alicon And				<ul> <li>C.L.C. Free C.L.Sterner (1) and second second second processing of the second seco</li></ul>		n - Andrea Brakren III andrea III andrea III	
Nov											
Dec	or and the restriction of the second second			2 contration or any prosent Marcons							
Total	18.059	1.179			18.059	1.106		0.051	-		1.187
			Forecas	st of Total Quant	ities of C&D	Materials t	be Generate	ed from the Contra	ct*		
Total Quantity Generated	Hard Rock and Broken Con		A 199 (199 (199 (199 (199 (199 (199 (199	in other Dispose ects Public	Impo	rted Fill	Metals	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m	i <sup>2</sup> ) (in '00	(in '0	00m <sup>3</sup> ) (in '000	(in ')	000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>2</sup> )
207.384	2.103	10	.2 14	40 27.4	15	25	200	0.8	0.1		3.891

#### Monthly Summary Waste Flow Table for June 2024

Notes: (1) The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual

(2) The waste flow table shall also include C&D materials to be imported for use at the Site

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and water barrier

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m<sup>3</sup> (ER Part 8 Clause 8.7.5(d)(ii) refers)

(5) Assume inert C&D materials density and non-inert C&D materials are 1.9 ton/m<sup>3</sup> and 1.5 ton/m<sup>3</sup>

Appendix P – Environmental Mitigation Implementation Schedule (EMIS)

EIA for KTD Development	EIA for KTD – Roads D3A	Air Quality Measures Environmental Protection Measures / Mitigation Measures	Status
Ref.	& D4A Ref.		
\$3.2		8 times daily watering of the work site with active dust emitting	^
		activities.	
\$3.2	S4.8	Implementation of dust suppression measures stipulated in Air	^
		Pollution Control (Construction Dust) Regulation. The following	
		mitigation measures, good site practices and a comprehensive dust	
		monitoring and audit programme are recommended to minimize	
		cumulative dust impacts.	
		- Stockpiling site(s) should be lined with impermeable sheeting	^
		and bunded. Stockpiles should be fully covered by	
		impermeable sheeting to reduce dust emission.	
		- Misting for the dusty material should be carried out before	^
		being loaded into the vehicle.	
		- Any vehicle with an open load carrying area should have	^
		properly fitted side and tail boards.	
		- 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.	
		- 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.	
		- 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.	
		<ul> <li>Vehicle washing facilities should be provided at every vehicle</li> </ul>	^
		exit point.	
		- 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.	
			^
		- 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.	~
		- 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.	
		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving the construction sites.	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.3		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.	
S3.3		Good Site Practice:	
S3.3		- 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.	
		- Scheduling of Construction Works during School	N/A
		Examination Period	

Implementatio	n Schedule for V	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.4		<u>Construction Runoff</u> 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:	^
S3.4		- use of sediment traps.	^
S3.4		- adequate maintenance of drainage systems to prevent flooding and overflow.	^

EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.		Environmental Protection Measures / Mitigation Measures	Status
	S5.8	-	Surface run-off from construction sites should be discharged	^
			into storm drains via adequately designed sand/silt removal	
			facilities such as sand traps, silt traps and sedimentation basins.	
	S5.8	-	Channels or earth bunds or sand bag barriers should be provided	^
			on site to properly direct stormwater to such silt removal	
			facilities. Perimeter channels should be provided on site	
			boundaries where necessary to intercept storm run-off from	
			outside the site so that it will not wash across the site. Catchpits	
			and perimeter channels should be constructed in advance of site	
			formation works and earthworks.	
	S5.8	-	Silt removal facilities, channels and manholes should be	^
			maintained and the deposited silt and grit should be removed	
			regularly, at the onset of and after each rainstorm to prevent	
			local flooding. Any practical options for the diversion and	
			re-alignment of drainage should comply with both engineering	
			and environmental requirements in order to provide adequate	
			hydraulic capacity of all drains. Minimum distance of 100 m	
			should be maintained between the discharge points of	
			construction site run-off and the existing saltwater intakes.	
	S5.8	-	Earthworks final surfaces should be well compacted and the	^
			subsequent permanent work or surface protection should be	
			carried out immediately after the final surfaces are formed to	
			prevent erosion caused by rainstorms. Appropriate drainage like	
			intercepting channels should be provided where necessary.	
	S5.8	-	Measures should be taken to minimize the ingress of rainwater	^
			into trenches. If excavation of trenches in wet seasons is	
			necessary, they should be dug and backfilled in short sections.	
			Rainwater pumped out from trenches or foundation excavations	
			should be discharged into storm drains via silt removal facilities.	
	S5.8	-	Open stockpiles of construction materials (e.g. aggregates,	^
			sand and fill material) on sites should be covered with tarpaulin	
			or similar fabric during rainstorms.	
	S5.8	-	Manholes (including newly constructed ones) should always be	^
			adequately covered and temporarily sealed so as to prevent silt,	
			construction materials or debris from getting into the drainage	
			system, and to prevent storm run-off from getting into foul	
			sewers. Discharge of surface run-off into foul sewers must	
			always be prevented in order not to unduly overload the foul	

Implementatio	Implementation Schedule for Water Quality Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
		sewerage system.			
	S5.8	- Good site practices should be adopted to remove rubbish and	^		
		litter from construction sites so as to prevent the rubbish and			
		litter from spreading from the site area. It is recommended to			
		clean the construction sites on a regular basis.			
S3.4		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.			
\$3.4	S5.8	Ideally, 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.			
		If excavation in soil cannot be avoided in these months or at any			
		time of year when rainstorms are likely, for the purpose of			
		preventing soil erosion, temporary exposed slope surfaces should be			
		covered e.g. by tarpaulin, and temporary access roads should be			
		protected by crushed stone or gravel, as excavation proceeds.			
		Intercepting channels should be provided (e.g. along the crest / edge			
		of excavation) to prevent storm runoff from washing across exposed			
		soil surfaces. Arrangements should always be in place in such a way			
		that adequate surface protection measures can be safely carried out			
		well before the arrival of a rainstorm.			
S3.4		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			

