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81st CONSOLIDATED MONTHLY EM&A REPORT

July 2023

Client	:	Civil Engineering and Development Department, HKSAR
EP No.	:	EP-337/2009 – New Distributor Roads Serving the Planned Kai Tak Development Area
Contract No.	:	KLN/2016/05 – Independent Environmental Checker for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area
Report No.	:	0087/16/ED/1199

Prepared by	:	Wingo So
Reviewed by	:	Cyrus Lai
Certified by	:	Colin Yung

Colin Yung Independent Environmental Checker Fugro Technical Services Limited

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EXECUTIVE SUMMARY

- i. This is the 81st Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 July and 31 July 2023.
- ii. The construction activities undertaken in the reporting month are summarized as follow:

Contract No. KL/2014/01:

- DCS modification works at Shing Fung Road;
- Omega Joint Installation at Underpass;
- Remedial works for wall & ceiling finishes at Underpass;
- Minor E&M works;
- Deck movement & drainage chambers joint rectification
- Planting works at roundabout & footpath;
- Drainage construction adj. to DCS louvres and DCS cover modification works;
- TTA implementation for noise barrier cleaning works at Shing Fung Road and;
- Deck cladding rectification and modification.

Contract No. KL/2015/02:

- Reinstatement of PERE central Divider
- Reinstatement of PERE carriageway pavement at SKLRP
- Installation of Subway ST2 ELSP sheet pile

Contract No. ED/2018/05:

- Erection of falseworks and working platform for decking of Elevated Walkway LW-02
- RC Construction for Decking of Elevated Walkway LW-02
- RC Construction of LW02 Lift and Staircase
- ELS modification and backfilling works for retrieving shaft at Sa Po Road
- SB-01 tunnel construction works by RTBM
- Road and drain construction works for Road L16
- Construction works for DCS
- Road and drain construction works at Olympic Avenue
- RC construction for Subway KS10 Lift and Staircase
- Renovation works for existing subways KS9, KS32 and KS10
- Construction of Underpinning of S14
- GI and Grouting works for Slip Road S14
- Construction of Retaining Wall Type 1 for S14

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. KL/2014/01, Contract No. KL/2015/02 and Contract No. ED/2018/05 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**:

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

Major Impact Prediction	Control Measures			
Contract No. KL/2	014/01:			
Air quality impact (dust)	• Frequent watering or covering stockpiles with tarpaulin or similar means; and			
Water quality impact (surface run-off)	 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 Provision of measures to prevent discharge into the stream. 			
Noise Impact	Regular maintenance of machines.			
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 			
Contract No. KL/2	015/02:			
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 run-off)	 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 			
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; 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 			
Contract No. ED/2	018/05:			
Air Quality, Construction Noise, Water	 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, 			

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Major Impact Prediction	Control Measures
Quality, Chemical and Waste Management, Landscape and Visual	 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 Report.

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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 81st Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 July and 31 July 2023.

Party	Position	Name	Telephone	Fax/ E-mail	
Contract No. KL/2014/0	1:				
Project Proponent (CEDD)	Engineer	Ms. KY Chan	3579 2458	2739 0076	
Engineer's Representative (AECOM)	SRE	Mr. Darren Lee	3911 4207	3911 4288	
IEC (KSMC)	IEC	Mr. Happy Lee	2618 2166	2120 7752	
	ET Leader	Mr. K.S Lee	2151 2091		
ET (Cinotech)	Audit Team Leader	Ms. Betty Choi	2151 2072	3107 1388	
Main Contractor (CCJV)	EO	Mr. Eric So	6013 8048	2960 1399	
Contract No. KL/2015/0	2:				
Project Proponent (CEDD)	Senior Engineer	Mr. Ricky Chan	2116 3753	2116 0714	
Engineer's Representative (AECOM)	SRE	Mr. Vincent Lee	2798 0771	2210 6110	
IEC (FTS)	IEC	Mr. Colin Yung	3565 4114	2450 8032	
	ET Leader	Mr. K.S Lee 2151 2091			
ET (Cinotech)	Audit Team Leader	Ms. Betty Choy	2151 2072	3107 1388	
Main Contractor	Site Agent	Mr. W. M. Chen	9736 4284	2398 8301	

1.2 Summary of relevant Contract Information of Key Personnel

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Party Position		Name	Telephone	Fax/ E-mail
(PWHJV)				
Contract No. ED/2018/0	5:			
Project Proponent (CEDD) Permit Holder Mr. I		Mr. Kelvin Ng	3842 7086	kwyng@cedd.gov.hk
Engineer's Representative (AECOM)	Supervisor's Delegate	Mr. Vincent Lee	2798 0771	sre2@ktd-stage5.com
IEC (Acuity)	IEC	Mr. Kevin Li	9779 2247	kevin.li@aurecongroup. com
ET (Ka Shing)	ET Leader	Mr. Pang Chan	6082 2973	stage5b@ka-shing.net
Main Contractor (BK- STEC)	Contractor's Representative	Mr. Rex Lau	6282 5154	rex.lau@buildking.hk

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/2014/01:

- DCS modification works at Shing Fung Road;
- Omega Joint Installation at Underpass;
- Remedial works for wall & ceiling finishes at Underpass;
- Minor E&M works;
- Deck movement & drainage chambers joint rectification
- Planting works at roundabout & footpath;
- Drainage construction adj. to DCS louvres and DCS cover modification works;
- TTA implementation for noise barrier cleaning works at Shing Fung Road and;
- Deck cladding rectification and modification.

Contract No. KL/2015/02:

- Reinstatement of PERE central Divider
- Reinstatement of PERE carriageway pavement at SKLRP
- Installation of Subway ST2 ELSP sheet pile

Contract No. ED/2018/05:

- Erection of falseworks and working platform for decking of Elevated Walkway LW-02
- RC Construction for Decking of Elevated Walkway LW-02
- RC Construction of LW02 Lift and Staircase
- ELS modification and backfilling works for retrieving shaft at Sa Po Road
- SB-01 tunnel construction works by RTBM
- Road and drain construction works for Road L16
- Construction works for DCS
- Road and drain construction works at Olympic Avenue
- RC construction for Subway KS10 Lift and Staircase
- Renovation works for existing subways KS9, KS32 and KS10
- Construction of Underpinning of S14
- GI and Grouting works for Slip Road S14
- Construction of Retaining Wall Type 1 for S14

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

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

Major Environmental Impact	Control Measures
Contract No. KL/2014/01:	<u></u>
Noise, dust impact, water quality and waste generation	 On-site waste sorting and implementation of trip ticket system; Use of quiet plant and well-maintained construction plant; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.
Contract No. KL/2015/02:	
Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles by impervious materials; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier to enclose the noisy plant; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide drip trays with adequate capacity and well maintained to chemicals Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.
Contract No. ED/2019/05	
Contract No. ED/2018/05: 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 Report.

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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.

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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-m and Thou TSP Monitoring Results						
Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m ³)	Limit Level (µg/ m ³)	
Contract No.	KL/2014/01:					
N.A (No air qu	uality monitoring is re	quired for the Proje	ect)			
Contract No.	KL/2015/02:					
1-hr TSP	AM2	37.2	19.0 - 66.0	346	500	
24-hr TSP	AM2(A)	44.3	20.9 – 61.6	157	260	
Contract No. ED/2018/05:						
	AM2(A)	51	21 – 98	175	260	
24-hr TSP	AM3	61	40 – 97	172	260	
	AM2(A)	55	30 – 105	302	500	
1-hr TSP	AM3	59	35 – 98	301	500	

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

- 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.

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Table 2.2 Summary of Noise Impact Monitoring Results

Monitoring Stations Construction Noise Level Leq (30min) dB(A) (Range)		Action Level	Limit Level dB (A)
Contract No. KL/2014/01:			
(No Construction noise m	N.A onitoring is required for the Project.)		NA
Contract No. KL/2015/02:	When one		
M3(A)	58.1 – 74.1 #	documented	75
M4	72.3 – 74.1 #	complaint is received.	70*
M5(C)	M5(C) 75.3 – 77.3 #		75
Contract No. ED/2018/05:			
M4(A)	70.5 – 73.6		75
M5(A)	72.8 – 73.3		75

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

([#]) Measured noise level ≦ 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.

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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.

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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 Summary of Complaints, Notification of Summons and Prosecution

Event	No. of Event This Month	Remark
Contract No. KL/2014/01:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. KL/2015/02:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. ED/2018/05:		
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.

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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.

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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/2014/01:

- · Remedial works for wall & ceiling finishes at Underpass;
- Minor E&M works;
- Railing construction adj. to DCS covers & Re-instatement works at footpath;
- · Deck cladding rectification and modification;
- Drainage construction adj. to DCS louvres and DCS cover modification works;
- TTA implementation for noise barrier cleaning works at Shing Fung Road, and
- TTA implementation for minor works at Wang Chiu Road / Kai Cheung Road.

Contract No. KL/2015/02:

- Reinstatement of SKLRP pedestrian footway;
- Reinstatement work of planter under bridge K72 and Bridge K73 parapet wall;
- Installation work of subway ST2 ELS strut and wailing;
- Site formation work of pedestrian footway between PERE and Road D1.

Contract No. ED/2018/05:

- Erect falsework and working platform for Decking of Elevated Walkway LW-02
- RC Construction for Decking of Elevated Walkway LW-02
- RC construction of LW02 lift and staircase
- RTBM and Gantry Crane Dismantle
- Road and drain construction works of Road L16, Commercial Street and Road D1
- Construction of DCS
- · Road and drain construction works at Olympic Avenue
- Renovation works for Subway KS10 Lift and Staircase
- Renovation works for existing Subways KS9, KS32 and KS10
- Construction of Retaining Wall Type 1 for S14
- Construction of Pile Cap for S14
- Construction of Underpinning of S14
- Construction works for SMH404 and SMH505
- 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 Impact Prediction	Control Measures		
Contract No. KL/2	014/01:		
Air quality impact (dust)	• Frequent watering or covering stockpiles with tarpaulin or similar means; and		
Water quality impact (surface run-off)	 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 Provision of measures to prevent discharge into the stream. 		
Noise Impact	Regular maintenance of machines.		
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 		

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Major Impact Prediction	Control Measures				
Contract No. KL/20	Contract No. KL/2015/02:				
Air quality impact (dust)	(dust) maintained wet; and Watering of any earth moving activities. 				
Water quality impact (surface run-off)	 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 				
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; 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	 Avoided oil leakage from PME Provided drip tray with adequate capacity and well maintained to chemical 				
Management	and oil containers				
Contract No. ED/2	018/05:				
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 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 Report. 				

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6.2 Monitoring Schedules for the Next Three Months

6.2.1 The tentative schedules for environmental monitoring in the coming three months 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. KL/2014/01, Contract No. KL/2015/02 and Contract No. ED/2018/05 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**.

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Appendix A

Monthly EM&A Report For Contract No. KL/2014/01 Kai Tak Development - Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

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Civil Engineering and Development Department

EP-337/2009 & EP-445/2013/B

Contract No. KL/2014/01

Kai Tak Development – Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

Monthly EM&A Report

July 2023

(Version 1.0)

Approved 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

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Our ref: 7-8-2023

7-8-2023

By email: fanny.lau@aecom-ktd.com and By hand

Supervising Officer Representative Aecom Asia Co Ltd. 8/F Grand Central Plaza Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T. Hong Kong (Attn: Ms. Fanny Lau)

Dear Ms. Lau,

Re: Contract No. KL/2014/01 (Environmental Permit Nos. EP-337/2009 and EP-445/2013/B) Kai Tak Development -- Stage 2 Infrastructure Works for Developments at Southern Part of the Former Runway Monthly EM&A report for July 2023 v1.0

Reference is made to the Environmental Team's submission of the Draft Monthly EM&A Report (July 2023 v1.0) provided to Independent Environmental Checker (IEC) via an email on 2-8-2023 for review and comment.

Please be informed that IEC has no adverse comment on the captioned submission. IEC hereby verifies the captioned submission in accordance with Specific Condition 2.2 of the Environmental Permit No. 337/2009 and 445/2013/B.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

For and on behalf of Ka Shing Management Consultant Limited

Lee Independent Environmental Checker

c.c.	CEDD	Ms. CHAN	(By email: kychan@cedd.gov.hk)
	AECOM	Mr. Darren Lee	(By email: Darren.Lee@aecom-ktd.com)
	CEC-CCC	Mr. Eric Fong	(By email: eric-cs-fong@continental-engineering.com)
	Cinotech	Mr. K.S Lee	(By email: ks.lee@cinotech.com.hk)

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EXECUTIVE SUMMARY

Introduction

- This is the 88th Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2014/01 - Kai Tak Development – Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway" (Hereafter referred to as "the Project"). This contract work comprises two Schedule 2 designated projects (DP), namely the new distributor road D4 (part) and roads D3A & D4A serving the planned KTD. The DPs are part of the designated projects under Environmental Permits (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") and EP-445/2013/B ("Kai Tak Development – Roads D3A & D4A") respectively. This report documents the findings of EM&A Works conducted in July 2023.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project while construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3. The major site activities undertaken in the reporting month included:
 - DCS modification works at Shing Fung Road;
 - Omega Joint Installation at Underpass;
 - Remedial works for wall & ceiling finishes at Underpass;
 - Minor E&M works;
 - Deck movement & drainage chambers joint rectification
 - Planting works at roundabout & footpath;
 - Drainage construction adj. to DCS louvres and DCS cover modification works;
 - TTA implementation for noise barrier cleaning works at Shing Fung Road and;
 - Deck cladding rectification and modification.

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 I**.

1

Parameter	No. of Project-related Exceedance		Action Taken	
Action Level		Limit Level	ACTION TAKEN	
Noise	0	0	N/A	

Environmental Monitoring for Air Quality and Construction Noise

6. No monitoring for air quality and construction noise is required. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- Licenses/Permits granted to the Project include the Environmental Permits (EP) for the Project, EP-337/2009 issued on 23 April 2009 and EP-445/2013 issued on 3 May 2013 (Amended Environmental Permit (No.: EP-445/2013/A) issued on 13 August 2014; further amendment of Environmental Permit (No.: EP-445/2013/B) issued on 3 May 2022).
- 8. Billing Account for Disposal of Construction Waste (A/C No. 7024073).
- 9. Registration of Chemical Waste Producer (License: 5213-247-C4004-01).
- 10. Water Discharge License (License: WT0029931-2017).
- 11. Construction Noise Permits (Permit: GW-RE0442-20, GW-RE0639-20, GW-RE0045-21, GW-RE0717-21 & GW-RE0656-21).

Key Information in the Reporting Month

12. Summary of key information in the reporting month is tabulated in Table II.

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

 Table II
 Summary Table for Key Information in the Reporting Month

Future Key Issues

- 13. The future key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Noise from construction vehicle;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site.

Reporting Changes

14. Since the major parts of Works under Contract no. KL/2014/03 has been completed, the environmental monitoring works of EM&A monitoring station, KTD1a, was then handed over to the ET of Contract no. ED/2018/04 in August, 2020. In order to obtain the environmental impact monitoring data with higher representativeness based on several factors, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem, the monitoring location KTD1a was relocated to the original location as proposed in the EM&A manual (AEIAR-174/2013), and renamed as KTD1 on 3 August 2020.

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 2 Infrastructure Works for Developments for Southern Part of the Former Runway is one of the construction stages of KTD. It contains two Schedule 2 DPs including new distributor roads serving the planned KTD and KTD Roads D3A & D4A. The general layout of the Project is shown in **Figure 1.**
- 1.2 One Environmental Permit (EP) No.: EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD and one Environmental Permit No.: EP-445/2013 was issued on 3 May 2013 for Kai Tak Development Roads D3A & D4A to Civil Engineering and Development Department (CEDD) as the Permit Holder. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection Department amended the Environmental Permit No.: EP-445/2013 based on the Application No. VEP-449/2014 and the Environmental Permit (No.: EP-445/2013/A) was issued on 13 August 2014. The Environmental Permit (No.: EP-445/2013/A) was further amended and the Environmental Permit (No.: EP-445/2013/B) was issued on 3 May 2022.
- 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. EIA Reports (Register No. AEIAR-130/2009 and AEIAR-170/2013) were approved by the Environmental Protection Department (EPD) on 4 March 2009 and 3 May 2013 respectively.
- 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/2014/01 Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway. The construction work under KL/2014/01 comprises the construction of part of the Road D4 under the EP (EP-337/2009) and the construction of Roads D3A & D4A under the EP (EP-445/2013/B).
- 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 construction commencement of this Contract is on 13 April 2016. This is the 88th Monthly EM&A report summarizing the EM&A works for the Project in July 2023.
- 1.6 All project information since the commencement of work under EPs including Monthly EM&A Reports is made available to the public via internet access at the website: https://www.epd.gov.hk/eia/english/register/index8/vep4492014_content.html

4

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Supervising Officer and the Supervising Officer's Representative (SO) AECOM Asia Co. Ltd. (AECOM).
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) Ka Shing Management Consultant Ltd. (KSMC).
 - Contractor Continental Engineering Corp. and Chit Cheung Construction Co. Ltd. Joint Venture (CCJV).
- 1.8 The key contacts of the Project are shown in **Table III.**

Table III

Key Project Contacts

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Ms. KY Chan	Engineer	3579 2458	2739 0076
AECOM	Supervising Officer	Mr. Darren Lee	SRE	3911 4207	3911 4288
Cinotech	Environmental Team	Mr. K S Lee	Environmental Team Leader	2151 2091	
		Ms. Betty Choi	Audit Team Leader	2151 2072	3107 1388
KSMC	Independent Environmental Checker	Mr. Happy Lee	IEC	2618 2166	2120 7752
CCJV	Contractor	Mr. Eric So	Environmental Officer	6013 8048	2960 1399

Construction Activities undertaken during the Reporting Month

- 1.9 The site activities undertaken in the reporting month included:
 - DCS modification works at Shing Fung Road;
 - Omega Joint Installation at Underpass;
 - Remedial works for wall & ceiling finishes at Underpass;
 - Minor E&M works;
 - Deck movement & drainage chambers joint rectification
 - Planting works at roundabout & footpath;
 - Drainage construction adj. to DCS louvres and DCS cover modification works;
 - TTA implementation for noise barrier cleaning works at Shing Fung Road and;
 - Deck cladding rectification and modification.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures is presented in **Table IV**.

Table IV	Construction Programme Showing the Inter-Relationship with Environmental
Protection/Mit	tigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Section 1.8	Noise, dust impact, water quality and waste generation	 On-site waste sorting and implementation of trip ticket system; Use of quiet plant and well- maintained construction plant; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.

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 5 of this report.

2. AIR QUALITY

Monitoring Requirements

- 2.1 With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 2.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for July 2023 should be accessed in the EM&A report for the reporting month. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 2.3 No monitoring for air quality is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 2.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C.**

3. NOISE

Monitoring Requirements

- 3.1 With reference to the same principle of EIA report of the Project, construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for July 2023 should be accessed in the EM&A report for the reporting month. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 3.3 No monitoring for construction noise is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 3.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C**.

4. LANDSCAPE AND VISUAL

Monitoring Requirements

4.1 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

- 4.2 Site audits were carried out on a weekly basis to monitor and audit 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 C**.
- 4.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 4.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix D** shall be performed.

5. ENVIRONMENTAL AUDIT

Site Audits

- 5.1 Site audits 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 audits are attached in **Appendix C**.
- 5.2 Site audits were conducted by representatives of the Contractor, Supervising Officer and ET on 3, 13, 20 & 26 July 2023 in the reporting month. IEC joint site inspection was conducted on 26 July 2023. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

5.3 All permits/licenses obtained for the Project are summarized in **Table V**.

Table V	Summar	y of Environ	mental Licensing and Permit Sta	itus
Desire 4 Ne	Valid Period			64-4
Permit No.	From	То	- Details	Status
Environmental Pe	ermit (EP)			
EP-337/2009	23 Apr 2009	N/A	Construction of new distributor roads serving the planned Kai Tak development.	Valid
EP-445/2013/A	13 Aug 2014	N/A	Construction of Kai Tak Development roads D3A and D4A	Valid
EP-445/2013/B	3 May 2022	N/A	Construction of Kai Tak Development roads D3A and D4A	Valid
Effluent Discharge	License	•		•
WT00023634- 2016		31 Mar 2021	Wastewater from the construction site including effluent treated by screen and sedimentation tank; There are no more need for the license after 31 March 2021 as the project is close to completion and no significant waste water is being generated from site.	
WT0029931-2017		31 December 2022	Wastewater from the construction site including effluent treated by screen and sedimentation tank; There are no more need for the license after 31 December 2022 as the project is close to completion and no significant waste water is being generated from site.	Expired on 31 December 2022
Registration of Che	emical Waste	Producer		
5213-247-C4004- 01 N/A			Chemical Waste Types: Surplus paint, waste contaminated by paint, diesel, waste contaminated by diesel, spent lubricating oil and waste, soil contaminated by lubricating oil.	Valid
Construction Noise	Permit (CN	P)		
GW-RE0442-20	14 Jun 2020	13 Dec 2020	Construction Noise Permit for the use of powered mechanical equipment for carrying out construction work other than percussive pilling and performing	Expired on 13 Dec 2020
GW-RE0639-20 3 Aug 19 Jan 2020 2021		prescribed construction work. Construction Noise Permit for the use of powered mechanical	Expired on 19 Feb 2021	

Permit No.	Valid Period		Details	Status
remit No.	From	То	Details	Status
GW-RE0045-21	20 Jan 2021	19 Jul 2021	equipment for carrying out construction work other than percussive pilling and performing prescribed construction work.	Expired on 19 Jul 2021
GW-RE0656-21	9 Jul 2021	30 Sep 2021		Expired on 30 Sep 2021
GW-RE0717-21	30 Jul 2021	19 Jan 2022		Expired on 19 Jan 2022

Status of Waste Management

- 5.4 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.
- 5.5 In respect of the dump truck cover, the Contractor is reminded to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

5.6 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 VI**.

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/ Chemical Management			
Landscape and Visual			
Permits/ Licenses			

Table VI	Observations and Recommendations of Site Inspections
----------	---

Summary of Mitigation Measures Implemented

5.7 An updated summary of the EMIS is provided in **Appendix E**.

Implementation Status of Event Action Plans

5.8 The Event Action Plans for noise and landscape and visual are presented in AppendixD. No Event Action Plan for air quality is considered necessary.

Construction Dust

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

Construction Noise

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

Landscape and visual

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

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

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

6. FUTURE KEY ISSUES

- 6.1 Major site activities undertaken for the coming two months include:
 - Remedial works for wall & ceiling finishes at Underpass;
 - Minor E&M works;
 - Railing construction adj. to DCS covers & Re-instatement works at footpath;
 - Deck cladding rectification and modification;
 - Drainage construction adj. to DCS louvres and DCS cover modification works;
 - TTA implementation for noise barrier cleaning works at Shing Fung Road, and
 - TTA implementation for minor works at Wang Chiu Road / Kai Cheung Road.
- 6.2 Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Noise from operation of the on-site vehicle ;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site.

6.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e., August & September 2023 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
	Air quality impact (dust)	a) Frequent watering or covering stockpiles with tarpaulin or similar means; and
	Water quality impact (surface run-off)	 a) 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 b) Provision of measures to prevent discharge into the stream.
	Noise Impact	a) Regular maintenance of machines.
As mentioned in Section 6.1	Waste/ Chemical Management	 a) Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. b) Chemical wastes should be hold by suitable containers with clear label and stored at a safe location.

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

7.1 The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken in July 2023.

Air Quality and Construction Noise

7.2 No regular monitoring air quality and noise monitoring is required for the Project. No Action/Limit Level exceedance was recorded.

Landscape and visual

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

Complaint and Prosecution

- 7.4 No environmental complaints and environmental prosecution were received in the reporting month.
- 7.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

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

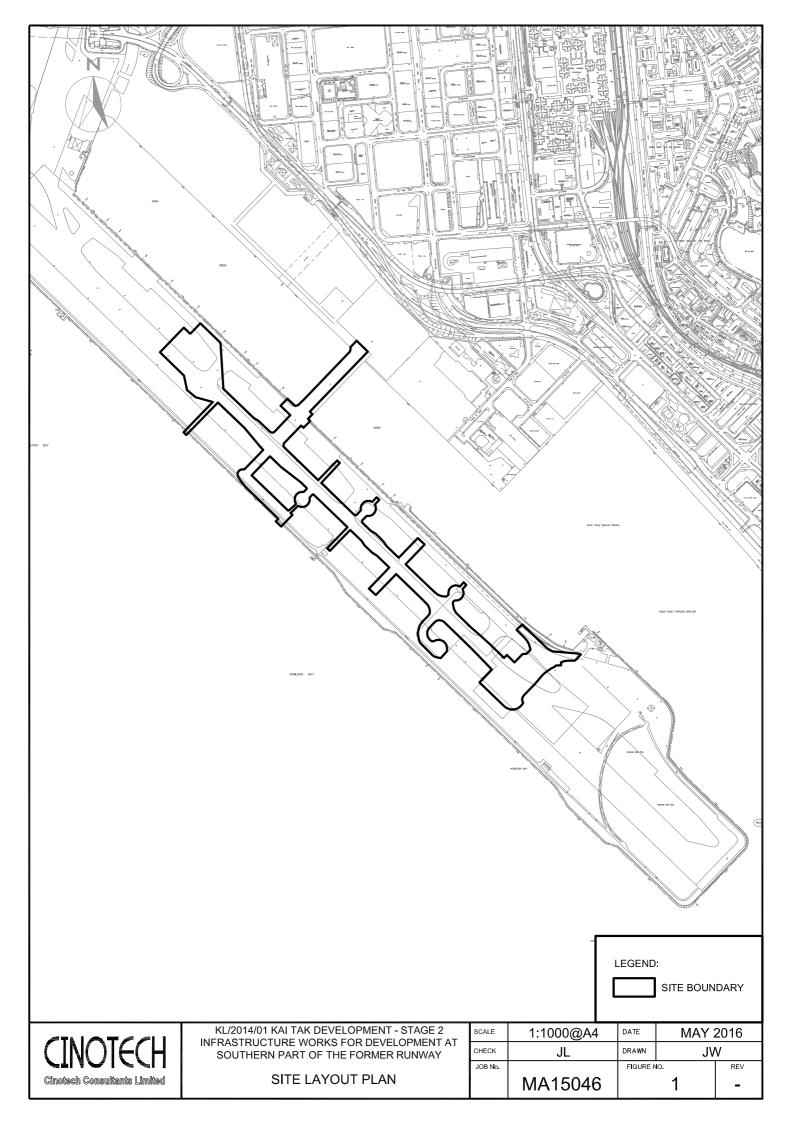
Water Quality

• Stagnant water should be avoided to prevent mosquito breeding.

Waste/ chemical management

- To avoid the accumulation of general refuse
- The construction/chemical material should be stoned at the proper place.
- The drip trays with adequate capacity and well maintained should be provided to chemicals

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Monitoring Station	Parameter	Action Level (µg/ m ³)	$\begin{array}{c} \mbox{Limit Level}^{(1)(2)} \\ (\mu g/\ m^3) \end{array}$
KTD1	24-hr TSP	177	260
KTD1*	1-hr TSP	285	500

Table A-1 Action and Limit Levels for Air Quality Monitoring

* 1-hr TSP monitoring should be required in case of complaints.

Table A-2	Action and Limit Levels for Construction Noise Monitoring	
	Action and Limit Levels for Construction Noise Monitoring	

Time Period	Action Level	Limit Level ⁽¹⁾⁽²⁾
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

(2) No regular noise impact monitoring station for this Contract. It is subject to the noise sensitive receiver(s) and additional monitoring work.

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

APPENDIX B SUMMARY OF EXCEEDANCE

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

Appendix B – Summary of Exceedance

Exceedance Record for Contract No. KL/2014/01

Reporting Month: July 2023

(A) Exceedance Record for Construction Dust

(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 C SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	230703
Date	03 July 2023 (Monday)
Time	12:00 - 13:00

Ref. No.	Non-Compliance	Related Item No.
Kel . 140.	None identified	Item 110.
-	None identified	Related
Ref. No.	Remarks/Observations	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 /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 230627).	

	Name	Signature	Date
Recorded by	KK Kwan	J.J. Thruan	03 July 2023
Checked by	Charles Fung	- Chia-s	04 July 2023

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	230713
Date	13 July 2023 (Thursday)
Time	12:00 - 13:00

D.C.N.	New Committee of	Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	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 /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 230703).	

	Name	Signature	Date
Recorded by	KK Kwan	J.J. Hyman	13 July 2023
Checked by	Charles Fung	- Chran	18 July 2023

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	230720
Date	20 July 2023 (Thursday)
Time	14:00 - 15:00

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 /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 230713).	

	Name	Signature	Date
Recorded by	KK Kwan	J. H. Thruan	20 July 2023
Checked by	Charles Fung	- Chia-s	21 July 2023

Weekly Site Inspection Record Summary 9Inspection Information

Checklist Reference Number	230726
Date	26 July 2023 (Wednesday)
Time	14:30 - 16:00

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	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 /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 230720).	

	Name	Signature	Date
Recorded by	Charles Fung	Quan	26 July 2023
Checked by	Colman Wong	Colman	1 August 2023

APPENDIX D EVENT ACTION PLANS

Appendix D - Event Action Plans

Event/Action Plan for Construction Noise

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

Appendix D - Event Action Plans

Event/Action Plan for Landscape and Visual

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

APPENDIX E ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	Mitigation Measures	Status		
Construction Air Qu	Construction Air Quality			
S3.2 (AEIAR-130/2009)	8 times daily watering of the work site with active dust emitting activities.	٨		
S4.8 (AEIAR-170/2013)	Control measures stipulated in the approved KTD Schedule 3 EIA Report should be strictly followed.	٨		
S3.2 (AEIAR-130/2009) and 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.			
(AEIAR-170/2013)	 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. 	٨		
	• 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.	٨		
	• 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.	٨		
	• 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. Onsite unpaved roads should be compacted and kept free of lose materials.	^		
	• Vehicle washing facilities should be provided at every vehicle exit point.	٨		

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	Mitigation Measures	Status
	 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; and Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	
Construction Noise		
S3.3 (AEIAR-130/2009)	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	٨
S3.3 (AEIAR-130/2009)	Good Site Practice:	
(ALIAK-130/2007)	• 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. 	٨
	 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. 	٨
	• 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.	٨
	• Material stockpiles and other structures should be effectively utilized, wherever	^

EIA Ref.	Mitigation Measures	Status
	practicable, in screening noise from on-site construction activities.	
S3.3 (AEIAR-130/2009)	Scheduling of Construction Works during School Examination Period	N/A
S3.8 (AEIAR-170/2013)	Provision of a landscaped deck along Roads D3A & D4A.	N/A
S3.8 (AEIAR-170/2013)	 Provision of about 1090 m length of vertical noise barrier (connected to the deck) at Roads D3A & D4A; Provision of about 60 m length of overhang vertical noise barrier (connected to the deck) at Road D4A; and Provision of staircases with noise barriers next to Sites 4A1 and 4B1 It should be noted that the exact length of the mitigation measures would be subject to minor refinement during the detailed design stage. 	N/A N/A N/A
S3.8 (AEIAR-170/2013)	Non-noise sensitive use areas within Sites 4A1 and 4B1.	N/A
S3.8 (AEIAR-170/2013)	Avoid sensitive façade with openable window facing Road D3A.	N/A
Construction Water	Quality	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	 <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: use of sediment traps adequate maintenance of drainage systems to prevent flooding and overflow 	∧ ∧

EIA Ref.	Mitigation Measures	Status
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.		٨
	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.	٨
S5.8 (AEIAR-170/2013)	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.	٨
	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.	٨
S3.4 (AEIAR-130/2009)	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	٨

EIA Ref.	Mitigation Measures	Status
	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.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ 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.	٨
(**************************************	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.	Λ
S3.4 (AEIAR-130/2009)	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.	٨
	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Λ
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	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	٨

EIA Ref.	Mitigation Measures	Status
	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.	
S5.8 (AEIAR-170/2013)	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.	^
	Acid Cleaning, Etching and Pickling Wastewater 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	^
S3.4	Drainage	
(AEIAR-130/2009)	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.	٨
S3.4 (AEIAR-130/2009)	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	^

EIA Ref.	Mitigation Measures					
S3.4 (AEIAR-130/2009)	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.	Λ				
S5.8 (AEIAR-170/2013)	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 (RO) of EPD.	Λ				
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Sewage EffluentConstruction 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.	٨				
S5.8	Notices should be posted at conspicuous locations to remind the workers not to discharge	^				

EIA Ref.	Mitigation Measures	Status
(AEIAR-170/2013)	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.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	<u>Stormwater Discharges</u> Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	٨
	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 and that disposal of any solid materials, litter or wastes to marine waters does not occur.	٨
S5.8 (AEIAR-170/2013)	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 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.	٨

EIA Ref.	Mitigation Measures	Status	
	 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. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	Λ Λ Λ Λ	
Construction Waste	Management		
S6.7 (AEIAR-170/2013)	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.	٨	
S3.5 (AEIAR-130/2009) and S6.7 (AEIAR-170/2013)	 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: Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site Training of site personnel in proper waste management and chemical waste handling procedures 	^	
	Provision of sufficient waste disposal points and regular collection for disposal	^	

EIA Ref.	Mitigation Measures					
	• Appropriate measures to minimise windblown litter and dust during transportation of	^				
	waste by either covering trucks or by transporting wastes in enclosed containers					
	 A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 	^				
	 Regular cleaning and maintenance systems, sumps and oil interceptors 	^				
	 Separation of chemical wastes for special handling and appropriate treatment 	^				
	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	٨				
	stockpiles to enhance reuse or recycling of materials and their proper disposal					
	• 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 Any unused chemicals or those with remaining functional capacity should be recycled 	^				
	 Any unused chemicals of mose with remaining functional capacity should be recycled Proper storage and site practices to minimise the potential for damage or 	^				
	contamination of construction materials					
	• Plan and stock construction materials carefully to minimize amount of waste	^				
	generated and avoid unnecessary generation of waste					
	 Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle. 	^				

EIA Ref.	Mitigation Measures	Status
S3.5 (AEIAR-130/2009)	 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: Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles shall be 	Λ
	 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. 	۸
	 Skip hoist for material transport should be totally enclosed by impervious sheeting. Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site. 	л л
	 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. 	Λ
	 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. 	^
	 All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. 	٨
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	٨
	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	٨

EIA Ref.	Mitigation Measures					
	System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirement sand 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.					
S3.5 (AEIAR-130/2009)	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	^				
Construction Lands	cape and Visual					
\$3.8.12	• Minimized construction area and contractor's temporary works areas.	٨				
(AEIAR-130/2009)	• All existing trees should be carefully protected during construction.	^				
and S7.9 (AEIAR-170/2013)	• 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.	^				
	• Control of night-time lighting.	٨				
	 Erection of decorative screen hoarding. 	٨				
	 Reduction of construction period to practical minimum. 	٨				
	• Limitation of / Ensuring no run-off into surrounding landscape and adjacent seawater areas.	٨				
	 Temporary or advance landscape should be provided along the temporary access roads to the Cruise Terminal until such time as road D3 is open. 	٨				

Remarks:	EIA Report (AEIAR-130/2009) – Kai Tak Development				
	EIA Report (AEIAR-170/2013) - Kai Tak Development - Roads D3A & D4A				
	 Compliance of mitigation measure; N/A Not Applicable at this stage; 	X Non-compliance of mitigation measure;			
	N/A Not Applicable at this stage, N/A(1) Not observed;	• Non-compliance but rectified by the contractor;			
	* Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.			

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

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

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

Reporting Month: July 2023

Contract No. KL/2014/01

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Complaint/warning/summon	
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX G WASTE GENERATED QUANTITY

Appendix G. Monthly Summary Waste Flow Table

Name of Department: CEDD

Contract No KL/2014/01

Monthly Summary Waste Flow Table for 2023

	Actual Quantities of Inert C&D Materials Generate				erated Monthly	d Monthly Actual Quantit				s of C&D Wastes Generated Monthly		
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	Chemical Waste	Others, e.g. general refuse	
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in tonne)	
Jan	110.01	0	0	0	82.86	0	0	0	0	0	27.15	
Feb	54.19	0	0	0	6.43	0	0	0	0	0	47.76	
Mar	23.57	0	0	0	6.66	0	0	0	0	0	16.91	
Apr	23.20	0	0	0	4.50	0	0	0	0	0	18.70	
May	150.49	0	0	0	52.19	0	0	0	0	0	98.30	
June	38.50	0	0	0	12.30	0	0	0	0	0	26.20	
Sub-total	399.96	0	0	0	164.94	0	0	0	0	0	235.02	
July	1.15	0	0	0	0.00	0	0	0	0	0	1.15	
Aug	0.00	0	0	0	0.00	0	0	0	0	0	0.00	
Sept	0.00	0	0	0	0.00	0	0	0	0	0	0.00	
Oct	0.00	0	0	0	0.00	0	0	0	0	0	0.00	
Nov	0.00	0	0	0	0.00	0	0	0	0	0	0.00	
Dec	0.00	0	0	0	0.00	0	0	0	0	0	0.00	
Total	401.11	0	0	0	164.94	0	0	0	0	0	236.17	

* Transfer to alterative disposal ground at Lung Kwu Sheung Tan EPD approved recycler

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Appendix **B**

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

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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

July 2023

(Version 1.0)

Certified By	
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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 Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



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

Date 11 August 2023 Our Ref. MCL/ED/0313/2023/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 July 2023

We refer to your emails dated 4, 9 and 11 August 2023 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 me on 3565 4114 or our Cyrus Lai on 3565 4442.

Assuring you of our best attention at all times.

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

Colin K. L. Yung Independent Environmental Checker

CY/cl

c.c. CEDD –

AECOM –

Attn.: Mr. Ricky Chan Attn.: Mr. Andy Wong Attn.: Mr. Vincent Lee Attn.: Mr. Teddy Shih

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EXECUTIVE SUMMARY

Introduction

- 1. This is the 79th 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 July 2023.
- 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
	110 (21 11001 1151)	Secondary School
Noise Monitoring Stations		
M3 - Cognitio College	No	M3(A) – The Bridge connecting
WIS - Cognitio Conege	110	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:
 - Reinstatement of PERE central Divider
 - Reinstatement of PERE carriageway pavement at SKLRP
 - Installation of Subway ST2 ELSP sheet pile

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.

2

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 LAKEN	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;

- Noise generated from operation of the equipment, especially for rock-breaking activities;
- Dust generation from excavation works and 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**.
- 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).

Table 1.1 Key Project Contacts					
Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. CHAN Wai Kit, Ricky	Senior Engineer	2116 3753	2116 0714
	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	
Chlotten	Team	Ms. Betty Choi	Audit Team Leader	2151 2072	5107 1500
FTS Independent FTS Environmental Checker	Mr. Colin Yung	Independent Environmental Checker	3565 4114	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:
 - Reinstatement of PERE central Divider
 - Reinstatement of PERE carriageway pavement at SKLRP
 - Installation of Subway ST2 ELSP sheet pile
- 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	Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities; Properly cover the stockpiles by impervious materials; On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge; Use of quiet plant and well-maintained construction plant; Provide movable noise barrier to enclose the noisy plant; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide drip trays with adequate capacity and well maintained to chemicals Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.

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 2.1Locations 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 Alf Quality	y 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
	impuet Dust Monitoring I draneters, I requency and Daration

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 $1.1 \text{ m}^3/\text{min.}$ and $1.4 \text{ m}^3/\text{min.}$) 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 and 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.