Implementatio	n Schedule for <b>V</b>	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and particularly suited to applications where the influent is pumped.	
S3.4		Open stockpiles of construction materials (for examples, aggregates,	^
		sand and fill material) of more than 50 m <sup>3</sup> 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.	
S3.4		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.	
S3.4		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 are summarised in	
		Appendix A2 of ProPECC PN 1/94. Particular attention should be	
		paid to the control of silty surface runoff during storm events.	
S3.4		Oil interceptors should be provided in the drainage system and	NA
		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.	
S3.4	S5.8	Wheel Washing Water	^
		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.	
S3.4		Drainage	^
		It is recommended that 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.	
S3.4		All temporary and permanent drainage pipes and culverts provided	^

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		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.	
S3.4		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.	
S3.4	S5.8	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.	
		Notices should be posted at conspicuous locations to remind the	
		workers not to discharge any sewage or wastewater into the	
		surrounding environment. Regular environmental audit of the	
		construction site will provide an effective control of any	
		malpractices and can encourage continual improvement of	
		environmental performance on site. It is anticipated that sewage	
		generation during the construction phase of the project would not	
		cause water pollution problem after undertaking all required	
		measures.	
\$3.4		Stormwater Discharges	^
		Minimum distances of 100 m should be maintained between the	
		existing or planned stormwater discharges and the existing or	
		planned seawater intakes	
S3.4		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 is optimised	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and that disposal of any solid materials, litter or wastes to marine	
		waters does not occur.	
	S5.8	Boring and Drilling Water	^
		Water used in ground boring and drilling for site investigation or	
		rock / soil anchoring should as far as practicable be re-circulated	
		after sedimentation. When there is a need for final disposal, the	
		wastewater should be discharged into storm drains via silt removal	
		facilities.	
	S5.8	Acid Cleaning, Etching and Pickling Wastewater	NA
		Acidic wastewater generated from acid cleaning, etching, pickling	
		and similar activities should be neutralized to within the pH range	
		of 6 to 10 before discharging into	
		foul sewers.	
	S5.8	Effluent Discharge	^
		There is a need to apply to EPD for a discharge licence for discharge	
		of effluent from the construction site under the WPCO. The	
		discharge quality must meet the requirements specified in the	
		discharge licence. All the runoff and wastewater generated from the	
		works areas should be treated so that it satisfies all the standards	
		listed in the TM-DSS. Minimum distance of 100 m should be	
		maintained between the discharge points of construction site effluent	
		and the existing seawater intakes and the planned WSR mentioned in	
		S5.3.1 as appropriate. The beneficial uses of the treated effluent for	
		other on-site activities such as dust suppression, wheel washing and	
		general cleaning etc., can minimise water consumption and reduce	
		the effluent discharge volume. If monitoring of the treated	
		effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried	
		out in accordance with the relevant WPCO licence which is under the ambit of regional office (BO) of EPD	
	05.0	the ambit of regional office (RO) of EPD.	~
	S5.8	Accidental Spillage	~
		Contractor must register as a chemical waste producer if chemical	
		wastes would be produced from the construction activities. The	
		Waste Disposal Ordinance (Cap 354) and its subsidiary regulations	
		in particular the Waste Disposal (Chemical Waste) (General)	
		Regulation, should be observed and complied with for control of	
		chemical wastes.	
		Any service shop and maintenance facilities should be located on	

Implementation Schedule for Water Quality Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		hard standings within a bunded area, and sumps and oil interceptors		
		should be provided. Maintenance of vehicles and equipment		
		involving activities with potential for leakage and spillage should		
		only be undertaken within the areas appropriately equipped to		
		control these discharges.		
	S5.8	Disposal of chemical wastes should be carried out in compliance	^	
		with the Waste Disposal Ordinance. The Code of Practice on the		
		Packaging, Labelling and Storage of Chemical Wastes published		
		under the Waste Disposal Ordinance details the requirements to deal		
		with chemical wastes. General requirements are given as follows:		
		- Suitable containers should be used to hold the chemical wastes		
		to avoid leakage or spillage during storage, handling and		
		transport.		
	S5.8	- Chemical waste containers should be suitably labelled, to notify	^	
		and warn the personnel who are handling the wastes, to avoid		
		accidents.		
	S5.8	- Storage area should be selected at a safe location on site and	^	
		adequate space should be allocated to the storage area.		

Implementatio	Implementation Schedule for Waste Management Measures					
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status			
S3.5		Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include:				
\$3.5		<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> </ul>	^			
	S6.7	<ul> <li>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.</li> </ul>	^			
S3.5	S6.7	- Training of site personnel in proper waste management and chemical waste handling procedures.	٨			

Implementation Schedule for Waste Management Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
S3.5	S6.7	- Provision of sufficient waste disposal points and regular	^ <b>*</b>	
		collection for disposal.		
S3.5	S6.7	- Appropriate measures to minimise windblown litter and dust	^	
		during transportation of waste by either covering trucks or by		
		transporting wastes in enclosed containers.		
S3.5		- A recording system for the amount of wastes generated,	^	
		recycled and disposed of (including the disposal sites).		
	S6.7	- Regular cleaning and maintenance programme for drainage	^	
		systems, sumps and oil interceptors.		
	S6.7	- Training should be provided to workers about the concepts of	^	
		site cleanliness and appropriate waste management procedures,		
		including waste reduction, reuse and recycle.		
S3.5		Waste Reduction Measures		
		Good management and control can prevent the generation of a		
		significant amount of waste. Waste reduction is best achieved at the		
		planning and design stage, as well as by ensuring the		
		implementation of good site practices. Recommendations to achieve		
		waste reduction include:		
S3.5	S6.7	- Sort C&D waste from demolition of the remaining structures to	NA	
		recover recyclable portions such as metals.		
S3.5	S6.7	- 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.		
S3.5	S6.7	- Encourage collection of aluminium 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.		
S3.5		- Any unused chemicals or those with remaining functional	^	
		capacity should be recycled.		
S3.5	S6.7	- Proper storage and site practices to minimise the potential for	Λ	
		damage or contamination of construction materials.		
S3.5		Construction and Demolition Materials		
		Mitigation measures and good site practices should be incorporated		
		in the contract document to control potential environmental impact		
		from handling and transportation of C&D material. The mitigation		
		measures include:		
S3.5		- Where it is unavoidable to have transient stockpiles of C&D	^	
		material within the Project work site pending collection for		

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		disposal, the transient stockpiles shall be located away from	
		waterfront or storm drains as far as possible.	
S3.5		- Open stockpiles of construction materials or construction	^
		wastes on-site should be covered with tarpaulin or similar	
		fabric.	
S3.5		- Skip hoist for material transport should be totally enclosed by	^
		impervious sheeting.	
S3.5		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving a construction site.	
S3.5		- 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.	
S3.5		- 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.	
S3.5		- All dusty materials should be sprayed with water prior to any	^
		loading, unloading or transfer operation so as to maintain the	
		dusty materials wet.	
S3.5		- The height from which excavated materials are dropped should	^
		be controlled to a minimum practical height to limit fugitive	
		dust generation from unloading.	
S3.5		- 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	
		and Demolition Materials" should be included as one of the	
		contractual requirements and implemented by an	
		Environmental Team undertaking the Environmental	
		Monitoring and Audit work. An Independent Environmental	
		Checker should be responsible for auditing the results of the	
		system.	
	S6.7	- Plan and stock construction materials carefully to minimize	^
		amount of waste generated and avoid unnecessary generation	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		of waste.		
S3.5		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.		
	S6.7	Separation of chemical wastes for special handling and appropriate	^	
		treatment.		
S3.5		General Refuse	^	
		General refuse should be stored in enclosed bins or compaction units		
		separate from C&D material. A licensed waste collector should be		
		employed by the contractor to remove general refuse from the site,		
		separately from C&D material. Effective collection and storage		
		methods (including enclosed and covered area) of site wastes would		
		be required to prevent waste materials from being blown around by		
		wind, wastewater discharge by flushing or leaching into the marine		
		environment, or creating odour nuisance or pest and vermin		
		problem.		

Implementatio	Implementation Schedule for Landscape and Visual Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
S3.8.12		All existing trees should be carefully protected during construction.	^ <b>*</b>		
S3.8.12		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.	NA		
S3.8.12		Control of night-time lighting.	^		
S3.8.12		Erection of decorative screen hoarding.	^		
	S7.9	<ul> <li><u>Construction Site Control</u></li> <li>CM1 - Minimized construction area and contractor's temporary works areas.</li> </ul>	^		
		CM2- Control of night-time lighting and glare by hooding all lights.	^		
		- CM3 - Erection of decorative mesh screens or construction	^		

EIA for KTD Development	EIA for KTD – Roads D3A	Landscape and Visual Measures Environmental Protection Measures / Mitigation Measures	Status	
Ref.	& D4A Ref.			
		hoardings around works areas in visually unobtrusive colours.		
		- CM4 - Reduction of construction period to practical minimum.	^	
		- CM5 - Limitation of / Ensuring no run-off into surrounding	^	
		landscape and adjacent seawater areas.		
		- CM6 - Temporary or advance landscape should be provided	NA	
		along the temporary access roads to the Cruise Terminal until		
		such time as road D3 is open.		

Remarks	:		
^	Compliance of mitigation measure.	Х	Non-compliance of mitigation measure.
N/A	Not Applicable at this stage.	•	Non-compliance but rectified by the contractor.
N/A(1)	Not observed.		
*	Recommendation was made during site audit	#	Recommendation was made during audit and to be
	but improved/rectified by the contractor.		improved/ rectified by the contractor.

## Mitigation Measures undertaken by the Contractor for site inspections





Date:	06 June 2024			Date:	20 June 2024		
Mitigation Measures:	Provided	dom	estic	Mitigation Measures:	The	vehicles	are
	garbage	bins	for		restric	ted to maxi	mum
	waste stor	age.			speed	of 8 km per	hour
					inside	the site.	





Date:	27 June 2024 Date:		27 June 2024
Mitigation Measures:	The construction materials were provided and manufactured under the control of quality and environmental management systems certified systems.	Mitigation Measures:	The portable toilets were provided in the construction site.

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

### **Reporting Month: June 2024**

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/01	No	No	No

# Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions up to reporting month

Contract N	0.	Record of Complaint	<b>Record of Warning</b>	Notification of Summons and Successful Prosecutions
ED/2018/01	l	17	0	0

Complaint	: Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
C0001	A dust complaint was referred from the Contractor on 21 Oct 2020 regarding a public complaint via 1823 hotline (Case no. 3-6518939602) on 20 Oct 2020.	<ol> <li>The water spraying system was not operated in proper time.</li> <li>Stockpile was not covered properly.</li> <li>Haul road was not wetted.</li> <li>Materials transported on trucks were not provided with mechanical covers.</li> </ol>	<ul> <li><u>Investigation</u></li> <li>Based on the information provided by the Contractor on 22 Oct 2020, the water sprinklers system was sprayed every 15 minutes with 70 seconds interval automatically. For the area that water sprinklers system was not covered, manual water spraying was provided. Dump trucks were covered with mechanical cover after loading the materials. The stockpile area was covered by the tarpaulin during night time.</li> <li>Based on the monitoring results on 16 Oct 2020, the 1-hour and 24-hour TSP results were below the Action Levels and Limit Levels.</li> <li>Regular site inspection was conducted by ET on 22 Oct 2020, no adverse observation against the dust impact was recorded.</li> <li><u>Action taken</u></li> <li>As per the Contractor, the water sprinkler are now adjusted to start at 8:00am and end at 6:00pm for Monday to Saturday while from 8:00am to 5:00pm on Sunday. Water spraying are set with 5-minute time interval with duration 30-60 seconds.</li> <li><u>Recommendations</u></li> <li>To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended:</li> <li>Increase the frequency and duration for automatic water spraying system.</li> <li>Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.</li> <li>Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.</li> </ul>	<ul> <li>Closed-out on 5 Nov 2020.</li> <li>No further complaint was received.</li> </ul>
C0002	A dust complaint was referred from the Contractor on 8 Sep 2021 through E-Mail regarding a complaint	Complaint of dust problem at the pavement of Muk Tai Street near Sports	<ul> <li><u>Investigation</u></li> <li>As per contractor, part of the complaint area was within the site boundary of the project.</li> <li>1. Manual water spraying was provided.</li> <li>2. The exposed surface and stockpile areas were covered by the impermeable</li> </ul>	<ul> <li>Closed-out on 4 Oct 2021.</li> <li>No further complaint was received.</li> </ul>