Monitoring Stations	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	• BSW Atech BSWA 308 & SVAN 957	3
Calibrator	SOUNDTEK 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 3.3
 Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3(A) M4	L ₁₀ (30 min.) dB(A) L ₉₀ (30 min.) dB(A)	0700-1900 hrs on	Once per	Façade
M5(C)	$L_{eq}(30 \text{ min.}) dB(A)$	normal weekdays	week	Paçade

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
--	---------------------	-----

- 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 recalibration 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}, L₉₀ and L₁₀ 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 identified at	the Designated	Noise Monitoring Stations
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Table 3.5 Baseline	able 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations				
Station Baseline Noise Level, dB (A)		Noise Limit Level, dB (A)			
	N/A ⁽¹⁾	75			
M3(A)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on			
	weekdays)	normal weekdays)			
	76.7 ⁽²⁾	70 ^(*)			
M4	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on			
	weekdays)	normal weekdays)			
	N/A ⁽¹⁾	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-hr TSP conc.		Measured 1-hr TSP conc.	
Station	Scenario1 (Mid 2009 to Mid-	Scenario2 (Mid 2013 to Late	Reporting Month (July 2023), μg/m ³	
	2013), μg/m ³	2016), μg/m ³	Average	Range
AM2 – Lee Kau Yan Memorial School	290	312	37.2	19.0 - 66.0

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.		Measured 24-hr TSP conc.	
Station	Scenario1 (Mid 2009 to Mid-2013),	Scenario2 (Mid 2013 to	Reportin (July 202	
	μg/m ³	Late 2016), µg/m ³	Average	Range
AM2(A) – Ng Wah				
Catholic Secondary School	145	169	44.3	20.9 - 61.6

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L _{eq (30min)} dB(A))	Reporting Month (July 2023), L _{eq (30min)} dB(A)
M3(A) – The Bridge connecting The Latitude	Not predicted in EIA Report	$58.1 - 74.1^{\ (2)}$
M4 – Lee Kau Yan Memorial School	47 – 74	$72.3 - 74.1^{(1)}$
M5(C) – Mercy Grace's Home	Not predicted in EIA Report	$75.3 - 77.3^{(2)}$

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 3 ,12 ,20 ,24 & 31 July 2023 in the reporting month. A joint site inspection with the representative of IEC, ER, the Contractor and the ET was conducted on 12 July 2023. 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	Period	
Permit No.	From	То	Status
Environmental Permit (EP)			
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
Billing Account for Construction W	Vaste Disposal		
A/C# 7026164	20 Oct 2016	N/A	Valid
Registration of Chemical Waste Pr	oducer		
WPN5213-229-P3271-01	14 Aug 2017	N/A	Valid
Construction Noise Permit (CNP)			
GW-RE0915-19	8 Nov 2019	4 May 2020	Expired
GW-RE0984-19	15 Dec 2019	24 Feb 2020	Expired
GW-RE0083-20	1 Mar 2020	1 June 2020	Expired
GW-RE0266-20	2 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

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 6.2C	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	2023/07/31	NRMM label should be provided to excavator.	Follow-up actions will be reported in the next reporting period.		
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A		
Waste/ Chemical Management	2023/07/12	A drip tray with adequate capacity should be provided for the breaker head to prevent oil leakage	The breaker head have been removed and no oil stain on the ground was observed.		
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		

T 11 (**A** ~1 ın - ... COM T

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

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

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:
 - Reinstatement of SKLRP pedestrian footway;
 - Reinstatement work of planter under bridge K72 and Bridge K73 parapet wall;
 - Installation work of subway ST2 ELS strut and wailing;
 - Site formation work of pedestrian footway between PERE and Road D1.
- 7.2. Key environmental issues in the coming month include:
- Stagnant water on the unused and damaged water-filled barriers & uncovered containers and manhole
- Noise generated from operation of the equipment, especially for rock-breaking activities;
- Dust generation from excavation works 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 runoff from entering the existing storm water drainage system via public road; and

Noise Impact

- Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;
- 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.

1-hr TSP Monitoring

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.

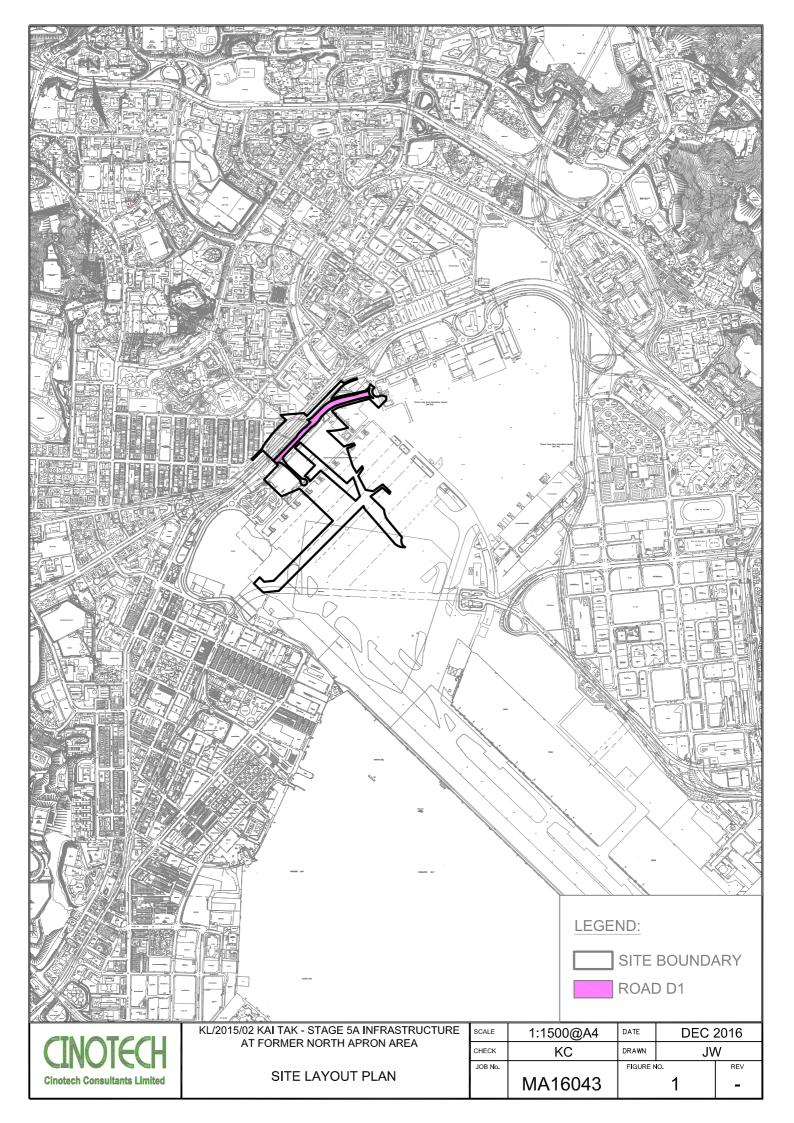
Air Quality

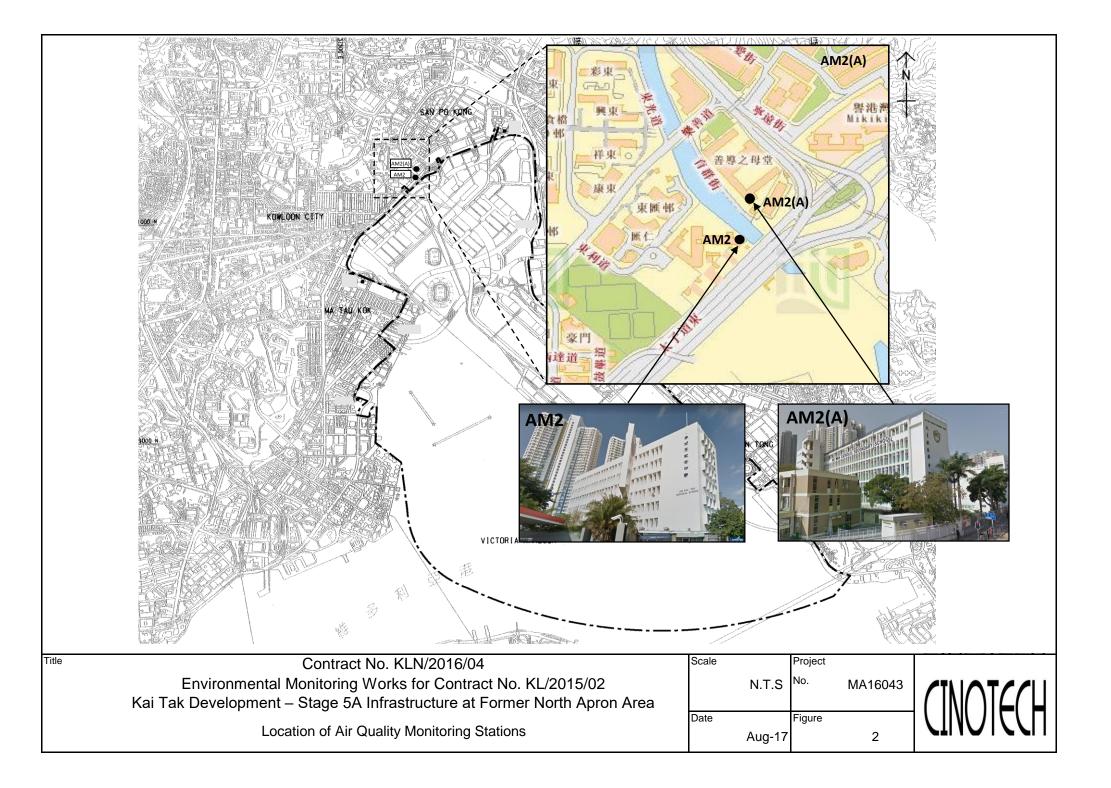
- The stockpile of dusty material should be covered by impervious materials or maintained wet.
- NRMM label should be provided to powered mechanical equipment (PME).

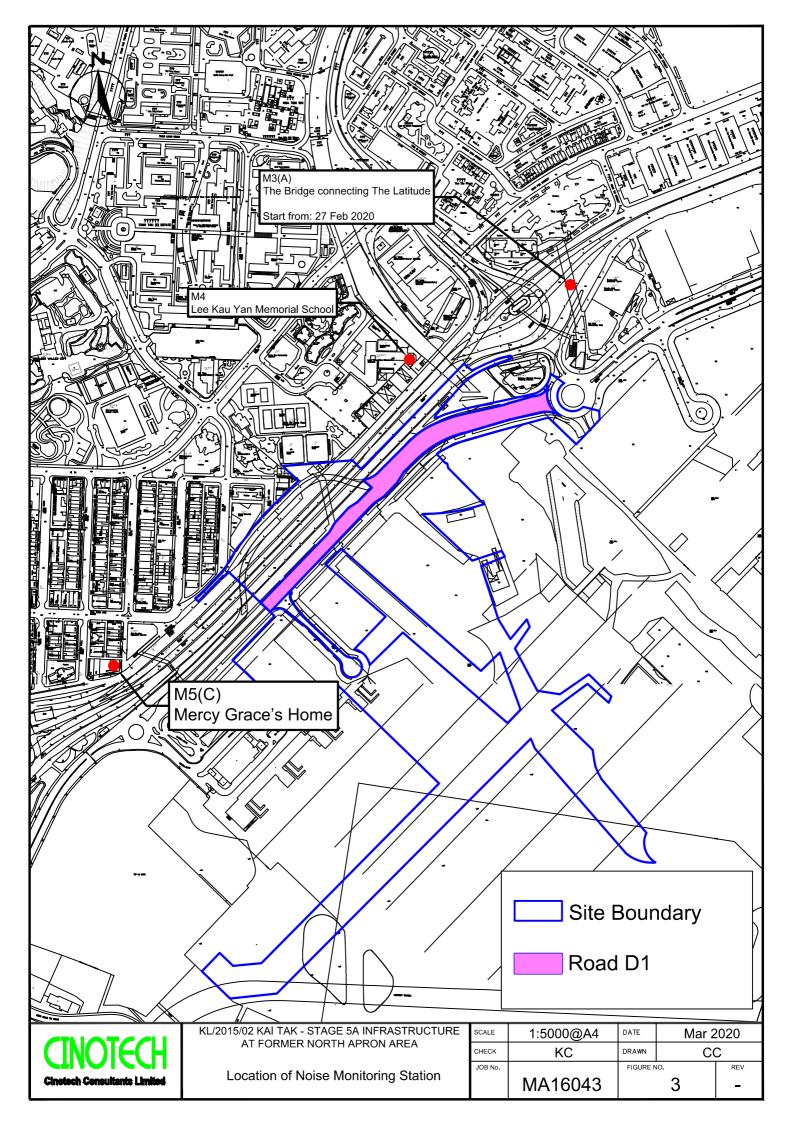
Waste/Chemical Management

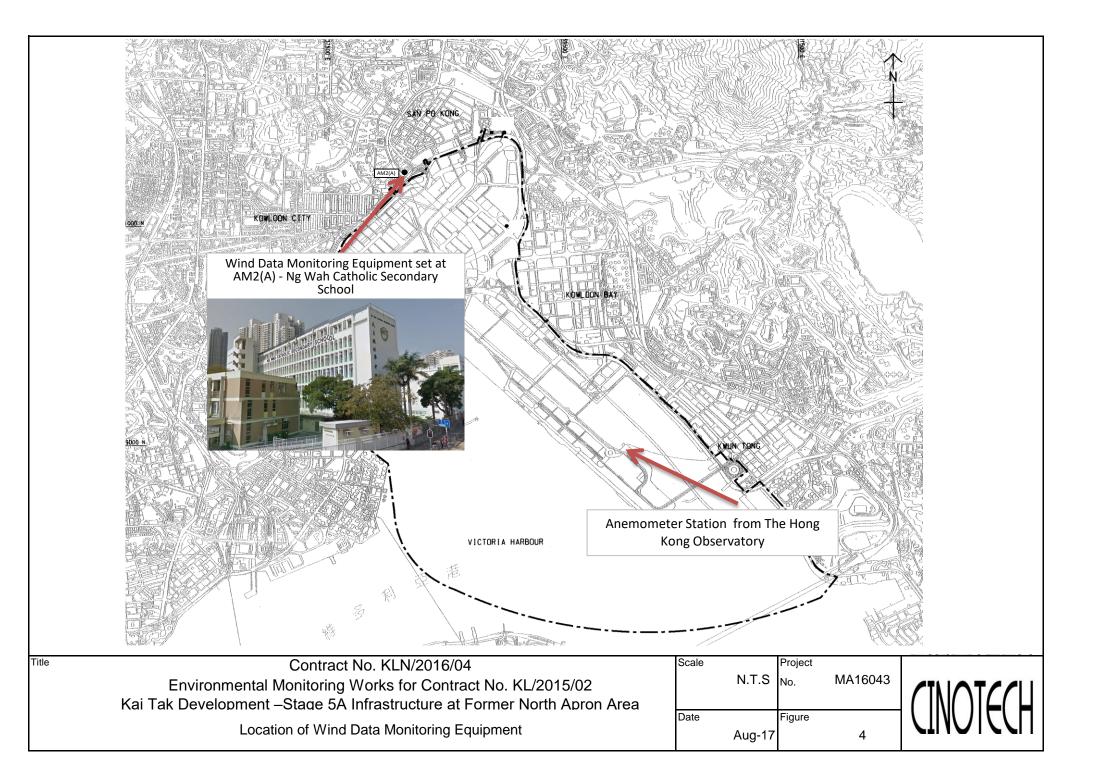
- Oil leakage from PME should be avoided.
- Drip tray with adequate capacity and well maintained should be provided to chemical & oil container.
- The construction/chemical material should be stoned at the proper place.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, μg/m ³
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 ³	Limit Level, µg/m ³
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



File No. MA16043/13/0036

Project No.	AM2(A) - Ng Wah Catholic Secondary School							
Date:	06-1	May-23	Next Due Date:	06-Jul-	23 Operator:	SK		
Equipment No.:	A-	01-13	Model No.:	TE-51	70 Serial No.	1352		
Ambient Condition								
Temperatu	ire, Ta (K)	301.2	Pressure, Pa (mml	Hg)	753.4			

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491	
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x\left(298/Ta\right)]^{1/2}\text{ -bc} \} / $	mc	

		Calibration of	TSP Sampler			
Calibration		Orfice	-		HVS	
Point	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	DW (HVS), in. of water		0) x (298/Ta)] ^{1/2} axis
1	12.7	3.53	60.12	10.5	3	.21
2	10.6	3.22	54.98	8.0	2	.80
3	7.8	2.77	47.25	5.3	2	.28
4	5.2	2.26	38.68	3.2	1	.77
5	2.8	1.66	28.54	1.8	1	.33
Slope , mw = Correlation	ession of Y on X 0.0596 coefficient* = Coefficient < 0.990	0.9942), check and recalibrate.	Intercept, bw = _	-0.457	7	
		Set Point C	alculation			
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM				
		"Y" value according to				
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature	: k	火.	Date:	06-May-23
Checked by:	Henry I	Leung Signature	-lem	N- - 1 Xron 7-	Date:	06-May-23

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16043/13/0037

Project No.	AM2(A) - Ng	Wah Catholic Se					
Date:	6-Jul-23		Next Due Date:	6-Sep-23	Operator:	SK	
Equipment No.:	A-01-13		Model No.:	TE-5170	Serial No.	1352	
			Ambient Condit	ion			
Temperatu	ire, Ta (K)	303.3	Pressure, Pa (mml	Hg)	756.7		
		0	rifice Transfer Standard	Information			

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491	
Last Calibration Date:	16-Jan-23	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}	
Next Calibration Date:	16-Jan-24		$Qstd = \{ [\Delta H x] \}$	$\left(Pa/760\right) x \left(298/Ta\right)]^{1/2} \ \text{-bc} \} \ /$	mc	

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	DW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.9	3.55	60.51	10.2	3.16
2	10.8	3.25	55.42	8.0	2.80
3	8.1	2.81	48.07	5.2	2.26
4	5.5	2.32	39.72	3.2	1.77
5	3.0	1.71	29.49	1.8	1.33
Slope , mw = Correlation	coefficient* =	0.9937), check and recalibrate.	Intercept, bw = -	-0.518	6
From the TSP Fi	eld Calibration C	Set Point C urve, take Qstd = 43 CFM	alculation		
From the Regres	sion Equation, the	e "Y" value according to			
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw}^{2} \mathbf{x} (760 / Pa) $			
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature	<u> </u>	N. 1 Xron J	Date: 6-Jul-23
Checked by:	Henry I	Leung Signature	-lem	- Xoz	Date: 6-Jul-23

CINOTECH CONSULTANTS LIMITED



<u>Certificate of Calibration</u>

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-23	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	31-Jul-23	
Model No.:	LD-5R					
Serial No.:	972779					
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3	_		
High Volume Sa	ampler No.: A-01-03	Before Sensit	tivity Adjustment	744 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitiv	vity Adjustment	744 CPM		
Calibration of 1 hr TSP						

	Calibratio	
Calibration	Laser Dust Monitor	HVS
Point	Mass Concentration (µg/m3)	Mass concentration ($\mu g/m^3$)
rome	X-axis	Y-axis
1	70.0	137.0
2	59.0	118.0
3	50.0	97.0
Average	59.7	117.3
By Linear Regree Slope , mw = _ Correlation coe	1.9900	Intercept, bw =
Slope , mw =	<u>1.9900</u> fficient* = <u>0.9963</u>	Intercept, bw = <u>-1.4053</u>
Slope , mw = Correlation coe	<u>1.9900</u> fficient* = <u>0.9963</u>	elation Factor
Slope , mw = Correlation coe	1.9900 fficient* = 0.9963 Set Corre	elation Factor
Slope , mw = Correlation coe	1.9900 fficient* = 0.9963 Set Correction entration by High Volume Sampler (μ g/m ³) entration by Dust Meter (μ g/m ³)	elation Factor
Slope , mw = Correlation coe Particaulate Conce Particaulate Conce	1.9900 fficient* = 0.9963 Set Correction of the set of the se	elation Factor 117.3 59.7

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:

Technical Officer (Wong Shing Kwai)

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-23
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibration Record		31-Jul-23
Model No.:	LD-5R			
Serial No.:	972780			
Equipment No.:	SA-01-09	Sensitivity 0.001 mg/m3	_	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitivity Adjustment	739 CPM	

	Calibration of	hr TSP	
Calibration	Laser Dust Monitor	HVS	
Point	Mass Concentration (µg/m3)	Mass concentration ($\mu g/m^3$)	
1 onit	X-axis	Y-axis	
1	72.0	139.0	
2	62.0	119.0	
3	51.0	98.0	
Average	61.7	118.7	
By Linear Regression Slope , mw = Correlation coeffice	1.9517 Int	ercept, bw = -1.6858	
Slope , mw =	<u>1.9517</u> Int cient* = <u>0.9999</u>	_	
Slope , mw = Correlation coeffic	1.9517 Int cient* = 0.9999 Set Correlation	_	
Slope , mw = Correlation coeffic Particaulate Concent	<u>1.9517</u> Int cient* = <u>0.9999</u>	Factor	
Slope , mw = Correlation coeffic Particaulate Concent	1.9517 Interpretended cient* = 0.9999 Set Correlation ration by High Volume Sampler ($\mu g/m^3$) ration by Dust Meter ($\mu g/m^3$)	1 Factor 118.7	
Slope , mw = Correlation coeffic Particaulate Concent Particaulate Concent	1.9517 Integration cient* = 0.9999 Set Correlation ration by High Volume Sampler ($\mu g/m^3$) ration by Dust Meter ($\mu g/m^3$) in)	118.7 61.7	

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:

Technical Officer (Wong Shing Kwai)



RECALIBRATION

DUE DATE:

January 16, 2024

Certificate of Calibration

			Calibration					014
Cal. Date:	January 16	, 2023	Roots	meter S/N:	438320	Та:	293	℃К
Operator:	Jim Tisch					Pa:	749.0	mm Hg
Calibration	Model #:	TE-5025A	Calib	prator S/N:	3864			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4440	3.2	2.00	1
	2	3	4	1	1.0220	6.4	4.00	
	3	5	6	1	0.9100	8.0	5.00	
	4	7	8	1	0.8710	8.8	5.50	
	5	9	10	1	0.7210	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9981	0.6912	1.41	59	0.9957	0.6896	0.8845	
	0.9938	0.9724	2.00	24	0.9915	0.9701	1.2509	
	0.9917	1.0898	2.23	88	0.9893	1.0872	1.3985	
	0.9906	1.1373	2.34	80	0.9883	1.1346	1.4668	
	0.9853	1.3665	2.83		0.9829	1.3633	1.7690	
		m=	-0.03493			m=	1.31155	
	QSTD	b=			QA	b= r=	-0.02182 0.99995	
		r=	0.999	995				
				Calculatio				
)/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			-	Va/∆Time		
			For subsequ	ient flow ra	te calculatio	ns:		
	Qstd=	1/m((√∆H(Pa <u>Tstd</u> Pstd Ta	-))-ь)	Qa=	1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						
Tstd						RECA	LIBRATION	
Pstd		mm Hg			US FPA rec	ommends a	nnual recalibratio	on ner 1999
AH: calibrat		Key ter reading (i	n H2O)		US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51,			
		eter reading					, Reference Meth	
		perature (°K)					ended Particulat	
		ressure (mm				•	ere, 9.2.17, page	
b: intercept						c Autospite	, J.z.z/, page	
m: slope								

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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>6-Apr-2023</u>
Next Due Date	<u>6-Oct-2023</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
2.0	2.1	-0.1
3.8	3.7	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: Kwai Approved by: Henry Leung

APPENDIX B-2 COPIES OF CALIBRATION CERTIFCATES (NOISE)

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



Issue Date : 24 Jul 2023

Report No.:00390Application No.:HP00263

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-08-12

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 957
		Serial No.	23851
		Microphone No.	22391

Date Received	:	18 Jul 2023
Test Period	:	20 Jul 2023 to 20 Jul 2023
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.

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 : 24 Jul 2023

Report No.:00390Application No.:HP00263

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	93.9	- 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.

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

: 00361



Issue Date : 30 Mar 2023

: HP00236 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-12-04 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580238 Microphone No. 570605 Data Bacalyad 77 Mar 2022

Test Period : 28 Mar 2023 to 28 Mar 2023	
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 : 30 Mar 2023

Report No.:00361Application No.:HP00236

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	94.2	+ 0.2	± 1.5
114.0	114.3	+ 0.3	± 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

: 00364



Issue Date : 03 Apr 2023

: HP00240 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	:	03 Apr 2023
Test Period	:	03 Apr 2023 to 03 Apr 2023
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 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 Apr 2023

Report No.:00364Application No.:HP00240

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	94.2	+ 0.2	± 1.5
114.0	114.2	+ 0.2	± 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

: 00288



Issue Date : 10 Nov 2022

Application No. : HP00176 **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-13-03 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001637 : 10 Nov 2022 Date Received Test Period : 10 Nov 2022 to 10 Nov 2022 : 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%

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.

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

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Issue Date : 10 Nov 2022

Report No.:00288Application No.:HP00176

<u>Certificate of Calibration</u>

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01
Description	Sound Meter
Manufacturer	BSWA Technology
	DOWNTEEnnology
Model No.	BSWA 308
Model No. Serial No.	81
	BSWA 308
Serial No.	BSWA 308 570183

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 -

APPENDIX C WEATHER INFORMATION

		July 2023		
Date	Mean Pressure (hPa)	Air Temperature	Mean Relative Humidity (%)	Precipitation (mm)
		Mean (°C)		
1-Jul-23	1006.6	28.9	82	4.7
2-Jul-23	1007.9	27.5	89	15.6
3-Jul-23	1008.8	28.9	83	3.6
4-Jul-23	1008.7	29.3	82	10.6
5-Jul-23	1008.4	30.4	77	Trace
6-Jul-23	1008.9	30.3	77	Trace
7-Jul-23	1009.7	30.4	76	0.3
8-Jul-23	1010.4	30.4	76	0
9-Jul-23	1009.8	30.5	77	Trace
10-Jul-23	1008.5	30.7	75	0
11-Jul-23	1008.4	30.7	76	0
12-Jul-23	1008.2	30.7	74	0
13-Jul-23	1006.8	30.9	71	0
14-Jul-23	1004.4	31.3	71	0
15-Jul-23	1000.8	31.1	74	2.5
16-Jul-23	997.7	29.7	75	4.9
17-Jul-23	997.5	28.4	85	29
18-Jul-23	1004.5	29.2	86	10.9
19-Jul-23	1007.5	28.7	88	3.9
20-Jul-23	1008.5	29.6	80	4.8
21-Jul-23	1009.7	29.7	79	Trace
22-Jul-23	1010.8	30.6	76	0
23-Jul-23	1009.5	30.6	77	Trace
24-Jul-23	1007.7	30.7	76	0
25-Jul-23	1006.3	30.7	73	0
26-Jul-23	1002.3	32.0	72	0
27-Jul-23	997.7	32.2	67	6.9
28-Jul-23	996.8	31.5	72	0
29-Jul-23	1002.3	29.8	84	21
30-Jul-23	1005.4	29.2	87	10
31-Jul-23	1006.3	29.1	84	46.5

July 2023

July 2023			
Т	`able II: Wi	nd Speed and Direction	IS
Date	Time	Wind Speed m/s	Direction
		*	
1-Jul-23	0:00	2.0	NE SW
1-Jul-23		2.4	SW
1-Jul-23 1-Jul-23	2:00 3:00	2.4	ENE
1-Jul-23	4:00	2.4	ENE
			ENE
1-Jul-23	5:00	2.4 2.0	
1-Jul-23	6:00 7:00	2.0	SW ENE
1-Jul-23 1-Jul-23	8:00	2.0	ENE
1-Jul-23	9:00	2.9	ENE
		2.4	ENE
1-Jul-23	10:00		
1-Jul-23	11:00	2.9 3.3	ENE
1-Jul-23	12:00		ENE ENE
1-Jul-23 1-Jul-23	13:00	0.6	SW
	14:00	1.1	
1-Jul-23	15:00		ENE
1-Jul-23	16:00	1.1	NNE
1-Jul-23	17:00	0.6	ENE
1-Jul-23	18:00	0.6	ENE
1-Jul-23	19:00	0.6	ENE
1-Jul-23	20:00	0.6	SE
1-Jul-23	21:00	1.1	ENE
1-Jul-23	22:00	0.6	ENE
1-Jul-23	23:00	1.5 2.4	ENE
2-Jul-23	0:00		ENE
2-Jul-23	1:00	2.0	ENE
2-Jul-23	2:00	1.1	ENE
2-Jul-23	3:00	0.6	ENE
2-Jul-23	4:00	2.0	ENE
2-Jul-23	5:00	1.5	ENE
2-Jul-23	6:00	2.4	ENE
2-Jul-23	7:00	2.4	ENE
2-Jul-23	8:00	2.4	ENE
2-Jul-23	9:00		ENE
2-Jul-23	10:00	2.0	ENE
2-Jul-23	11:00	2.0	ENE
2-Jul-23	12:00	2.9	ENE
2-Jul-23	13:00	2.4	ENE
2-Jul-23	14:00	2.4	ENE
2-Jul-23	15:00	2.9	ENE
2-Jul-23	16:00	3.3	ENE
2-Jul-23	17:00	2.0	ENE
2-Jul-23	18:00	2.4	ENE
2-Jul-23	19:00	2.9	ENE
2-Jul-23	20:00	2.0	ENE
2-Jul-23	21:00	2.0	ENE
2-Jul-23	22:00	1.1	ENE
2-Jul-23	23:00	1.1	ENE

July 2023				
Table	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
-		*		
3-Jul-23	0:00	1.1	ENE ENE	
3-Jul-23	1:00 2:00	2.0 2.0	ENE	
3-Jul-23				
3-Jul-23 3-Jul-23	3:00	2.0	ENE	
	4:00 5:00	2.0 1.5	ENE	
3-Jul-23			NNE	
3-Jul-23	6:00	2.4	WSW ESE	
3-Jul-23 3-Jul-23	7:00 8:00	2.4	SW	
		2.4	SW	
3-Jul-23	9:00	2.4		
3-Jul-23	10:00		NE	
3-Jul-23	11:00	2.0	E	
3-Jul-23	12:00	2.9	ENE	
3-Jul-23	13:00	2.4 2.4	SW E	
3-Jul-23	14:00			
3-Jul-23	15:00	2.9 3.3	ESE SW	
3-Jul-23	16:00			
3-Jul-23	17:00	1.5	SW	
3-Jul-23	18:00	1.1	SW	
3-Jul-23	19:00	0.6	SW	
3-Jul-23	20:00	1.1	ESE	
3-Jul-23	21:00	1.1	ESE	
3-Jul-23	22:00	1.1	SW	
3-Jul-23	23:00	1.1	SW	
4-Jul-23	0:00	1.1	ENE ENE	
4-Jul-23	1:00	2.0		
4-Jul-23	2:00	2.0	ENE	
4-Jul-23	3:00	1.1	E	
4-Jul-23	4:00	1.1	ENE	
4-Jul-23	5:00	1.5 1.1	ENE ENE	
4-Jul-23	6:00			
4-Jul-23	7:00 8:00	0.6	SE SW	
4-Jul-23	9:00	1.1	ENE	
4-Jul-23	10:00	1.5	ENE	
4-Jul-23 4-Jul-23		1.5	ESE E	
4-Jul-23 4-Jul-23	11:00 12:00	2.0	ESE	
		1.5	ESE	
4-Jul-23	13:00	1.5	ESE S	
4-Jul-23	14:00		SW	
4-Jul-23	15:00	1.5		
4-Jul-23	16:00	1.1 1.5	SW ENE	
4-Jul-23	17:00			
4-Jul-23 4-Jul-23	18:00	1.5	ENE	
	19:00	1.1	ENE	
4-Jul-23	20:00	1.1	NE	
4-Jul-23	21:00	2.0	ENE	
4-Jul-23	22:00	2.4	ENE	
4-Jul-23	23:00	2.0	ENE	

July 2023				
Т	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
5-Jul-23	0:00	2.4	NNE	
5-Jul-23	1:00	2.4	NNE	
5-Jul-23	2:00	2.9	SSE	
5-Jul-23	3:00	2.9	NNE	
5-Jul-23	4:00	2.4	NE	
5-Jul-23	5:00	2.4	ENE	
5-Jul-23	6:00	2.4	ENE	
5-Jul-23	7:00	2.0	NE	
5-Jul-23	8:00	2.0	SW	
5-Jul-23	9:00	2.4	SW	
5-Jul-23	10:00	2.4	ENE	
5-Jul-23	11:00	1.5	ENE	
5-Jul-23	12:00	1.5	ENE	
5-Jul-23	13:00	1.5	SW	
5-Jul-23	14:00	1.5	ENE	
5-Jul-23	15:00	2.0	ENE	
5-Jul-23	16:00	2.0	ENE	
5-Jul-23	17:00	2.4	ENE	
5-Jul-23	18:00	2.0	ENE	
5-Jul-23	19:00	2.0	ENE	
5-Jul-23	20:00	2.0	ENE	
5-Jul-23	21:00	2.4	SW	
5-Jul-23	22:00	2.0	ENE	
5-Jul-23	23:00	2.0	NNE	
6-Jul-23	0:00	2.9	ENE	
6-Jul-23	1:00	2.4	ENE	
6-Jul-23	2:00	2.9	ENE	
6-Jul-23	3:00	2.9	SE	
6-Jul-23	4:00	2.9	ENE	
6-Jul-23	5:00	2.4	ENE	
6-Jul-23	6:00	2.0	ENE	
6-Jul-23	7:00	2.0	ENE	
6-Jul-23	8:00	2.0	ENE	
6-Jul-23	9:00	2.9	ENE	
6-Jul-23	10:00	2.4	ENE	
6-Jul-23	11:00	1.5	ENE	
6-Jul-23	12:00	3.3	ENE	
6-Jul-23	13:00	2.9	ENE	
6-Jul-23	14:00	1.5	NE	
6-Jul-23	15:00	2.9	SW	
6-Jul-23	16:00 17:00	2.9 3.3	SW ENE	
6-Jul-23 6-Jul-23	17:00	<u> </u>		
6-Jul-23 6-Jul-23	18:00 19:00	2.9	ENE ENE	
6-Jul-23	20:00	2.9	SW	
6-Jul-23	20:00	2.9	ENE	
6-Jul-23	21:00	2.9	ENE	
6-Jul-23	23:00	3.3	ENE	
0-Jul-23	23.00	5.5		

July 2023				
Table	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
7-Jul-23	0:00	3.8	ENE	
7-Jul-23	1:00	2.4	ENE	
7-Jul-23	2:00	2.4	ENE	
7-Jul-23	3:00	2.4	ENE	
7-Jul-23	4:00	2.4	SW	
7-Jul-23	5:00	2.4	ENE	
7-Jul-23	6:00	2.4	NNE	
7-Jul-23	7:00	2.9	ENE	
7-Jul-23	8:00	2.4	ENE	
7-Jul-23	9:00	1.5	ENE	
7-Jul-23	10:00	2.0	SE	
7-Jul-23	11:00	2.0	ENE	
7-Jul-23	12:00	1.5	ENE	
7-Jul-23	13:00	1.5	ENE	
7-Jul-23	14:00	2.0	ENE	
7-Jul-23	15:00	2.0	ENE	
7-Jul-23	16:00	2.0	ENE	
7-Jul-23	17:00	2.0	ENE	
7-Jul-23	18:00	1.5	NE	
7-Jul-23	19:00	2.0	SW	
7-Jul-23	20:00	1.5	SW	
7-Jul-23	21:00	1.1	ENE	
7-Jul-23	22:00	1.1	ENE	
7-Jul-23	23:00	1.1	ENE	
8-Jul-23	0:00	1.1	SW	
8-Jul-23	1:00	0.6	ENE	
8-Jul-23	2:00	1.1	ENE	
8-Jul-23	3:00	1.5	ENE	
8-Jul-23	4:00	1.1	ENE	
8-Jul-23	5:00	2.0	ENE	
8-Jul-23	6:00	1.5	ENE	
8-Jul-23	7:00	2.4	ENE	
8-Jul-23	8:00	2.4	SW	
8-Jul-23	9:00	2.4	ENE	
8-Jul-23	10:00	2.4	NNE	
8-Jul-23	11:00	2.0	ENE	
8-Jul-23	12:00	2.0	ENE	
8-Jul-23	13:00	2.9	ENE	
8-Jul-23	14:00	2.4	SE	
8-Jul-23	15:00	2.4	ENE	
8-Jul-23	16:00	2.9	ENE	
8-Jul-23	17:00	3.3	ENE	
8-Jul-23	18:00	0.2	ENE	
8-Jul-23	19:00	1.1	ENE	
8-Jul-23	20:00	0.6	ENE	
8-Jul-23	21:00	1.1	ENE	
8-Jul-23	22:00	1.1	ENE	
8-Jul-23	23:00	1.1	ENE	

July 2023				
Т	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
9-Jul-23	0:00	1.1	ENE	
9-Jul-23 9-Jul-23	1:00	0.6	ENE	
9-Jul-23 9-Jul-23	2:00	1.1	ENE	
9-Jul-23 9-Jul-23	3:00	0.2	ENE	
9-Jul-23 9-Jul-23	4:00	0.6	ENE	
9-Jul-23	5:00	0.6	ENE	
9-Jul-23	6:00	1.1	ENE	
9-Jul-23	7:00	0.2	ENE	
9-Jul-23	8:00	0.2	ENE	
9-Jul-23	9:00	1.1	ENE	
9-Jul-23	10:00	1.5	ENE	
9-Jul-23	11:00	2.4	ENE	
9-Jul-23 9-Jul-23	12:00	2.4	ENE	
9-Jul-23 9-Jul-23	12:00	1.1	ENE	
9-Jul-23 9-Jul-23	13:00	3.3	ENE	
9-Jul-23 9-Jul-23	15:00	2.9	ENE	
9-Jul-23 9-Jul-23	16:00	2.9	ENE	
	17:00	2.4	ENE	
9-Jul-23 9-Jul-23	18:00	2.4	ENE	
9-Jul-23 9-Jul-23	19:00	1.1	ENE	
9-Jul-23	20:00	0.6	SW	
9-Jul-23 9-Jul-23	20:00	0.6	NNE	
9-Jul-23 9-Jul-23	22:00	1.5	ENE	
9-Jul-23 9-Jul-23	23:00	1.5	ENE	
10-Jul-23	0:00	1.5	ENE	
10-Jul-23	1:00	1.5	ENE	
10-Jul-23	2:00	1.5	NE	
10-Jul-23	3:00	1.5	ENE	
10-Jul-23	4:00	1.1	ENE	
10-Jul-23	5:00	1.5	ENE	
10-Jul-23	6:00	1.5	ENE	
10-Jul-23	7:00	2.0	ENE	
10-Jul-23	8:00	2.9	ENE	
10-Jul-23	9:00	3.3	ENE	
10-Jul-23	10:00	3.3	ENE	
10-Jul-23	11:00	2.9	ENE	
10-Jul-23	12:00	2.0	ENE	
10-Jul-23	13:00	1.5	SE	
10-Jul-23	14:00	2.9	ENE	
10-Jul-23	15:00	2.4	ENE	
10-Jul-23	16:00	2.9	ENE	
10-Jul-23	17:00	3.3	ENE	
10-Jul-23	18:00	2.4	ENE	
10-Jul-23	19:00	1.5	ENE	
10 Jul 23	20:00	2.4	ENE	
10-Jul-23	21:00	2.0	ENE	
10-Jul-23	22:00	2.4	ENE	
10 Jul 23	23:00	3.3	ENE	
10 301-23	20.00	5.5		