Complaint	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
	received by EPD (EPD ref.: K19/RE/00021205-21) on 7 Sep 2021.	Park.	<ul> <li>tarpaulin sheet.</li> <li><u>Action taken</u> The exposed surface and stockpile area was covered by the impermeable tarpaulin sheet.</li> <li><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however the contractor is recommended to implement the following measures to minimize the impact for air quality: <ol> <li>Ensure stockpiling sites should be lined with impermeable sheeting and bunded.</li> </ol> </li> <li>Stockpiles should be fully covered by impermeable sheeting at all time except during working process.</li> <li>Ensure the work fulfill the relevant statutory requirements on control of air pollution.</li> <li>Take necessary measures to minimize the environmental nuisance arising from the construction site.</li> </ul>			
C0003	A water discharge complaint was referred from the Contractor on 10 Dec 2021 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00029046-21) on 9 Dec 2021.	Complaint of muddy water being discharged into the sea of To Kwa Wan Typhoon Shelter via a DSD outfall near the roundabout of Shing Fung Road.	<ul> <li><u>Investigation</u> Joint site inspection was conducted by ER, IEC, ET and the contractor on 14 Dec 2021, no adverse observation against the water impact was recorded.</li> <li>There was no muddy water discharge to DSD outfall near the roundabout of Shing Fung Road.</li> <li>The sandbag with layers and filter were provided at the manholes.</li> <li><u>Action taken</u> <ul> <li>Sandbags and filter were used to block the manholes.</li> <li>Manholes had been adequately covered and replace the filter frequently.</li> </ul> </li> <li><u>Recommendations</u> There was no direct evidence showing that the water nuisance was caused by the contractor at the complaint area.</li> </ul>	<ul> <li>Closed-out on 5 Jan 2022.</li> <li>No further complaint was received.</li> </ul>		

Complaint	t Log for ED/2018/01				
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out l Status	
			<ul> <li>Some of muddy water generated from wheel washing might be flow to the outfall inside the site boundary, however the contractor had taken the mitigation measure by using sandbag and filter to ease the nuisance. The contractor is recommended to implement the following measures to minimize the impact for waste water:</li> <li>1. Enhance the sandbag with several layers instead of one layer only and replace the filter frequently.</li> <li>2. Modify the wheel washing area such that the muddy water will be directly flow to the pit and then waste water treatment facility.</li> <li>3. Take necessary measures to minimize the environmental nuisance arising from the construction site.</li> </ul>		
C0004	A dust complaint was received by EPD on 16 Dec 2022. Contractor received Notification of Environmental	Complaint of mud/ silt being brought out by vehicles from the project site casing mud/silt accumulation on	<ul> <li><u>Investigation</u> Regular site inspection was conducted by ET on 29 Dec 2022.</li> <li>1. As per the Contractor, mud / slit generated from nearby construction sites might be brought to Shing Fung Road roundabout.</li> <li>2. No adverse observation against the dust impact was recorded during site inspection.</li> </ul>	<ul> <li>Closed-out Jan 2023.</li> <li>No complaint received.</li> </ul>	on 13 further was
	Complaints from EPD (ref.: K19/RE/00029136-22) by E-Mail on 22 Dec 2021.	Shing Fung Road.	<ol> <li><u>Action taken</u></li> <li>Watering manually frequently.</li> <li>Haul Road surfaces were wetted by water truck.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site.</li> </ol>		
			<ul> <li><u>Recommendations</u> To minimize the impact for air quality, mitigation measures should be enhanced specially in dry seasons are recommended: <ol> <li>Increase the frequency and duration for automatic water spraying system.</li> <li>Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.</li> <li>Regular wash and clean the share haul road and roundabout in Shing Fung Road.</li> </ol></li></ul>		

	Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
			<ol> <li>Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully.</li> <li>Ensure stockpiling sites should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting at all time except during working process.</li> <li>Dusty materials transported on truck shall be covered.</li> </ol>	
C0005	A noise complaint was received by EPD on 21 Dec 2022. Contractor received Notification of Environmental Complaints from EPD	Complaint of construction noise arising from the project site near Shing Kai Road and Muk Tai Street continued to	<ul> <li><u>Investigation</u></li> <li>Regular site inspection was conducted by ET and the Contractor on 29 Dec 2022</li> <li>1. The complaint was project-related as construction noise arose from the project site near Shing Kai Road and Muk Tai Street.</li> <li>2. Status of CNPs in the work area near Shing Kai Road and Muk Tai Street were checked and all of them were valid. However, the CNPs only cover the period up to 2300.</li> </ul>	- After six months of receiving the complaint, there was no
	(EPD ref.:	01:30 am on 21	Construction Noise Permit Valid Form Valid Till	further action
	K19/RE/00029422-22)	Dec 2022.	GW-RE1297-22 10 Dec 2022 08 Jun 2023	from EPD.
	on 22 Dec 2022.		GW-RE1299-22 17 Dec 2022 15 Jun 2023	- Closed-out on
	IEC received the notification on 22 Dec 2022 from EPD and forwarded the notification to CEDD, Contractor, ER and ET on same day.		<ul> <li><u>Actions taken</u> <ol> <li>Refresher training about CNP was provided to the labour on 22 Dec 2022.</li> <li>No construction activities were allowed in the restricted hours for those areas without valid CNP.</li> </ol> </li> <li><u>Recommendations</u> <ol> <li>minimize the impact of construction noise, the following mitigation measures are recommended:             <ol> <li>Provide regular training about CNP and other environmental issues to staff.</li> <li>Regularly check the status of ALL CNP and other environmental permits.</li> </ol> </li> </ol></li></ul>	29 Jun 2024.
C0006	A dust complaint was	Complaint of	2. Regularly check the status of ALL CNP and other environmental permits. Investigation	- Closed-out on 16
00000	received by EPD on 6	construction	Site inspections were conducted by ET on 26 Jan 2023 and joint site inspection	- Closed-out on TC Mar 2023.

Complaint	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
	Dec 2022. Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00027862-22) by E-Mail on 7 Dec 2022. IEC received the notification on 19 Jan 2023 and forwarded the notification to CEDD, ER and ET on same day.	dust arising from construction sites along Shing Fung Road.	<ul> <li>was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.</li> <li>The concerned area (roundabout) is the common road for public vehicles. In addition, construction vehicles from several nearby construction sites also use the concerned road, especially a lots of dump trucks.</li> <li>Construction vehicles from Contractor (POC) project site are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li>Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission.</li> <li>No construction works was observed on 26 Jan 2023 and no adverse observation against the dust impact were found during the site inspection on both dates.</li> <li><u>Action taken</u></li> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site directly through Shing Fung Road exit.</li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li><u>Recommendations</u></li> <li>There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</li> <li>Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted manually in regular basis.</li> <li>Regular wash the share haul road and roundabout in Shing Fung Road.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to</li> </ul>			

Complaint	t Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
			<ul><li>gully.</li><li>4. Dusty materials transported on truck shall be covered.</li></ul>	
C0007	A dust complaint was received by EPD on 19 Jan 2023. Contractor (POC) received Notification of Environmental Complaints from EPD (ref.: K19/RE/00001988-23) by E-Mail on 2 Feb 2023. IEC received the notification on 2 Feb 2023 and forwarded the notification to CEDD, ER and ET on the same day.	Complaint of dusty environment at the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction sites nearby.	<ul> <li>Investigation Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 8 Feb 2023.         <ol> <li>The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022.</li> <li>Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>Worker of sub-contractor from Contractor (POC) wetted the part of the concerned road surface during the site inspection on 8 Feb 2023 to suppress dust emission.</li> <li>No adverse observation against the dust impact were found during the site inspection along the new road.</li> </ol> </li> <li>Action taken         <ol> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> </ol> </li> </ul>	- Closed-out on 16 Mar 2023.

	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ol> <li>the construction site should be wetted by water trucks or manually in regular basis.</li> <li>Regular wash the share haul road in Shing Fung Road.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site. The muddy water after the wheel washing should be directed to sedimentation tank and wastewater treatment facility before discharging to gully.</li> <li>Dusty materials transported on truck shall be covered.</li> </ol>			
C0008	A dust complaint was received by EPD on 13 Feb 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00003909-23) by E-Mail on 17 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.	Complaint of silt / mud accumulation on the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction sites nearby.	<ul> <li>Investigation Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 23 Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023. <ol> <li>The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.</li> <li>Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>As per Contractor (POC), EPD conducted site visit on 16 Feb 2023.</li> <li>No adverse observation against the dust / muddy water impact were found during the site inspection on both dates.</li> </ol> </li> <li>Action taken <ol> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> </ol> </li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> </ul>	- Closed-out on 2 Mar 2023.		

Complaint	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ol> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site.</li> <li>As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:         <ul> <li>Date</li> <li>Road Washing by</li> <li>8 Mar 2023</li> <li>Sweeper truck with water spraying truck</li> <li>9 Mar 2023</li> <li>Sweeper truck with water spraying truck</li> <li>14 Mar 2023</li> <li>Sweeper truck with water spraying truck</li> </ul> </li> <li>6. During the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources.</li> <li>Recommendations</li> <li>There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:         <ol> <li>Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.</li> <li>Regular wash the share haul road in Shing Fung Road.</li> <li>Dusty materials transported on truck shall be covered.</li> </ol> </li> </ol>			
C0009	A dust complaint was received by EPD on 15 Feb 2023. Contractor (POC) received the Notification of Environmental	Complaint of mud / silt being brought out by vehicles from construction site at Shing Fung Road roundabout	<ul> <li><u>Investigation</u></li> <li>Joint site inspection was conducted by Contractor (POC), ER, ET and IEC on 23</li> <li>Feb 2023 and regular site inspection was conducted by Contractor (POC), ER and ET on 2 Mar 2023.</li> <li>1. The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.</li> </ul>	- Closed-out on 29 Mar 2023.		

Complaint	Log for ED/2018/01				
Complain t Ref. No.	Date of Complaint	Description of Complaint		Investigation / Actions taken / Recommendations	Close-Out Date / Status
	Complaints from EPD (ref.: K19/RE/00004280-23) by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.	(near Lamp Post DF4831) causing mud / silt accumulation along Shing Fung Road.	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Fung Road directly with barriers blocked since 21 Jan 2023. Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.	
			1. 2. 3. 4. 5.	tion takenConstruction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.Wheel washing for the trucks and vehicles before leaving the project site.As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:DateRoad Washing by 8 Mar 2023Sweeper truck with water spraying truck9 Mar 2023Sweeper truck with water spraying truck14 Mar 2023Sweeper truck with water spraying truck22 Mar 2023Sweeper truck with water spraying truckDuring the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources.	
				ecommendations here was no direct evidence showing that the dust nuisance was caused by the	