July 2023				
Table	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
11-Jul-23	0:00	3.3	ENE	
11-Jul-23	1:00	3.8	ENE	
11-Jul-23	2:00	2.9	ENE	
11-Jul-23	3:00	2.4	ENE	
11-Jul-23	4:00	2.4	ENE	
11-Jul-23	5:00	2.4	ENE	
11-Jul-23	6:00	1.5	ENE	
11-Jul-23	7:00	1.5	ENE	
11-Jul-23	8:00	2.4	ENE	
11-Jul-23	9:00	2.9	ENE	
11-Jul-23	10:00	1.5	Е	
11-Jul-23	11:00	1.5	ESE	
11-Jul-23	12:00	1.5	SW	
11-Jul-23	13:00	2.0	SW	
11-Jul-23	14:00	1.5	SW	
11-Jul-23	15:00	1.5	SW	
11-Jul-23	16:00	2.0	SSW	
11-Jul-23	17:00	1.5	SW	
11-Jul-23	18:00	1.1	ENE	
11-Jul-23	19:00	1.1	NE	
11-Jul-23	20:00	1.1	SSW	
11-Jul-23	21:00	1.5	SSW	
11-Jul-23	22:00	2.4	S	
11-Jul-23	23:00	2.4	ENE	
12-Jul-23	0:00	2.4	ENE	
12-Jul-23	1:00	2.4	ENE	
12-Jul-23	2:00	2.9	ENE	
12-Jul-23	3:00	2.9	ENE	
12-Jul-23	4:00	2.0	SW	
12-Jul-23	5:00	1.5	SW	
12-Jul-23	6:00	2.4	SW	
12-Jul-23	7:00	2.0	SW	
12-Jul-23	8:00	2.0	SW	
12-Jul-23	9:00	2.0	SSW	
12-Jul-23	10:00	1.1	SSW	
12-Jul-23	11:00	1.5	SW	
12-Jul-23	12:00	2.0	SW	
12-Jul-23	13:00	2.0	SW	
12-Jul-23	14:00	1.5	SW	
12-Jul-23	15:00	1.5	SW	
12-Jul-23	16:00	1.5	WSW	
12-Jul-23	17:00	1.5	ENE	
12-Jul-23	18:00	1.1	SSE	
12-Jul-23	19:00	1.1	ENE	
12-Jul-23	20:00	0.6	ENE	
12-Jul-23	21:00	1.1	ENE	
12-Jul-23	22:00	2.0	ENE	
12-Jul-23	23:00	1.5	ENE	

July 2023			
Т	able II: Wi	nd Speed and Direction	IS
Date	Time	Wind Speed m/s	Direction
13-Jul-23	0:00	2.4	ENE
13-Jul-23	1:00	2.4	ENE
13-Jul-23	2:00	2.4	ENE
13-Jul-23	3:00	2.4	ENE
13-Jul-23	4:00	2.0	NE
13-Jul-23	5:00	2.0	NE
13-Jul-23	6:00	2.9	NNE
13-Jul-23	7:00	2.4	NE
13-Jul-23	8:00	2.4	ENE
13-Jul-23	9:00	2.9	ENE
13-Jul-23	10:00	3.3	SW
13-Jul-23	11:00	1.5	ENE
13-Jul-23	12:00	1.5	ENE
13-Jul-23	13:00	1.1	ENE
13-Jul-23	14:00	1.5	SW
13-Jul-23	15:00	2.0	ENE
13-Jul-23	16:00	3.8	ENE
13-Jul-23	17:00	3.3	ENE
13-Jul-23	18:00	3.3	ENE
13-Jul-23	19:00	2.9	ENE
13-Jul-23	20:00	1.5	ENE
13-Jul-23	21:00	1.5	ENE
13-Jul-23	22:00	1.1	ENE
13-Jul-23	23:00	1.5	ENE
14-Jul-23	0:00	1.5	ENE
14-Jul-23	1:00	1.1	ENE
14-Jul-23	2:00	0.6	ENE
14-Jul-23	3:00	1.5	NE
14-Jul-23	4:00	1.5	ENE
14-Jul-23	5:00	1.1	ENE
14-Jul-23	6:00	0.6	ENE
14-Jul-23	7:00	1.1	NNE
14-Jul-23	8:00	0.6	NNE
14-Jul-23	9:00	1.1	SSE
14-Jul-23	10:00	1.5	NNE
14-Jul-23	11:00	2.4	NE
14-Jul-23	12:00	2.0	ENE
14-Jul-23	13:00	2.0	ENE
14-Jul-23	14:00	2.0	SW
14-Jul-23	15:00	1.5	SW
14-Jul-23	16:00	2.0	SW ENE
14-Jul-23	17:00	1.5	SW
14-Jul-23 14-Jul-23	18:00 19:00	1.5	SW
14-Jul-23 14-Jul-23	20:00	1.5	SW
14-Jul-23 14-Jul-23	20:00	2.0	SW
14-Jul-23 14-Jul-23	21:00	1.5	SW
14-Jul-23	23:00	2.0	SW
1 4 -Jul-23	23.00	2.0	5 11

	Jul	ly 2023	
Tabl		Speed and Directions	5
Date	Time	Wind Speed m/s	Direction
15-Jul-23		•	SW
15-Jul-23	0:00	<u>1.1</u> 1.5	SW
15-Jul-23	2:00	1.1	SW
15-Jul-23	3:00	1.1	SW
15-Jul-23		1.1	SSW
	4:00 5:00	1.1	
15-Jul-23 15-Jul-23	6:00	0.6	SW ENE
15-Jul-23		0.0	NE
15-Jul-23	7:00 8:00	1.1	SSW
15-Jul-23	9:00	1.1	SSW
	10:00	1.1	S
15-Jul-23			
15-Jul-23	11:00	1.1	ENE
15-Jul-23	12:00	1.1	ENE
15-Jul-23	13:00	3.8	ENE
15-Jul-23	14:00	2.4 1.5	ENE
15-Jul-23	15:00		ENE
15-Jul-23	16:00	2.4	SW
15-Jul-23	17:00	2.0 2.4	SW SW
15-Jul-23	18:00		
15-Jul-23	19:00	2.9	SW
15-Jul-23	20:00	2.0	SW
15-Jul-23	21:00	1.1	SSW
15-Jul-23	22:00	1.1	SSW
15-Jul-23	23:00	1.5 1.5	SW
16-Jul-23	0:00		SW
16-Jul-23	1:00	1.1	SW
16-Jul-23	2:00	1.1	SW
16-Jul-23	3:00	1.5	SW
16-Jul-23	4:00	0.6	WSW
16-Jul-23	5:00	1.1	ENE
16-Jul-23	6:00	0.6	SSE
16-Jul-23	7:00	1.1	ENE
16-Jul-23	8:00	1.1	ENE
16-Jul-23	9:00	1.1	ENE
16-Jul-23	10:00	2.4	ENE
16-Jul-23	11:00	4.2	ENE
16-Jul-23	12:00	4.7	ENE
16-Jul-23	13:00	4.2	ENE
16-Jul-23	14:00	3.8	ENE
16-Jul-23	15:00	2.9 1.5	ENE
16-Jul-23	16:00	2.4	ENE
16-Jul-23	17:00		SW
16-Jul-23	18:00	3.8	SW
16-Jul-23	19:00	4.2	SW
16-Jul-23	20:00	3.1	SW
16-Jul-23	21:00	1.7	SW
16-Jul-23	22:00	1.7	SW
16-Jul-23	23:00	1.7	SW

July 2023				
Т	Table II: Wind Speed and Directions			
Date	Time	Wind Speed m/s	Direction	
17-Jul-23	0:00	5.6	SW	
17-Jul-23	1:00	3.1	SW	
17-Jul-23	2:00	0.6	SW	
17-Jul-23	3:00	4.2	SW	
17-Jul-23	4:00	5.6	SW	
17-Jul-23	5:00	1.7	SW	
17-Jul-23	6:00	3.1	SW	
17-Jul-23	7:00	4.2	SW	
17-Jul-23	8:00	3.1	SW	
17-Jul-23	9:00	3.1	SW	
17-Jul-23	10:00	3.1	SW	
17-Jul-23	11:00	4.2	SW	
17-Jul-23	12:00	4.2	SW	
17-Jul-23	13:00	6.7	SW	
17-Jul-23	14:00	4.2	SW	
17-Jul-23	15:00	3.1	NE	
17-Jul-23	16:00	1.7	SW	
17-Jul-23	17:00	4.2	SW	
17-Jul-23	18:00	4.2	SW	
17-Jul-23	19:00	4.2	SW	
17-Jul-23	20:00	1.7	NNE	
17-Jul-23	21:00	1.7	NNE	
17-Jul-23	22:00	1.7	SW	
17-Jul-23	23:00	3.1	SW	
18-Jul-23	0:00	1.7	SW	
18-Jul-23	1:00	3.1	SW	
18-Jul-23	2:00	3.1	SW	
18-Jul-23	3:00	3.1	SW	
18-Jul-23	4:00	1.7	SSW	
18-Jul-23	5:00	1.7	SW	
18-Jul-23	6:00	3.1	SW	
18-Jul-23	7:00	3.1	E	
18-Jul-23	8:00	1.7	SW	
18-Jul-23	9:00	3.1	SW	
18-Jul-23	10:00	4.2	SW	
18-Jul-23	11:00	3.1	SW	
18-Jul-23	12:00	4.2	SW	
18-Jul-23	13:00	5.6	SW	
18-Jul-23	14:00	1.1	ENE	
18-Jul-23	15:00	0.6	ENE	
18-Jul-23	16:00	0.6	SW	
18-Jul-23	17:00	1.1	SW	
18-Jul-23	18:00	1.5	ENE	
18-Jul-23	19:00	0.6	ENE	
18-Jul-23	20:00	1.5	ENE	
18-Jul-23	21:00	1.1	SW	
18-Jul-23	22:00	0.6	SW	
18-Jul-23	23:00	0.6	SW	

July 2023								
Tabl		bpeed and Directions	5					
Date	Time	Wind Speed m/s	Direction					
19-Jul-23	0:00	0.6	SW					
19-Jul-23	1:00	1.1	SW					
19-Jul-23	2:00	0.2	SW					
19-Jul-23	3:00	0.5	ENE					
19-Jul-23	4:00	1.0	ENE					
19-Jul-23	5:00	0.4	ENE					
19-Jul-23	6:00	0.2	NE					
19-Jul-23	7:00	1.1	ENE					
19-Jul-23	8:00	0.6	NNE					
19-Jul-23	9:00	1.1	SW					
19-Jul-23	10:00	1.5	SW					
19-Jul-23	11:00	0.6	NNE					
19-Jul-23	12:00	1.1	ENE					
19-Jul-23	12:00	2.0	SW					
19-Jul-23	14:00	2.4	SW					
19-Jul-23	15:00	2.4	SW					
19-Jul-23	16:00	2.4	SW					
19-Jul-23	17:00	2.0	SW					
19-Jul-23	18:00	2.0	SW					
19-Jul-23	19:00	1.1	SW					
19-Jul-23	20:00	1.1	ENE					
19-Jul-23	20:00	2.0	ENE					
19-Jul-23	21:00	1.1	ENE					
19-Jul-23	23:00	1.1	NE					
20-Jul-23	0:00	0.6	ENE					
20-Jul-23	1:00	0.0	ENE					
20-Jul-23	2:00	0.6	ENE					
20-Jul-23	3:00	0.6	NNE					
20-Jul-23	4:00	0.6	NNE					
20-Jul-23	5:00	1.1	SSE					
20-Jul-23	6:00	1.5	NNE					
20-Jul-23	7:00	1.1	NE					
20-Jul-23	8:00	1.1	SW					
20-Jul-23	9:00	1.1	SW					
20-Jul-23	10:00	1.5	ENE					
20-Jul-23	11:00	1.5	ENE					
20-Jul-23	12:00	1.1	ENE					
20-Jul-23	12:00	1.1	SW					
20-Jul-23	13:00	2.0	ENE					
20-Jul-23 20-Jul-23	15:00	2.0	ENE					
	15:00	3.3	ENE					
20-Jul-23 20-Jul-23	17:00	3.3	ENE					
20-Jul-23	17:00	3.3	ENE					
20-Jul-23	19:00	2.9	ENE					
20-Jul-23	20:00	1.1	ENE					
20-Jul-23	21:00	2.0	SW ENE					
20-Jul-23	22:00 23:00	0.6	ENE					
20-Jul-23	25:00	0.0	NNE					

July 2023							
Т	able II: Wi	nd Speed and Direction	S				
Date	Time	Wind Speed m/s	Direction				
21-Jul-23	0:00	0.6	ENE				
21-Jul-23 21-Jul-23	1:00	0.6	ENE				
21-Jul-23	2:00	0.6	ENE				
21-Jul-23 21-Jul-23	3:00	0.6	SE				
21-Jul-23 21-Jul-23	4:00	1.1	ENE				
21-Jul-23	5:00	1.5	ENE				
21-Jul-23	6:00	1.5	ENE				
21-Jul-23	7:00	1.5	ENE				
21-Jul-23	8:00	1.5	ENE				
21-Jul-23	9:00	1.5	ENE				
21-Jul-23	10:00	2.0	ENE				
21-Jul-23	11:00	2.4	ENE				
21-Jul-23 21-Jul-23	12:00	3.3	ENE				
21-Jul-23 21-Jul-23	12:00	2.9	ENE				
21-Jul-23 21-Jul-23	13:00	3.3	ENE				
21-Jul-23 21-Jul-23	15:00	4.7	ENE				
21-Jul-23	16:00	4.2	ENE				
21-Jul-23	17:00	4.2	ENE				
21-Jul-23 21-Jul-23	18:00	4.2	ENE				
21-Jul-23	19:00	2.9	ENE				
21-Jul-23 21-Jul-23	20:00	2.9	ENE				
21-Jul-23	20:00	2.9	ENE				
21-Jul-23	22:00	2.9	ENE				
21-Jul-23	23:00	1.5	ENE				
21-Jul-23	0:00	2.0	ENE				
22-Jul-23	1:00	1.5	ENE				
22-Jul-23	2:00	1.1	ENE				
22-Jul-23	3:00	1.1	ENE				
22-Jul-23	4:00	1.1	ENE				
22-Jul-23	5:00	1.1	ENE				
22-Jul-23	6:00	0.6	ENE				
22-Jul-23	7:00	1.1	ENE				
22-Jul-23	8:00	1.1	ENE				
22-Jul-23	9:00	2.4	ENE				
22-Jul-23	10:00	3.3	ENE				
22-Jul-23	11:00	1.5	SW				
22-Jul-23	12:00	2.9	SW				
22-Jul-23	13:00	3.3	SW				
22-Jul-23	14:00	3.3	SW				
22-Jul-23	15:00	2.9	SSW				
22-Jul-23	16:00	2.4	SW				
22-Jul-23	17:00	2.9	ENE				
22-Jul-23	18:00	2.0	NE				
22-Jul-23	19:00	2.0	SSW				
22-Jul-23	20:00	2.4	SSW				
22-Jul-23	21:00	1.5	S				
22-Jul-23	22:00	1.5	ENE				
22-Jul-23	23:00	1.5	ENE				
22 8 01 23	-2.00	1.0					

	Jul	y 2023	
Tabl		speed and Direction	s
Date	Time	Wind Speed m/s	Direction
23-Jul-23	0:00	1.5	ENE
23-Jul-23	1:00	1.1	ENE
23-Jul-23	2:00		ENE
23-Jul-23	3:00	1.1	SW
23-Jul-23	4:00	1.1	SW
23-Jul-23	5:00	0.6	SW
23-Jul-23	6:00	0.6	SW
23-Jul-23	7:00	0.6	SW
23-Jul-23	8:00	1.5	SSW
23-Jul-23	9:00	1.5	SSW
23-Jul-23	10:00	1.1	SW
23-Jul-23	11:00	1.5	SW
23-Jul-23	12:00	1.1	SW
23-Jul-23	13:00	1.1	SW
23-Jul-23	14:00	1.5	SW
23-Jul-23	15:00	1.5	WSW
23-Jul-23	16:00	1.5	ENE
23-Jul-23	17:00	1.1	SSE
23-Jul-23	18:00	1.5	ENE
23-Jul-23	19:00	1.1	ENE
23-Jul-23	20:00	1.1	ENE
23-Jul-23	21:00	0.6	ENE
23-Jul-23	22:00	1.5	ENE
23-Jul-23	23:00	2.0	ENE
24-Jul-23	0:00	1.1	ENE
24-Jul-23	1:00	1.1	ENE
24-Jul-23	2:00	1.1	ENE
24-Jul-23	3:00	0.6	SW
24-Jul-23	4:00	0.6	SW
24-Jul-23	5:00	1.1	SW
24-Jul-23	6:00	1.5	SW
24-Jul-23	7:00	1.5	SW
24-Jul-23	8:00	1.5	SW
24-Jul-23	9:00	1.1	SW
24-Jul-23	10:00	1.5	SW
24-Jul-23	11:00	3.3	SW
24-Jul-23	12:00	2.9	SW
24-Jul-23	13:00	3.3	SW
24-Jul-23	14:00	2.4	SW
24-Jul-23	15:00	2.9	SW
24-Jul-23	16:00	2.4	SW
24-Jul-23	17:00	2.4	SW
24-Jul-23	18:00	2.9	SW
24-Jul-23	19:00	1.1	SW
24-Jul-23	20:00	1.5	ENE
24-Jul-23	21:00	1.5	ENE
24-Jul-23	22:00	1.1	ENE
24-Jul-23	23:00	1.1	SW

July 2023									
Г	Table II: Wind Speed and Directions								
Date	Time	Wind Speed m/s	Direction						
25-Jul-23	0:00	2.0	SW						
25-Jul-23	1:00	1.1	SW						
25-Jul-23	2:00	1.1	SW						
25-Jul-23	3:00	1.1	SW						
25-Jul-23	4:00	1.1	SW						
25-Jul-23	5:00	1.1	SW						
25-Jul-23	6:00	1.1	SW						
25-Jul-23	7:00	2.0	SW						
25-Jul-23	8:00	2.0	SW						
25-Jul-23	9:00	2.0	SW						
25-Jul-23	10:00	2.4	SW						
25-Jul-23	11:00	1.1	ESE						
25-Jul-23	12:00	1.5	ESE						
25-Jul-23	13:00	1.5	ESE						
25-Jul-23	14:00	2.0	SW						
25-Jul-23	15:00	2.4	SW						
25-Jul-23	16:00	2.9	SW						
25-Jul-23	17:00	2.9	SW						
25-Jul-23	18:00	3.3	SW						
25-Jul-23	19:00	2.9	SW						
25-Jul-23	20:00	1.1	ENE						
25-Jul-23	21:00	1.1	ENE						
25-Jul-23	22:00	1.5	ENE						
25-Jul-23	23:00	1.1	ENE						
26-Jul-23	0:00	1.5	NE						
26-Jul-23	1:00	0.6	ENE						
26-Jul-23	2:00	1.1	ENE						
26-Jul-23	3:00	1.1	ENE						
26-Jul-23	4:00	0.6	NNE						
26-Jul-23	5:00	1.5	NNE						
26-Jul-23	6:00	1.1	SSE						
26-Jul-23	7:00	1.1	NNE						
26-Jul-23	8:00	1.5	NE						
26-Jul-23	9:00	2.4	SW						
26-Jul-23	10:00	0.6	ENE						
26-Jul-23	11:00	0.6	NE						
26-Jul-23	12:00	0.6	ENE						
26-Jul-23	13:00	1.1	ENE						
26-Jul-23	14:00	2.0	ENE						
26-Jul-23	15:00	1.1	SW						
26-Jul-23	16:00	0.6	E						
26-Jul-23	17:00	1.1	ENE						
26-Jul-23	18:00	2.9	ENE						
26-Jul-23	19:00	1.5	ENE						
26-Jul-23	20:00	1.5	ENE						
26-Jul-23	21:00	1.1	ENE						
26-Jul-23	22:00		SSW						
26-Jul-23	23:00	1.5	NNE						

July 2023								
Table	e II: Wind S	Speed and Directions	5					
Date	Time	Wind Speed m/s	Direction					
27-Jul-23	0:00	1.5	NNE					
27-Jul-23	1:00	1.5	NNE					
27-Jul-23	2:00	2.0	NNE					
27-Jul-23	3:00	2.0	NNE					
27-Jul-23	4:00	1.5	NNE					
27-Jul-23	5:00	2.0	NE					
27-Jul-23	6:00	2.0	NNE					
27-Jul-23	7:00	2.0	NNE					
27-Jul-23	8:00	2.4	NNE					
27-Jul-23	9:00	2.4	NNE					
27-Jul-23	10:00	2.4	NNE					
27-Jul-23	11:00	2.0	NNE					
27-Jul-23	12:00	2.4	NNE					
27-Jul-23	13:00	2.0	NE					
27-Jul-23	14:00	2.0	NNE					
27-Jul-23	15:00	2.4	NNE					
27-Jul-23	16:00	2.4	NNE					
27-Jul-23	17:00	2.9	NNE					
27-Jul-23	18:00	2.9	NE					
27-Jul-23	19:00	2.9	NE					
27-Jul-23	20:00	2.4	NNE					
27-Jul-23	21:00	2.9	NNE					
27-Jul-23	22:00	2.9	NNE					
27-Jul-23	23:00	2.4	NNE					
28-Jul-23	0:00	2.0	NE					
28-Jul-23	1:00	1.5	NNE					
28-Jul-23	2:00	2.0	NNE					
28-Jul-23	3:00	1.5	SSE					
28-Jul-23	4:00	2.4	NNE					
28-Jul-23	5:00	2.4	NNE					
28-Jul-23	6:00	2.4	NNE					
28-Jul-23	7:00	2.4	SW					
28-Jul-23	8:00	2.0	SW					
28-Jul-23	9:00	2.0	SW					
28-Jul-23	10:00	2.9	SW					
28-Jul-23	11:00	2.4	SSW					
28-Jul-23	12:00	2.4	SW					
28-Jul-23	13:00	2.9	ENE					
28-Jul-23	14:00	3.3	NE					
28-Jul-23	15:00	3.3	SSW					
28-Jul-23	16:00	3.8	SSW					
28-Jul-23	17:00	2.4	S					
28-Jul-23	18:00	3.3	ENE					
28-Jul-23	19:00	2.9	ENE					
28-Jul-23	20:00	2.9	ENE					
28-Jul-23	21:00	2.4	ENE					
28-Jul-23	22:00	2.9	ENE					
28-Jul-23	23:00	2.4	SW					

	July 2023								
Т	able II: Wi	nd Speed and Direction	IS						
Date	Time	Wind Speed m/s	Direction						
29-Jul-23	0:00	2.4	SW						
29-Jul-23	1:00	2.0	SW						
29-Jul-23	2:00	2.0	SW						
29-Jul-23	3:00	2.4	SW						
29-Jul-23	4:00	2.9	SSW						
29-Jul-23	5:00	2.9	SSW						
29-Jul-23	6:00	2.9	SW						
29-Jul-23	7:00	2.9	SW						
29-Jul-23	8:00	3.8	SW						
29-Jul-23	9:00	2.4	SW						
29-Jul-23	10:00	2.4	SW						
29-Jul-23	11:00	2.9	WSW						
29-Jul-23	12:00	2.4	ENE						
29-Jul-23	13:00	0.2	SSE						
29-Jul-23	14:00	2.0	ENE						
29-Jul-23	15:00	2.0	ENE						
29-Jul-23	16:00	2.4	ENE						
29-Jul-23	17:00	2.4	ENE						
29-Jul-23	18:00	2.9	ENE						
29-Jul-23	19:00	2.9	ENE						
29-Jul-23	20:00	2.9	ENE						
29-Jul-23	21:00	2.4	ENE						
29-Jul-23	22:00	2.9	ENE						
29-Jul-23	23:00	2.9	NNE						
30-Jul-23	0:00	2.4	NNE						
30-Jul-23	1:00	2.0	NNE						
30-Jul-23	2:00	1.5	NNE						
30-Jul-23	3:00	2.0	Ν						
30-Jul-23	4:00	1.5	NNE						
30-Jul-23	5:00	2.4	NNE						
30-Jul-23	6:00	2.4	NE						
30-Jul-23	7:00	2.4	ENE						
30-Jul-23	8:00	2.4	NE						
30-Jul-23	9:00	2.0	NNE						
30-Jul-23	10:00	2.0	NNE						
30-Jul-23	11:00	2.9	NE						
30-Jul-23	12:00	2.4	WNW						
30-Jul-23	13:00	2.4	NE						
30-Jul-23	14:00	0.6	NE						
30-Jul-23	15:00	1.1	NE						
30-Jul-23	16:00	0.6	NE						
30-Jul-23	17:00	0.6	NNE						
30-Jul-23	18:00	0.6	NNE						
30-Jul-23	19:00	2.0	NNE						
30-Jul-23	20:00	1.5	NE						
30-Jul-23	21:00	2.4	ENE						
30-Jul-23	22:00	2.4	NNE						
30-Jul-23	23:00	2.4	ENE						

July 2023										
Tabl	Table II: Wind Speed and Directions									
Date	Time	Wind Speed m/s	Direction							
31-Jul-23	0:00	2.4	NE							
31-Jul-23	1:00	2.0	SW							
31-Jul-23	2:00	2.0	SW							
31-Jul-23	3:00	2.9	SW							
31-Jul-23	4:00	2.4	SW							
31-Jul-23	5:00	2.4	SSW							
31-Jul-23	6:00	2.9	SW							
31-Jul-23	7:00	3.3	ENE							
31-Jul-23	8:00	0.6	NE							
31-Jul-23	9:00	0.6	SSW							
31-Jul-23	10:00	2.0	SSW							
31-Jul-23	11:00	1.5	S							
31-Jul-23	12:00	1.5	ENE							
31-Jul-23	13:00	2.4	ENE							
31-Jul-23	14:00	2.4	ENE							
31-Jul-23	15:00	2.4	ENE							
31-Jul-23	16:00	1.5	ENE							
31-Jul-23	17:00	1.5	SW							
31-Jul-23	18:00	1.5	SW							
31-Jul-23	19:00	1.5	SW							
31-Jul-23	20:00	1.5	SW							
31-Jul-23	21:00	2.4	SW							
31-Jul-23	22:00	2.4	SSW							
31-Jul-23	23:00	2.4	SSW							

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 July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Ju
				1-hr TSP x 3 [AM2]		
				NI-: [N/2(A) N/4 P		
				Noise [M3(A), M4 &		
			24-hr TSP [AM2(A)]	M5(C)]		
9-Jul	10-Jul	11-Jul		13-Jul	14-Jul	15-Ju
			1-hr TSP x 3 [AM2]			
			Noise [M3(A), M4 &			
16 7 1	17.1.1	24-hr TSP [AM2(A)]		20 J 1	01 7 1	22.1.1
16-Jul	17-Jul			20-Jul	21-Jul	22-Jul
		1-hr TSP x 3 [AM2]				
		Noise [M3(A), M4 &				
	24-hr TSP [AM2(A)]	M5(C)]				24-hr TSP [AM2(A)]
23-Jul		25-Jul	26 Jul	27-Jul	20 Jul	24-III ISF [AM2(A)] 29-Ju
23-Jul		25-Jul	26-Jul	27-Jul	28-Jul	29-Ju
	1-hr TSP x 3 [AM2]				1-hr TSP x 3 [AM2]	
	Noise [M3(A), M4 &					
	M5(C)]			24-hr TSP [AM2(A)]		
30-Jul	31-Jul					
<u> </u>	51-Jul					

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 August 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug
				1-hr TSP x 3 [AM2]		
				Noise [M3(A), M4 &		
			24-hr TSP [AM2(A)]	M5(C)]		
6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug
			1-hr TSP x 3 [AM2]			
			Notes IN(2(A)) N/A P			
			Noise [M3(A), M4 &			
13-Aug	14-Aug	24-hr TSP [AM2(A)]	M5(C)] 16-Aug	17-Aug	18-Aug	10 4
13-Aug	14-Aug	15-Aug 1-hr TSP x 3 [AM2]	10-Aug	17-Aug	18-Aug	19-Aug
		1-111 15F X 5 [AW12]				
		Noise [M3(A), M4 &				
	24-hr TSP [AM2(A)]	M5(C)]				24-hr TSP [AM2(A)]
20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug
	1-hr TSP x 3 [AM2]	. 0	0		1-hr TSP x 3 [AM2]	- · · C
	Noise [M3(A), M4 &					
	M5(C)]			24-hr TSP [AM2(A)]		
27-Aug	28-Aug	29-Aug	30-Aug	31-Aug		
				1-hr TSP x 3 [AM2]		
				Noise [M3(A), M4 &		
			24-hr TSP [AM2(A)]	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

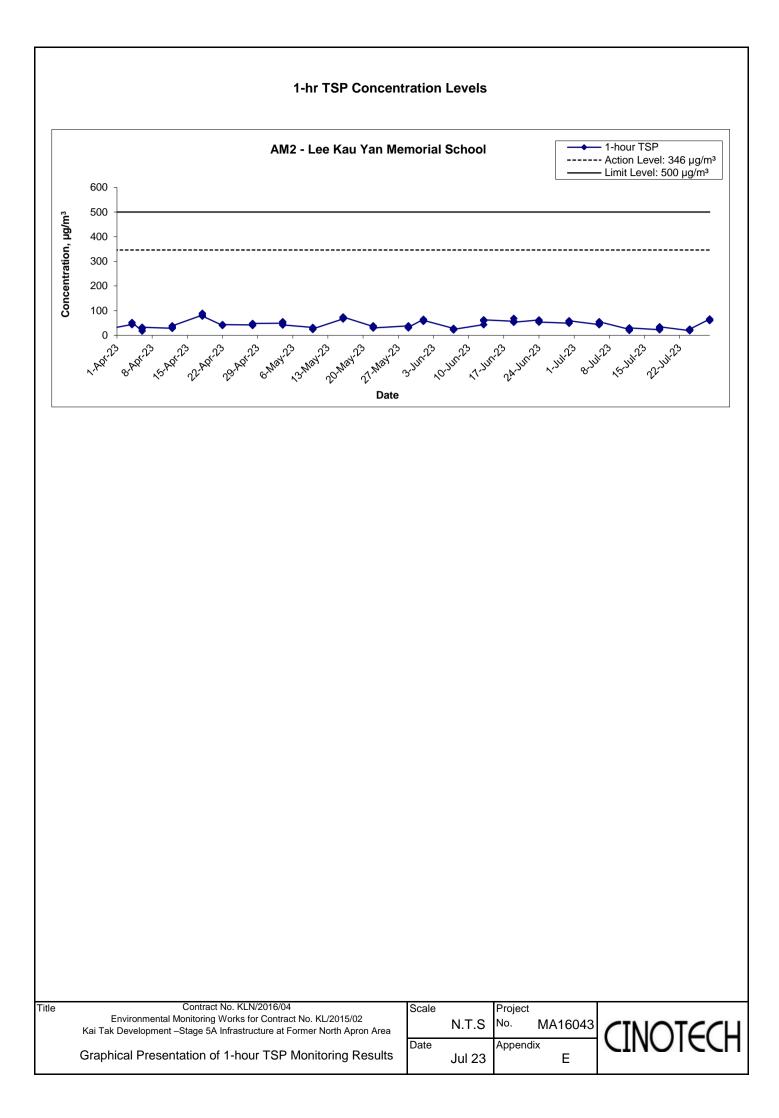
Noise Monitoring Station

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

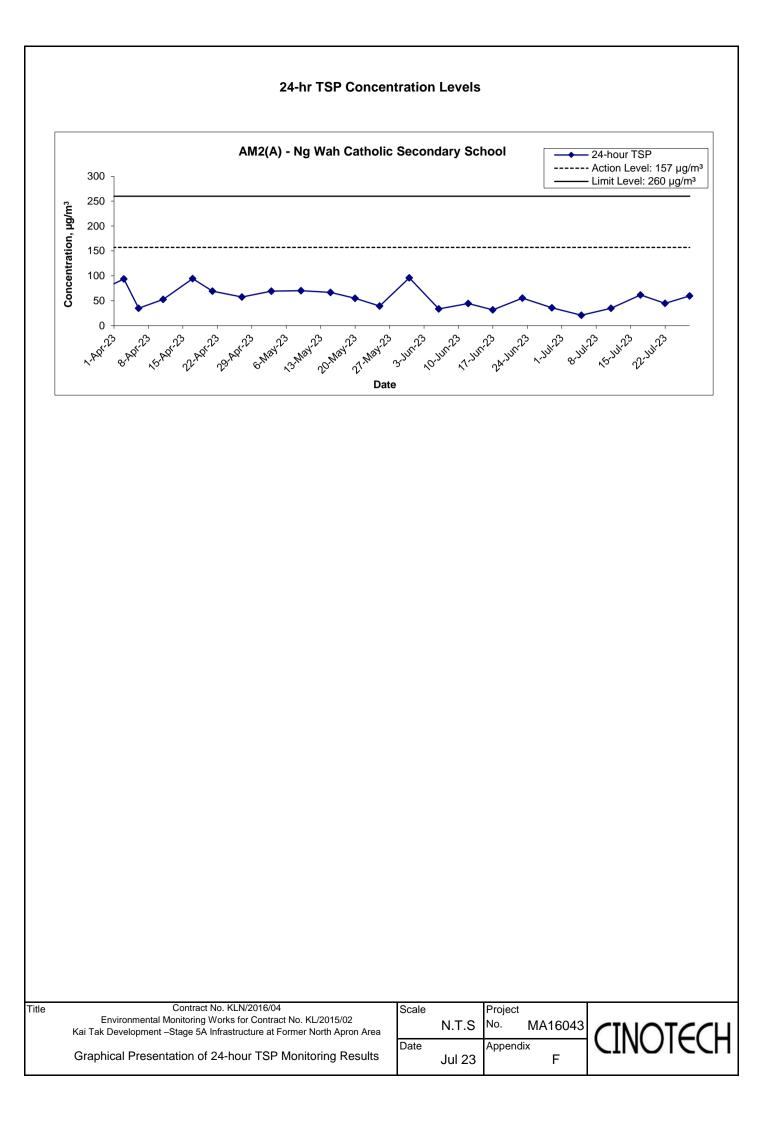
Location AM2 -	Lee Kau Yai	n Memorial Schoo	
Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Jul-23	9:00	Sunny	43.7
6-Jul-23	10:00	Sunny	47.5
6-Jul-23	11:00	Sunny	55.1
12-Jul-23	12:00	Sunny	24.0
12-Jul-23	13:00	Sunny	20.0
12-Jul-23	14:00	Sunny	30.0
18-Jul-23	9:00	Cloudy	22.8
18-Jul-23	10:00	Cloudy	28.5
18-Jul-23	11:00	Cloudy	34.2
24-Jul-23	9:00	Sunny	19.0
24-Jul-23	10:00	Sunny	20.9
24-Jul-23	11:00	Sunny	24.7
28-Jul-23	9:24	Sunny	66.0
28-Jul-23	10:24	Sunny	62.0
28-Jul-23	11:24	Sunny	60.0
		Average	37.2
		Maximum	66.0
		Minimum	19.0



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 ³ /min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
5-Jul-23	Sunny	303.4	757.5	3.3731	3.4097	0.0366	10977.9	11001.9	24.0	1.21	1.22	1.22	1749.8	20.9
11-Jul-23	Fine	303.7	757.2	3.3614	3.4222	0.0608	11001.9	11025.9	24.0	1.22	1.22	1.22	1751.6	34.7
17-Jul-23	Rainy	301.8	751.7	3.3155	3.4234	0.1078	11025.9	11049.9	24.0	1.21	1.22	1.22	1750.9	61.6
22-Jul-23	Sunny	303.6	758.6	3.3056	3.3840	0.0784	11049.9	11073.9	24.0	1.22	1.22	1.22	1753.1	44.7
27-Jul-23	Sunny	304.9	748.9	3.4118	3.5159	0.1041	11073.9	11097.9	24.0	1.21	1.21	1.21	1741.3	59.8
													Min	20.9
													Max	61.6
													Average	44.3



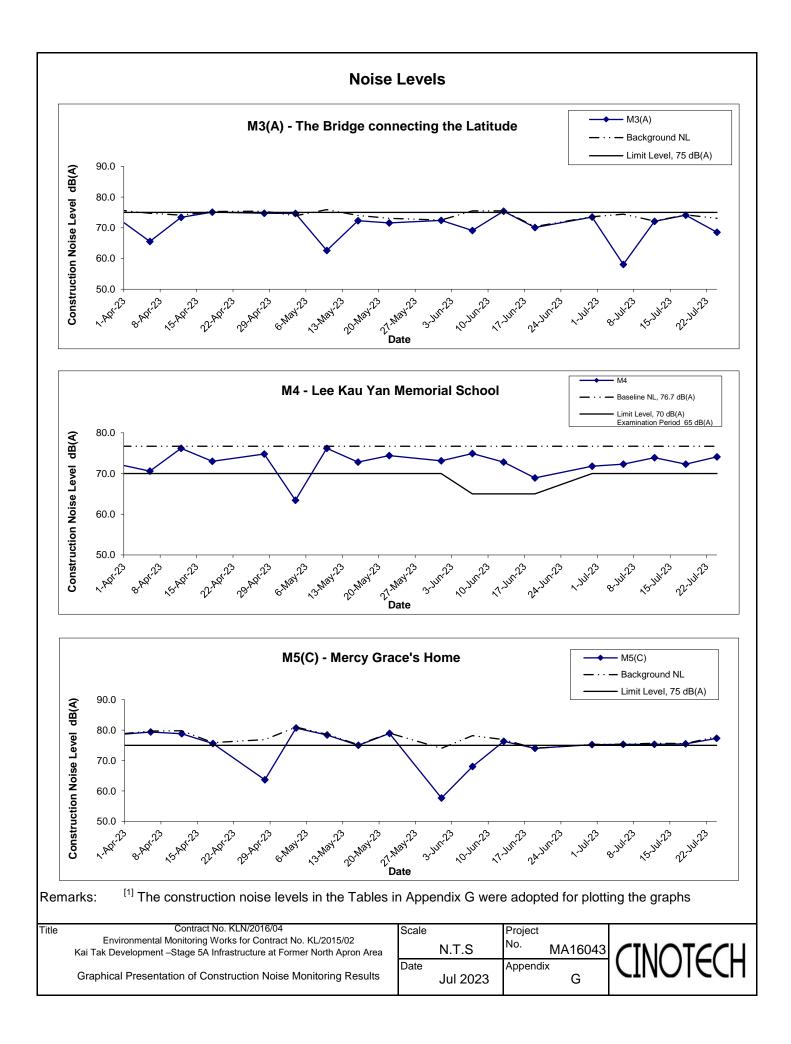
APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location M3(A) - The Bridge connecting The Latitude									
				Unit: dB (A) (30-min)					
Date	Time	Weather	Mea	asured Noise L	evel	Background Noise	Co	nstruction Noise Level	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}	
6-Jul-23	11:30	Sunny	74.5	76.9	71.6	74.4	58.1		
12-Jul-23	11:27	Sunny	72.1	73.7	70.0	72.2	72.1	Measured \leq Background	
18-Jul-23	11:30	Cloudy	74.1	77.7	59.4	74.2	74.1	Measured \leq Background	
24-Jul-23	16:26	Sunny	74.4	74.8	70.1	73.1	68.5		

Location M4 - Lee Kau Yan Memorial School								
	Date Time Wea							
Date		Time Weather	Measured Noise Level		Baseline Level	Cor	nstruction Noise Level	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
6-Jul-23	10:00	Sunny	72.3	74.9	67.9		72.3	Measured \leq Baseline
12-Jul-23	12:57	Sunny	73.9	75.4	72.1	76.7	73.9	Measured \leq Baseline
18-Jul-23	9:00	Cloudy	72.3	76.3	60.7	70.7	72.3	Measured \leq Baseline
24-Jul-23	11:30	Sunny	74.1	75.6	72.1		74.1	Measured \leq Baseline

Location M5(C) - Mercy Grace's Home								
Date	Time	me Weather	Measured Noise Level		Background Noise	Construction Noise Level		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
6-Jul-23	13:00	Sunny	75.3	77.1	70.2	75.4	75.3	Measured \leq Background
12-Jul-23	14:08	Sunny	75.3	77.6	71.5	75.7	75.3	Measured \leq Background
18-Jul-23	13:00	Cloudy	75.5	78.8	59.8	75.6	75.5	Measured \leq Background
24-Jul-23	17:00	Sunny	77.3	79.8	66.7	77.9	77.3	$Measured \leq Background$



APPENDIX H SUMMARY OF EXCEEDANCE

Appendix H – Summary of Exceedance

Exceedance Record for Contract No. KL/2015/02 Reporting Month: July 2023

- (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	230703
Date	03 July 2023 (Monday)
Time	14:00 - 15:00

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 follow-up items are required from the previous site inspection (ref no.: 230626).	