Complaint	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ul> <li>contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality:</li> <li>1. Main haul road and the area that water sprinklers system was not covered in the construction site should be wetted by water trucks or manually in regular basis.</li> <li>2. Regular wash the share haul road in Shing Fung Road.</li> <li>3. Dusty materials transported on truck shall be covered.</li> </ul>			
C0010	A dust and muddy water complaint was received by Hotline 1823 on 9 Mar 2023. ER received the transfer from the Hotline 1823 on 9 Mar 2023 and forwarded the E-mail to Contractor (POC), ET and IEC on same day.	Complaint of dusty environment at the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road roundabout. Worker wetted the road surface and might cause mud / silt problem.	<ul> <li>Investigation Joint site inspection was conducted by Contractor (POC), ER, and ET on 16 Mar 2023 and 23 Mar 2023.</li> <li>The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust nuisance.</li> <li>Construction vehicles from POC are not allowed leaving the site to Shing Fung Road directly with barriers blocked since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>The sandbags were provided around the manholes.</li> <li>No adverse observation against the dust / muddy water impact were found during the site inspection on both dates.</li> <li>Action taken <ol> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> </ol> </li> <li>Construction vehicles from Contractor (POC) are not allowed leaving the site to Shing Fung Road directly as the exit was blocked by barriers since 21 Jan 2023.</li> <li>Contractor (POC) has restricted the construction vehicles from nearby construction site (Gammon site) using this site entrance for any construction activities since 4 Feb 2023.</li> <li>Haul Road surfaces were wetted manually and washed the dusty water barrier regularly.</li> <li>Wheel washing for the trucks and vehicles before leaving the project site.</li> </ul>	- Closed-out on 6 Apr 2023.		

Complaint	Complaint Log for ED/2018/01					
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status		
			<ul> <li>5. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:</li> <li>Date Road Washing by <ul> <li>8 Mar 2023 Sweeper truck with water spraying truck</li> <li>9 Mar 2023 Sweeper truck with water spraying truck</li> <li>14 Mar 2023 Sweeper truck with water spraying truck</li> <li>22 Mar 2023 Sweeper truck with water spraying truck</li> </ul> </li> <li>6. The sandbags were provided around the manholes.</li> <li>7. During the two site inspections, mitigation measures implemented by the Contractor (POC) were found properly based on existing site condition and resources.</li> <li>Recommendations There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air and water quality: <ol> <li>Dusty materials transported on truck shall be covered.</li> <li>Enhance the sandbags with several layers of filters and replace the filter frequently.</li> </ol> </li> </ul>			
C0011	A muddy water complaint was received by EPD on 9 Mar 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00004280-23)	Complaint of water being sprayed onto vehicles passing by and mud / silt being washed into roadside gully near Shing Fung Road roundabout.	<ul> <li><u>Investigation</u></li> <li>Joint site inspection was conducted by Contractor (POC), ER and ET on 23 Mar 2023.</li> <li>1. The concerned area (new road connecting Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 Dec 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / mud / silt nuisance.</li> <li>2. The sandbags were provided around the manholes.</li> <li>3. No adverse observation against the muddy water impact were found during the site inspection on both dates.</li> </ul>	- Closed-out on 6 Apr 2023.		

Complaint	t Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
	by E-Mail on 22 Feb 2023 and forwarded the E-mail to ER, ET and IEC on same day.		Action taken         1. As per Contractor (POC), no manually road surfaces watering on Shing Fung Road after receiving complaint (16 Mar 2023).         2. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once a week as follow:         Date       Road Washing by         8 Mar 2023       Sweeper truck with water spraying truck         9 Mar 2023       Sweeper truck with water spraying truck         14 Mar 2023       Sweeper truck with water spraying truck         22 Mar 2023       Sweeper truck with water spraying truck         3. The sandbags were provided around the manholes.         Recommendations         There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air and water quality:         1. Enhance the sandbags with several layers of filters and replace the filter frequently.	
C0012	A dust complaint was received by EPD on 31 May 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00013488-23) by E-Mail on 6 June	Complaint of silt / mud accumulation on the new road connecting Shing Fung Road and Shing Kai Road caused by vehicles from construction site nearby.	open for public vehicles (not only project related vehicles) since 31 December 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / silt nuisance.	- Closed-out on 19 June 2023.

Complaint	Log for ED/2018/01				
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Da Status	ate /
	2023 and forwarded the E-mail to ER, ET and IEC on same day.		<ul> <li>4. No adverse observation against the dust impact were found during the site inspection.</li> <li><u>Action taken</u> <ol> <li>As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted twice a week start from 11 May 2023.</li> </ol> </li> <li><u>Date Road Washing by</u> <ol> <li>May 2023 Sweeper truck with water spraying truck</li> <li>June 2023 Sweeper truck with water spraying truck</li> <li>Wheel washing for the vehicles before leaving the construction site.</li> </ol> </li> <li><u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for air quality: <ol> <li>Regular wash the share haul road in Shing Fung Road and Shing Kai Road.</li> <li>Dusty materials transported on truck should be covered.</li> </ol> </li> </ul>		
C0013	A water complaint was received by EPD on 19 June 2023. Contractor (POC) received the Notification of Environmental	- Complaint of muddy water being discharged into Kai Tak Approach Channel on 18 Jun	<ul> <li><u>Investigation</u></li> <li>Joint site inspection was conducted by Contractor (POC), ER and ET on 6 Jul 2023.</li> <li>1. As per Mr. Tony Tang from POC, the concerned area was the section of Shing Fung Road at the nearby channel.</li> <li>2. Heavy raining was recorded on 18 Jun 2023. The recorded rainfall was 35.8mm (sourced from manned weather station of Hong Kong Observatory at <u>https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&amp;m=6</u>). The</li> </ul>	- Closed-out Aug 2023.	on 2

Complaint	t Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
	Complaints from EPD (ref.: K19/RE/00014944-23) by E-Mail on 29 June 2023 and forwarded the E-mail to ER, ET and IEC on 4 July 2023.	2023. - Complaint of construction work being conducted on the Sunday of 18 Jun 2023.	<ul> <li>implication of heavy rainfall storm runoff might wash across the exposed soil surfaces which was direct muddy water discharge. This is the possible source of water nuisance.</li> <li>3. As per Mr. Tony Tang from POC, no construction work was conducted on 18 Jun 2023. Based on the attendance record, 6 employees including 4 watchman, labourer and driver, were on site on 18 Jun 2023 and they were not involved in the construction work. In the joint site inspection, no construction work was conducted on the nearby channel.</li> <li>4. No adverse observation against the muddy water impact were found during the site inspection on 14 and 20 June 2023, and 6 July 2023. The sedimentation tank and wastewater treatment plant are operating efficiently during the site inspection.</li> <li>Action taken <ol> <li>The ditch is maintained regularly and excavated deeper by workers.</li> <li>Pumps are placed at the ditch to prevent flooding and overflow.</li> <li>Enhanced training for site workers to prevent flushing during heavy rain by placing pumps in the ditch to prevent flooding and overflow during periods of heavy rain during Tool- Box-Talk training.</li> </ol> </li> <li> Recommendations There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for water quality: <ol> <li>Regular cleaning and maintenance drainage systems at the nearby Kai Tak Approach Channel.</li> </ol> </li> </ul>	