	Name	Signature	Date
Recorded by	KK Kwan	J. H. Thysan	03 July 2023
Checked by	Charles Fung	-Chran	07 July 2023

Checklist Reference Number	230712
Date	12 July 2023 (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	
230712-R1	• A drip tray with adequate capacity should be provided for the breaker head to prevent oil leakage	E09
	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 follow-up items are required from the previous site inspection (ref no.: 230703).	

	Name	Signature	Date
Recorded by	KK Kwan	J.H. Junan	12 July 2023
Checked by	Charles Fung	-Chra-s	20 July 2023

Checklist Reference Number	230720
Date	20 July 2023 (Thursday)
Time	11:00 – 12:30

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	
	Following up on the previous site inspection (ref no.: 230712):	
	Items 230712-R1 was rectified/improved by the Contractor	

	Name	Signature	Date
Recorded by	Serena Ng	$\langle $	20 July 2023
Checked by	Charles Fung	-Chra-s	21 July 2023

Checklist Reference Number	230724
Date	24 July 2023 (Monday)
Time	14:00 - 15:00

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 follow-up items are required from the previous site inspection (ref no.: 230720).	

	Name	Signature	Date
Recorded by	KK Kwan	J. H. Thysan	24 July 2023
Checked by	Charles Fung	-Chran	25 July 2023

Checklist Reference Number	230731
Date	31 July 2023 (Monday)
Time	14:00 - 15:00

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	
230731-R1	NRMM label should be provided to excavator.	C19
	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 follow-up items are required from the previous site inspection (ref no.: 230724).	

	Name	Signature	Date
Recorded by	Charles Fung	-Chra-s	31 Jul 2023
Checked by	Colman Wong	Colman	01 Aug 2023

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

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)

EIA Ref.	Recommended Mitigation Measures	Implementation
LIA KEI.	Recommended Mildgaron Measures	Status
Construct	tion Air Quality	
S6.5	8 times daily watering of the work site with active dust emitting activities.	٨
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	۸
	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 ³ 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	N/A
	accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works.	
	Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m ³ per day using one grab dredger.	
8.8	Dredging for Road T2 should be conducted at a maximum rate of 8,000m ³ 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 ³ 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 ³ 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	
	Tr	

Appendix K – S	Summary of Imp	olementation	Schedule of I	Mitigation N	Measures for	Construction Phase

	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)
30.0		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	٨
	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	۸
	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.	

Stormuster Discharges	
Stormwater Discharges	
	٨
	A
Debris and Litter	
In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of	٨
contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur	
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.	٨
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.	
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	
Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	٨
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
Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	٨
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.	
Construction effluent, site run-off and sewage should be properly collected and/or treated.	٨
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.	
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.	
Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	N/A
	contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur 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. The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah. Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works Stockpiling of construction materials and dusty materials should be covered and located away from any water courses. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff. Construction effluent, site run-off and sewage should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality. Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to 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	ction 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	۸
	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).	۸
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	۸
	• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and	۸
	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	۸
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site	۸
	• 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	۸
	wet	
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation	۸
	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	۸
	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.	
S9.5/-	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	۸
	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	*
	which are appropriately equipped to control these discharges.	

S9.5	General I	Refuse										
	General r the contra and cover	^										
	or leaching into the marine environment, or creating odour nuisance or pest and vermin problem											
Construc	tion Land											
S13.9	CM1	All existing trees should be carefully protected during construction.	۸									
	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

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.	 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. 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. The following recommendations were made to further enhance the mitigation measures: 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; Frequent checking and repair the gaps or broken tarpaulin sheets; and To provide a hard-surfaced road between any cleaning facility and the public Road 	Closed

Complaint Log

Remarks: No complaint was received in the reporting month.

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 2023

					-	-			As	at 1 August 20)23
Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	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 '000m ³)	(in '000m³)	(in '000m³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³
Jan	0.306	0	0	0	0.306	0	0	0	0	0	0.007
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0.288	0	0	0	0.288	0	0	0	0	0	0.007
Apr	0.054	0	0	0	0.054	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0.007
June	0.027	0	0	0	0.027	0	0	0	0	0	0.007
Sub-total	69.31	0	0	0.406	68.904	0	0	0	0	0	2.905
July Aug Sept Oct Nov Dec	0.162	0	0	0	0.162	0	0	0	0	0	0
Total	69.472	0	0	0.406	69.066	0	0	0	0	0	2.905

Forecast of Total Quantities of C&D Materials to be Generated from the 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 '000m³)	(in '000m ³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
72	0	0	1	69	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 m³. (PS Cleuse 25.02A(7) refers).

APPENDIX N CONSTRUCTION PROGRAMME

Kai Tak Development

- Stage 5A Infrastructure At Former North Apron Area

Bar Chart Programme

		2023											
	Anticipated Completion	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	30-Apr-23												
- Reinstatement UU, carriageway and layby at PERE	31-Aug-23												
Reinstatement of Footpath of Prince Edward Road East in front of Shek Ku Lung Road Playground	31-Dec-23												
- Reinstatement of Stage 1	30-Jun-23												
Reinstatement of Central Divider between PERE Lane 3 & 4	31-Aug-23												
Reinstatement of Central Divider between PERE Lane 5 & 6	31-Oct-23												
Reinstatement of Central Divider between PERE Lane 7 & 8	31-Dec-23												

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Appendix C

Monthly EM&A Report For Contract No. ED/2018/05 Kai Tak Development – Stage 5B infrastructure works at the former north apron area

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Environmental Monitoring and Audit Report

for

Contract No. ED/2018/05 –

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

Contract No.: EDO 2/2020

July 2023

(Version 1.2)

Certified By:	Jan.
	(Environmental Team Leader)





Date: 14 August 2023 Your ref: Our ref: PL-202308010

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

Attn.: Ms. Mavis Law, SRE

Dear Ms. Law,

Re: Agreement No. EDO 6/2019 Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area <u>Verification of Monthly EM&A Report (July 2023)</u>

Reference is made to the Monthly EM&A Report (July 2023) (Version 1.2) issued by the Environmental Team on 14 August 2023.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the Monthly EM&A Report (July 2023) in accordance with Condition 3.3 of Environmental Permit No. EP-337/2009.

Thank you for your attention.

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

Kevin Li Independent Environmental Checker

c.c.

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

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EXECUTIVE SUMMARY

1. This is the 30th Monthly Environmental Monitoring & Audit (EM&A) report which summarises the findings of the EM&A Programme during the reporting period from 1 to 31 July 2023.

Breaches of Action and Limit Levels

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

 Table I
 Non-compliance Record in the Reporting Month

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

Complaint log

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

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

Table II Summary of complaints in the Reporting Month

Notifications of summons and successful prosecutions

7. 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.

tuble III 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	NA	NA	NA	NA		
notification						
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

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

Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
 - Erection of falseworks and working platform for decking of Elevated Walkway LW-02
 - RC Construction for Decking of Elevated Walkway LW-02
 - RC Construction of LW02 Lift and Staircase
 - ELS modification and backfilling works for retrieving shaft at Sa Po Road
 - SB-01 tunnel construction works by RTBM
 - Road and drain construction works for Road L16
 - Construction works for DCS

- Road and drain construction works at Olympic Avenue
- RC construction for Subway KS10 Lift and Staircase
- Renovation works for existing subways KS9, KS32 and KS10
- Construction of Underpinning of S14
- GI and Grouting works for Slip Road S14
- Construction of Retaining Wall Type 1 for S14

Future key issues

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

Future key issues in the coming month	Potential impact
Erect falsework and working platform for Decking of Elevated Walkway LW-02	Noise and Air Quality
RC Construction for Decking of Elevated Walkway LW-02	Noise and Air Quality
RC construction of LW02 lift and staircase	Noise and Air Quality
RTBM and Gantry Crane Dismantle	Noise and Air Quality
Road and drain construction works of Road L16, Commercial Street and Road D1	Noise and Air Quality
Construction of DCS	Noise and Air Quality
Road and drain construction works at Olympic Avenue	Noise and Air Quality
Renovation works for Subway KS10 Lift and Staircase	Noise and Air Quality
Renovation works for existing Subways KS9, KS32 and KS10	Noise and Air Quality
Construction of Retaining Wall Type 1 for S14	Noise and Air Quality
Construction of Pile Cap for S14	Noise and Air Quality
Construction of Underpinning of S14	Noise and Air Quality
Construction works for SMH404 and SMH505	Noise and Air 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 southern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/05 Kai Tak Development stage 5B infrastructure works at the former north apron area (The Project), comprises mainly the design and construction of a section of dual two-lane Road D1; single two-lane Road L9 and Road L16; a single-lane slip road S14; a pedestrian subway SB-01; an elevated walkway LW-02; renovation of the existing pedestrian subways KS9, KS10 and KS32, as well as modification of the southern end of the existing pedestrian subway KS10; associated footpaths, street lighting, traffic aids, drainage, sewerage, water mains, landscaping, electrical and mechanical works, and ancillary works. The proposed works are shown in Figure 1 and Figure 2. The proposed works and site boundary are shown in Figure 3 and Figure 4. Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.3 In accordance with the approved EIA Reports, Environmental Monitoring and Audit (EM&A) programmes are recommended to ensure compliance with the EIA study recommendations. The project proponent was the Civil Engineering and Development Department (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual). Acuity Sustainability Consulting Limited (Acuity) was commissioned as the Independent Environmental Checker (IEC). Build King STEC Joint Venture (Build King) was appointed as the main Contractor for the construction works of Contract No. ED/2018/05. Ka Shing was commissioned by CEDD to undertake the role of the Environmental Team (ET) to implement the EM&A programme for The Project.
- 1.4 The construction work under ED/2018/05 comprises the EM&A Manual (EIA Register No. AEIAR-130/2009 for Kai Tak Development) and Environmental Permit No. EP- 337/2009.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Project Organization

1.6 The project organization chart and 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.	E-mail
Civil Engineering and Development Department (CEDD)	Project Proponent	Mr. Kelvin Ng	Permit Holder	3842 7086	<u>kwyng@cedd.gov.</u> <u>hk</u>
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Vincent Lee	Supervisor's Delegate	2798 0771	<u>sre2@ktd-stage5.c</u> om
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	9779 2247	<u>kevin.li@aurecong</u> <u>roup.com</u>
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Pang Chan	ET Leader	6082 2973	stage5b@ka-shing. <u>net</u>
Build King – STEC Joint Venture (BK-STEC)	Contractor	Mr. Rex Lau	Contractor's Representative	6282 5154	rex.lau@buildking. <u>hk</u>

Table 1.1 Contact Information of Key Personnel

Works Area and Construction Programme

 The construction works commenced on 16 February 2021. The construction programme of the Project is given in Appendix B.

Construction works undertaken during reporting month

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

Haste 1.2 major activities of the 1 reject autility re				
Erection of falseworks and working platform for	Construction works for DCS			
decking of Elevated Walkway LW-02				
RC construction for decking of Elevated	Road and drain construction works for Olympic			
Walkway LW-02	Avenue			
RC construction works for lift and staircase of	RC construction for Subway KS10 Lift and			
LW-02	Staircase			
ELS modification and backfilling works for	Renovation works for existing subways KS9,			
retrieving shaft at Sa Po Road	KS32 and KS10			
SB-01 tunnel construction works by RTBM	Construction of Underpinning of S14			
Road and drain construction works for Road	CL and Crowing works for Slip Dood S14			
L16	GI and Grouting works for Slip Road S14			
Construction of Retaining Wall Type 1 for S14				

Table 1.2 Major activities of the Project during reporting month

Submission Status under the Environmental Permits

1.9 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009 are summarized in Table 1.3.

EP Condition EP-337/2009	Submission	Submission Date
Condition 1.11	Notification of Commencement Date of Construction of the Project	12 Jan 2021
Condition 2.3	Management Organization of Main Construction Companies	21 Sep 2020
Condition 2.3	Updated Management Organization of Main Construction Companies	4 July 2022
Condition 2.4	Design Drawings	12 Jan 2021
Condition 2.11	Landscape Mitigation Plans	17 Dec 2020
Condition 3.2	Baseline Monitoring Report	12 Jan 2021
Condition 3.3	Monthly EM&A Report (June 2023)	18 July 2023

Table 1.3 Summary of Status of Required Submission of EPs

2. AIR QUALITY MONITORING

Monitoring Requirements

2.1 In accordance with EM&A Manual (EIA Register No. 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 days 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 Two designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at two air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

Table 2.1 Locations of Air Quality Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Air Monitoring Station	Location for Measurement		Parameter		Duration		Frequency
AM2(A) – Ng Wah Catholic Secondary School	Rooftop	-	24-hour average TSP	-	24 hours	-	Once every 6 days
AM3 – Sky Tower	Podium Floor near Tower 7	-	1-hour average TSP	-	1 hour	-	Three times every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

- 2.4 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 2.5 Photographic records of the impact monitoring setup are shown in Appendix D.

Monitoring Equipment

2.6 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

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

Table 2.3 Air Quality Monitoring Equipment

- 2.7 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).
- 2.8 Calibration certificates, catalogue of equipment are given in Appendix E.

Monitoring Methodology and QA/QC Procedure

24-hour TSP Monitoring

Operating/Analytical Procedures

- 2.9 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.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/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, Glass Fiber Filter Media 8" x 10" having a collection efficiency of > 99 % for particles of 0.3 μ m diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air quality monitoring station.
- 2.13 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.
- 2.14 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 was 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 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 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

- 2.18 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 at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

1-hour TSP Monitoring

Measurement Procedures

- 2.19 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

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

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

Wind Data Monitoring

- 2.21 Wind Anemometer was installed at the roof-top of AM2(A) Ng Wah Catholic Secondary School with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

Action and Limit Levels

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

Table 2.4 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
24 hour avanage TCD	AM2(A)	175	260
24-hour average TSP	AM3	172	260

Table 2.5 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
1 hour overage TCD	AM2(A)	302	500
1-hour average TSP	AM3	301	500

Impact Air Quality Monitoring results

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

Tuble 2.0 Summary of 24 hour average 151 Monitoring Data during the reporting month							
Air Quality Monitoring Station	Average TSP Concentration, µg/m ³	Range, µg/m ³	Action Level, $\mu g/m^3$	Limit Level, µg/m ³			
AM2(A)	51	21 - 98	175	260			
AM3	61	40 - 97	172	260			

Table 2.6 Summary of 24-hour average TSP Monitoring Data during the reporting month

Table 2.7 Summary of 1-hour average TSP Monitoring Data during the reporting month

Air Quality Monitoring Station	Average TSP Concentration, µg/m ³	Range, µg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	55	30 - 105	302	500
AM3	59	35 - 98	301	500

- 2.28 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.29 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix G and Appendix H respectively.
- 2.30 The Event and Action Plan is provided in Appendix I.
- 2.31 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 2.32 Weather conditions during the monitoring periods were generally fine and did not affect the monitoring results.

3. NOISE MONITORING

Monitoring Requirements

- 3.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring, L_{Aeq, 30-minute}, for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 hrs on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 hrs 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 6.

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

Table 3.1 Locations of Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

3.5 The noise monitoring locations and monitoring frequency are listed in Table 3.2.

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

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

- 3.6 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 3.7 Photographic records of the monitoring setup are shown in Appendix D.

Monitoring Equipment

3.8 As referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Class 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 3.3 summarizes the equipment to be used in the noise monitoring.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC74	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

3.9 Calibration certificates, catalogue of equipment are given in Appendix J.

Monitoring Methodology and QA/QC Procedure

3.10 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.

- 3.11 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.
- 3.12 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.13 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.
- 3.14 Noise level was recorded.
- 3.15 Recorded any activities that may generate noise during measurement period.

Maintenance and Calibration

- 3.16 The microphone of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.17 The sound level meter and sound calibrator were calibrated annually by HOKLAS accredited laboratory or equivalent.

Action and Limit Levels

3.18 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.4.

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level [^]
0700 – 1900 hrs	M4(A)	69.5	When one documented	$75 \text{ ID}(\Lambda)$
on normal weekdays	M5(A)	72.5	complaint is received.	75 dB(A)

Table 3.4 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.

Impact Noise Monitoring results

3.19 Impact noise monitoring results at the designated noise monitoring stations are summarized in Table 3.5 respectively.

Noise Limit Measured LAeq, 30-min, Measured LAeq, 30-min, Monitoring Action Level Level Average, dB(A)Range, dB(A)Station M4(A) 72.1 70.5 - 73.6 When one documented 75 complaint is received dB(A)73.1 72.8 - 73.3M5(A)

Table 3.5 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.

- 3.20 There was no Action and Limit Level exceedance of L_{Aeq, 30-min} recorded during the reporting month.
- 3.21 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.22 The Event and Action Plan is provided in Appendix L.
- 3.23 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 3.24 Weather conditions during the monitoring periods were generally fine and did not 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 No. 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 Quality Monitoring Station	ASR No. in EIA report	Predicted Cumu 24-hour av concen Scenario 1 (Mid 2009 to Mid 2013), µg/m ³	verage TSP	Measured 24-hr average TSP in Reporting Month (July 2023) µg/m ³
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	21 - 98
AM3 - Sky Tower	A40^	106^	138^	40 - 97

Note:

^ Prediction results are given in the Table 3.13 of the EIA Report (EIAO Register No. AEIAR-130/2009) for Kai Tak Development.

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

Air Quality Monitoring Station	ASR No. in EIA report	Predicted Cumu 1-hour ave concern Scenario 1 (Mid 2009 to Mid 2013), µg/m ³	erage TSP	Measured 1-hr average TSP in Reporting Month (July 2023) µg/m ³
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	30 - 105
AM3 - Sky Tower	A40^	217^	247^	35 - 98

Note:

^ Prediction results are given in the Table 3.13 of the EIA Report (EIAO Register No. AEIAR-130/2009) for Kai Tak Development.

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 (July 2023) L _{Aeq, 30min} , dB(A)
M4(A) – Le Billionnaire	NA	NA	70.5 - 73.6
M5(A) – Prince Ritz	NA	NA	72.8 - 73.3

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

- 4.2 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).
- 4.3 24-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.4 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).
- 4.5 1-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.6 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

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, 13, 20 and 27 July 2023 in the reporting month.
- 5.4 The summary of site audits is attached in Table 5.1.

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
6 July 2023	NA	NA	NA
13 July 2023	NA	NA	NA
20 July 2023	NA	NA	NA
27 July 2023	NA	NA	NA

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

- 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 M 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 6, 13, 20 and 27 July 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
6 July 2023	Observation: The QPME label for the generator was missing. Please ensure the label is properly demonstrated.	Action Taken: The QPME label has been display for the generator.	Closed out on 13 July 2023
13 July 2023	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action Taken: Stockpiles has been removed.	Closed out on 20 July 2023

Table 6.1 Summary of site inspections observations during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
13 July 2023	Observation: Secondary container shall be provided for the engine oil to prevent soil contamination.	Action Taken: Diesel drum had been relocated to proper area.	Closed out on 20 July 2023
20 July 2023	Observation: Reminder: Pay attention to the water content of inert waste (generated from tunnel work), to avoid slurry sending to fill bank.	Action Taken: Pay attention to the water content of inert waste (generated from tunnel work), to avoid slurry sending to fill bank.	Closed out on 27 July 2023
27 July 2023	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action taken: Stockpiles has been removed.	Closed out on 3 August 2023

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 N.
- 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
Construction Dust Notification under APCO	HA/1826/1	29 Dec 2020	N/A
Waste Disposal Billing Account	7038086	21 Aug 2020	N/A
Registration as a Chemical Waste Producer	5111-286-B2596-01	15 Sep 2020	N/A
Westewater Discharge License under	WT00037618-2021	29 Mar 2021	31 Mar 2026
Wastewater Discharge License under WPCO	WT00037370-2021	29 Wiai 2021	
wred	WT00038562-2021	15 Jul 2021	31 Jul 2026
Construction Noise Permit	GW-RE0624-23	20 Jun 2023	19 Dec 2023

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 as stated in the EIA report, the EP and the EM&A Manual. The implementation status of the mitigation measures is summarized in Appendix O.

Environmental Complaint and Non-compliance

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

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

Table 6.3 Summary of complaints in the Reporting Month

6.9 Complaint log is shown in Appendix P.

Notifications of summons and successful prosecutions

6.10 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.

Tuble 0.4 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	NA	NA	NA	NA
notification				
of summons				
and				
successful				
prosecutions				
were				
received in				
the reporting				
month.				

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

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

7. FUTURE KEY ISSUES

Construction Programme in the coming month

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

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

Future key issues in the coming month	Potential impact
Erect falsework and working platform for Decking of Elevated Walkway LW-02	Noise and Air Quality
RC Construction for Decking of Elevated Walkway LW-02	Noise and Air Quality
RC construction of LW02 lift and staircase	Noise and Air Quality
RTBM and Gantry Crane Dismantle	Noise and Air Quality
Road and drain construction works of Road L16, Commercial Street and Road D1	Noise and Air Quality
Construction of DCS	Noise and Air Quality
Road and drain construction works at Olympic Avenue	Noise and Air Quality
Renovation works for Subway KS10 Lift and Staircase	Noise and Air Quality
Renovation works for existing Subways KS9, KS32 and KS10	Noise and Air Quality
Construction of Retaining Wall Type 1 for S14	Noise and Air Quality
Construction of Pile Cap for S14	Noise and Air Quality
Construction of Underpinning of S14	Noise and Air Quality
Construction works for SMH404 and SMH505	Noise and Air Quality

- 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 Report.
- 7.3 The recommended environmental measures proposed in the EM&A Manual (EIA Register No. AEIAR-130/2009) shall be effectively implemented to minimize the potential environmental impacts. The Contractor is reminded to implement the mitigation measures properly.

Environmental Site Inspection and Monitoring Schedule for next month

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

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.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 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.
- 8.7 Based on the site inspection and audits, impact air quality and noise monitoring results, it was considered that the mitigation measures were effective to control the potential environmental impacts from the Project during the reporting period.

Figure

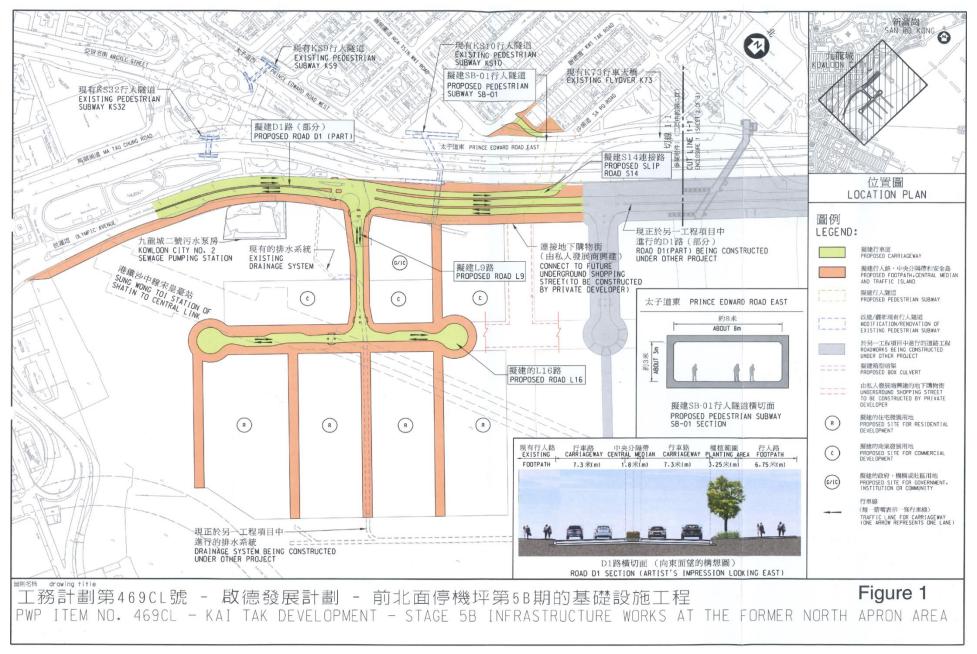


Figure 1 - Proposed works of Contract No. ED/2018/05

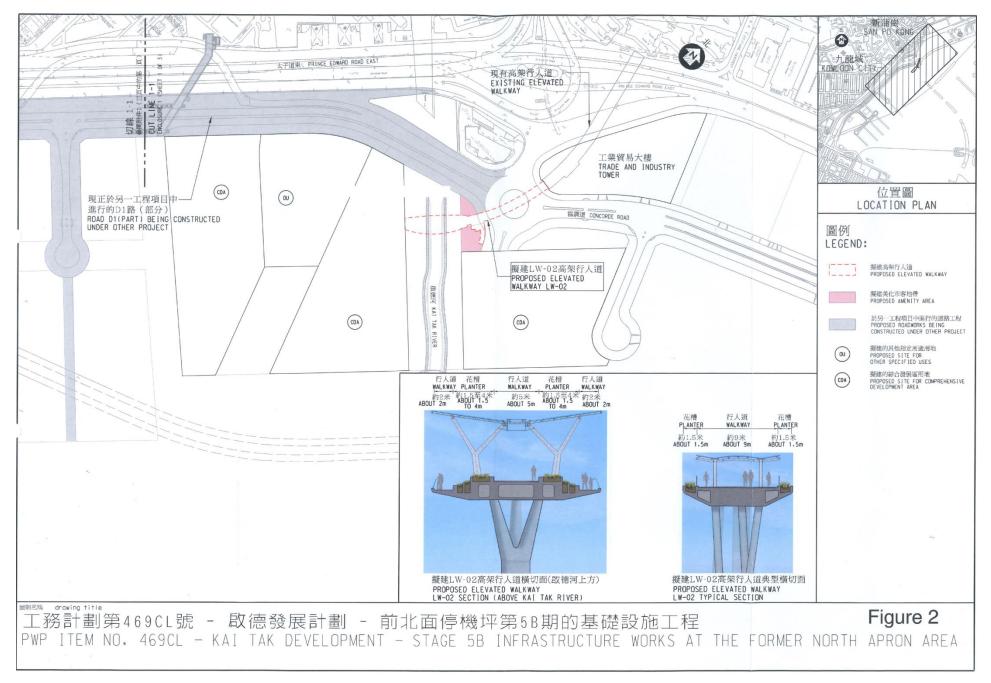


Figure 2 – Proposed works of Contract No. ED/2018/05

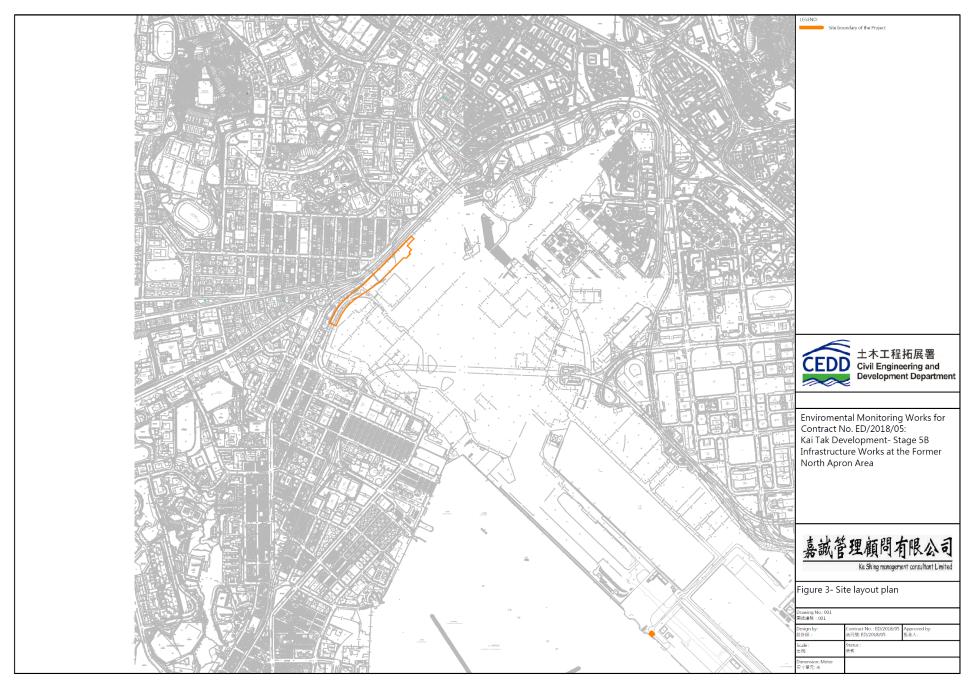


Figure 3 – D1 Road Site Layout Plan

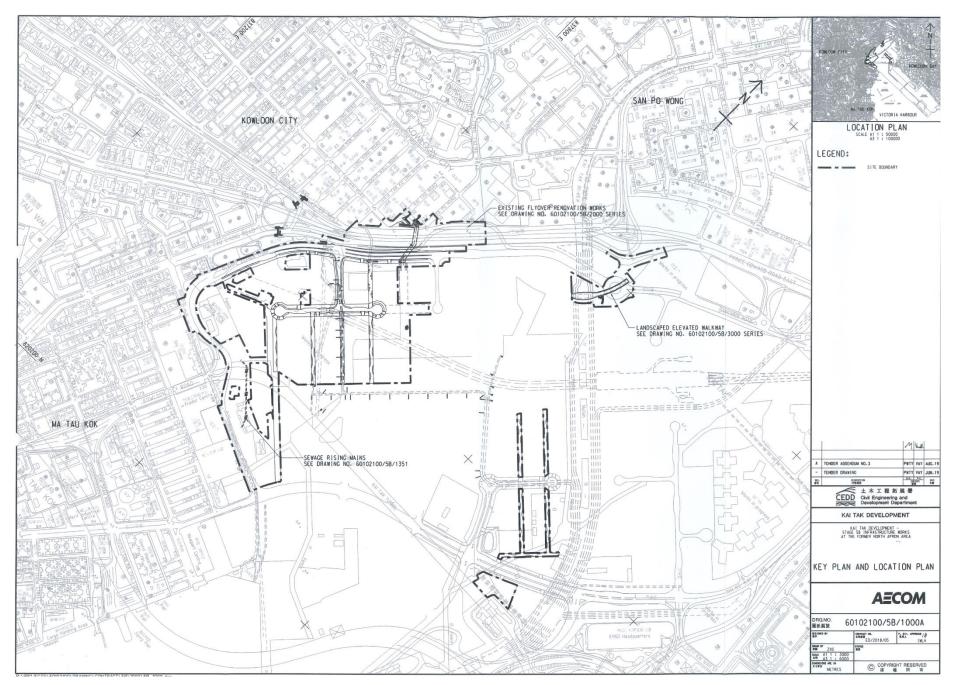


Figure 4 – Site Layout Plan

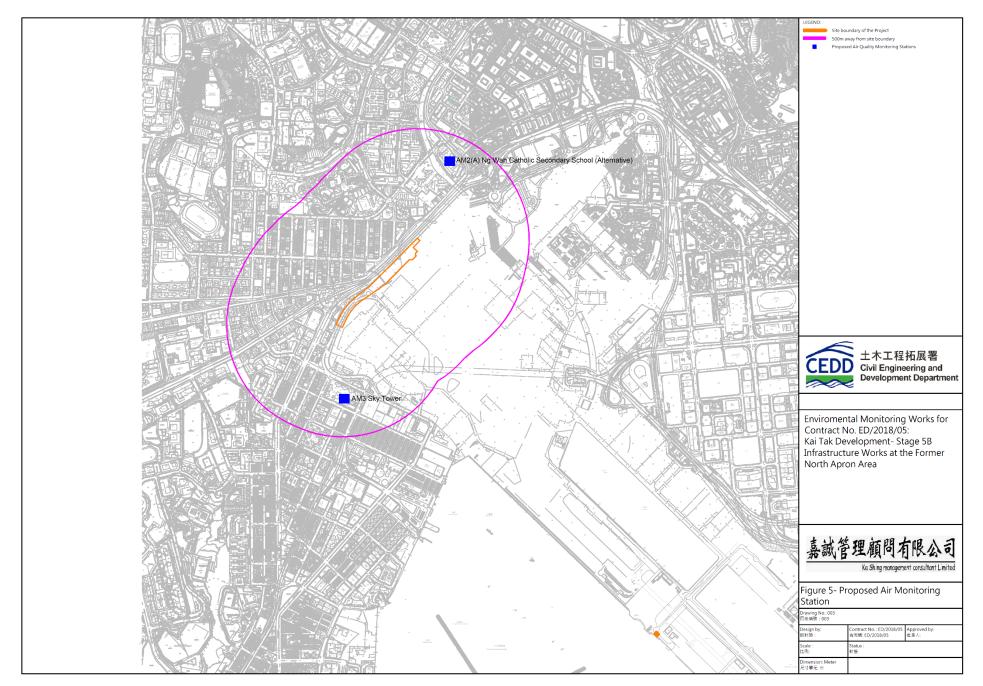


Figure 5 – Air Quality Monitoring Stations

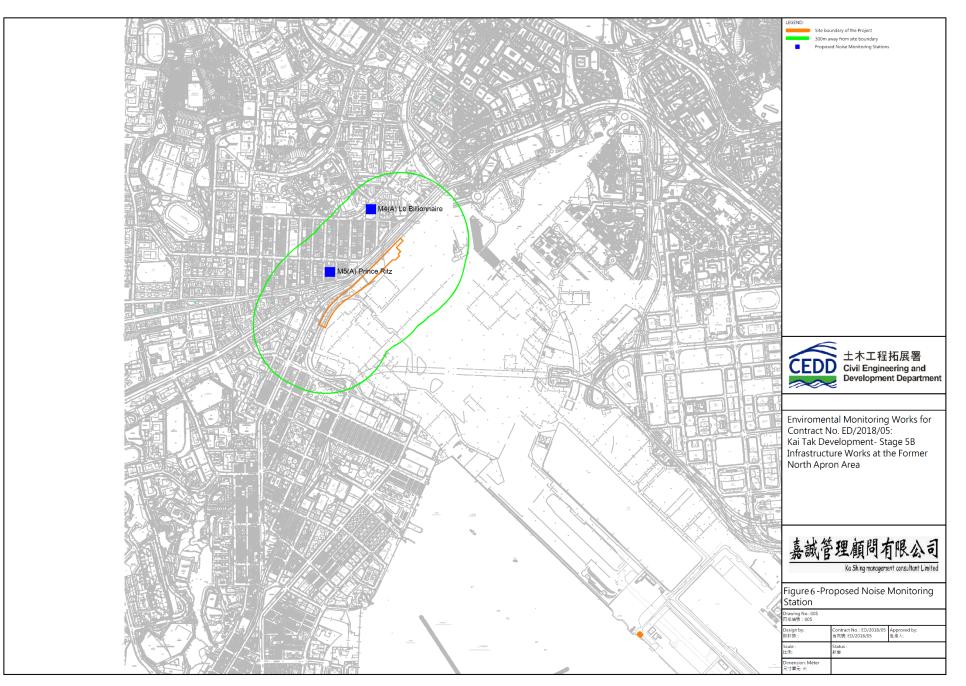
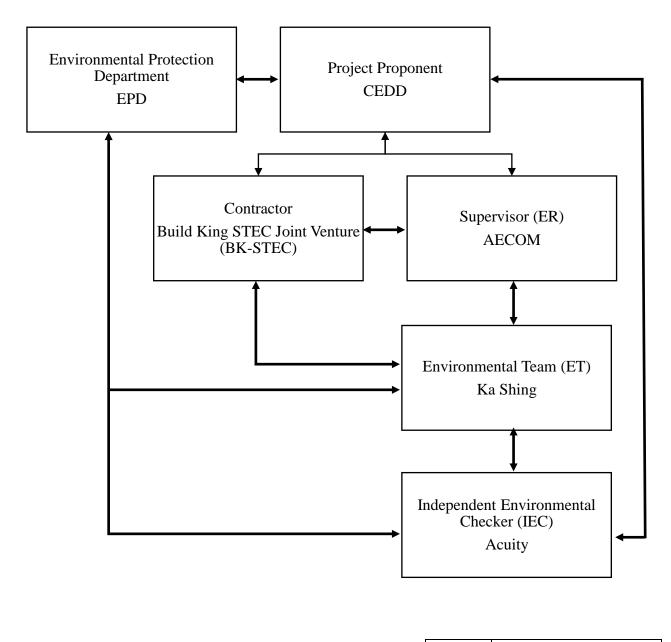
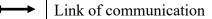


Figure 6 – Noise Monitoring Stations

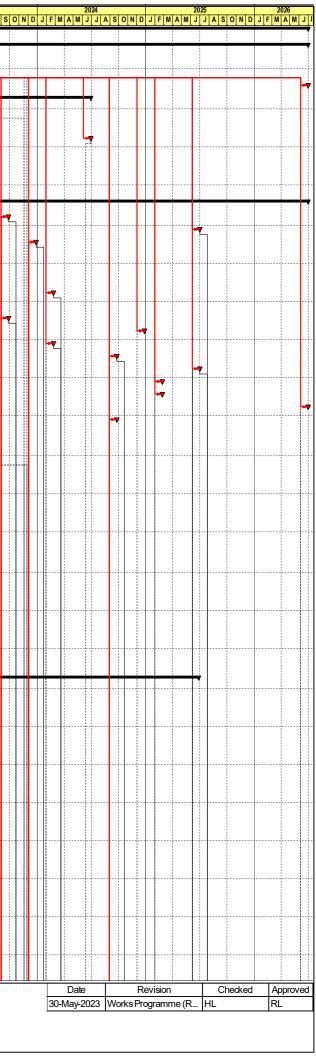
Appendix A – Organization Chart of EM&A Team



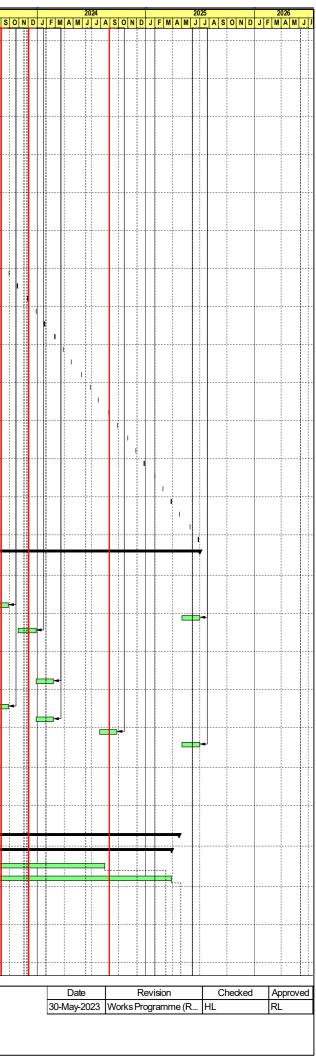


Appendix B – Construction Programme

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KTD.KD.1250 Secti KTD.KD.1260 Secti DESIGN, SUBMISSIONS, PERMIT APPL KTD.KD.1270 KTD.KD.1270 Prepa KTD.KD.1280 Cons KTD.KD.1290 Prepa		0		24-Feb-25 24-Feb-25		24-Feb-25 24-Feb-25		2													
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DESIGN, SUBMISSIONS, PERMIT APPL KTD.KD.1270 Prepa KTD.KD.1280 Cons KTD.KD.1290 Prepa	tion 17:Compl of establ work for landscape works under Section 1	0		25-Sep-24		25-Sep-24		2													
KTD.KD.1280 Cons KTD.KD.1290 Prepa		240	22-Jul-20	18-Mar-21	04-Oct-20	30-Jun-26		2	<u> </u>	÷+											
KTD.KD.1290 Prepa	pare/submission of temporary works design	30	22-Jul-20	20-Aug-20	04-Oct-20	02-Nov-20	74	2													
•	sultation/approval of temporary works design	60	21-Aug-20	19-Oct-20	03-Nov-20	01-Jan-21	74	2													
VTD VD 1200	pare/submit Temp Geotechnical&Structural Works to HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	30	22-Jul-20	20-Aug-20	03-Nov-25	02-Dec-25	1930	2													
KTD.KD. 1300 COIIs	sult/approve Temp Geotechnical&Structural Works by HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.)	120	21-Aug-20	18-Dec-20	03-Dec-25	01-Apr-26	1930	2										ļ			
	pare/submission of Temporary Drainage and Sewerage Management Plan to DSD/CEDD and others	30	22-Jul-20	20-Aug-20	02-Apr-26	01-May-26		2													
	sultation/approval of Temporary Drainage and Sewerage Management Plan by DSD/CEDD and others	60	21-Aug-20	19-Oct-20	02-May-26	30-Jun-26		2													
	lication/approval of CNP for night works by relevant authorities and liaison with projects nearby lication/approval of permits or other statutory submissions by relevant authorities (i.e. CEDD,HyD,WSD,XPMS & EPD)	90 180	19-Dec-20 31-Jul-20	18-Mar-21 26-Jan-21	02-Apr-26 02-Jan-26	30-Jun-26 30-Jun-26		2 2 - C	_												
TEMPORARY TRAFFIC MANGEMENT	nication/approval of permits of other statutory submissions by relevant authomites (i.e. CEDD, nyb, wSD, XFWG & EFD)	240	-	20-Jan-21 27-Mar-21	18-Sep-20	30-Jun-26				-											
	pare/Submit/Consult/Approval of TTA for loading/unloading at Sa Po Road and Concorde Road roundabout	60	31-Jul-20	28-Sep-20	20-Aug-21	18-Oct-21		2 -													
	pare/Submit/Consult/Approval of TTA for working platform erection crossing Concorde Road roundabout	90	29-Sep-20		25-Jun-22	22-Sep-22		2													
KTD.KD.1390 Prepa	pare/Submit/Consult/Approval of TTA for GI/diversion/preliminary works at PERE and Sa Po Road	90	31-Jul-20	28-Oct-20	03-Nov-25	31-Jan-26	1921	2													
	pare/Submit/Consult/Approval of TTA for 2-staged Sa Po Road and PERE W/B diversion	90	30-Aug-20	27-Nov-20	03-Dec-25	02-Mar-26	1921	2	· · · · · · · · · · · ·	3							ļ	<u> </u>			
	pare/Submit/Consult/Approval of TTA for road and drainage works along Olympic Avenue	120	28-Nov-20	27-Mar-21	03-Mar-26	30-Jun-26		<u> </u>		-	-										
	TMLG Meeting	0		18-Sep-20		18-Sep-20		2	Η.	_											
	TMLG Meeting TMLG Meeting	0		19-Nov-20 15-Jan-21		19-Nov-20 14-Jan-21		2		↓											
	TMLG Meeting	0		23-Mar-21		23-Mar-21		2			▼										
CONSTRUCTION HEALTH AND SAFETY	•	1801	22-Jul-20	26-Jun-25	23-Jul-20	26-Jun-25				╋╋┿━╸	+++	┥┥┥┥	┿┿	╺╋╍┿┿	-	+++				—	
	pare/submit of Draft Safety Plan	13	22-Jul-20	03-Aug-20	23-Jul-20	04-Aug-20	1	2 1		+++											
	pare/submit Safety Plan	21	04-Aug-20	24-Aug-20	05-Aug-20	25-Aug-20		2 +	,												
KTD.KD.1440 Cond	iduct meeting to discuss Draft Safety Plan	0		03-Aug-20		03-Aug-20	0	2													
KTD.KD.1450 Prepa	pare/submit Site Traffic Safety Management Plan	41	22-Jul-20	31-Aug-20	23-Jul-20	01-Sep-20	1	2	a												
	pare/submit Construction Health and Safety Plan	29	22-Jul-20	19-Aug-20	23-Jul-20	20-Aug-20		2													
	SSMC Meeting	1	26-Aug-20		26-Aug-20	26-Aug-20		2													
	SSMC Meeting	1	23-Sep-20	23-Sep-20	23-Sep-20	23-Sep-20		2													
	SSMC Meeting SSMC Meeting	1	29-Oct-20 26-Nov-20	29-Oct-20	29-Oct-20 26-Nov-20	29-Oct-20 26-Nov-20		2													
	SSMC Meeting	1	31-Dec-20	26-Nov-20 31-Dec-20	31-Dec-20	31-Dec-20	-	2													
	SSMC Meeting	1	28-Jan-21	28-Jan-21	28-Jan-21	28-Jan-21		2		I											
	SSMC Meeting	1	25-Feb-21	25-Feb-21	25-Feb-21	25-Feb-21		2													
KTD.KD.1540 8th S	SSMC Meeting	1	24-Mar-21	24-Mar-21	24-Mar-21	24-Mar-21	0	2													
KTD.KD.1550 9th S	SSMC Meeting	1	29-Apr-21	29-Apr-21	29-Apr-21	29-Apr-21	0	2													
	n SSMC Meeting	1	27-May-21	27-May-21	27-May-21	27-May-21		2		.											
	I SSMC Meeting	1	24-Jun-21	24-Jun-21	24-Jun-21	24-Jun-21	-	2													
	1 SSMC Meeting	1	29-Jul-21	29-Jul-21	29-Jul-21	29-Jul-21		2													
	n SSMC Meeting	1	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21		2		+++								<u>+</u>			
	i SSMC Meeting	1	28-Oct-21	28-Oct-21	28-Oct-21	28-Oct-21		2						i							
	s SMC Meeting	1	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21		2									1	į – į			
	n SSMC Meeting	1	30-Dec-21	30-Dec-21	30-Dec-21	30-Dec-21		L.L.	 P.146 				1 5				1	- I		·	
		1		27-Jan-22			U	2		++											
 ✓ Ø Milestone ✓ Critical Milestone ✓ Critical Work 	n SSMC Meeting		1		27-Jan-22	27-Jan-22	-	2 2							1						



	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total C Float	Calendar	U JAS		FMA	202 M J		ON	DJF	FMAI	2022 V J J A	SOND	JFM	
D.KD.1650	19th SSMC Meeting	1	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	0	2					Π			T				
D.KD.1660	20th SSMC Meeting	1	31-Mar-22	31-Mar-22	31-Mar-22	31-Mar-22	0	2						1		1				
D.KD.1670	21st SSMC Meeting	1	28-Apr-22	28-Apr-22	28-Apr-22	28-Apr-22	0	2												
0.KD.1680	22nd SSMC Meeting	1	26-May-22	26-May-22	26-May-22	26-May-22	0	2									1			
KD.1690	23rd SSMC Meeting	1	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	0	2	- -				+-+	t-t-			1		1	
(D.1700	24th SSMC Meeting	1	28-Jul-22	28-Jul-22	28-Jul-22	28-Jul-22	0	2						i			1			
	-	4												(
0.1710	25th SSMC Meeting	1	25-Aug-22	25-Aug-22		25-Aug-22	0	2	-	╟╫┼				<u> </u>						÷
D.1720	26th SSMC Meeting	1	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	0	2												
D.1730	27th SSMC Meeting	1	27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	0	2												
(D.1740	28th SSMC Meeting	1	24-Nov-22	24-Nov-22	24-Nov-22	24-Nov-22	0	2												
KD.1750	29th SSMC Meeting	1	29-Dec-22	29-Dec-22	29-Dec-22	29-Dec-22	0	2										1		1
KD.1760	30th SSMC Meeting	1	26-Jan-23	26-Jan-23	26-Jan-23	26-Jan-23	0	2											1	
.KD.1770	31st SSMC Meeting	1	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0	2											1	
KD.1780	32nd SSMC Meeting	1	30-Mar-23	30-Mar-23	30-Mar-23	30-Mar-23	0	2					+							÷
	•	1					-													1
0.KD.1790	33rd SSMC Meeting	1	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	0	2												11.
D.KD.1800	34th SSMC Meeting	1	25-May-23		25-May-23	25-May-23	0	2												
D.KD.1810	35th SSMC Meeting	1	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	0	2												
D.KD.1820	36th SSMC Meeting	1	27-Jul-23	27-Jul-23	27-Jul-23	27-Jul-23	0	2												
0.KD.1830	37th SSMC Meeting	1	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	0	2												
D.KD.1840	38th SSMC Meeting	1	28-Sep-23	28-Sep-23	28-Sep-23	28-Sep-23	0	2					+-+							+
	-	4	· · ·																	
.KD.1850	39th SSMC Meeting	1	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2												
D.KD.1860	40th SSMC Meeting	1	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23	0	2												
D.KD.1870	41st SSMC Meeting	1	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23	0	2												
D.KD.1880	42nd SSMC Meeting	1	25-Jan-24	25-Jan-24	25-Jan-24	25-Jan-24	0	2						(
.KD.1890	43rd SSMC Meeting	1	29-Feb-24	29-Feb-24	29-Feb-24	29-Feb-24	0	2						(
.KD.1900	44th SSMC Meeting	1	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24	0	2	 - : ·	┢╋╋╌┝╌			+-+	<u> </u>			-+		+	
	5						-							£						
.KD.1910	45th SSMC Meeting	1	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2												
KD.1920	46th SSMC Meeting	1	30-May-24	30-May-24	30-May-24	30-May-24	0	2												
KD.1930	47th SSMC Meeting	1	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	0	2						(T						
KD.1940	48th SSMC Meeting	1	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0	2						(
KD.1950	49th SSMC Meeting	1				29-Aug-24	0	2												
			29-Aug-24	29-Aug-24	29-Aug-24				 - -	╟╫┼┼╌				<u>}</u>						
KD.1960	50th SSMC Meeting	1	26-Sep-24	26-Sep-24	26-Sep-24	26-Sep-24	0	2												
KD.1970	51st SSMC Meeting	1	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	0	2												
.KD.1980	52nd SSMC Meeting	1	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24	0	2												
.KD.1990	53rd SSMC Meeting	1	26-Dec-24	26-Dec-24	26-Dec-24	26-Dec-24	0	2												1
.KD.2000	54th SSMC Meeting	1	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	0	2												
.KD.2010	55th SSMC Meeting	1	27-Feb-25	27-Feb-25	27-Feb-25	27-Feb-25	0	2												
	•								· · · · · · · · · · · · · · · · · · ·					·						+
D.KD.2020	56th SSMC Meeting	1	27-Mar-25		27-Mar-25	27-Mar-25	0	2												
D.KD.2030	57th SSMC Meeting	1	24-Apr-25	24-Apr-25	24-Apr-25	24-Apr-25	0	2						£						
D.KD.2040	58th SSMC Meeting	1	29-May-25	29-May-25	29-May-25	29-May-25	0	2												
D.KD.2050	59th SSMC Meeting	1	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25	0	2]
RELATED DELIVERABLES		1796	31-Jul-20	30-Jun-25	01-Aug-20	30-Jun-26	365	2	V					<u> </u>		┿┿╸			-	÷
D.KD.2060	Prepare/submit BIM Execution Plan	29	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2	-											
.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	31-Jul-20		01-Aug-20	13-Sep-20	1	2					+-+							÷
.KD.2080	Prepare/submit proposal of asset information requirement	364	31-Jul-20		01-Aug-20	30-Jul-21	1	2					1							
KD.2090	Prepare/submit Asset Data Deliverables for Section 1	60	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	1008	2												
.KD.2100	Prepare/submit Asset Date Deliverables for Section 2	60	02-May-25	30-Jun-25	02-May-26	30-Jun-26	365	2												
KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26	916	2												
.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2					- L							
			-												<u></u>					
.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	1656	2						í 						
.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26	1554	2												
.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	28-Dec-23	25-Feb-24	02-May-26	30-Jun-26	856	2												
.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	31-May-21	29-Jul-21	02-May-26	30-Jun-26	1797	2					-				1		1	1
KD.2170	Prepare/submit Asset Date Deliverables for Section 9	60	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	1008	2												1
	Prepare/submit Asset Date Deliverables for Section 9 Prepare/submit Asset Date Deliverables for Section 11			· · ·																
			20 0 00			30-Jun-26	856	2	 - -	╞╋╋╋				<u> </u> 						
KD.2190		60	28-Dec-23	25-Feb-24	02-May-26			2						(
KD.2190 KD.2200	Prepare/submit Asset Date Deliverables for Section 12	60	28-Jul-24	25-Sep-24	02-May-26	30-Jun-26													1	
KD.2190 KD.2200 KD.2210	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13						643 365	2			ii - i		_			_		- i		1
KD.2190 KD.2200 KD.2210	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13	60	28-Jul-24	25-Sep-24	02-May-26	30-Jun-26						1.1								
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEM	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE	60 60 832	28-Jul-24 02-May-25 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22	02-May-26 02-May-26 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22	365 0	2 2	•											
KD.2190 KD.2200 KD.2210 J E-ENGINEERING SHCEM E /E.1000	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	60 60 832 488	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21	02-May-26 02-May-26 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21	365 0 0	2 2 2							1					
D.2190 D.2200 D.2210 IE-ENGINEERING SHCEM (E.1000 (E.1010	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	60 60 832 488 488	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21	365 0 0 0	2 2 2 2	-											
(D.2190 (D.2200 (D.2210 JE-ENGINEERING SHCEM) (E.1000 (E.1010	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	60 60 832 488	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21	02-May-26 02-May-26 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22	365 0 0	2 2 2												
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEME VE.1000 VE.1010 VE.1020	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	60 60 832 488 488	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21	365 0 0 0	2 2 2 2												
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEME /E.1000 /E.1010 /E.1020 /E.1030	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73	60 60 832 488 488 671	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22	365 0 0 0 0	2 2 2 2 2												
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEME VE.1000 VE.1010 VE.1020 VE.1030 VE.1050	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73 Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14 Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	60 60 832 488 488 671 832 631	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22	365 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2												
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEME /E.1000 /E.1010 /E.1020 /E.1030 /E.1050 - AND STRUCTURAL WORK	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73 Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14 Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	60 60 832 488 488 671 832 631 1409	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 22-Jul-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 22-Apr-25	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 01-Aug-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 30-Jun-26	365 0 0 0 0 0 0 0 353	2 2 2 2 2 2 2												
KD.2190 KD.2200 KD.2210 JE-ENGINEERING SHCEME /E.1000 /E.1010 /E.1020 /E.1030 /E.1050 . AND STRUCTURAL WORK IERAL AND PRELIMINARY	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73 Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14 Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02 (S) WORKS	60 60 832 488 488 671 832 631	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 22-Jul-20	25-Sep-24 30-Jun-25 09-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 22-Apr-25 27-Mar-25	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 01-Aug-20 01-Aug-20	30-Jun-26 30-Jun-26 09-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 30-Jun-26 30-Jun-26	365 0 0 0 0 0 0 0 353 371	2 2 2 2 2 2 2												
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XD.2190 XD.2200 XD.2210 JE-ENGINEERING SHCEME /E.1000 /E.1010 /E.1020 /E.1030 /E.1050 .AND STRUCTURAL WORK IERAL AND PRELIMINARY GW.1000 GW.1010 GW.1010 GW.1020 GW.1030 GW.1030 GW.1055 GW.1055 GW.1056	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13 DROP-OFF SCHEDULE Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01 Review/prepare/submit VE scheme for piling arrangement for new pier of existing Bridge K73 Review/prepare/submit VE scheme for piling arrangement for abutment of Slip Road S14 Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02 S MORKS General and preliminary works (inclu site formation, site set-up, access, temp drain. sys, ground investigation and etc) Construction, maintenance and removal of ICA, EVA, Crowd Dispersal Route and other temporary access Prepare/submit/approval site layout plan and Contractor's site accommodation using MiC method Construct foundation and erect Contractor's site accommodation Tree Survey Initial tree survey report and tree felling application	60 60 832 488 487 832 631 1409 1383 1200 1383 13 44 76 27 120	28-Jul-24 02-May-25 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 26-Sep-20 31-Jul-20 27-Aug-20	25-Sep-24 30-Jun-25 09-Nov-22 30-Nov-21 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 22-Apr-25 27-Mar-25 15-Aug-24 27-Mar-25 12-Aug-20 25-Sep-20 29-Dec-20 26-Aug-20 24-Dec-20	02-May-26 02-May-26 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 31-Jul-20 01-Aug-20 01-Aug-20 01-Aug-20 01-Aug-20 14-Aug-20 27-Mar-26 01-Aug-20 10-Nov-20	30-Jun-26 30-Jun-26 09-Nov-22 30-Nov-21 01-Jun-22 09-Nov-22 22-Apr-22 30-Jun-26 30-Jun-26 30-Jun-25 13-Aug-20 26-Sep-20 30-Jun-26 27-Aug-20 09-Mar-21	365 0 0 0 0 0 0 353 371 257 74 1 1 1629 1 75	2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 1 2												
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V.1061	Tree felling works at Sa Po Road to facilitate existing utilities diversion works (5 nos.)	7	09-Jun-21	17-Jun-21	09-Jun-21	17-Jun-21	0	1									
65	Tree felling works at Kai Tak Area	60	28-Dec-20	11-Mar-21	18-Apr-26	30-Jun-26	1571	1									
	Protection to retained trees and tree transplating works	234	27-Aug-20	12-Jun-21	13-Sep-25	30-Jun-26	1497	1									
	TRIAN SUBWAY SB-01	1242	22-Jul-20	25-Sep-24	03-Aug-20	25-Sep-24	0										
	SIONS FOR PEDESTRIAN SUBWAY SB-01	330	06-Jan-21	01-Dec-21	30-May-21	10-Jul-22	221	2									
BM.1000	Prepare ELS Design for Launching Shaft@Kai Tak Area	60	06-Jan-21	06-Mar-21	30-May-21	28-Jul-21	144	2			-						
JBM.1010	Review/comment ELS Design for Launching Shaft @Kai Tak Area and obtain ICE certificate	30	07-Mar-21	05-Apr-21	29-Jul-21	27-Aug-21	144	2			1						
JBM.1020	Consult/obtain approval of ELS Design for Launching Shaft @Kai Tak Area by AECOM	45	06-Apr-21	20-May-21	28-Aug-21	11-Oct-21	144	2									
3M.1030	Prepare ELS Design for Retreiving Shaft @Sa Po Road	60	28-Feb-21	28-Apr-21	23-Aug-21	21-Oct-21	176	2									
3M.1040	Review/comment ELS Design for Retreiving Shaft @Sa Po Road and obtain ICE certificate	30	29-Apr-21	28-May-21	22-Oct-21	20-Nov-21	176	2			-						
BM.1050	Consult/obtain approval of ELS Design for Retreiving Shaft @Sa Po Road by AECOM	187	29-May-21	01-Dec-21	21-Nov-21	26-May-22	176	2					i				
JBM.1060	Prepare/submit GEO Submission for trenchless tunnel by RTBM to GEO/CEDD	90	10-Jan-21	09-Apr-21	21-Sep-21	19-Dec-21	254	2		****							
UBM.1070	Consult/obtain approval of GEO Submission for trenchless tunnel by RTBM by GEO/CEDD	203	10-Apr-21	29-Oct-21	20-Dec-21	10-Jul-22	254	2									
SUBM.1070	Prepare/submit HyD B&S Submission for precast lining and re-alignment to HyD B&S	60	09-Feb-21	09-Apr-21	09-Jul-21	06-Sep-21	150	2									
SUBM.1000	Consult/obtain AIP of HyD B&S Submission for precast lining and re-alignment for HyD B&S	60	10-Apr-21	08-Jun-21	03-501-21 07-Sep-21	05-Nov-21	150	2									
SUBM.1090		169					150	2									
	Consult/obtain DDA of HyD B&S Submission for precast lining and re-alignment by HyD B&S		09-Jun-21	24-Nov-21	06-Nov-21	23-Apr-22	150	2									
	VISA OF MAINLAND WORKERS FOR PEDESTRIAN SUBWAY SB-01	334	25-Nov-21	24-Oct-22	03-Jan-22	26-Oct-22	2	2									
VISA.1000	Prepare/submit/approval working visa for segment construction workers	90	25-Nov-21	22-Feb-22	03-Jan-22	02-Apr-22	39	2									
.VISA.1010	Travel from Mainland to HK for segment construction workers	7	23-Feb-22	01-Mar-22	03-Apr-22	09-Apr-22	39	2						G.			
3.VISA.1020	Prepare/submit/approval for HKID and obtain Green Card/Blue Card for segment construction workers	14	02-Mar-22	15-Mar-22	10-Apr-22	23-Apr-22	39	2						-			
.VISA.1030	Prepare/submit/approval for Working Visa for tunneling construction workers	90	05-May-22	02-Aug-22	07-May-22	04-Aug-22	2	2									
3.VISA.1040	Travel from Mainland to HK for tunneling construction workers	7	03-Aug-22	09-Aug-22	05-Aug-22	11-Aug-22	2	2							-		
.VISA.1050	Prepare/submit/approval for HKID and obtain Green Card/Blue Card for tunneling construction workers	14	10-Aug-22	23-Aug-22	12-Aug-22	25-Aug-22	2	2							-		
3.VISA.1050	Obtain confined space certified worker/competent person certificate for tunneling construction workers	7	28-Aug-22	03-Sep-22	30-Aug-22	05-Sep-22	2	2		 			 			/- 	
	· · · · · ·				-		-	2									
VISA. 1070	Medical check for Form 3 and 6/receive reports for tunneling construction workers	21	04-Sep-22	24-Sep-22	06-Sep-22	26-Sep-22	2	-								≠□	
.VISA.1080	Submit/approval for Form 3 and 6 by Labour Department for tunneling construction workers	30	25-Sep-22	24-Oct-22	27-Sep-22	26-Oct-22	2	2	-								
	IRING AND DELIVERY OF RTBM & FABRICATION OF PRECAST UNITS	619	22-Jul-20	22-Aug-22	06-Aug-20	30-Sep-22	33										
3.PDF.1000	Design RTBM and associated equipment (cradle, back thrust wall and etc.)	339	22-Jul-20	25-Jun-21	06-Aug-20	10-Jul-21	15	2									
.PDF.1010	Procurement and manufacture RTBM and associated equipment	340	26-Jun-21	31-May-22	11-Jul-21	15-Jun-22	15	2				4					
.PDF.1011	Conduct FAT for RTBM and associated equipment	1	01-Jun-22	01-Jun-22	16-Jun-22	16-Jun-22	15	2		***					-	1	
.PDF.1020	Complete RTBM manufacturing, packing and deliver to HK	70	02-Jun-22	10-Aug-22	17-Jun-22	25-Aug-22	15	2							└ ╾ (
3.PDF.1020	Design/submit/approve steel mould for precast segment construction	73	01-Sep-21	12-Nov-21	06-Oct-21	17-Dec-21	35	2									
3.PDF.1040		67	13-Nov-21	18-Jan-22	18-Dec-21	22-Feb-22	35	2		╟┼┼┼┼╌		······					
	Procurement and manufacture steel mould and associated equipment							-									
B.PDF.1050	Deliver steel mould and associated equipment to HK	28	19-Jan-22	15-Feb-22	23-Feb-22	22-Mar-22	35	2									
3.PDF.1060	Assemble steel mould on casting yard	10	16-Feb-22	26-Feb-22	23-Mar-22	02-Apr-22	30	1									
3.PDF.1070	Design/submit/approve gantry and associated equipment	20	26-Oct-21	14-Nov-21	29-Dec-21	17-Jan-22	64	2					–				
B.PDF.1080	Procurement and manufacture gantry and assoicated equipment	34	15-Nov-21	18-Dec-21	18-Jan-22	20-Feb-22	64	2									
B.PDF.1090	Pack/deliver gantry and associated equipment to HK	11	19-Dec-21	29-Dec-21	21-Feb-22	03-Mar-22	64	2					-9				
B.PDF.1100	Excavate/compact/cast gantry footing at Casting Yard	34	10-Nov-21	13-Dec-21	06-Jan-22	08-Feb-22	57	2									
B.PDF.1110	Install gantry rail to footing and construct hard pavement for Casting Yard	20	14-Dec-21	08-Jan-22	09-Feb-22	03-Mar-22	43	1					-	ſ			
3.PDF.1120	Bakfill and compact rockfill layer for segment storage at Casting Yard	6	10-Jan-22	15-Jan-22	14-Apr-22	23-Apr-22	77	1					-	-0			
B.PDF.1130	Install gantry structure and assoicated equipment at Casting Yard and SAT	26	10-Jan-22	11-Feb-22	04-Mar-22	02-Apr-22	43	1		+++++++++++++++++++++++++++++++++++++++			 -				
3.PDF.1140		14					30	1									
	Cut-and-bend rebar delivery and trial fix for precast segment construction		28-Feb-22	15-Mar-22	04-Apr-22	23-Apr-22	39	2									
B.PDF.1150	Submit/approval for CNP for working on Sunday and Holiday for casting precast segments	45	30-Jan-22	15-Mar-22	10-Mar-22	23-Apr-22		-									
B.PDF.1160	Construct precast segments (49nos, 3days/unit, Working on Sunday & Holiday)	160	16-Mar-22	22-Aug-22	24-Apr-22	30-Sep-22		2									
STRIAN SUBWAY SB-01	AT KAI TAK AREA	1016	22-Jul-20	20-Dec-23	03-Aug-20	25-Sep-24	226										
B.1000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	22-Jul-20	17-Jan-21	03-Aug-20	29-Jan-21	12	2									
B.1010	Conduct seismic geophysical survey for PERE (Night time, lane-by-lane, 11 night shift) and Kai Tak Area (Day time)	15	04-Nov-20	20-Nov-20	26-Jul-21	11-Aug-21	212	1		9						T	
B.1020	Expose and demolish existing foundation caps and locating existing piles (1 team) and formating working area	66	06-Jan-21	26-Mar-21	11-Jan-21	31-Mar-21	4	1		▋┃┞┥═							
3.1030	Formate working area and install protection to 132kV and Rising Main	18	27-Mar-21	21-Apr-21	01-Apr-21	26-Apr-21	4	1			-0						
3.1040	Remove existing piles (37 nos, using DN2500 x 27 nos, 1 team)	52	22-Apr-21	24-Jun-21	27-Apr-21	29-Jun-21	4	1		+++++	- 						
B.1040 B.1050	Compact and formate the pile removal area for existing haul road diversion and install instrumentation	36	25-Jun-21	06-Aug-21	30-Jun-21	11-Aug-21	4	1									
				-		-											
3.1060	Conduct diversion of existing 11kV cables by CLP	52	28-Jun-21	27-Aug-21	30-Jun-21	30-Aug-21	2			┠╂╂╌┝╌╴			.				
9.1070	Install sheetpile (FSP V, Lines B-A, A-F, F-E, D-E, D-C, 30mH,1710m2, Team A)	50	10-Aug-21	08-Oct-21	12-Aug-21	11-Oct-21	2					11	Ŧ.				
3.1075	Install sheetpile (FSP V, remaining at Line B-A and C-D and Line B-C, 30mH, 1190m2, Team B)	34	28-Aug-21	08-Oct-21	31-Aug-21	11-Oct-21	2	1				1 -4	1				
3.1080	Ground improvement works for break-in grout box (Vertical) and post-coring tests	60	09-Oct-21	18-Dec-21	22-Jul-22	30-Sep-22	230	1				I			<u> </u>	. .	
3.1090	Excavate (GL@+6mPD to Strut 1@+5.0mPD, 520m3 exca)	7	09-Oct-21	18-Oct-21	12-Oct-21	20-Oct-21	2	1				1 5					
3.1100	Install Strut 1 and Excavate (Strut 1@+5.0mPD to Strut 2@+3.0mPD, 1560m3 exca)	17	19-Oct-21	06-Nov-21	21-Oct-21	09-Nov-21	2	1				1					
8.1110	Install Strut 2 and Excavate (Strut 2@+3.0mPD to Strut 3@+0.0mPD, 1300m3 exca)	20	08-Nov-21	30-Nov-21	10-Nov-21	02-Dec-21	2	1				1	i 🛏 👖				
.1120	Install Strut 3 and Excavate (Strut 3@+0.0mPD to Strut 4@-2.5mPD, 1300m3 exca)	20	01-Dec-21	23-Dec-21	03-Dec-21	28-Dec-21	2	1		++++-+							
3.1130	Install Strut 4 and Excavate (Strut 4@-2.5mPD to Strut 5@-5.0mPD, 1300m3 exca)	20	24-Dec-21	19-Jan-22	29-Dec-21	21-Jan-22	2	1					F				
.1140	Install Strut 5 and Excavate (Strut 5@-5.0mPD to Strut 6@-8.0mPD, 1300m3 exca)	20	20-Jan-22	15-Feb-22	22-Jan-22	17-Feb-22	2	1									
							-	1						- - - -		-+	
3.1150	Install Strut 6 and Excavate (Strut 6@-8.0mPD to FEL@-9.8mPD, 1040m3 exca)	20	16-Feb-22	10-Mar-22	18-Feb-22	12-Mar-22	2										
3.1160	Construct RC structure of base slab and kicker (up to -8.0mPD, 540m3 conc)	35	11-Mar-22	25-Apr-22	14-Mar-22	27-Apr-22	2	1				1					
3.1170	Backfill and remove strut 6@-7.5mPD	6	26-Apr-22	03-May-22	28-Apr-22	05-May-22	2	1									
3.1180	Construct RC structure of wall 1 (up to -5.0mPD, 250m3 conc)	15	04-May-22	21-May-22	06-May-22	24-May-22	2	1						4	9		
3.1190	Backfill and remove strut 5@-4.5mPD	6	23-May-22	28-May-22	25-May-22	31-May-22	2	1				1					
3.1200	Construct RC structure of wall 2 (up to -2.5mPD, 200m3 conc)	15	30-May-22	16-Jun-22	01-Jun-22	18-Jun-22	2	1				1			-		
	Backfill and remove strut 4@-2.0mPD	6	, 17-Jun-22	23-Jun-22	20-Jun-22	25-Jun-22	2	1		***					<u>1</u>	, 1	
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B.1260	Assembly RTBM and associated equipment (install cradle, back thrust wall pad, RTBM and associates) and SAT	30	24-Aug-22	28-Sep-22	26-Aug-22	30-Sep-22	2	1				1			: **	<u> </u>	
TD.SB.1190 TD.SB.1210 TD.SB.1220 TD.SB.1230 TD.SB.1230 TD.SB.1240 TD.SB.1250 TD.SB.1260 ▼ Milestone	Construct RC structure of wall 2 (up to -2.5mPD, 200m3 conc)	15 6 15 6 20 70 30	30-May-22 17-Jun-22 24-Jun-22 13-Jul-22 20-Jul-22 08-Jul-22 24-Aug-22	16-Jun-22 23-Jun-22 12-Jul-22 19-Jul-22 11-Aug-22 28-Sep-22 28-Sep-22	01-Jun-22 20-Jun-22 15-Jul-22 22-Jul-22 22-Jul-22 11-Jul-22 26-Aug-22	18-Jun-22 25-Jun-22 14-Jul-22 21-Jul-22 13-Aug-22 30-Sep-22 30-Sep-22	2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 9 8 9 8	s Infr	astru	cture V	Vorks	at th		mer	╘╼┎	North Ap

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)	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total Caler Float			JFM		021 JASO		2022 M A M J J	2 J A S O N E		2 A M
D.SB.1270	Remove sheetpile for RTBM Launching (11mx7m)	20	29-Sep-22	2 24-Oct-22	03-Oct-22	26-Oct-22	2 1		TT		T				┶┶┓		
D.SB.1280	RTBM Launching (initial drive, 6m, 4nos precast unit, 0.5m/d)	12	25-Oct-22			07-Nov-22	2 2								-9		
D.SB.1290	RTBM Launching (Main drive, 78m, 45nos precast unit, 1.5m/d)	45	06-Nov-22		08-Nov-22	22-Dec-22	2 2									4	
D.SB.1300	RTBM Breakthrough into Retrieving Shaft @Sa Po Road	5	23-Dec-22	2 27-Dec-22	23-Dec-22	27-Dec-22	0 2								Ē	1	
D.SB.1310	Replacement grout along trenchless tunnel area	5	28-Dec-22	2 03-Jan-23	28-Dec-22	03-Jan-23	0 1									-	
).SB.1320	Remove RTBM and associated equipment (cradle, jacks, back thrust wall pad and etc.)	50	04-Jan-23	04-Mar-23	04-Jan-23	04-Mar-23	0 1								լ	-	
.SB.1330	Construct remaining RC structure of top slab and lift shaft and backfill	58	06-Mar-23			17-Feb-24				tt							
0.SB.1340	Install steelwork. ABWF, other facilities, lift and other E&M works	180	18-May-23		19-Feb-24	25-Sep-24											- -
DESTRIAN SUBWAY SB		1121			14-Dec-20	25-Sep-24			-	┢╾┿╸		┢┻┿				┿╋╋┯┿	
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D.SB.2000	Trial pit/trench excavation to identify existing underground utilities and services and ground investigation works	52	14-Dec-20		14-Dec-20	18-Feb-21	0 1		1								
D.SB.2010	Construct road diversion for Sa Po Road (Stage 1, incl carriageway and footpath)	46	19-Feb-21	1 17-Apr-21	19-Feb-21	17-Apr-21	0 1										
D.SB.2011	Exposed existing shallow covered watermain and conducting diversion works (NCE032/CE025)	44	15-Apr-21	28-May-21	15-Apr-21	28-May-21	0 2			[]							
D.SB.2012	Construction of remaining works after watermain diversion works for implement road diversion of Sa Po Road (CE032/CI	E02: 11	29-May-2	1 08-Jun-21	29-May-21	08-Jun-21	0 2				1						
D.SB.2020	Implement TTA for Sa Po Road diversion (Stage 1)	0		08-Jun-21		08-Jun-21	0 1				9						
D.SB.2030	Site clearance and excavation for trial pits to identify existing UU along Sa Po Road	7	09-Jun-21	17-Jun-21	09-Jun-21	17-Jun-21	0 1				11 H						
D.SB.2040	Diversion of existing DN1800 stormwater drain pipe and underground utilities/services	130	18-Jun-21		18-Jun-21	20-Nov-21	0 1			11	4						
.SB.2050	Install sheetpile for Retrieving Shaft (Stage 1, FSP V, 88nos, 24m-H, 1 team)	26	22-Nov-21		22-Nov-21	21-Dec-21	0 1										
.SB.2060	Construct road diversion for Sa Po Road (Stage 2, incl traffic deck, carriageway and footpath)	45	22-Dec-21			18-Feb-22	0 1										
			ZZ-Dec-Z		22-Dec-21					ff							÷
.SB.2070	Implement TTA for Sa Po Road diversion (Stage 2)	0		18-Feb-22		18-Feb-22											
.SB.2080	Install sheetpile for Retrieving Shaft (Stage 2A, FSP V, 46 nos, 24m-H, 1 team)	23	19-Feb-22	-	19-Feb-22	17-Mar-22											
.SB.2090	Diversion to existing underground utilities/services for remaining sheetpil installation	45	18-Mar-22	2 16-May-22	18-Mar-22	16-May-22	0 1										ļ
.SB.2100	Install remaining sheetpile for Retrieving Shaft (Stage 2B, FSP V, 20 nos, 24m-H, 1 team)	9	17-May-22	2 26-May-22	17-May-22	26-May-22	0 1										
.SB.2110	Excavate and install ELS (GL@+6.0mPD to Strut 1@+5.0mPD, 270m3 exca)	7	27-May-22	2 04-Jun-22	27-May-22	04-Jun-22	0 1										
.SB.2120	Excavate and install ELS (Strut 1@+5.0mPD to Strut 2@+2.0mPD, 810m3 exca)	20	06-Jun-22	28-Jun-22	06-Jun-22	28-Jun-22	0 1										
SB.2130	Excavate and install ELS (Strut 2@+2.0mPD to Strut 3@-0.5mPD, 675m3 exca)	20	29-Jun-22		29-Jun-22	22-Jul-22	0 1			[T			
.SB.2140	Excavate and install ELS (Strut 3@-0.5mPD to Strut 4@-3.0mPD, 675m3 exca)	20	23-Jul-22			15-Aug-22	0 1										
.SB.2150	Excavate and install ELS (Strut 4@-3.0mPD to Strut 4@-3.0mPD, 075m3 exca)	20	16-Aug-22			07-Sep-22	• •										
	Excavate and install ELS (Strut 4@-3.5mPD to Strut 5@-5.5mPD, 675m3 exca) Excavate and install ELS (Strut 5@-5.5mPD to Strut 6@-8.3mPD, 756m3 exca)				•	· · ·	0 1		₩ ₩ ₩-	<u>├</u>	++	 -			╌┎╧╧╌╌┼╴		
SB.2160		20	08-Sep-22		08-Sep-22	03-Oct-22	• •	_									
SB.2170	Excavate and install ELS (Strut 6@-8.3mPD to FEL@-10.3mPD, 540m3 exca)	20	05-Oct-22		05-Oct-22	27-Oct-22	0 1										
SB.2180	Ground improvement works for breakthrough (Horizontal) and post-coring tests	26	28-Oct-22			26-Nov-22	0 1			fl-		_				_ .	ļ
SB.2190	Construct tunnel portal for RTBM breakthrough	22	28-Nov-22	2 22-Dec-22		22-Dec-22	0 1								-	41	
SB.2200	Remove tunnel portal and RTBM shield for RC structure connection works	60	10-Feb-23	3 25-Apr-23	10-Feb-23	25-Apr-23	0 1										=
SB.2210	Construct RC structure of base slab (xxx m3 conc)	25	26-Apr-23	25-May-23	26-Apr-23	25-May-23	0 1									1 1 4	-
SB.2220	Construct RC structure of walls (xxx m3 conc)	52	27-May-23	3 28-Jul-23	27-May-23	28-Jul-23	0 1			1							-
SB.2230	Construct RC structure of roof slab and lift shaft (xxx m3 conc)	48	29-Jul-23			22-Sep-23	0 1										
SB.2240	Backfill Retrieving Shaft up to ground level	39	23-Sep-23			10-Nov-23	0 1										
SB.2250		40	11-Nov-23		11-Nov-23	29-Dec-23	0 1			f	·						
	Install ELS and excavate for remaining staircase and escalator trough structure						• •										
.SB.2260	Construct RC structure of remaining staricase and escalator trough structure and backfill	60	30-Dec-23		30-Dec-23	12-Mar-24											
).SB.2270	Install steelwork, ABWF, other facilities and other E&M works	160	13-Mar-24	· ·	13-Mar-24	25-Sep-24				f							Į
D.SB.2280	Planned Completion of Pedestrian Subway SB-01 (Related to Section 12)	0		25-Sep-24		25-Sep-24											
ISTRUCTION OF ELE	VATED WALKWAY LW-02	861	31-Jul-20	27-Jun-23	08-Feb-21	26-Sep-23	77										
२ 9		300	20-Oct-20	25-Oct-21	08-Feb-21	26-Jan-22	77			<u> </u>		 	▼				
).LW.1000	Pre-drilling works (2 nos, 1 rig)	45	20-Oct-20	11-Dec-20	08-Feb-21	08-Apr-21	91 1		*	(
D.LW.1010	Piling works for bored pile (PC9-A2, 2200dia x 67m)	40	31-Dec-20			27-May-21			-								1
D.LW.1020	Piling works for bored pile (PC9-A1, 2200dia x 67m)	40	20-Feb-21		28-May-21	15-Jul-21	77 1				<u>i</u>						
D.LW.1020	Testing for completed bored piles (Sonic Test & Interface Core) and site clearance	18			16-Jul-21		77 1		÷+-+-	 - Γ						-++	<u>.</u>
			13-Apr-21			05-Aug-21											1
LW.1040	Installation of ELS and excavation for pile cap construction (520.5m3 exca, 1 team)	29	05-May-2		06-Aug-21	08-Sep-21	77 1										
LW.1050	Construction of RC structure (pile cap & pier column) (184m3, 1 team)	114	09-Jun-21		09-Sep-21	26-Jan-22	77 1						1	. .			į
R 10		285	07-Nov-20) 25-Oct-21	09-Feb-21	26-Jan-22	77						* 				
LW.1060	Pre-drilling works (2 nos, 1 rig)	44	07-Nov-20) 30-Dec-20	09-Feb-21	08-Apr-21	77 1										
.LW.1070	Piling works for bored pile (PC10-A2, 2200dia x 67m)	40	31-Dec-20) 19-Feb-21	09-Apr-21	27-May-21	77 1										
LW.1080	Piling works for bored pile (PC10-A1, 2200dia x 67m)	40	20-Feb-21		28-May-21	15-Jul-21	77 1			-							
LW.1090	Testing for completed bored piles (Sonic Test & Interface Core) and site clearance	18	13-Apr-21		16-Jul-21	05-Aug-21				[-						
LW.1000	Installation of ELS and excavation for pile cap construction (273.5m3 exca, 1 team)	29	05-May-2		06-Aug-21	03-Aug-21 08-Sep-21	77 1				•						
LW.1100 LW.1110	Construction of RC structure (pile cap & pier column) (149m3, 1 team)	114			-	-	77 1		.	f	++		···			-++	÷
			09-Jun-21		09-Sep-21	26-Jan-22							3 				
TBRIDGE (PIER 9 TO F		433	05-May-2		09-Aug-21	26-Sep-23											
LW.1120	Formation and placing concrete blocks in Kai Tak River (66 nos in Kai Tak River and 44 nos at both land side)	26	05-May-2		09-Aug-21	07-Sep-21	79 1		 .	ļļ.		_					<u> </u>
LW.1130	Erect mid tower in Kai Tak River (Quadshore system)	26	05-Jun-21	07-Jul-21	08-Sep-21	09-Oct-21	79 1										
LW.1140	Install decking system to deck over Kai Tak River	26	08-Jul-21	06-Aug-21	11-Oct-21	10-Nov-21	79 1										
_W.1150	Installation and erecting falsework and working platform for constructing RC bridge structure	63	07-Aug-21	-	11-Nov-21	26-Jan-22	79 1					 -	4				1
LW.1160	Construction of RC bridge structure (1079m3, 4 teams)	80	26-Oct-21		27-Jan-22	10-May-22				(-					
LW.1170	Prestressing works and remaining RC works	26	31-Jan-22		13-Jan-23	14-Feb-23											1
LW.1173	Install steel roof structure and associated steel facilities from Pier 9 to Pier 10	120	05-Mar-22			13-Jul-23	281 1						ī				1
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LW.1176	Install E&M works, testing and commissioning from Pier 9 to Pier 10	90	02-Jul-22		12-Jun-23	26-Sep-23											¦
LW.1179	Construct landscaping, ABWF works and other facilities from Pier 9 to Pier 10	50	02-Jul-22	-		26-Sep-23									-	++	÷
11		367	31-Jul-20	25-Oct-21	29-Jul-21	22-Sep-22		1					'				1
LW.1180	Liaison/coordinate with adjacent project for TTA arrangement	90	31-Jul-20	28-Oct-20	29-Jul-21	26-Oct-21	363 2	•									
LW.1190	Implementation of TTA	7	18-Nov-20		19-Oct-21	26-Oct-21	270 1		-								
LW.1200	Pre-drilling works (4 nos, 1 rig)	48	26-Nov-20		27-Oct-21	21-Dec-21	270 1		┊┝╍╪								
LW.1210	Piling works for bored pile (PC11-A1, 1800dia x 78m)	28	25-Jan-21		22-Dec-21	26-Jan-22			-+-+-	-		-		+-+			
			-								<u> </u>						
LW.1220	Piling works for bored pile (PC11-A4, 1800dia x 78m)	28	02-Mar-21		27-Jan-22	03-Mar-22				(T							
LW.1230	Piling works for bored pile (PC11-A2, 1800dia x 78m)	28	08-Apr-21		04-Mar-22	06-Apr-22			 ↓↓.	ļļ.	•			.		 	<u> </u>
0.LW.1240	Piling works for bored pile (PC11-A3, 1800dia x 78m)	28	12-May-2	1 15-Jun-21	07-Apr-22	14-May-22					1						1
	Testing for completed bored piles (Sonic Test & Interface Core) and site clearance	18	16-Jun-21	07-Jul-21	16-May-22	06-Jun-22	270 1				<u> </u>						
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.LW.1250	Planned W		10040				~	CD 1	·			1. 1		-	N	\	
	Planned W	ED)/2018/0	05 Kai Ta	k Devel	opment	- Stage	5B Ini	frast	ructu	ıre W	/orks a	at the I	Former	North A	\pron	A I
.LW.1250		ED)/2018/	05 Kai Ta	ık Devel	opment	•					/orks :	at the l	Former	North A	\pron	ı Aı
LW.1250 ▼ Milestone		ED)/2018/	05 Kai Ta	ık Devel	opment	•	5B Inf RKS P				/orks	at the l	Former	North /	\pron	17