Complaint	: Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
C0014	A polluting discharge complaint was received by EPD on 16 October 2023. Contractor (POC) received the Notification of Environmental Complaints from EPD (ref.: K19/RE/00024581-23 ) by E-Mail on 19 October 2023 and forwarded the E-mail to ER, ET and IEC on 21 October 2023.	- Complaint of polluting discharge from the construction site of Stage 4 Infrastructur e at the Former Runway and South Apron, Kowloon City ("illegal discharge from kai tak 6577 construction site the main contractor should be hip hing)	<ul> <li><u>Investigation</u> Joint site inspection was conducted by Contractor (POC), ER and ET on 26 October 2023.         <ol> <li>The concerned area is near at Former Runway and South Apron, Kowloon City. Those are the possible sources should be illegal discharge from Kai Tak 6577 construction site which the main contractor should be hip hing. The possible source of polluting discharge does not come from the Contractor (POC).</li> <li>No adverse observation against the muddy water impact were found during the site inspection on dates. No surface runoff is observed, and the sedimentation tank and wastewater treatment plant were implemented normally.</li> </ol> </li> <li>Action taken         <ol> <li>As per Contractor (POC), no wastewater generated at concerned area and ensure fulfil the conditions stipulated in the valid WPCO licence after receiving complaint (16 October 2023). The effluent discharge has been implemented properly.</li> <li>The silt curtain has been installed around the construction activities at the concerned area. (referring to Photo 2) The sedimentation tank and wastewater treatment has been implemented properly.</li> <li>The pump has been installed and collected sewage at the channel which can minimize water quality impacts and prevent overload the foul sewage system. (referring to Photo 3) The channel and ditches have been clear after receiving complaint.         </li> </ol> </li> <li>Recommendations         There was no direct evidence showing that the muddy water nuisance was caused by the contractor at the complaint area, however Contractor (POC) is recommended to implement the following measures to minimize the impact for water quality:     </li> </ul>	- Closed-out on 15 November 2023.

Complaint	Complaint Log for ED/2018/01								
Complain t Ref. No.	Date of Complaint	Description of Complaint	Close-Out Date / Status						
			<ol> <li>The silt removal facilities, channels and manholes should be maintained regularly.</li> <li>The silt curtain and equipment should be properly maintained.</li> </ol>						

Complaint t Ref. No.     Date of Complaint (Complaint)     Description of Complaint     Investigation / Actions taken / Recommendations     Close-Out Date / Status       C0015     A dust complaint was received by EPD on 12 Contractor (POC), received the Notification of Environmental Complaints from EPD (ref.:     Investigation of shing Fung Road.     Investigation Joint site inspection was conducted by Contractor (POC), ER, and ET on 21 December 2023.     - 17 January 2024       1. As per the email clarified by Mr. Tony Tang from POC on 20 December 2023, the concerned area (section of Shing Fung Road) was the junction of Road D3 and gate 2A& 2B.     - 17 January 2024       2. The new road connecting Shing Fung Road & Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 December 2023.     - 17 Januare.       by E-Mail to ER, ET and IEC on 20 December 2023.     - 18 Function.     - 3. 3. As per Mr. Tony Tang from POC, recycled water was used in wheel washing machine near the entrance of Gammon site. The washing facilities and regular road watering are implemented.       4. No adverse observation against the dust impact were found during the site inspection.     - 3. 3. As per Mr. Tony Tang from POC, recycled water was used in wheel washing machine near the entrance of Gammon site. The washing facilities and regular road watering are implemented.       4. No adverse observation against the dust impact were found during the site inspection. The washing facilities and dust control measures are implemented properly. Action taken       1. As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was
<ul> <li>received by IPD on 12 December 2023.</li> <li>construction Contractor (POC)</li> <li>received the Notification of Environmental Complaints from EPD (ref:</li> <li>K19/RE/00030287-23)</li> <li>by E-Mail on 19 December 2023.</li> <li>by E-Mail on 19 December 2023.</li> <li>construction forwarded the E-mail to ER, ET and IEC on 20 December 2023.</li> <li>construction of Soal D2 and gate 2A&amp; 2B.</li> <li>concerned rea (section of Shing Fung Road &amp; Shing Kai Road) has been open for public vehicles (not only project related vehicles) since 31 December 2022. Vehicles from nearby construction sites also used the concerned road. Those are the possible sources of dust / silt nuisance. The non-project of stockpiles is founded near the concerned road during the site inspection.</li> <li>3. As per Mr. Tony Tang from POC, recycled water was used in wheel washing machine near the entrance of Gammon site. The washing facilities and regular road watering are implemented.</li> <li>No adverse observation against the dust impact were found during the site inspection. The washing facilities and dust control measures are implemented properly. <u>Action taken</u></li> <li>As per instruction from CEDD and AECOM, road washing along the new road (connecting Shing Fung Road and Shing Kai Road) and Shing Fung Road by water truck was conducted once per week in December 2023.</li> </ul>

Complaint	Complaint Log for ED/2018/01										
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investiga	Investigation / Actions taken / Recommendations							
			07 December 2023	Sweeper truck with water spraying truck							
			16 December 2023	Sweeper truck with water spraying truck							
			21 December 2023	Sweeper truck with water spraying truck							
			29 December 2023	Sweeper truck with water spraying truck							
			2. Wheel washing	g for the vehicles before leaving the construction site.							
			Recommendations								
			There was no direct evid	dence showing that the dust nuisance was caused by the							
			contractor at the compla	int area, however Contractor (POC) is recommended to							
			implement the following	measures to minimize the impact for air quality:							
			1. Regular wash the sha	are haul road in Shing Fung Road and Shing Kai Road.							
			2. Dusty materials trans								