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TD.LW.1260	Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team)	26	08-Jul-21	06-Aug-21	07-Jun-22	07-Jul-22	270	1				•		I	ļ[]			
ID.LW.1270	Construction of RC structure (pile cap & pier column) (138m3, 1 team)	65	07-Aug-21	25-Oct-21	08-Jul-22	22-Sep-22		1				-						
OTBRIDGE (PIER 10 TO PIER 12)		301	26-Oct-21	31-Oct-22	23-Sep-22	26-Sep-23											•	
).LW.1280	Remove ELS and formating roundabout for portal and falsework erection from CH93 to CH138	31	26-Oct-21	30-Nov-21	23-Sep-22	31-Oct-22		1										
D.LW.1281	Implement TTA for erecting portal across carriageway near CH84 to CH93 (Stage 2)	0	01-Dec-21		08-Nov-22		276	1					E					
D.LW.1282	Construct and erect portal across carriageway near CH84 to CH93	18	01-Dec-21	21-Dec-21	08-Nov-22	28-Nov-22		1										
D.LW.1283	Implement TTA for erecting portal across carriageway near CH138 to CH147 (Stage 3)	0	22-Dec-21	22-Dec-21	28-Nov-22	28-Nov-22		1					E					
D.LW.1284	Construct and erect portal across carriageway near CH138 to CH147 (Except secondary beams)	12	22-Dec-21	07-Jan-22	29-Nov-22	12-Dec-22		1										
D.LW.1285	Implement TTA for erecting secondary beams across carriageway near CH138 to CH147 (night time, approx 3 nights)	6	08-Jan-22	14-Jan-22	13-Dec-22	19-Dec-22		1										
D.LW.1286	Implement TTA for RC bridge structure construction (Stage 4)	3	15-Jan-22	18-Jan-22	20-Dec-22	22-Dec-22		1					· · · · ·	1 ,				
D.LW.1290	Erect falsework and working platform from CH93 to CH138	45	01-Dec-21	25-Jan-22	01-Nov-22	22-Dec-22		1						-				
D.LW.1300	Construction of RC bridge structure (745m3, 1 teams)	78	08-Jan-22	13-Apr-22	06-Dec-22	11-Mar-23	270	1					1	Г	₽			
D.LW.1310	Prestressing works and remaining RC works	26	14-Apr-22	19-May-22	13-Mar-23	15-Apr-23	270	1						4	* -			
D.LW.1313	Install steel roof structure and associated steel facilities from Pier 10 to Pier 12	76	20-May-22	18-Aug-22	17-Apr-23	18-Jul-23	270	1							-	-		
D.LW.1316	Install E&M works, testing and commissioning from Pier 10 to Pier 12	60	19-Aug-22	31-Oct-22	19-Jul-23	26-Sep-23		1									4	
D.LW.1319	Construct landscapiung, ABWF works and other facilities from Pier 10 to Pier 12	52	19-Aug-22	21-Oct-22	28-Jul-23	26-Sep-23	278	1								-		
T TOWER, STAIRCASE, SOFT LA	ANDSCAPING & OTHER WORKS	715	25-Jan-21	27-Jun-23	09-Mar-22	26-Sep-23	77											
FD.LW.1320	Pre-drilling works (6 nos, 2 rig)	48	25-Jan-21	24-Mar-21	09-Mar-22	10-May-22	330	1		►			ļ					
D.LW.1330	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 1 rig)	156	31-Jan-22	12-Aug-22	11-May-22	14-Nov-22	77	1						└ ►□		-		
D.LW.1340	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	50	13-Aug-22	13-Oct-22	15-Nov-22	14-Jan-23	77	1								• —		
D.LW.1350	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.)	78	14-Oct-22	16-Jan-23	16-Jan-23	22-Apr-23	77	1								ا جا	── ₽	
D.LW.1360	Lift and other E&M installation, testing and commissioning	90	17-Jan-23	09-May-23	12-Jun-23	26-Sep-23	117	1									╞╼╡	(`
D.LW.1370	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	130	17-Jan-23	27-Jun-23	24-Apr-23	26-Sep-23	77	1									4	
D.LW.1380	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0		27-Jun-23		26-Sep-23	91	2										
NSTRUCTION OF BOX CULVE	RT B1	229	15-Aug-20	26-May-21	24-Oct-20	29-Jul-21	53											
X CULVERT B1 (BAY0 CH364 TO		205	02-Sep-20	14-May-21	24-Nov-20	19-Jul-21	53	1	-	++					+++			
D.B1.A.1000	Trial pit excavation to expose the existing box culvert near Bay0 CH364	5	02-Sep-20	07-Sep-20	24-Nov-20	28-Nov-20	68	1	q							,		
D.B1.A.1000 D.B1.A.1010	Construction of Bay 0 include ELS/exca/rock fill/RC structure (CH364 to CH350, 14.3m, except roof opening for connect)	53	02-Sep-20 08-Sep-20	11-Nov-20	24-1N0V-20 30-Nov-20	02-Feb-21	68		F									
D.B1.A.1020	Construction of Bay 0 include ELS/excavation/rock fill/RC structure (CH304 to CH300, 14.3m, except roor opening for connect) Construction of Bay 1 include ELS/excavation/rock fill/RC structure (CH350 to CH338, 12.2m)	70			12-Mar-21	02-Feb-21 08-Jun-21	135	1		1					+			
D.B1.A.1020 D.B1.A.1030		55	25-Sep-20	18-Dec-20 04-Dec-20		25-May-21	135		G_									
D.B1.A.1030 D.B1.A.1040	Construction of Bay 2 include ELS/excavation/rock fill/RC structure (CH338 to CH326, 12.2m)	55	29-Sep-20		16-Mar-21	25-May-21 12-Jun-21	135											
	Construction of Bay 3 include ELS/excavation/rock fill/RC structure (CH326 to CH313, 12.2m)		15-Oct-20	23-Dec-20	30-Mar-21					T								
D.B1.A.1050	Construction of Bay 4 include ELS/excavation/rock fill/RC structure (CH313 to CH301, 12.2m)	45	21-Oct-20	12-Dec-20	20-Apr-21	12-Jun-21	144			1								
D.B1.A.1060	Construction of Bay 5 include ELS/excavation/rock fill/RC structure (CH301 to CH289, 12.2m)	90	27-Nov-20	18-Mar-21	22-Feb-21	12-Jun-21	68	1	Ē		7							
D.B1.A.1070	Construction of Bay 6 include ELS/excavation/rock fill/RC structure (CH289 to CH277, 12.2m)	57	30-Nov-20	06-Feb-21	16-Mar-21	27-May-21	85	1	E				ļ					
D.B1.A.1080	Construction of Bay 7 include ELS/excavation/rock fill/RC structure (CH277 to CH265, 12.2m)	40	30-Nov-20	18-Jan-21	16-Mar-21	06-May-21	85	1	Ī	<u>, </u>	-							
D.B1.A.1090	Construction of Bay 8 include ELS/excavation/rock fill/RC structure (CH265 to CH252, 12.2m)	49	07-Dec-20	04-Feb-21	23-Mar-21	25-May-21	85	1	ſ	<u> </u>	-							
D.B1.A.1100	Construction of Bay 9 include ELS/excavation/rock fill/RC structure (CH252 to CH240, 12.2m)	62	10-Dec-20	26-Feb-21	26-Mar-21	12-Jun-21	85	1			· · · · · · · · · · · · · · · · · · ·		ļ			·		
D.B1.A.1110	Construction of Bay 10 include ELS/excavation/rock fill/RC structure (CH240 to CH228, 12.2m)	50	12-Dec-20	11-Feb-21	31-Mar-21	03-Jun-21	87	1			-							
D.B1.A.1120	Construction of Bay 11 include ELS/excavation/rock fill/RC structure (CH228 to CH216, 12.2m)	49	23-Dec-20	24-Feb-21	15-Apr-21	12-Jun-21	87	1										
D.B1.A.1130	Remove existing bulk wall near Bay 0 CH364 and complete connection at Bay 0	29	10-Apr-21	14-May-21	15-Jun-21	19-Jul-21	53	1					ļ			·		
X CULVERT B1 (BAY12 CH216 TO	D BAY15 CH167)	187	15-Aug-20	31-Mar-21	24-Oct-20	12-Jun-21	57											
TD.B1.A.1140	Submission of method statement/temporary works design to MTRC and relevant authorities	145	15-Aug-20	06-Jan-21	24-Oct-20	17-Mar-21	70	2										
D.B1.A.1150	Submission and construction of diversion of existing EVA for Bay 12 to Bay 15 works	70	16-Oct-20	09-Jan-21	23-Dec-20	20-Mar-21	57	1		.								
D.B1.A.1160	Mobilization of plant/equipment for Bay 12 to Bay 15 sheetpile installation and TAM grouting works	3	07-Jan-21	09-Jan-21	18-Mar-21	20-Mar-21	57	1		1								
TD.B1.A.1170	Install sheetpile by silent piler and TAM grouting works	27	11-Jan-21	10-Feb-21	22-Mar-21	26-Apr-21	57	1										
D.B1.A.1180	Excavation and ELS installation for Bay 12 to Bay 15	18	11-Feb-21	06-Mar-21	27-Apr-21	18-May-21	57	1								l.		
D.B1.A.1190	Construction of Bay 12 include rock fill/RC structure (CH216 to CH204, 12.2m)	13	08-Mar-21	22-Mar-21	29-May-21	12-Jun-21	65	1		-								
D.B1.A.1200	Construction of Bay 13 include rock fill/RC structure (CH204 to CH192, 12.2m)	19	08-Mar-21	29-Mar-21	22-May-21	12-Jun-21	59	1		-	i							
D.B1.A.1210	Construction of Bay 14 include rock fill/RC structure (CH192 to CH180, 12.2m)	21	08-Mar-21	31-Mar-21	20-May-21	12-Jun-21	57	1		-								
D.B1.A.1220	Construction of Bay 15 include rock fill/RC structure (CH180 to CH167, 12.2m)	16	08-Mar-21	25-Mar-21	26-May-21	12-Jun-21	62	1		- L								
X CULVERT B1 (BAY16 CH167 TO	D BAY21 CH86)	170	27-Oct-20	26-May-21	30-Dec-20	29-Jul-21	53		-									
D.B1.A.1230	Construction of Bay 16 include ELS/exca/rock fill/RC structure (CH167 to CH155, 12.2m)	51	27-Oct-20	24-Dec-20	30-Dec-20	03-Mar-21	53	1										
D.B1.A.1240	Construction of Bay 17 include ELS/exca/rock fill/RC structure (CH155 to CH143, 12.2m)	60	27-Oct-20	07-Jan-21	30-Dec-20	13-Mar-21	53	1	+	*					t tt			
D.B1.A.1250	Construction of Bay 18 include ELS/exca/rock fill/RC structure (CH143 to CH131, 12.2m)	66	27-Oct-20	14-Jan-21	30-Dec-20	20-Mar-21	53	1										
D.B1.A.1260	Construction of Bay 19 include ELS/exca/rock fill/RC structure (CH131 to CH118, 12.2m)	75	02-Nov-20	30-Jan-21	06-Jan-21	10-Apr-21	53	1	L L									
D.B1.A.1270	Construction of Bay 20 include ELS/exca/rock fill/RC structure (CH118 to CH106, 12.2m)	102	14-Dec-20	22-Apr-21	20-Feb-21	26-Jun-21	53	1	h	•					t			
D.B1.A.1280	Construction of Bay 21 include ELS/exca/rock fill/RC structure (CH106 to CH94, 12.2m)	75	13-Jan-21	17-Apr-21	19-Mar-21	22-Jun-21	53	1		4								
D.B1.A.1290	Install ELS and excavate for expose existing box culvert for connection	20	19-Feb-21	13-Mar-21	27-Apr-21	21-May-21	53	1		7-								
D.B1.A.1300	Demolish existing box culvert for connection and modification of existing box culvert for connection	48	15-Mar-21	14-May-21	22-May-21	19-Jul-21	53	1		++Ē			<u>†</u> †	<mark> </mark>				
D.B1.A.1310	Diversion of existing flow into Box Culvert B1	40	10 1001-21	14-May-21	22 may-21	19-Jul-21	53				L.							
D.B1.A.1310 D.B1.A.1320	Construction of remaining modification works (incl wall, top slab and bulk wall for abadon existing box culvert)	9	15-May-21	26-May-21	20-Jul-21	29-Jul-21	53	1			L 🖬							
D.B1.A.1320 D.B1.A.1330	Acutal Advanced Completion of Box Culvert B1 (Related to Section 8)	0	10°iviay=21	26-May-21 26-May-21	20-JUI-2 I	29-Jul-21 29-Jul-21	64	2		++	▓▁▋▁▋		<u>├</u>		++-			
DIFICATION OF EXISTING SUE		916	24-Nov-20	20-May-21 27-Dec-23	24.Nov 20	29-Jul-21 27-Dec-23	04	2							╧┷┷╧			
							0											
.MS.0000	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings	180	24-Nov-20	22-May-21	24-Nov-20	22-May-21	0	2			- C		ļ		<u></u>			
.MS.1010	Pre-drilling works (1 no, 1 rig)	12	24-May-21	05-Jun-21	14-Aug-21	27-Aug-21	69				-							
.MS.1014	Liaison/coordinate with CLP for diversion of existing 11kV cables	95	01-Mar-21	26-Jun-21	01-Mar-21	26-Jun-21	0											
.MS.1015	Construct diversion of existing 11kV cables by CLP	52	28-Jun-21	27-Aug-21	28-Jun-21	27-Aug-21	0	1					<u> </u>					
MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	75	28-Aug-21	26-Nov-21	28-Aug-21	26-Nov-21	0	1								,		
0.MS.1021	Post-piling works tests (proof-drilling and load test)	18	27-Nov-21	17-Dec-21	27-Nov-21	17-Dec-21	0	1					17					
0.MS.1027	Demolition of existing subway structures (inclu. staircase and partial ramp)	78	18-Dec-21	25-Mar-22	18-Dec-21	25-Mar-22	0	1					^					
.MS.1030	Installation of ELS for construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	26-Mar-22	17-May-22	26-Mar-22	17-May-22	0	1						💾	-			
0.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	18-May-22	19-Sep-22	18-May-22	19-Sep-22	0	1							: •			
D.MS.1045	Backfilling of ELS to ground level	78	20-Sep-22	21-Dec-22	27-Jan-23	03-May-23	104	1								-		
D.MS.1060	Site clearance and demolition of remaining existing furnitures at existing subway under Road D1	26	20-Sep-22	21-Oct-22	08-Dec-22	10-Jan-23	66	1								-		
					-					• •			· · ·			r		
D.MS.1060 V Milestone		26	20-Sep-22		08-Dec-22	10-Jan-23	66 - Sta	ge 5B					s at tl	ne Fo	orme	:		

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	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total C Float		ASON	DJFM	202 A M J				2022 J J A S O I	NDJF	MAM
D.MS.1070	Construct roof and floor finishes along existing subway under Road D1	39	22-Oct-22	06-Dec-22	11-Jan-23	27-Feb-23	66	1									
S.1080	Install VE panels and its sub-frame along existing subway under Road D1	26	07-Dec-22	09-Jan-23	20-May-23	20-Jun-23	131	1								┝━╡	
1090	Install steel frame of shelter for new staircase and lift shaft	39	07-Dec-22	26-Jan-23	28-Feb-23	18-Apr-23	66	1								-	
1100	Construct wall/floor finishes for new staircase	52	27-Jan-23	28-Mar-23	19-Apr-23	20-Jun-23	66	1								┝╍┢╧	
.1110	Lift and other E&M installation, testing and commissioning	156	29-Mar-23	07-Oct-23	21-Jun-23	27-Dec-23		1) [+
.2000	Implement TTA (Phase 1) for closing half Ramp 2, existing staircase@TKL Rd and LHS of subway part	12	16-Jun-22	29-Jun-22	16-Jun-22	27-Dec-23 29-Jun-22	00	1		++							
		12					•	-						l t			
.2010	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl hardrail/guardrail/lighings	26	30-Jun-22	30-Jul-22	30-Jun-22	30-Jul-22	0	1									
.2020	Construct wall/floor finishes for half Ramp 2 and existing staircase@TKL Rd	39	01-Aug-22	15-Sep-22	01-Aug-22	15-Sep-22		1									
\$.2030	Construct roof and floor finishes along LHS of subway part	45	16-Sep-22	09-Nov-22	16-Sep-22	09-Nov-22	0	1									
S.2040	Install VE panels and its sub-frame along LHS of subway part	39	10-Nov-22	24-Dec-22	10-Nov-22	24-Dec-22	0	1									
IS.2050	Advance works for installing steel shelter for existing staircase@TKL Rd	18	31-Aug-22	21-Sep-22	13-Oct-22	02-Nov-22	34	1							- 9		
/IS.2060	Implement TTA for lift and install main steel frame of shelter for existing staircase@TKL Rd (Nightwork maybe required)	26	22-Sep-22	24-Oct-22	03-Nov-22	02-Dec-22	34	1							-	+	
MS.2070	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	25-Oct-22	11-Jan-23	03-Dec-22	22-Feb-23	34	1							▶		
MS.2080	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS subway part	52	12-Dec-22	15-Feb-23	12-Dec-22	15-Feb-23	0	1									
MS.2000 MS.2090		52					•	1	••••••	<u></u>					·+····		
	Site clearance for open the completed part to public	6	16-Feb-23	22-Feb-23	16-Feb-23	22-Feb-23	0	1								ļ	
MS.2100	Implement TTA (Phase 2) for closing 2nd half Ramp 2, full Ramp 1 and RHS of subway part	12	23-Feb-23	08-Mar-23	23-Feb-23	08-Mar-23	0	1									1
MS.2110	Demolition of existing wall tiles at staircases, floor finishes and furnitures, incl handrail/guardrail/lightings	26	09-Mar-23	12-Apr-23	09-Mar-23	12-Apr-23	0	1								-1	-
/IS.2120	Construct wall/floor finishes for 2nd half Ramp 2 and full Ramp 1	39	13-Apr-23	30-May-23	13-Apr-23	30-May-23	0	1									
MS.2130	Construct roof and floor finishes along RHS of subway part	45	31-May-23	24-Jul-23	31-May-23	24-Jul-23	0	1									
MS.2140	Install VE panels and its sub-frame along RHS of subway part	39	25-Jul-23	07-Sep-23	25-Jul-23	07-Sep-23	-	1									
MS.2150	Advance works for installing steel shelters for Ramp 2 and Ramp 1	18	15-May-23	05-Jun-23	02-Aug-23	22-Aug-23		1		<u>+</u> ++				+	++		╶╴
					-			1									ļ
MS.2160	Implement TTA for lift and install main steel frame of shelter for Ramp 2 and Ramp 1 (Nightwork maybe required)	39	06-Jun-23	22-Jul-23	23-Aug-23	09-Oct-23	65										
MS.2170	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	24-Jul-23	09-Oct-23	10-Oct-23	27-Dec-23		1		<u> </u>							
MS.2180	Install remaining E&M works inclu lighting and drainage system and steel light trough for RHS subway part	52	25-Aug-23	27-Oct-23	25-Aug-23	27-Oct-23	0	1									
MS.9000	Advanced Completion of modification of existing Subway KS10	61	28-Oct-23	27-Dec-23	28-Oct-23	27-Dec-23	0	2									
MS.9999	Planned Completion of modification of existing Subway KS10 (Related to Section 3)	0		27-Dec-23		27-Dec-23	0	2									
ISTRUCTION OF DISTRICT O		742	27-Mar-21	26-Sep-23	19-Jul-21	26-Sep-23	0	11									
								_									
DCS.1000	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	27-Mar-21	22-Sep-21	19-Jul-21	14-Jan-22		2				4-			+		
DCS.1010	Allow time frame for CLP new 132kV cable laying works at Road L9 (Refer to Programme provided by CLP on 16 Jun 2021)	48	11-Oct-21	06-Dec-21	15-Jan-22	15-Mar-22		1		ļ		ب					
DCS.1020	Install ELS and excavate from SV-S-2A5B to CH280	52	07-Dec-21	11-Feb-22	16-Mar-22	21-May-22	79	1					┣╋╤	4			
DCS.1030	Construct chamber and install pipe&fiiting of SV-S-2A5B	90	12-Feb-22	04-Jun-22	23-May-22	06-Sep-22	79	1					-				
DCS.1040	Install pipeline from SV-S-2A5B to CH280 (52mL, 14 joints)	26	06-Jun-22	06-Jul-22	07-Sep-22	10-Oct-22	79	1						-			
DCS.1040	Backfilling for trench from SV-S-2A5B to CH280	26			11-Oct-22	09-Nov-22		1	·	<u>+</u>					*		
	•		07-Jul-22	05-Aug-22											-		
DCS.1060	Install ELS and excavate from CH310 to SV-S-2A10/CH334	21	06-Aug-22	30-Aug-22	10-Nov-22	03-Dec-22		1									
DCS.1070	Construct chamber and install pipe&fitting of SV-S-2A10	90	31-Aug-22	16-Dec-22	05-Dec-22	24-Mar-23		1		<u> </u>							
DCS.1080	Backfilling for trench from CH310 to SV-S-2A10	21	17-Dec-22	13-Jan-23	25-Mar-23	22-Apr-23	79	1								-	
DCS.1090	Construct ducting and drawpits from SV-S-2A5B/SV-S-2A10 to CH280	26	14-Jan-23	15-Feb-23	24-Apr-23	24-May-23	79	1								Ŀ ⊨ ⊟ <mark>I</mark>	
DCS.1100	Install ELS and excavate from SV-S-2A5A/CH190 to CH220	52	20-Sep-22	21-Nov-22	20-Sep-22	21-Nov-22		1							÷ 😐		
DCS.1110	Construct chamber and install pipe&filting of SV-S-2A5A	90	22-Nov-22	11-Mar-23	22-Nov-22	11-Mar-23		1		<u> </u>				+	╪╴╴╴┾╴┡		i tt
								<u>-</u>									_
.DCS.1120	Install pipeline from SV-S-2A5A to CH220	26	13-Mar-23	15-Apr-23	13-Mar-23	15-Apr-23	0	1								- I	7
.DCS.1130	Implementation of TTA for existing roundabout at Olympic Avenue	7	22-Nov-22	29-Nov-22	03-Dec-22	10-Dec-22	10	1		 .						-1	
.DCS.1140	Site clearance, cable detection and trial pit excavation at existing public road at Olympic Avenue	21	30-Nov-22	23-Dec-22	12-Dec-22	07-Jan-23	10	1									
.DCS.1150	Install ELS and excavate from CH220 to CH280	52	24-Dec-22	28-Feb-23	09-Jan-23	11-Mar-23	10	1								╘╾╡╤╤	
.DCS.1160	Install pipeline from CH220 to CH280	26	01-Mar-23	30-Mar-23	13-Mar-23	15-Apr-23	10	1								-	4 i
.DCS.1170	Backfilling for trench from SV-S-2A5A to CH280	32	17-Apr-23	24-May-23	17-Apr-23	24-May-23	0	1		t							-
.DCS.1180	Construct ducting and drawpits from CHV-S2A5A to CH100	52	25-May-23			27-Jul-23	0	1									L.
				27-Jul-23	25-May-23												
.DCS.1190	Install ELS and excavate from SV-S-2A4/CH100 to CH190	52	06-Mar-23	10-May-23	06-Mar-23	10-May-23		1		 							
.DCS.1200	Construct chamber and install pipe&fitting of SV-S-2A4	90	06-Apr-23	27-Jul-23	06-Apr-23	27-Jul-23	0	1									1
DCS.1210	Install pipeline from SV-S-2A4 to CH190	65	27-Jun-23	11-Sep-23	27-Jun-23	11-Sep-23	0	1									
DCS.1220	Backfilling for trench from SV-S-2A4 to CH190	26	28-Aug-23	26-Sep-23	28-Aug-23	26-Sep-23		1									
DCS.1230	Install ELS and excavate from CH0 to CH100	52	06-Mar-23	10-May-23	06-Mar-23	10-May-23		1	1	t							
DCS.1230	Install pipeline from CH0 to CH100	-					0	·									
		26	11-May-23	10-Jun-23	11-May-23	10-Jun-23											
DCS.1250	Backfill for trench from CH0 to CH100	38	12-Jun-23	27-Jul-23	12-Jun-23	27-Jul-23	0	1							4		
DCS.1260	Construct ducting and drawpits from CH100 to CH0 and existing drawpit	26	28-Jul-23	26-Aug-23	28-Jul-23	26-Aug-23	0	1									
DCS.1270	T&C of the installed DCS pipes before connection to existing DCS system	26	28-Aug-23	26-Sep-23	28-Aug-23	26-Sep-23	0	1									
DCS.1280	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0		26-Sep-23		26-Sep-23	0	2									
OVATION OF EXISTING SUB		938	31-Jul-20	26-Sep-23	03-Nov-20	26-Sep-23			1								
								<u> </u>									
RS.1000	Liasion with UAP project and relevant departments for possession approval/consent	366	31-Jul-20	31-Jul-21	03-Nov-20	03-Nov-21		2		:							
RS.1001	Prepare/submisstion of TTA for KS9 and KS32	45	01-Aug-21	14-Sep-21	04-Nov-21	18-Dec-21	95	2		 		-					<u> </u>
RS.1002	Submission for MS/Shop Drawings/Material for shelter for KS9 and KS32	63	16-Aug-21	17-Oct-21	19-Nov-21	20-Jan-22	95	2				-	·,				
RS.1003	Off-site fabrication of shelter for KS9 and KS32	90	18-Oct-21	15-Jan-22	13-Mar-22	10-Jun-22	146	2				Li - Li	l				
RS.1010	Application of XP for renovation works of existing subway KS9 and KS32	153	18-Aug-21	17-Jan-22	18-Aug-21	17-Jan-22	0	2				-					
OVATION OF EXISTING SUBW			-		-			-		<u>+</u>				<u></u>	<u></u>		
		502	18-Jan-22	26-Sep-23	18-Jan-22	26-Sep-23											
.KS32.1000	Implement TTA (Phase 1) for closing staircases at both sides and one side of Subway KS32	3	18-Jan-22	20-Jan-22	18-Jan-22	20-Jan-22		1					P				
.KS32.1010	Site clearance and erect temporary partition along Subway KS9 for working area	26	21-Jan-22	23-Feb-22	21-Jan-22	23-Feb-22	0	1									
.KS32.1020	Demolition of existing wall tiles at both side staircases, floor finishes and furnitures, incl handrail/guardrail/lights	60	24-Feb-22	11-May-22	24-Feb-22	11-May-22	0	1						-			
.KS32.1025	Construct wall and floor finishes at both staircases	26	25-Apr-22	26-May-22	25-Apr-22	26-May-22	0	1						-			
.KS32.1030	Construct roof and floor finishes along LHS of subway part	65	27-May-22	12-Aug-22	06-Jun-22	20-Aug-22		1									
.KS32.1030		39		-		08-Oct-22	7	1	+	<u>+</u>							-
	Install VE panel and its sub-frame along LHS of subway part		13-Aug-22	28-Sep-22	22-Aug-22		1								1		
.KS32.1050	Advance works for installing steel shelters for both sides staircases	12	27-May-22	10-Jun-22	27-May-22	10-Jun-22	0	1						1			
.KS32.1060	Implement TTA for lifting and install main steel frame of shelters for both sides staircases (Nightwork maybe required)	21	11-Jun-22	06-Jul-22	11-Jun-22	06-Jul-22	0	1		 					=		
.KS32.1070	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities for both sides staircases	78	07-Jul-22	08-Oct-22	07-Jul-22	08-Oct-22	0	1							-		
0.KS32.1080	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS of subway part	65	10-Oct-22	23-Dec-22	10-Oct-22	23-Dec-22	0	1							- -	-	
0.KS32.1090	Implement TTA (Phase 2) for closing RHS of subway part	12	24-Dec-22	10-Jan-23	24-Dec-22	10-Jan-23	0									⊑ <u>⊢</u>	
							-	- <u>-</u> -	· · · · · · · · · · · · · · · · · · ·	↓					·+····		-
.KS32.1100	Site clearance and erect temporary partition along subway part for working area	13	11-Jan-23	27-Jan-23	11-Jan-23	27-Jan-23	0	1							<u> </u>	<mark>17</mark>	
														-			
	Planned W/																n A
✓ Milestone	Planned W	ED	0/2018/0	5 Kai la	k Devel	opment	i - Sta <u>q</u>	je ∋⊟	Infras	tructu	re W	orks	at the	Forme	er North	1 Apro	n A
	Planned W Summary	ED	0/2018/0	5 Kai la	k Devel	opment			S Infras			orks	at the	Forme	er North	1 Apro	л А

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	Activity Name	Dur (d)		-	Late Start		Float	h	ASON	DJFMAM	2021 JJJA	SONI	JFN	2022 M A M J J		JFM	A
D.KS32.1110	Demolition of existing floor finishes and furnitures, incl lighting	26	28-Jan-23		28-Jan-23	27-Feb-23		1					1 T			-	
D.KS32.1120	Construct roof and floor finishes along RHS of subway part	65	28-Feb-2	3 19-May-23	28-Feb-23	19-May-23		1									i.
D.KS32.1130	Install VE panels along RHS of subway part	39	20-May-2	3 07-Jul-23	20-May-23	07-Jul-23	0	1									6 ľ
D.KS32.1140	Install remaining E&M works inclu lighting and drainage system and steel light trough at Subway KS9	52	08-Jul-23	3 06-Sep-23	08-Jul-23	06-Sep-23	0	1									
D.RS. 1030	Planned Completion of renovation of existing Subways KS9 and KS32 (Related to Section 1)	0		06-Sep-23		06-Sep-23	0	2									
D.RS. 1040	Advance Completion of renovation of existing Subways KS9 and KS32 to Specific Contract Completion Date (Sec	ction 1) 20	07-Sep-23	3 26-Sep-23	07-Sep-23	26-Sep-23	0	2									
NOVATION OF EXISTING S		400			18-Jan-22	06-Sep-23		1						<u>++</u> +++		┿┿┿╋	÷
D.KS9.1000		3	18-Jan-22	-	18-Jan-22	20-Jan-22		1									
	Implement TTA (Phase 1) for closing staircases at both sides and LHS of subway part							1									<u>-</u>
D.KS9.1010	Site clearance and erect temporary partition along subway part for working area	26	21-Jan-22		21-Jan-22	23-Feb-22		1									
D.KS9.1020	Demolition of existing wall tiles at both side staircases, floor finishes and furnitures, incl handrail/guardrail/lights	39	24-Feb-2	2 11-Apr-22	24-Feb-22	11-Apr-22	0	1					- F	록: :			
D.KS9.1025	Construct wall and floor finishes at both staircases	26	26-Mar-2	2 29-Apr-22	26-Mar-22	29-Apr-22	0	1						911			
D.KS9.1030	Construct roof and floor finishes along LHS of subway part	45	30-Apr-22	2 24-Jun-22	14-Sep-22	07-Nov-22	112	1						-			Ĩ
D.KS9.1040	Install VE panels and its sub-frame along LHS of subway part	26	25-Jun-22	2 26-Jul-22	08-Nov-22	07-Dec-22	112	1							a		
D.KS9.1050	Advance works for installing steel shelters for both sides staircases	12	30-Apr-22		30-Apr-22	16-May-22	_	1									
															· + · · · · · · · · · · ·		÷
0.KS9.1055	Implement TTA for lifting and install main steel frame of shelters for both sides staircases (Nightwork maybe require	,	17-May-2		17-May-22			1									
0.KS9.1060	Install remaining steel members, glass balustrade, shelter roof top and ancillary facilities	65	11-Jun-22	2 26-Aug-22	21-Sep-22	07-Dec-22	_	1									
.KS9.1070	Install partial E&M works inclu lighting and drainage system and steel light trough for LHS of subway part	52	27-Aug-22	2 29-Oct-22	08-Dec-22	11-Feb-23	85	1							-		
.KS9.1080	Implement TTA (Phase 2) for closing RHS of subway part	12	31-Oct-22	2 12-Nov-22	13-Feb-23	25-Feb-23	85	1							-		ſΤ
0.KS9.1090	Site clearance and erect temporary partition along subway part for working area	13	14-Nov-22	2 28-Nov-22	27-Feb-23	13-Mar-23	85	1			11						
D.KS9.1100	Demolition of existing floor finishes and furnitures, incl lighting	21	29-Nov-2		14-Mar-23	11-Apr-23		1							, ⊑		61
	Construct roof and floor finishes along RHS of subway part	45				· ·		4			l		-+	+		- <u></u>	ŧ+
D.KS9.1110	o 1		23-Dec-22		12-Apr-23	05-Jun-23	_	-			11						11
D.KS9.1120	Install VE panels along RHS of subway part	26	20-Feb-2		06-Jun-23	07-Jul-23	85	1									
D.KS9.1130	Install remaining E&M works inclu lighting and drainage system and steel light trough at Subway KS9	52	22-Mar-2	3 27-May-23	08-Jul-23	06-Sep-23	85	1									<u>.</u>
ERSION OF EXISTING RI	SING MAIN AND DEMOLITION OF EXISTING STRUCTURES AT SITE 2C2 & 2C3	373	16-Sep-20	0 17-Dec-21	17-Sep-20	17-Dec-21	0						7				<u>(</u> [
RM.1000	Liasion with relevant departments for removal of abandoned motorcycles under existing structures at Site 2C2 and	d 2C3 60	16-Sep-20	0 14-Nov-20	17-Sep-20	15-Nov-20	1	2	-								61
RM.1001	Removal of abandoned motorcycles and clearance for demolition works	14	16-Nov-20		16-Nov-20	01-Dec-20	_	1									61
	· · · · · · · · · · · · · · · · · · ·						_	· ·	C								÷
RM.1002	Conduct asbestos survey and submission of AIR/AAP to EPD for approval	37	02-Dec-20		02-Dec-20	07-Jan-21	0	2						1			61
RM.1003	Submit notification of commencement of removal works of asbestos at existing cottage at Site 2C2 and 2C3	27	08-Jan-21		08-Jan-21	03-Feb-21	0	2									
RM.1004	Erect scaffold and demolition of existing RC structure at Site 2C2 and 2C3	39	08-Jan-21	1 25-Feb-21	20-Jan-21	09-Mar-21	10	1		* -							
RM.1005	Erect protection, removal of asbestos and demolition of existing cottage at Site 2C2 and 2C3	26	04-Feb-2	1 09-Mar-21	04-Feb-21	09-Mar-21	0	1		-							ſΤ
RM.1011	Trial pit excavation to locate existing twin rising main at CH0 and CH184 (1 team)	12	10-Mar-2	1 23-Mar-21	10-Mar-21	23-Mar-21	0	1									
RM.1012	Open-cut excavation for construction of twin rising main from CH0 to CH184 (175mL, 3500m3 exca, 1 team)	63	24-Mar-2		24-Mar-21	11-Jun-21	0	1									
RM.1012	· · · · · · · · · · · · · · · · · · ·						0	4			f						÷
	Lay and install pipeworks and cast thrust blocks for twin rising main from CH0 to CH184 (184mL)	115	r		17-Apr-21	02-Sep-21	, v										
.RM.1021	Install ELS and excavate for connection pit for twin rising main at CH0 and CH184 (20mL, 960m3 exca, 1 team)	39	19-Aug-2		19-Aug-21	05-Oct-21	0	1				7 _					
.RM.1025	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 1	18	06-Oct-21	1 27-Oct-21	06-Oct-21	27-Oct-21	0	1									
RM.1027	Cut existing rising main, lay and install pipeworks and cast thrust blocks for connection of Pipeline 2	18	28-Oct-21	1 17-Nov-21	28-Oct-21	17-Nov-21	0	1									
RM.1030	Backfilling works and abandon the existing sewage rising main	26	18-Nov-2	1 17-Dec-21	18-Nov-21	17-Dec-21	0	1					<u> </u>				
RM.1040	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0		17-Dec-21		17-Dec-21	0	2				-	┢				
STRUCTION OF ROAD	WORKS	1401	31-Jul-20) 22-Apr-25	01-Sep-20	30-Jun-25	56		V						<u> </u>		
NSTRUCTION OF SLIP ROA		761	31-Jul-20) 22-Feb-23	05-Jul-21	27-Dec-23											
D.SR. 1000	Liaison/coordinate with utility and service undertakings on diversion works (including CLP, DCS work and etc.)	180	31-Jul-20) 26-Jan-21	10-Jul-21	05-Jan-22	344	2	-								E.
).SR.1010	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV ca	ables) 104	21-Oct-20	0 26-Feb-21	30-Sep-21	07-Feb-22	279	1	1								ſ
).SR.1020	Pre-drilling works for pile caps PC1, PC2 and south side of PC3 to PC7 (14 nos, 2 rigs)	131	27-Nov-2	0 11-May-21	05-Jul-21	07-Dec-21	174	1									
D.SR.1030	Pre-drilling works for pile caps north side of PC3 to PC7 (10 nos, 2 rigs)	47	12-May-2		08-Dec-21	07-Feb-22	_	1									(II)
D.SR.1040	Piling works of pre-bored H-piles (14 nos, 610dia x 70m, 1 rig)	91	09-Jul-21		08-Feb-22	31-May-22		1						+			ŝt.
		• ·					_	-									
D.SR.1050	Installation of ELS and excavation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)	26	27-Oct-21		01-Jun-22	02-Jul-22	174	- 1									
).SR.1060	Construction of temporary supporting system for existing bridge K73	39	26-Nov-2	1 13-Jan-22	19-Apr-23	05-Jun-23	410	1				17-					£
).SR.1070	Demolition of existing bearing wall	26	14-Jan-22	2 16-Feb-22	06-Jun-23	07-Jul-23	410	1									
0.SR.1080	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)	26	17-Feb-2	2 18-Mar-22	08-Jul-23	07-Aug-23	410	1					-				
).SR.1090	Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)	52	19-Mar-2	2 25-May-22	08-Aug-23	09-Oct-23	410	1					L <mark>4</mark> -1				
).SR.1100	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	39			10-Oct-23	24-Nov-23	_	1									÷
			26-May-2				_	4						T ₁	_		
).SR.1110	Backfilling for pile caps (PC1 and PC2)	26	13-Jul-22		25-Nov-23	27-Dec-23	_							_ ī			
).SR.2000	Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)	130			23-Jun-22	25-Nov-22	_	1					F	<u></u>			(
).SR.2010	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52	04-Apr-22	2 10-Jun-22	26-Nov-22	31-Jan-23	192	1			11		⁴	*			
.SR.2020	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	39	11-Jun-22	2 27-Jul-22	01-Feb-23	17-Mar-23	192	1			11			÷ 4	4		
.SR.2030	Construction of bridge S14 decking structures (320m3, 1 teams)	32	28-Jul-22	2 02-Sep-22	18-Mar-23	28-Apr-23	192	1			11			4	-		61
.SR.2040	Prestressing works and bearing installation works	26	03-Sep-22		12-May-23	12-Jun-23	_	1			[]			1	•		ŕt
.SR.2050		36	03-Sep-22		29-Apr-23	12-Jun-23	_	1							L <mark>→</mark>		(L
	Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)						_				11						6L
).SR.3000	Installation of ELS and excavation for Retaining Wall S14 (Bay5-11, 3600m3 exca, 2 team)	90	27-Oct-21		01-Jun-22	16-Sep-22	_	1						<u></u>			64
.SR.3010	Construction of Retaining Wall S14 (Bay5-11, 800m3, 2 teams)	184	10-Jan-22	2 24-Aug-22	13-Aug-22	24-Mar-23	_	1			11	1	7	; [=		£L.
.SR.3020	Backfilling for Retaining Wall S14 (Bay8-11, 1100m3, 2 teams)	90	22-Jul-22	2 07-Nov-22	20-Feb-23	10-Jun-23	174	1									el.
.SR.3030	Excavate and construct stormwater drain from SMH1062 to SMH1066 and associated gullies	52	15-Oct-22	2 14-Dec-22	18-May-23	20-Jul-23	174	1							<u>ب</u>	1	(EL
.SR.3050	Backfill and compact sub-base from CH336 to CH124	18	05-Dec-22		11-Jul-23	31-Jul-23	174	1			l			111	-		<u>f</u> t
.SR.3060	Construction of road pavement, road marking, street and other facilities	46	28-Dec-2		02-Nov-23	27-Dec-23		1			11				Ģ		T
		40	20-060-21		02-1100-23		_	2			11					T.	÷.
SR.9999	Planned Completion of Slip Road S14 (Related to Section 3)	-	010	22-Feb-23	04.0	27-Dec-23		2			L	<u></u>	<u> </u>			<u></u>	L.L
ISTRUCTION OF ROADS I	D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES	1374	01-Sep-2	0 22-Apr-25	01-Sep-20	30-Jun-25											
NSTRUCTION OF ROADS	L9 & L16 AND OLYMPIC AVENUE WITHIN PART 1	643	30-Jul-21	26-Sep-23	30-Jul-21	26-Sep-23	0					-	++	\pm			βË
INSTRUCTION OF UNDER	RECOUND UTILITIES AND ROADWORKS AT ROAD L16 WITHIN PART 1 (NON-XP AREA)	643	30-Jul-21	26-Sep-23	30-Jul-21	26-Sep-23	0					÷++	++	+++		┿┿┿╬	H
								1			-		-+	· · · · · · · · · · · · · · · · · · ·			f-f
D.L16.1000	Excavate and construct stormwater drainage from SMH904 to SMH911 and associated drain pits	11	30-Jul-21		30-Jul-21	11-Aug-21		· ·			L C						[]
D.L16.1010	Backfill and compact the excavated trench from SMH904 to SMH911	3	12-Aug-2		12-Aug-21	14-Aug-21	_	1			12						[]
D.L16.1014	Excavate and construct stormwater drainage from SMH909 to SMH911 and associated drain pits	29	16-Aug-2	-	16-Aug-21	17-Sep-21	_	1				<u>I</u>					<u>(</u>]
FD.L16.1017	Backfill and compact the excavated trench from SMH909 to SMH911	15	18-Sep-2	1 07-Oct-21	18-Sep-21	07-Oct-21	0	1									
TD.L16.1020	Excavate and demolish the existing box culvert and backfill at Road L16	30	08-Oct-2	1 12-Nov-21	08-Oct-21	12-Nov-21	0	1				4 9					[]]
TD.L16.1030	Excavate and construct stormwater drainage fm SMH911 to SMH916 and associated drain pits	52	13-Nov-2			15-Jan-22	_	1				╡┕╸┢╸	📥 丨				(I
			.01101-2				5	•	1		1 :			<u>. [i</u>			<u>i: E</u>
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✓ Milestone ✓ Critical Milestone	Planned W V Summary	EL	D/2018/	05 Kai Ta	k Devel	opment	t - Sta	ige 5E	Infras	tructure	work	s at i	the F	ormer	North A	Apron	1

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	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total C Float		SONDJFM	2021 M A M J J A S O N D		MJJASOI	NDJFM	
TD.L16.1040	Backfill and compact the excavated trench from SMH911 to SMH916	18	17-Jan-22	09-Feb-22	17-Jan-22	09-Feb-22	0	1			F			
TD.L16.1050	Excavate and construct sewerage from SWTP1_1 to FMH10_40 (182mL pipeline and manholes)	78	10-Feb-22	18-May-22	10-Feb-22	18-May-22	0	1				4		
D.L16.1060	Excavate and install fresh watermain from CHC0 to CHC180 and associated tees with chambers	60	19-May-22	29-Jul-22	19-May-22	29-Jul-22	0	1				- Heige		
D.L16.1070	Excavate and install salt watermain from CHC0 to CHC180 and associated tees with chambers	39	30-Jul-22	14-Sep-22	30-Jul-22	14-Sep-22	0	1			-	1-100		tt:
D.L16.1080	Excavate and install irregation pipeline at Road L16 within Part 1	26	15-Sep-22	17-Oct-22	15-Sep-22	17-Oct-22	0	1						
D.L16.1090	Install and construct gully and associated drain pipes at Road L16 within Part 1	26	13-3ep-22 18-Oct-22	16-Nov-22	13-3ep-22 18-Oct-22	16-Nov-22	0	$\frac{1}{1}$,	
							0	4						
D.L16.1100	Install and construct road lighting and drawpits civil provisions at Road L16 within Part 1	26	17-Nov-22	16-Dec-22	17-Nov-22	16-Dec-22	•							
D.L16.1110	Allowable time frame for UU undertakings to install their ducts/pits/chambers at Road L16 within Part 1	26	17-Nov-22	16-Dec-22	17-Nov-22	16-Dec-22	0	1						
D.L16.1120	Backfill and compact to roadwork formation level at Road L16 within Part 1	12	17-Dec-22	03-Jan-23	17-Dec-22	03-Jan-23	0	1						
D.L16.1130	Construct road kerb and planter at Road L16 within Part 1	39	04-Jan-23	20-Feb-23	04-Jan-23	20-Feb-23	0	1						
D.L16.1140	Backfill and compact sub-base material for road work at Road L16 within Part 1	52	28-Jan-23	29-Mar-23	28-Jan-23	29-Mar-23	0	1						ŧĿ.
D.L16.1150	Construct carriagway pavement (Bitumen and concrete pavement) at Road L16 within Part 1	40	30-Mar-23	20-May-23	30-Mar-23	20-May-23	0	1					- 4	(in the second se
D.L16.1160	Lay paving blocks for pedestrian access at Road L16 within Part 1	78	22-May-23	23-Aug-23	27-Jun-23	26-Sep-23	29	1						Ĩ.
D.L16.1170	TTA diversion for MTR SWT Station EVA (Stage 3, divert to newly constructed L16 as EVA)	7	22-May-23	30-May-23	22-May-23	30-May-23	0	1						14
		10					0							
D.L16.1180	Excavate and construct remaining stormwater drainage and watermain connection	18	31-May-23	20-Jun-23	31-May-23	20-Jun-23	U							
D.L16.1190	Construct remaining road kerb/planter at Road L16 within Part 1	12	21-Jun-23	06-Jul-23	21-Jun-23	06-Jul-23	0	1						
D.L16.1200	Allowable time frame for UU undertakings to install remaining ducts/pits/chambers at Road L16 within Part 1	18	07-Jul-23	27-Jul-23	07-Jul-23	27-Jul-23	0	1						
D.L16.1210	Lay paving blocks for remaining pedestrian access at Road L16 within Part 1	26	28-Jul-23	26-Aug-23	28-Jul-23	26-Aug-23	0	1						
D.L16.1220	Install road furnitures, road markings and landscaping works at Road L16 within Part 1	52	28-Jul-23	26-Sep-23	28-Jul-23	26-Sep-23	0	1						
D.L16.1230	Planned completion of underground utilities and roadworks at Road L16 within Part 1 (related to Section 1)	0	1	26-Sep-23	-	26-Sep-23	0	2						
	ROUND UTILITIES AND ROADWORKS AT ROAD L9 WITHIN PART 1 (NON-XP AREA)	444	29-Mar-22	26-Sep-23	29-Mar-22	26-Sep-23	0	-			+	+	──┼─┼	<u>i ii</u>
			23-1Vid1-22		23-11101-22		0	_ . .			-+ L			 - -
D.L9.1000	TTA diversion for MTRC SWT Station EVA (Stage 2, divert to Sung Wong Toi Road and Crowd Dispersal Route)	0		29-Mar-22		29-Mar-22	0	1			1 F _			
D.L9.1010	Excavate and demolish the existing box culvert and backfill at Road L9	35	30-Mar-22	16-May-22	30-Mar-22	16-May-22	0	1				411		
D.L9.1020	Excavate and construct stormwater drainage from SMH1026 to SMH454 and associated drain pits	48	17-May-22	13-Jul-22	17-May-22	13-Jul-22	0	1			 	-		
D.L9.1030	Excavate and install fresh watermain from CHB126 to CHB50 at Road L9 within Part 1	30	14-Jul-22	17-Aug-22	14-Jul-22	17-Aug-22	0	1				-		<u>nti</u>
D.L9.1040	Excavate and install salt watermain from CHB 125 to CHB50 at Road L9 within Part 1	30	18-Aug-22	22-Sep-22	18-Aug-22	22-Sep-22	0	1				└₋		
D.L9.1050	Excavate and install are watermann non-on-bized to chood at road Lo within 1 are 1 Excavate and install irregation pipeline at Road L9 within Part 1	26	23-Sep-22	25-Oct-22	23-Sep-22	22-0ep-22 25-Oct-22	0							
							0	<u>'</u> - -		+	-+			+ #-
D.L9.1060	Install and construct gully and associated drain pipes at Road L9 within Part 1	18	26-Oct-22	15-Nov-22	26-Oct-22	15-Nov-22	0	1						
D.L9.1070	Install and construct road lighting and drawpits civil provisions at Road L9 within Part 1	18	16-Nov-22	06-Dec-22	16-Nov-22	06-Dec-22	0	1					₽_	
D.L9.1080	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road L9 within Part 1 (non-XP area)	26	07-Dec-22	09-Jan-23	07-Dec-22	09-Jan-23	0	1				^L	- 📕 🕴	
D.L9.1090	Backfill and compact to roadwork formation level at Road L9 within Part 1	18	10-Jan-23	01-Feb-23	10-Jan-23	01-Feb-23	0	1					4	(T)
D.L9.1100	Construct road kerb and planter at Road L9 within Part 1	26	02-Feb-23	03-Mar-23	02-Feb-23	03-Mar-23	0	1					┕╸┢╸	
D.L9.1110	Backfill and compact sub-base material for road work at Road L9 within Part 1	39	02-1 e0-23 04-Mar-23	22-Apr-23	02-1 e0-23 04-Mar-23	22-Apr-23	0							
							-	<u> </u>		+	-+	-+-+	····	1
D.L9.1120	Construct carriageway pavement (Bitumen pavement) at Road L9 within Part 1	52	24-Apr-23	26-Jun-23	24-Apr-23	26-Jun-23	0	1						
D.L9.1130	Lay paving blocks for pedestrian access at Road L9 within Part 1	78	27-Jun-23	26-Sep-23	27-Jun-23	26-Sep-23	0	1						
D.L9.1140	Planned completion of underground utilities and roadworks at Road L9 within Part 1 (non-XP area, related to Section 1)	0		26-Sep-23		26-Sep-23	0	2						
NSTRUCTION OF UNDERGR	ROUND UTILITIES AND ROADWORKS AT JUNCTION OF L9 & OLYMPIC AVENUE W/IN PART 1	265	04-Feb-22	22-Dec-22	24-Feb-22	22-Dec-22	0	1						
D.L9.2000	Implement TTA for construct preliminary works for Olympic Avenue roundabout closure	3	04-Feb-22	07-Feb-22	24-Feb-22	26-Feb-22	17	1			1			
D.L9.2010	Preliminary works for Olympic Avenue roundabout closure (incl demolish central divider, construct pavement and marking)	26	08-Feb-22		28-Feb-22	29-Mar-22	17	1						
			00-160-22		20-100-22			<u>_</u>						H
D.L9.2020	TTA diversion for MTR SWT Station EVA (Stage 2, divert to Sung Wong Toi Road and Crowd Dispersal Route)	0	-	29-Mar-22	00.1	29-Mar-22	0				I E			
D.L9.2030	Setup and implement TTA for Olympic Avenue roundabout closure	3	30-Mar-22	01-Apr-22	30-Mar-22	01-Apr-22	0	1			F			
D.L9.2040	UU detection and trial pit excavation	3	02-Apr-22	06-Apr-22	02-Apr-22	06-Apr-22	0	1			-			
D.L9.2050	Excavate and construct stormwater drainage from SMH1026 to SMH1042	39	07-Apr-22	27-May-22	07-Apr-22	27-May-22	0	1			L	<u>-</u>		
D.L9.2060	Excavate and construct sewerage from 2A8_1 to FMH23_2	26	28-Mav-22	28-Jun-22	28-May-22	28-Jun-22	0	1			4	-		
D.L9.2070	Excavate and construct FWM/SWM from CHB50 to CHB0 and CHA450 to CHA360 and associated tees with chambers	26	29-Jun-22	29-Jul-22	29-Jun-22	29-Jul-22	0	1				-		
D.L9.2080	Excavate and constall irregation pipeline at Junction of Road L9 & Olympic Avenue within Part 1	12	30-Jul-22		30-Jul-22	12-Aug-22	0	· - -		+		- 		f fr
				12-Aug-22		•	-	<u>.</u>						
D.L9.2090	Install and construct gully and associated drain pipes at Junction of Road L9 & Olypmic Avenue within Part 1	18	13-Aug-22	02-Sep-22	13-Aug-22	02-Sep-22	0	<u>-</u>						
D.L9.2100	Install and construct road lighting and drawpits civil provisions at Junction of Road L9 & Olympic Avenue within Part 1	18	13-Aug-22	02-Sep-22	13-Aug-22	02-Sep-22	0	1						
D.L9.2110	Allowable time frame for UU undertakings to install ducts/pits/chambers at Junction of L9 & Olympic Avenue w/in Part 1	26	03-Sep-22	06-Oct-22	03-Sep-22	06-Oct-22	0	1				: -		
D.L9.2120	Backfill and compact to formation level for roadworks at Junction of Road L9 & Olympic Avenue within Part 1	18	07-Oct-22	27-Oct-22	07-Oct-22	27-Oct-22	0	1				-		
D.L9.2130	Construct road kerb, central divider and planter at Junction of Road L9 & Olympic Avenue within Part 1	18	28-Oct-22	17-Nov-22	28-Oct-22	17-Nov-22	0	1				-		
D.L9.2140	Backfill and compact sub-base material for road work at Junction of Road L9 & Olympic Avenue within Part 1	10			18-Nov-22	01-Dec-22	0	· - -		+	-+	·++		<u></u>
			18-Nov-22	01-Dec-22			-	<u>-</u>				T		
D.L9.2150	Construct carriageway pavement (Bitumen pavement) at Junction of Road L9 & Olympic Avenue within Part 1	18	02-Dec-22	22-Dec-22	02-Dec-22	22-Dec-22	0	1					┍┛┷╹	
NSTRUCTION OF UNDERGR	ROUND UTILITIES AND ROADWORKS AT OLYMPIC AVENUE WITHIN PART 1 (XP AREA)	225	23-Dec-22	26-Sep-23	23-Dec-22	26-Sep-23	0							
D.OLY.2000	Implement TTA for stormwater drainage works at Oly Ave E/B and W/B (Phase 1) and UU detection	2	23-Dec-22	24-Dec-22	23-Dec-22	24-Dec-22	0	1						
D.OLY.2010	Excavate and construct stormwater drainage from SMH1035 to SMH1031 and SMH1042 to SMH100B and associated drain	18	28-Dec-22	18-Jan-23	28-Dec-22	18-Jan-23	0	1					· 🖕 🕴	
D.OLY.2020	Install and construct gully and associated drain pipes at Oly Ave E/B and W/B (Phase 1)	8	19-Jan-23	30-Jan-23	19-Jan-23	30-Jan-23	0	1						
D.OLY.2020		-					0	· - -		+	-+	··+·		f-
	Construct road kerb and central divider at Oly Ave E/B and W/B (Phase 1)	10	31-Jan-23	10-Feb-23	31-Jan-23	10-Feb-23	U							
D.OLY.2040	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 1)	18	11-Feb-23	03-Mar-23	11-Feb-23	03-Mar-23	U	<u>-</u>						
D.OLY.2050	Remove TTA and implement TTA for stormwater drainage works at Oly Ave E/B and W/B (Phase 2) and UU detection	3	04-Mar-23	07-Mar-23	04-Mar-23	07-Mar-23	0	1						
D.OLY.2060	Excavate and cosntruct stormwater drainage from SMH1031 to SMH1030A and SMH100B to SMH100 and associated drain	18	08-Mar-23	28-Mar-23	08-Mar-23	28-Mar-23	0	1					-	ŧ.
D.OLY.2070	Install and construct gully and associated drain pipes at Oly Ave E/B and W/B (Phase 2)	8	29-Mar-23	11-Apr-23	29-Mar-23	11-Apr-23	0	1						
D.OLY.2080	Construct road kerb and central divider at Oly Ave E/B and W/B (Phase 2)	10	12-Apr-23	22-Apr-23	12-Apr-23	22-Apr-23	0	1					- 🖡	
D.OLY.2090	Construct carriageway pavement (Bitumen pavement) at Oly Ave E/B and W/B (Phase 2)	18	24-Apr-23	15-May-23	24-Apr-23	15-May-23	0	1				-+		
							0	<u>.</u>						
D.OLY.2100	Remove TTA and implement TTA for FWM/SWM at Oly Ave W/B (Phase 3) and UU detection	3	16-May-23	18-May-23	16-May-23	18-May-23	0							l lÉ
D.OLY.2110	Excavate and construct FWM/SWM from CHA360 to CHA300 and assocated tees with chambers	12	19-May-23	02-Jun-23	19-May-23	02-Jun-23	0	1						μ.
D.OLY.2120	Backfill and construct carriageway pavement (Bitumen pavement) at Oly Ave W/B (Phase 3)	10	03-Jun-23	14-Jun-23	03-Jun-23	14-Jun-23	0	1						
D.OLY.2130	Remove TTA and implement TTA for FWM/SWM at Oly Ave W/B and E/B (Phase 4) and UU detection	3	15-Jun-23	17-Jun-23	15-Jun-23	17-Jun-23	0	1						
D.OLY.2140	Excavate and construct FWM/SWM from CHA300 to CHA100 and associated tees with chambers	18	19-Jun-23	11-Jul-23	19-Jun-23	11-Jul-23	0	1						
D.OLY.2150	Backfill and construct carriageway pavement (Bitumen pavement) at Oly Ave W/B and E/B (Phase 4)	16	12-Jul-23	29-Jul-23	12-Jul-23	29-Jul-23	0	1						飰
		3					0							
D.OLY.2160	Remove TTA and implement TTA for FWM/SWM at Sung Wong Toi Road S/B (Phase 5) and UU detection	-	31-Jul-23	02-Aug-23	31-Jul-23	02-Aug-23	-							
D.OLY.2170	Excavate and construct FWM/SWM from CHA100 to CHA0 and associated tees with chambers	18	03-Aug-23	23-Aug-23	03-Aug-23	23-Aug-23	0	1						
D.OLY.2180	FWW/SWM pipeline washing and testing for connection	8	24-Aug-23	01-Sep-23	24-Aug-23	01-Sep-23	0	1						
D.OLY.2190	Backfill and construct carriageway pavement (Bitumen pavement) at Sung Wong Toi Road S/B (Phase 5)	18	02-Sep-23	22-Sep-23	02-Sep-23	22-Sep-23	0	1						
	Site clearance and remove TTA to resume traffic	3	23-Sep-23	26-Sep-23		26-Sep-23	0	1						
			20-0ch-20	20-06h-53	20-0ch-20	20-06h-79	U	· []						EE
D.OLY.2200	Planned W		1004010	- 1Z - ' -			~		. f	···· \ \ / · · · · · · · · · · · · · · ·			A	
0.0LY 2200 ▼ Milestone	Planned W	ED	/2018/0	5 Kai Ta	k Devel	opment	- Stag	je 5B l	nfrastructu	ure Works at t	the Forn	ner North	Apron	n A
0.0LY.2200	Planned W Summary	ED)/2018/0	5 Kai Ta	k Devel	opment					the Forr	ner North	Apron	n A
0.0LY 2200 ▼ Milestone		ED)/2018/0	5 Kai Ta	k Devel	opment			nfrastructu PROGRAM		the Forr	mer North	Apron	n A

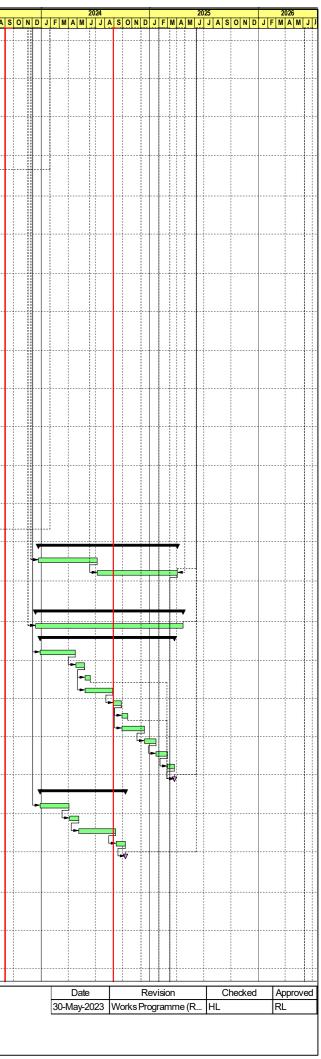
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TD.OLY.2210	Dispand completion of underground utilities and an duration of Obarris Assessed 2015 Doubt Advantable Obarris As			06.0 00		06.0 00	Float		ASON	DJFM		SON	DJF	MAM	JJASC	ONDJF	MAM
	Planned completion of underground utilities and roadworks at Olympic Avenue within Part 1 (related to Section 1) IAN ACCESS FROM L9 TO OLYMPIC AVENUE WITHIN PART 1 (XP AREA)	0 291	07-Oct-22	26-Sep-23 26-Sep-23	07-Oct-22	26-Sep-23 26-Sep-23	0	2								<u> </u>	
LY.2220		291	07-Oct-22 07-Oct-22		07-Oct-22 07-Oct-22	20-Sep-23 20-Oct-22	0	1							(L		
r.2220 (.2230	Demolish and remove site hoarding from Road L9 to Olympic Avenue within Part 1 Site clearance and relocate construction material stocknike at Storane Vard	12	21-Oct-22	20-Oct-22 03-Nov-22	07-Oct-22 21-Oct-22	20-Oct-22 03-Nov-22	0								C		
	Site clearance and relocate construction material stockpile at Storage Yard						•								(ī		
240	Excavate and construct u-channels and connect to stormwater drainage system	26	04-Nov-22	03-Dec-22	04-Nov-22	03-Dec-22	0	1									
.2250	Install and construct road lighting and drawpits civil provisions from Road L9 to Olympic Avenue within Part 1	18	05-Dec-22	24-Dec-22	05-Dec-22	24-Dec-22	0								-		
Y.2260	Allowable time frame for UU undertakings to install ducts/pits/chambers from Road L9 to Olympic Avenue within Part 1	26	28-Dec-22	30-Jan-23	28-Dec-22	30-Jan-23	0	1									
Y.2270	Backfill and compact to formation level for road works	26	31-Jan-23	01-Mar-23	31-Jan-23	01-Mar-23	0	1								· •	.
LY.2280	Backfill and compact sub-base material for road works	26	02-Mar-23	31-Mar-23	02-Mar-23	31-Mar-23	0	1								- I -	-
LY.2290	Lay paving blocks for pedestrian access from Road L9 to Olympic Avenue within Part 1	39	01-Apr-23	22-May-23	01-Apr-23	22-May-23	0	1									4
DLY.2300	Implement TTA for closing existing pedestrian access from Road L9 to Oly Ave w/in Part 1 and divert to new access	1	23-May-23	23-May-23	23-May-23	23-May-23	0	1									
OLY.2310	Remove existing paving blocks, excavate and install irregation pipeline from Road L9 to Olympic Avenue within Part 1	18	24-May-23	14-Jun-23	24-May-23	14-Jun-23	0	1									니도
OLY.2320	Construct road kerb and planter fm Road L9 to Olympic Avenue within Part 1	26	15-Jun-23	17-Jul-23	15-Jun-23	17-Jul-23	0	1									
		-															
.OLY.2330	Laying paving blocks for pedestrian access fm Road L9 to Olympic Avenue within Part 1	26	18-Jul-23	16-Aug-23	18-Jul-23	16-Aug-23	0	1									
OLY.2340	Install road furnitures, road markings and landscaping works from Road L9 to Olympic Avenue within Part 1	35	17-Aug-23	26-Sep-23	17-Aug-23	26-Sep-23	0	1									
OLY.2350	Planned completion of pedestrian access from Road L9 to Olympic Avenue within Part 1 (XP area, related to Section 1)	0		26-Sep-23		26-Sep-23	0	2									
STRUCTION OF ROAD D1 \	NITHIN PART 1A	242	06-Mar-23	27-Dec-23	17-Apr-23	27-Dec-23	0										
ISTRUCTION OF PORTION	1 (ROAD D1 E/B & W/B CH170 TO CH230)	156	17-Apr-23	21-Oct-23	17-Apr-23	21-Oct-23	0	1									+
D1.1000	Site clearance, haul road diversion, formation and fence off working area	4	17-Apr-23	20-Apr-23	17-Apr-23	20-Apr-23	0	1							[
D1.1000 D1.1010	· · · · · · · · · · · · · · · · · · ·						0	1									۲.
	Excavate and construct stormwater drain from SMH1023 to SMH1021 and associated gullies	35	21-Apr-23	02-Jun-23	21-Apr-23	02-Jun-23	•										
D1.1020	Excavate and construct stormwater drain from SMH1054 to SMH1051 and associated gullies	35	03-Jun-23	15-Jul-23	03-Jun-23	15-Jul-23	0			-				. .			
.D1.1030	Excavate and construct sewerage from FMH25_1 to FMH25_2a	20	17-Jul-23	08-Aug-23	17-Jul-23	08-Aug-23	0	1									
.D1.1040	Excavate and construct FWM/SWM from CH450 to CH500	20	09-Aug-23	31-Aug-23	09-Aug-23	31-Aug-23	0	1									
D1.1050	Backfill and construct road kerb/central divider from Road D1 E/B & W/B CH170 to CH230 for road works	18	01-Sep-23	21-Sep-23	01-Sep-23	21-Sep-23	0	1									
D1.1060	Backfill and compact sub-base from Road D1 E/B & W/B CH170 to CH230 for road works	24	22-Sep-23	21-Oct-23	22-Sep-23	21-Oct-23	0	1									
	2 (ROAD D1 E/B CH230 TO CH396)	111	06-Mar-23	21-Jul-23	18-May-23	25-Oct-23	79	1									+
.D1.2000		4	06-Mar-23				58	1									-
	Site clearance, haul road diversion, formation and fence off working area			09-Mar-23	18-May-23	22-May-23										ŧĒ	
D1.2010	Excavate and construct stormwater drain from SMH1101B to SMH1201C	48	10-Mar-23	10-May-23	23-May-23	20-Jul-23	58										
D1.2020	Backfill and construct road kerb/central divider from Road D1 E/B CH230 to CH396	35	11-May-23	21-Jun-23	21-Jul-23	30-Aug-23	58	1									
D1.2030	Backfill and compact sub-base from Road D1 E/B CH230 to CH396	24	23-Jun-23	21-Jul-23	25-Sep-23	25-Oct-23	79	1							[]		
STRUCTION OF PORTION	3 (ROAD D1 W/B CH230 TO CH300)	142	06-Mar-23	26-Aug-23	04-May-23	21-Oct-23	46	1									
.D1.3000	Site clearance, haul road diversion, formation and fence off working area	4	06-Mar-23	09-Mar-23	04-May-23	08-May-23	46	1								L.	<u>-</u>
D1.3010	Excavate and construct stormwater drain from SMH1120 to SMH1123 and associated gullies	26	10-Mar-23	13-Apr-23	09-May-23	08-Jun-23	46	1								[•
.D1.3020	Excertise and construct stormwater drain from SMH1001 to SMH1107 and associated gullies	37	01-Apr-23	19-May-23	01-Jun-23	15-Jul-23	46	1		-							
	·	-					46										T
.D1.3030	Excavate and construct sewerage from FMH25_2a to FMH25_4	12	20-May-23	03-Jun-23	17-Jul-23	29-Jul-23		<u> </u>									
D1.3040	Excavate and construct FMW/SWM from CH500 to CH570	26	05-Jun-23	06-Jul-23	31-Jul-23	29-Aug-23	46	1						- /			
.D1.3050	Backfill and construct road kerb/central divider from Road D1 W/B CH230 to CH300	26	07-Jul-23	05-Aug-23	30-Aug-23	28-Sep-23	46	1									
.D1.3060	Backfill and compact sub-base from Road D1 W/B CH230 to CH300	18	07-Aug-23	26-Aug-23	29-Sep-23	21-Oct-23	46	1									
NSTRUCTION OF PORTION	4 (ROAD D1 W/B CH300 TO CH396)	125	11-May-23	09-Oct-23	17-Jul-23	12-Dec-23	54	1									
D.D1.4000	Site clearance, haul road diversion, formation and fence off working area	4	11-May-23	15-May-23	17-Jul-23	20-Jul-23	54	1							[] · · · · · ·		
D.D1.4010	Excavate and construct stormwater drain from SMH1108 to SMH1108A	12	16-May-23	30-May-23	21-Jul-23	03-Aug-23	54										F
D.D1.4010	Excavate and construct stormwater drain from SMH1106 to SMH1106A Excavate and construct stormwater drain from SMH1107 to 1271 and associated gullies	26	31-May-23	30-Jun-23	04-Aug-23	03-Aug-23 02-Sep-23	54	-									
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D.D1.4030	Excavate and construct FWM/SWM from CH570 to CH670	35	26-Jun-23	05-Aug-23	29-Aug-23	10-Oct-23	54	1									
D.D1.4040	Backfill and construct road kerb/central divider from Road D1 W/B CH300 to CH396	26	07-Aug-23	05-Sep-23	11-Oct-23	10-Nov-23	54	1									
D.D1.4050	Backfill and construct sub-base from Road D1 W/B CH300 to CH396	35	28-Aug-23	09-Oct-23	01-Nov-23	12-Dec-23	54	1									
NSTRUCTION OF PORTION	5 (PEDESTRIAN ACCESS AND CARRIAGEWAY PAVEMENT AT ROAD D1)	181	22-May-23	27-Dec-23	01-Aug-23	27-Dec-23	0										
D.D1.5000	Demolition and removal of existing site hoarding or boundary fence at Road D1 E/B Pedestrian Access	26	22-May-23	21-Jun-23	01-Aug-23	30-Aug-23	58	1									
.D1.5010	Construct u-channel/lighting duct and drawpits at Road D1 E/B Pedestrian Access	26	23-Jun-23	24-Jul-23	31-Aug-23	29-Sep-23	58	1									
		18		14-Aug-23	03-Oct-23	24-Oct-23	58	1							<u>├</u>		
D.D1.5020	Construct planter kerb at Road D1 E/B Pedestrian Access		25-Jul-23														
.D1.5030	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road D1 E/B Pedestrian Access	18	15-Aug-23	04-Sep-23	25-Oct-23	14-Nov-23	58	<u>_</u>									
.D1.5040	Lay paving blocks and install street furnitures/facilities for Road D1 E/B Pedestrian Access	35	05-Sep-23	17-Oct-23	15-Nov-23	27-Dec-23	58	1							[
.D1.6000	Construct u-channel/lighting duct and drawpits at Road D1 W/B Pedestrian Access from CH170 to CH300	26	17-Jul-23	15-Aug-23	19-Aug-23	18-Sep-23	29	1									
D1.6010	Construct planter kerb at Road D1 W/B Pedestrian Access from CH170 to CH300	18	16-Aug-23	05-Sep-23	19-Sep-23	11-Oct-23	29	1									
D1.6020	Allowable time frame for UU undertakings to install ducts/pits/chambers at Road D1 W/B Pedestrian Access CH170 to CH300	18	06-Sep-23	26-Sep-23	12-Oct-23	02-Nov-23	29	1									
D1.6030	Lay paving blocks and install street furnitures/facilities for Road D1 W/B Pedestrian Access CH170 to CH300	35	27-Sep-23	09-Nov-23	03-Nov-23	13-Dec-23	29	1						-			
.D1.6040	Construct landscaping softworks for Road D1 W/B Pedestrian Access CH170 to CH300	18	01-Nov-23	21-Nov-23	05-Dec-23	27-Dec-23	29										
	1.0	18				28-Sep-23	58	<u> </u>									
D1.7000	Construct u-channel/lighting duct and drawpits at Road D1 W/B Pedestrian Access CH300 to CH396		03-Jul-23	22-Jul-23	08-Sep-23												
D1.7010	Construct planter kerb at Road D1 W/B Pedestrian Access CH300 to CH396	18	24-Jul-23	12-Aug-23	29-Sep-23	21-Oct-23	58										
D1.7020	Allable time frame for UU undertakings to install ducts/pits/chambers at Road D1 W/B Pedestrian Access CH300 to CH396	18	14-Aug-23	02-Sep-23	24-Oct-23	13-Nov-23	58	1									
D1.7030	Lay paving blocks and install street furnitures/facilities for Road D1 W/B Pedestrian Access CH300 to CH396	26	04-Sep-23	05-Oct-23	14-Nov-23	13-Dec-23	58	1									
.D1.7040	Construct landscaping softworks for Road D1 W/B Pedestrian Access CH300 to CH396	18	25-Sep-23	17-Oct-23	05-Dec-23	27-Dec-23	58	1									
D1.8000	Construct carriageway pavement for Road D1 W/B CH170 to CH230 (12d for each layer test result, exclu wearing layer)	40	24-Oct-23	08-Dec-23	07-Nov-23	22-Dec-23	12	1									
D1.8010	Construct carriageway pavement and road marking for Road D1 E/B (12d for each layer test result, 3 layers)	52	22-Sep-23	24-Nov-23	26-Oct-23	27-Dec-23	26	1									
D1.8020	Construct carriageway pavement and road marking for Road D1 D/B (12d for each layer test result, 3 layers)	52	22-3ep-23 24-Oct-23	22-Dec-23	20-0ct-23	22-Dec-23	0	1							[····
		5					0	2									
D1.9000	Advanced Completion of Road D1 within Part 1A	-	23-Dec-23	27-Dec-23	23-Dec-23	27-Dec-23	-										
.D1.9999	Planned Completion of Road D1 within Part 1A (Related to Section 3)	0		27-Dec-23		27-Dec-23	0	2									
STRUCTION OF CROWD D	ISPERSAL ROUTE (CDR) WITHIN PARTS 2 AND 10	467	01-Sep-20	29-Mar-22	01-Sep-20	29-Mar-22	0							TT			
CDR.1000	Liaison/coordinate with CLP for new 132kV and 11kV cable laying at Road L16, Part 3 and Crowd Dispersal Route	123	01-Sep-20	01-Jan-21	01-Sep-20	01-Jan-21	0	2									
CDR.1010	Excavate and construct storm drain pipework (40mL)/catchpit fm CH0 to CH20	48	02-Jan-21	02-Mar-21	02-Jan-21	02-Mar-21	0	1									
CDR.1020	Backfill pipeline area fm CH0 to CH20 and excavate and construct u-channel fm CH0 to CH180	66	02-001-21 03-Mar-21	25-May-21	03-Mar-21	25-May-21	0	1		╞┼┈⋤╧╧					ŀ		
								1		🖫							
CDR.1030	Excavate and construct lighting drawpits and lay cable ducts fm CH0 to CH180	78	07-Apr-21	10-Jul-21	25-Jun-21	25-Sep-21	65			1							
CDR.1040	Backfill and compact sub-base and construct road pavement fm CH0 to CH180	78	08-May-21	10-Aug-21	18-Aug-21	19-Nov-21	84										
CDR.1050	Excavate and construct u-channel fm CH180 to CH292	43	26-May-21	16-Jul-21	26-May-21	16-Jul-21	0	1									
CDR.1060	Excavate and construct lighting drawpits and lay cable ducts fm CH180 to CH292	45	12-Jul-21	01-Sep-21	27-Sep-21	19-Nov-21	65	1									
	Planned W		1004010		L D		A 4		I. C	4			4	-	N	41. 4	
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✓ Milestone																	
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(Page 9 of 11)