Complaint Log for ED/2018/01											
Complain t Ref. No.	Date of Complaint	Description of Complaint		Investigation / Actions taken / Recommendations						Close-Out Date / Status	
C0016	A dust complaint was received by Hotline 1823 on 20 May 2024. ER (AECOM) and Contractor (POC) received the transferred from Hotline 1823 (Case No. 3-8226038234) on 20 May 2024 and forwarded the E-mail to ET, and IEC on same day.	- The dust emission generated from a excavator near EVA No. 10 which affecting the surroundin g residents. The complaina nt also expressed doubt the effectivene ss of implement ation of	Join 23 N	stockpi referrin nuisand 2. As per 2024, t EVA N mitigat 3. The n 580.23 4. As per starting location emission materia 5. Based 24-hou	omplaint lling wor ng to Atta ce. the emai he conce No. 10. T the the dust earest su m (location Mr. Tom g from 2 n (Near I on no mai als site ac on the n	is not rks from achment 2 il reply by rned area The POC t nuisance arrounding ons referriny Tang fi 2 May 2 EVA No. atter there tivities. (In nonitoring sults were	directly nearby c ) Those ar / Mr. Tony (section of proposed g resident ng to Attac rom POC, 024 to sp 10) within is any lo ocations reg	project-re constructio e the possi 7 Tang from f Shing Fu to imple to the	lated sind n sites. ( ible source m POC or ing Road) ment mea concerned l provide t at the c ur to supp unloading Attachmer 2024, 1-	ce C&D (locations es of dust a 21 May was near sures for area is a worker concerned oress dust of dusty at 3) hour and	- Closed-out on 04 June 2024
		environme		AM3 AM4(A) AM7							
		ntal manageme nt system.			1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
		nt system.		Measured result	44 -48	42	56-63	/	53 - 57	54	
				$(\mu g/m^3)$							

	Log for ED/2018/01	-	-								
Complain t Ref. No.	Date of Complaint	Description of Complaint		Investigation / Actions taken / Recommendations							Close-Out Date / Status
			Ac	ion	297	182	326	187	315	181	
			Le	el							
			(με	/m <sup>3</sup> )							
			Lir	nit	500	260	500	260	500	260	
			Le	el							
			(με	/m <sup>3</sup> )							
			6. The	effec	tiveness	of the	environ	imental i	managemer	nt system	
			imp	lemente	ed has bee	en review	red.				
			7. No a	dverse o	observatio	n against 1	the dust im	pact were f	found during	the site	
			insp	ection. 7	The dust c	control m	easures ar	e impleme	ented prope	rly.	
				U	o Attachm	nent 4)					
			Action t								
			C	•					ment (PME)	to ensure	
			no c	ark smo	ke emissio	on. (refer t	o Attachm	ent 3).			
			2. Arra	nge to c	over the s	tockpile w	ith tarpaul	in sheet to	prevent dust	emission.	
			(refe	r to Atta	achment 3]	)					
			3. Arra	nge reso	ources to s	spray wate	er during e	xcavator lo	ading and u	nloading of	
			dust	y mater	ial which	have inc	luding fill	material a	and sub-bas	e. (refer to	
			Atta	chment	3)						
			Recomm	endatio	ns						
			There w	as no di	rect evide	nce show:	ing that the	e dust nuisa	ance was ca	used by the	
				here was no direct evidence showing that the dust nuisance was caused by the ontractor at the complaint area, however Contractor (POC) is recommended to							
					-			,	t for air qual		

Complaint	: Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
			<ol> <li>The share haul road in Shing Fung Road should be washed regularly.</li> <li>Dust mitigation control should be done at the work site 8 times per day.</li> <li>Stockpiling sites should be lined with impermeable sheeting and bunded.</li> <li>Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.</li> </ol>	

Complaint	: Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
C0017	A waste management complaint was received by Hotline 1823 on25 May 2024. The public complaint is received via 1823 (Case No.: 3-8234938050) on 25 May 2024 and forwarded by CEDD on 27 May 2024, and forwarded to ER, Contractor, ET and IEC.	- Rodent problem at the junction of Shing Kai Road & Shing Fung Road	<ul> <li>Investigation Joint site inspection was conducted by Contractor (POC), ER, IEC and ET on 30 May 2024.         <ol> <li>Accumulation of waste was found in the concerned area, the grade road                 (Shing Kai Road to NSR) and the junction of Road D3 (Shing Kai Road                 Junction). (refer to Photo Record 7 of Attachment 3)</li> <li>No trace of rats was found during inspection but flies were present.                 (refer to Photo Record 6 of Attachment 3)</li> <li>Waste management measures were not implemented properly. There                 were no sufficient waste disposal points and regular dispose of waste at                 the concerned area (refer to Photo Record 8 of Attachment 3).</li> <li>The complaint was project-related as improper disposal of waste could                 lead to occurrence of rats.</li> </ol></li></ul> <li>Action taken         <ul> <li>Poisonous rat bait was placed within the site boundary (refer to                 Photo Record 2,3,4 of Attachment 3).</li> <li>Workers received regular briefing about proper waste                 management (refer to Photo Record 5 of Attachment 3).</li> <li>The general waste was collected and removed after site inspection                 on 30 May 2024. (refer to Photo Record 9 and 10 of Attachment 3).</li> </ul> </li>	- Closed-out on 04 June 2024

Complaint	Log for ED/2018/01			
Complain t Ref. No.	Date of Complaint	Description of Complaint	Investigation / Actions taken / Recommendations	Close-Out Date / Status
	Date of Complaint		<ul> <li>Investigation / Actions taken / Recommendations</li> <li>implement the following measures to minimize the impact of waste accumulation</li> <li>1. Multiple waste disposal points should be set up for proper waste storage.</li> <li>2. Frequency of waste cleaning and collection should be increased to prevent waste accumulation.</li> <li>3. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle.</li> </ul>	