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	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar 0	far 10 2021 2022 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M
D.CDR.1070	Backfill and compact sub-base and construct road pavement fm CH180 to CH292	65	02-Sep-21	19-Nov-21	20-Nov-21	10-Feb-22	65	1	
D.CDR.1080		40	· · ·		17-Jul-21	01-Sep-21	0	1	
	Excavate and construct storm drain pipework/manhole SMH119		17-Jul-21	01-Sep-21			•	-	
D.CDR.1090	Backfill pipeline area to SMH119 and construct u-channel fm CH292 to CH455	70	02-Sep-21	25-Nov-21	02-Sep-21	25-Nov-21	0	1	
D.CDR.1100	Excavate and construct lighting drawpits and lay cable ducts fm CH292 to CH455	52	05-Oct-21	04-Dec-21	05-Oct-21	04-Dec-21	0	1	
D.CDR.1110	Excavate and construct watermain pipework and install fire hydrants from CH316 to CH455	52	05-Oct-21	04-Dec-21	05-Oct-21	04-Dec-21	0	1	
D.CDR.1120	Backfill and compact sub-base and construct road pavement fm CH292 to CH455	78	05-Nov-21	10-Feb-22	05-Nov-21	10-Feb-22	0	1	
D.CDR.1130	Install chain-link fence from CH0 to CH455 and install lighting poles and cabling by HyD sub-contractor	40	11-Feb-22	29-Mar-22	11-Feb-22	29-Mar-22	0	1	
		40	11-1 60-22		11-1 60-22		0	2	
D.CDR.1140	Planned Completion of Roadworks and Utilities/Services within Parts 2 and 10 (Related to Section 6)	-		29-Mar-22		29-Mar-22	v	2	
INSTRUCTION OF PEDESTR	IAN STREETS NO.1, 3 & 4 WITHIN PART 3	632	02-Jan-21	20-Feb-23	02-Jan-21	24-Feb-24	301		
D.RW.2060	Liaison/coordinate with adjacent projects (incl Station Square, Housing Sites and etc.) for interfacing issues	60	02-Jan-21	02-Mar-21	02-Jan-21	02-Mar-21	0	2	
ONSTRUCTION OF ROADWO	DRK/LANDSCAPE WORKS AT PEDESTRIAN STREETS NO.1, 3 & 4	346	18-Dec-21	20-Feb-23	24-Dec-22	24-Feb-24	301	1	
TD.RW.2070	Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)	346	18-Dec-21	20-Feb-23	24-Dec-22	24-Feb-24	301	1	
								4	
	ROUND UTILITIES AT PEDESTRIAN STREET NO.1	169	03-Mar-21	25-Sep-21	03-Mar-21	17-Dec-21	69	1	
D.PS1.1000	Excavate and construct storm drain pipework (120mL)/catchpit/manholes fm SMH905A to SMH905B	68	03-Mar-21	27-May-21	03-Mar-21	27-May-21	0	1	
D.PS1.1010	Backfill fm SMH905A to SMH905B	20	28-May-21	21-Jun-21	19-Aug-21	10-Sep-21	69	1	
D.PS1.1020	Construct fresh/salt watermain pipework (150mL)/chambers along CHC9	39	22-Jun-21	06-Aug-21	11-Sep-21	29-Oct-21	69	1	
D.PS1.1030		39	09-Jul-21			15-Nov-21	69	1	
	Construct road lighting drawpits and lay cable ducts for Pedestrian Street No.1			23-Aug-21	29-Sep-21			-	
D.PS1.1040	Backfill up to formation level for Pedestrian Street No.1	28	24-Aug-21	25-Sep-21	16-Nov-21	17-Dec-21	69	1	
INSTRUCTION OF UNDERG	ROUND UTILITIES AT PEDESTRIAN STREET NO.3	170	28-May-21	17-Dec-21	28-May-21	17-Dec-21	0	1	
D.PS3.1000	Excavate and construct storm drain pipework (33mL) to Box Culvert B1	48	28-May-21	24-Jul-21	28-May-21	24-Jul-21	0	1	
D.PS3.1010	Backfill pipework area and construct catchpits	29	26-Jul-21	27-Aug-21	26-Jul-21	27-Aug-21	0	1	
D.PS3.1010							0		
	Construct sewer drain pipework (171mL)/manholes fm FMH10_40 to FMH10_65b	39	28-Aug-21	15-Oct-21	28-Aug-21	15-Oct-21	-		╶╫┈┊┈╌┼┈┊╀╂┊┈ <u>┇╦</u> ┓┠┼╷┈┊┈┞┊┈┈┊┈╷╷
D.PS3.1030	Construct salt watermain pipework (150mL)/chambers along CHC10/Construct road lighting drawpits and lay cable ducts	48	14-Sep-21	11-Nov-21	14-Sep-21	11-Nov-21	0	1	<u> </u>
D.PS3.1040	Backfill up to formation level for Pedestrian Street No.3	31	12-Nov-21	17-Dec-21	12-Nov-21	17-Dec-21	0	1	
NSTRUCTION OF UNDERG	ROUND UTILITIES AT PEDESTRIAN STREET NO.4	170	28-May-21	17-Dec-21	28-May-21	17-Dec-21	0		
D.PS4.1000	Excavate and construct storm drain pipework (192mL)/catchpit/manhole fm SMH505 to SMH1005A	48	28-May-21	24-Jul-21	28-May-21	24-Jul-21	0	1	
		-					•	-	
D.PS4.1010	Excavate and construct sewer drain pipework (165mL)/manhole fm FMH25_30 to FMH25_10	51	22-Jun-21	20-Aug-21	22-Jun-21	20-Aug-21	0	-	
D.PS4.1020	Backfill pipework area and construct fresh watermain pipework (170mL)/chambers along CHC11	39	21-Aug-21	07-Oct-21	21-Aug-21	07-Oct-21	0	1	
D.PS4.1030	Construct road lighting drawpits and lay cable ducts	29	08-Oct-21	11-Nov-21	08-Oct-21	11-Nov-21	0	1	
D.PS4.1040	Backfill up to formation level for Pedestrian Street No.4	31	12-Nov-21	17-Dec-21	12-Nov-21	17-Dec-21	0	1	
D.PS4.1050	Planned Completion of Underground Utilities/Services within Part 3 (Related to Section 5)	0	-	17-Dec-21	-	17-Dec-21	0	2	
	IAN STREET NO.2 WITHIN PART 4	-	00 Nov 00		02 Nov 00		Ű	2	
		336	23-Nov-20	11-Jan-22	23-Nov-20	24-Feb-24	629		
D.PS2.1000	Liaison/coordinate with adjacent projects (incl Station Square, Housing Sites and etc.) for interfacing issues	60	23-Nov-20	21-Jan-21	23-Nov-20	21-Jan-21	0	2	
D.PS2.1010	Excavate and construct storm drain pipework (59mL) /catchpit/manholes from SMH404 to SMH402	28	22-Jan-21	26-Feb-21	22-Jan-21	26-Feb-21	0	1	
D.PS2.1020	Backfill fm SMH404 to SMH402/Excavate and construct storm drain pipework (59mL)/catchpit/manhole fm SMH402 to SMH4	29	19-Feb-21	24-Mar-21	19-Feb-21	24-Mar-21	0	1	
D.PS2.1030						-	0	1	
	Backfill fm SMH402 to SMH401/Excavate and construct storm drain pipework (59mL)/catchpit/manhole fm SMH401 to SMH4	26	17-Mar-21	20-Apr-21	17-Mar-21	20-Apr-21	-		
D.PS2.1040	Backfill within Part 4 and construct fresh watermain pipework (164mL)/chambers from CH179 to CH15	39	13-Apr-21	29-May-21	13-Apr-21	29-May-21	0	1	
D.PS2.1050	Construct road lighting drawpits and lay cable ducts/Backfill upto formation level for Pedestrian Street No.2	26	31-May-21	30-Jun-21	31-May-21	30-Jun-21	0	1	
D.PS2.1060	Planned Completion of Underground Utilities/Services within Part 4 (Related to Section 4)	0		30-Jun-21		30-Jun-21	0	2	
D.PS2.1070	Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)	160	02-Jul-21	11-Jan-22	14-Aug-23	24-Feb-24	629	1	
NSTRUCTION OF ROAD L16							69	1	
		378	23-Dec-23	02-Apr-25	15-Mar-24	30-Jun-25			
D.RW.2090	Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6	156	23-Dec-23	06-Jul-24	15-Mar-24	23-Sep-24	66	1	
D.RW.2100	Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)	222	08-Jul-24	02-Apr-25	27-Sep-24	30-Jun-25	69	1	
NSTRUCTION OF ROAD D1	WITHIN PART 5	312	30-Jun-22	18-Jul-23	08-Dec-22	27-Dec-23	134	1	
D.RW.2080	Construct roadwork, underground utilities/services within Part 5	312	30-Jun-22	18-Jul-23	08-Dec-22	27-Dec-23	134	1	
NSTRUCTION OF UNDERGR	ROUND UTILITIES WITHIN PARTS 1B, 6A AND 7 AND REMAINING AT ALL PARTS	400	13-Dec-23	22-Apr-25	22-Feb-24	30-Jun-25	56		
D.RW.2110	Construct underground utilities/services within remaining works of all Parts	400	13-Dec-23	22-Apr-25	22-Feb-24	30-Jun-25	56	1	
NSTRUCTION OF UNDERG	ROUND UTILITIES WITHIN PARTS 1B	368	28-Dec-23	24-Mar-25	03-Apr-24	30-Jun-25	77		
D.P1B.1000	Excavate/install ELS and construct storm drain pipework (50mL)/manholes fm SMH2303 to SMH2304	96	28-Dec-23	25-Apr-24	03-Apr-24	29-Jul-24	77	1	
D.P1B.1010	Backfill fm SMH2303 to SMH2304/Excavate and construct storm pipework fm catchpits to SMH2304 (23mL)	24	26-Apr-24	25-May-24	30-Jul-24	26-Aug-24	77	1	
D.P1B.1020	Backfill storm pipework fm catchpits to SMH2304	15	27-May-24	13-Jun-24	13-Jun-25	30-Jun-25		1	
D.P1B.1030	Excavate/Install ELS and construct storm drain pipework (38mL)/manholes fm SMH2303 to SMH2302	80	27-May-24	29-Aug-24	27-Aug-24	30-Nov-24	77	1	
D.P1B.1040	Backfill fm SMH2303 to SMH2302/Excavate and construct storm pipework fm catchpits to SMH2303 (23mL)	24	30-Aug-24	27-Sep-24	02-Dec-24	31-Dec-24	77	1	
D.P1B.1050	Backfill storm pipework fm catchpits to SMH2303	15	28-Sep-24	17-Oct-24	13-Jun-25	30-Jun-25	206	1	
D.P1B.1060	Excavate/Install ELS and construct storm drain pipework (40mL)/manholes fm SMH2302 to SMH2301	64	28-Sep-24	13-Dec-24	02-Jan-25	20-Mar-25	77	1	
D.P1B.1070	Backfill fm SMH2302 to SMH2301/Excavate and construct storm pipework fm catchpits to SMH2302 and DN750 reserved pij	30	14-Dec-24	21-Jan-25	21-Mar-25	29-Apr-25	77	1	
D.P1B.1080	Backfill fm catchpits to SMH2302/Excavate and construct storm pipework fm catchpits to SMH2301 and connect to ex. drain	30	22-Jan-25	28-Feb-25	30-Apr-25	06-Jun-25	77	1	
D.P1B.1090	Backfill fm catchpits to SMH2301 and connection to existing drain	20	01-Mar-25	24-Mar-25	07-Jun-25	30-Jun-25	77	1	
D.P1B.1100	Planned Completion of Underground Utilities/Services within Part 1B (Related to Section 2)	0		24-Mar-25		30-Jun-25	98	2	
	ROUND UTILITIES WITHIN PARTS 6A AND 7	234	28-Dec-23	10-Oct-24	12-Sep-24	30-Jun-25		-	
D.P67.1000	Excavate/install FWM and SWM from CH400 to CH350 (50mL) and fittings	78	28-Dec-23	03-Apr-24	12-Sep-24	14-Dec-24		1	
D.P67.1010	Backfill FWM and SWM from CH400 to CH350	26	05-Apr-24	06-May-24	16-Dec-24	17-Jan-25	211	1	
D.P67.1020	Excavate/install FWM and SWM from CH350 to CH300 (50mL) and fittings and chambers	104	07-May-24	07-Sep-24	18-Jan-25	29-May-25	211	1	
D.P67.1030	Backfill FWM and SWM from CH350 to CH300	26	09-Sep-24	10-Oct-24	30-May-25			1	
D.P67.1040	Planned Completion of Underground Utilities/Services within Parts 6A and 7 (Related to Section 2)	0		10-Oct-24		30-Jun-25		2	
			20 No. 00		20 No. 00			4	
	VAL COVER WALKWAY FP3 UNDER PMI 006	115		23-Apr-21	30-Nov-20	23-Apr-21			
P3.1000	Land allocation/taking over from MTRC/LandsD for construction of additional footpath and cover walkway FP3	0	30-Nov-20		30-Nov-20		0	2	
P3.1010	Site clearence and formation works (1 team)	18	30-Nov-20	19-Dec-20	30-Nov-20	19-Dec-20	0	1	
P3.1020	Construction of storm drain system (incl. u-channel and catch pits, 15m3 conc., 1 team)	18	07-Dec-20	29-Dec-20	07-Dec-20	29-Dec-20	0	1	
FP3.1030	Implement TTA for connection of storm drain system to existing manhole	1	30-Dec-20	30-Dec-20	07-Dec-20 07-Apr-21	07-Apr-21	76	1	
		-						· 1	
FP3.1040	Remove pavement, excavate for drain pipe laying and cast concrete surround (10m-L, 5.4m3 exca, 2m3 conc, 1 team)	8	31-Dec-20	09-Jan-21	08-Apr-21	16-Apr-21	76	1	
FP3.1050	Backfilling and reinstatement of existing pavement (5m2, 1 team)	5	11-Jan-21	15-Jan-21	17-Apr-21	22-Apr-21	76	1	
FP3.1060	Site clearenc and remove TTA to resume traffic	1	16-Jan-21	16-Jan-21	23-Apr-21	23-Apr-21	76	1	
FP3.1070	Placing concrete blocks foundation and erection of site hoarding (45m-L, 1 team)	6	21-Dec-20		21-Dec-20	29-Dec-20	0	1	
	- rearing contracto biodic rearisation and problem of site modelang (rom-r, ricalli)		21-000-20	20-000-20	21-000-20	20-000-20	~	•	
	Planned W			- 12			•		
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♥ Milestone		ED	0/2018/0	JNAIIA	V Devei	opinieni	- 3la	ye JL	5B Infrastructure Works at the Former North Aprox
✓ Milestone✓ Critical Milestone		ED	0/2018/0	JNAITA	r Devei	opment		-	-
		ED	/2018/0	JNAIIA	K Devei	opinein		-	SB Intrastructure works at the Former North Aprol



ctivity ID	Activity Name	Dur (d)	Early Start	Early Finish	Late Start	Late Finish	Total C	alendar 🛛)			2021			2	2022			2023			2	2024			202	5		2026
							Float	-	JAS	ONDJ	JFMA	MJJJ	ASON	DJFI	MAMJ	JJAS	6 O N D	JFMA	AMJJ	ASON	IDJF	MAM	JJA	SOND	JFM	AMJ	JASO	NDJF	MAM
KTD.FP3.1080	Construction of foundation for footpath cover (230m3 conc, 1 team)	12	21-Dec-20	06-Jan-21	21-Dec-20	06-Jan-21	0	1		•																			
KTD.FP3.1090	Installation of steel frame of footpath cover, site hoarding and lighting system	15	30-Dec-20	16-Jan-21	30-Dec-20	16-Jan-21	0	1		- 1-1																			
KTD.FP3.1100	Placing sub-base and construction of footpath pavement (45m3 sub-base, 35m3 conc, 1 team)	15	30-Dec-20	16-Jan-21	30-Dec-20	16-Jan-21	0	1							1	1	-												
KTD.FP3.1104	Construction/Installation for additional works for FP3 under CE028	76	18-Jan-21	23-Apr-21	18-Jan-21	23-Apr-21	0	1			_																		
KTD.FP3.1105	Provision of power supply by CLP for lighting system at FP3 (CE028)	76	18-Jan-21	23-Apr-21	18-Jan-21	23-Apr-21	0	1		−																			
KTD.FP3.1110	Planned Completion of Additional Footpath and Cover Walkway FP3 under PMI 006	0		23-Apr-21		23-Apr-21	0	2			L	•																	
PROJECT ESTABLISH	MENT WORKS	1542	12-Jan-22	02-Apr-26	27-Sep-23	30-Jun-26	89	2																					-
KTD.EW.1000	Establishment works for all landscape softworks (except Parts 3, 4 and 6)	365	19-Jul-23	17-Jul-24	28-Dec-23	26-Dec-24	162	2											L=C			-	÷						
KTD.EW.1010	Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)	365	21-Feb-23	20-Feb-24	26-Feb-24	24-Feb-25	370	2										-								[
KTD.EW.1020	Establishment works for landscape softworks within Part 4 (Subj to excision within 244 days)	365	12-Jan-22	11-Jan-23	26-Feb-24	24-Feb-25	775	2						4	-	:	:												
KTD.EW.1030	Establishment works for landscape softworks within Part 6	365	03-Apr-25	02-Apr-26	01-Jul-25	30-Jun-26	89	2																	L=	—			=
KTD.EW.1040	Establishment works for landscape softworks under Section 1	365	27-Sep-23	25-Sep-24	27-Sep-23	25-Sep-24	0	2												-		:	:						
KTD.EW.1050	Planned Contract Completion Date	0		02-Apr-26		30-Jun-26	89	2																					₩7

$\mathbf{\nabla}$	▼ Milestone
▼	Critical Miles

Critical Work

Date	Revision	Checked	Approved
30-May-2023	Works Programme (R	HL	RL
			Date Revision Checked 30-May-2023 Works Programme (R HL

Appendix C – Environmental monitoring schedules

Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Environmental Monitoring and Weekly Site Inspection Schedule for July 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	4	5	6 Weekly Site Inspection	7	8 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3
9	10	11	12	13 Weekly Site Inspection	14 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	15
16	17	18	19	20 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	21	22
23	24	25	26 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	27 Weekly Site Inspection + SSMC meeting	28	29
30	31					

July 2023

Air Quality Monitoring Station AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Tentative Environmental Monitoring and Weekly Site Inspection Schedule for August 2023

August 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	2	3 Weekly Site Inspection	4	5
6	7 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	8	9	10 Weekly Site Inspection	11	12 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3
13	14	15	16	17 Weekly Site Inspection	18 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	19
20	21	22	23	24 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	25	26
27	28	29	30 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	31 Weekly Site Inspection + SSMC meeting		

NOTE:

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

Air Quality Monitoring Station

AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

Appendix D – Photographic records

Impact Air Quality Monitoring



Measurement setup at AM2(A)



Measurement setup at AM3

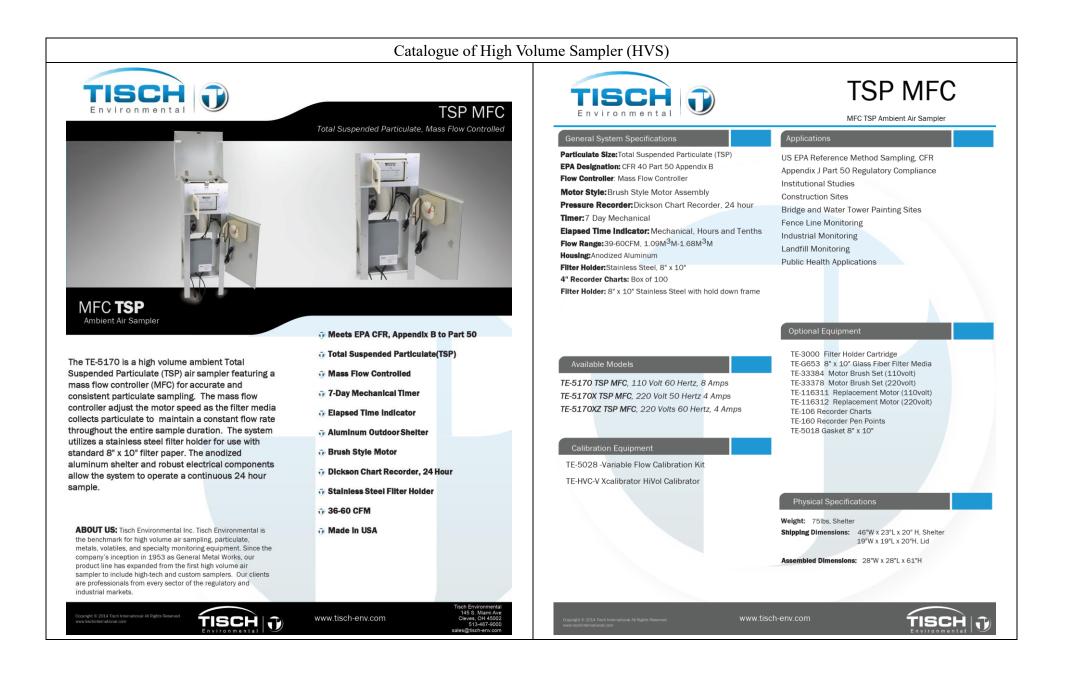


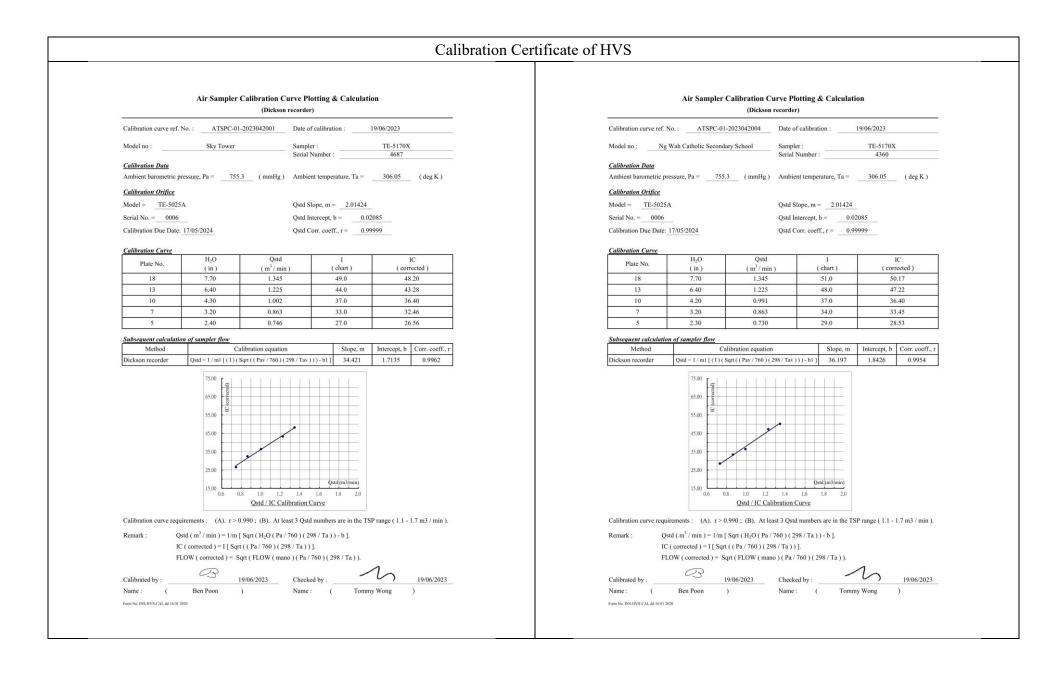
Weather Station at the rooftop of Ng Wah Catholic Secondary School

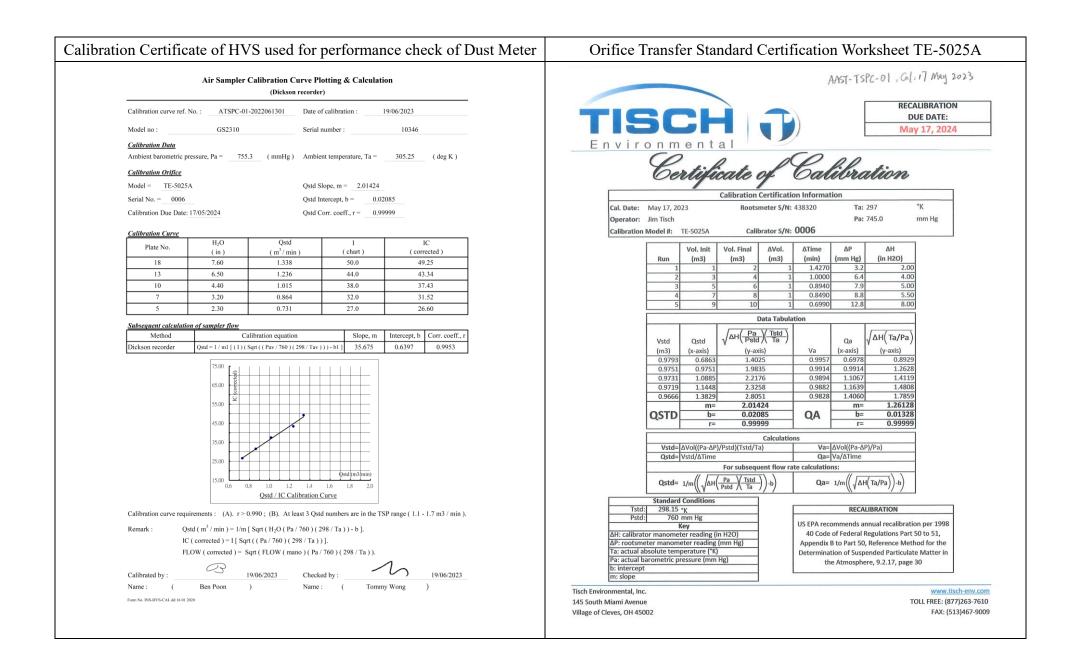
Impact Noise Monitoring



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







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

The easy-to-use TrakPro Data Analysis Software lets you create

effective graphs and reports.

and long battery life, the AM510 is also ideal for extended sampling.

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

Catalogue of Dust Meter (TSI Sidepak AM510)

```
Aerosol
Concentration Range
Particle Size Range
Minimum Resolution
Zero stability
Temperature Coefficient
```

Flow Rate Range

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

90° light scattering,

(calibrated to respirable

fraction of ISO 12103-1,

0.1 to 10 micrometer (µm)

±0.001 mg/m³ over 24 hours

using 10-second time-constant

Approximately +0.0005 mg/m³ per

°C (for variations from temperature

at which instrument was last zeroed)

670 nm laser diode

0.001 to 20 mg/m³

A1 test dust)

0.001 mg/m³

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 Range 0.1 to 10.0, user-adjustable

Physical External Dimensions

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 @ 10 A

Maintenance Factory Clean/Calibrate

Recommended annually User Zero Calibration Before each use As needed User Flow Calibration

Communications Interface

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

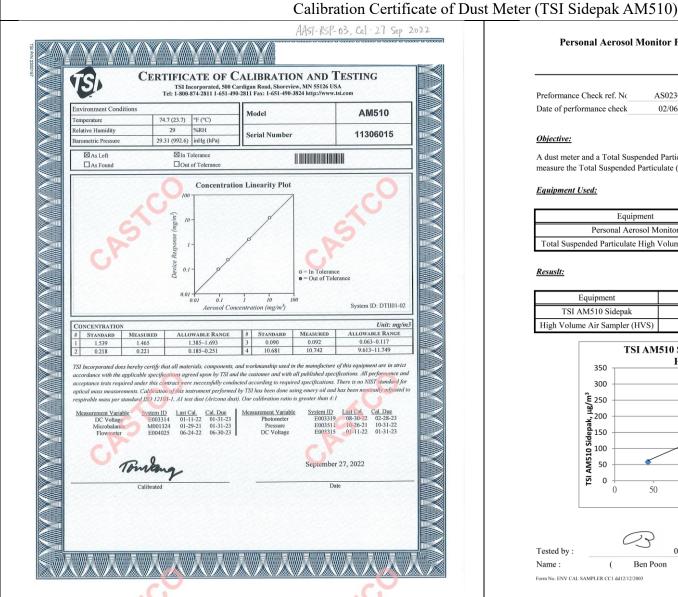
Battery Performance

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.



Preformance Check ref. No AS0230602-3 Report Issue Date Date of performance check 02/06/2023

02/06/2023

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.

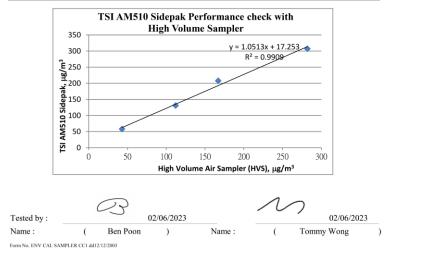
Personal Aerosol Monitor Performance check with High Volume Sampler

Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11306015
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

Resust:

Equipment	Measurement Result, µg/m ³				
TSI AM510 Sidepak	58	131	208	307	
High Volume Air Sampler (HVS)	43	112	167	282	



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[™] Range 0 to 16 Index High)) The Vantage Pro2[™] (# 6152C) and Vantage Pro2[™] 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 Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are Current Graph Data..... Instant Reading and Hourly Average; Daily, Monthly High 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[®] 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 Equation Used Osczevski (1995) (adopted by US NWS in 2001) 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 Wind Direction Sensor Wind vane with potentiometer Wind Direction (214 cm²) collection area 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, Monthly Dominant Historical Graph Data. Past 6 10-min. Dominants on compass rose only; Hourly, Daily, ISS Dimensions(not including anemometer or bird spikes): Monthly Dominants Vantage Pro2 with Standard Rad Shield 14.0" x 9.4" x 14.5" (356 mm x 239 mm x 368 mm) Wind Speed 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

		Limited 校正實		181.	284	JÁL.			Cal Lab Limited 校正f		JAL OA	
CALIBRATION	Tsuen Wan Tel: +852		Sha Tsui Road, @callab.com.hk /ww.callab.com.hk					CALIBRATION	Room 2103, Technology Plaza, 29 Isuen Wan, NT, Hong Kong Fel: +852 25680106 Email: in Fax: +852 30116194 Website			
Calibration Certi Customer Informa Customer: Ca							an	Result of Calibration Temperature		OAL C		ainty (°C)
Address: 33	On Kui Street, Fanl	ing, N.T.						Reference reading (°C) 15.0	Reading (°C) 15	Error (°C) 0	Uncert	2
A	. A.							20.0	21	1	No. 1	2
Equipment Identif		urer Model M	Io. Serial No.		Assigned equipme	nt No :	37	25.0	26	1	ML DAI	2
Weather Station	Davis Vant				AAST-WS-02	nt NO		30.0	30	0		2
								Relative Humidity				
Certificate Inform			Calibration Con	dition: 1	24.5°C, 54%RH, 10	10bPa		Reference reading (%RH) Reading (%RH)	Error (%RH	l) Uncerta	inty (%RH)
Date of Receipt: Date of Calibration		ary 2023 Tuary 2023	Adjustment:	ioition:	24.5°C, 54%RH, 10 N/A	JUIL G	- 8	40.0	44	4	Se ale	2
Due Date of Calib	ation: N/A		Appearance:	1.000	Good			50.0	54	-1	11 N. 2	2
Calibration Procee	ure: JJF 118 SOP-11	3-2007, JJF 1076-2001,	Remark:		N/A		1	70.0	09	-1		£1
	SOP-11	0					Ű	Wind Speed		11 - 11 - 11 - 11 - 11 - 11 - 11 - 11		
Reference Equipr								Reference reading (m/s 0.0) Measured reading (m/s) 0.0	Error (%) N/A		tainty (%) 3.6
Equipment Descri	ption	Model	Serial No.	1/11	Expiration Date			2.0	2.0	0.0		3.6
Platinum resistan	e thermometer	KPPRHT-A-1 KPPRHT-A-1	KCI I-1095, KCI P KCI I-1095, KCI P		9 November 20 9 November 20			5.0	4.8	-4.0		3.6
Humidity sensor Hot Wire Anemor	neter	9535	T95351316004	1095	11 August 2024			8.0	7.6	-5.0		3.6
								Wind Direction				
)	Reference reading	Measured reading	Error	Unc	ertainty
								0°	0°	0°		5°
								45°	45°	0°		5° 5°
								90° 135°	90° 135°	0°		5°
								180°	180°	0°	Se al	5°
								225°	225°	0°		5°
								270°	270°	0°		5°
								315°	315°	05		3
									*** End of	Certificate ***		
of confidence of 955	A coverage factor of 2 is	en calculated in "Evaluation and ex assumed unless explicitly stated. alibration are traceable to national					2					
accuracy and good of Note3: The result reported instrument	ondition. In this certificate refer to	alibration are traceable to national the condition of the instrument on elate only to the item calibrated, an	he date of calibration and car d the result only applies to the	rry no implication iter	ion regarding the long term							
Approved By:	leg		Company	(東京							
Warren Yeung	1		Certificat	e Issue Da	ate: 20 February 2							
						CT-BEG-03						

Appendix F – Weather information

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)	Mean Relative Humidity (%)
01/07/2023	26.2	30.9	4.7	82
02/07/2023	26.2	29.3	15.6	89
03/07/2023	27	32.4	3.6	83
04/07/2023	26.7	32	10.6	82
05/07/2023	28.9	33	Trace	77
06/07/2023	28.4	32.8	Trace	77
07/07/2023	29	33.4	0.3	76
08/07/2023	28.8	33.2	0	76
09/07/2023	28.7	33.7	Trace	77
10/07/2023	28.9	33.7	0	75
11/07/2023	28.9	33.6	0	76
12/07/2023	28.9	34.5	0	74
13/07/2023	28.6	34.8	0	71
14/07/2023	28.5	33.8	0	71
15/07/2023	28.2	34.5	2.5	74
16/07/2023	27.2	33.3	4.9	75
17/07/2023	27.2	29.4	29	85
18/07/2023	27.5	31.1	10.9	86
19/07/2023	27.3	30.3	3.9	88
20/07/2023	26.8	33.6	4.8	80
21/07/2023	27.7	32.4	Trace	79
22/07/2023	28.3	34	0	76
23/07/2023	28.6	34.1	Trace	77
24/07/2023	28.4	34.6	0	76
25/07/2023	28.4	33.4	0	73
26/07/2023	29.3	35.5	0	72
27/07/2023	28.4	36.1	6.9	67
28/07/2023	28.9	34.7	0	72
29/07/2023	27.2	31.5	21	84
30/07/2023	27.5	32.1	10	87
31/07/2023	26.5	32.5	46.5	84

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory.

NOTE2: Trace means rainfall less than 0.12 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2023&m=07

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/07/2023	27.8	32.3
02/07/2023	26.2	30.1
03/07/2023	27.0	32.5
04/07/2023	25.7	32.2
05/07/2023	28.6	33.3
06/07/2023	28.6	33.1
07/07/2023	29.0	33
08/07/2023	28.7	33.7
09/07/2023	28.6	34.2
10/07/2023	28.9	34.1
11/07/2023	29.0	34.6
12/07/2023	28.7	34.2
13/07/2023	27.9	31.9
14/07/2023	28.2	35.3
15/07/2023	27.4	34.7
16/07/2023	27.0	33.1
17/07/2023	27.2	29.9
18/07/2023	27.9	29.4
19/07/2023	27.0	29.9
20/07/2023	27.0	32.3
21/07/2023	28.0	32.9
22/07/2023	27.9	32.7
23/07/2023	28.2	32.6
24/07/2023	28.2	32.9
25/07/2023	28.3	35.3
26/07/2023	28.7	34.2
27/07/2023	28.4	37
28/07/2023	29.3	35.2
29/07/2023	26.5	31.2
30/07/2023	27.2	31.7
31/07/2023	26.3	31.8

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

https://i-lens.hk/hkweather/history_chart.php?date=2023-07-01&chart_type=DG_TEMP

Date	Time	Wind Speed (m/s)	Wind Direction												
01/07/2023	0:00	1.3	247.5	02/07/2023	0:00	0.4	135	03/07/2023	0:00	0.9	90	04/07/2023	0:00	1.3	112.5
01/07/2023	1:00	0.4	135	02/07/2023	1:00	0.4	112.5	03/07/2023	1:00	1.3	90	04/07/2023	1:00	0.9	202.5
01/07/2023	2:00	0.4	292.5	02/07/2023	2:00	0.4	112.5	03/07/2023	2:00	1.8	292.5	04/07/2023	2:00	1.3	112.5
01/07/2023	3:00	0.4	90	02/07/2023	3:00	1.3	135	03/07/2023	3:00	2.2	135	04/07/2023	3:00	1.8	135
01/07/2023	4:00	0.4	225	02/07/2023	4:00	0.4	247.5	03/07/2023	4:00	1.3	90	04/07/2023	4:00	2.2	292.5
01/07/2023	5:00	1.3	90	02/07/2023	5:00	0.9	247.5	03/07/2023	5:00	0.4	135	04/07/2023	5:00	1.3	90
01/07/2023	6:00	0.4	90	02/07/2023	6:00	0.9	247.5	03/07/2023	6:00	1.3	22.5	04/07/2023	6:00	0.4	225
01/07/2023	7:00	0.4	90	02/07/2023	7:00	0.4	135	03/07/2023	7:00	0.9	135	04/07/2023	7:00	1.3	112.5
01/07/2023	8:00	0.9	112.5	02/07/2023	8:00	0.4	67.5	03/07/2023	8:00	1.3	112.5	04/07/2023	8:00	0.9	112.5
01/07/2023	9:00	0.4	135	02/07/2023	9:00	1.3	112.5	03/07/2023	9:00	0.9	270	04/07/2023	9:00	1.3	112.5
01/07/2023	10:00	0.4	135	02/07/2023	10:00	1.3	135	03/07/2023	10:00	1.3	135	04/07/2023	10:00	0.9	112.5
01/07/2023	11:00	1.3	112.5	02/07/2023	11:00	0.4	135	03/07/2023	11:00	0.9	112.5	04/07/2023	11:00	1.3	112.5
01/07/2023	12:00	1.3	247.5	02/07/2023	12:00	0.4	292.5	03/07/2023	12:00	1.3	135	04/07/2023	12:00	0.9	112.5
01/07/2023	13:00	1.3	135	02/07/2023	13:00	1.3	135	03/07/2023	13:00	0.9	247.5	04/07/2023	13:00	1.3	112.5
01/07/2023	14:00	0.4	90	02/07/2023	14:00	1.3	90	03/07/2023	14:00	1.3	247.5	04/07/2023	14:00	0.9	112.5
01/07/2023	15:00	0.4	112.5	02/07/2023	15:00	0.9	135	03/07/2023	15:00	0.4	247.5	04/07/2023	15:00	1.3	247.5
01/07/2023	16:00	1.3	112.5	02/07/2023	16:00	0.9	22.5	03/07/2023	16:00	0.9	135	04/07/2023	16:00	0.9	135
01/07/2023	17:00	1.3	90	02/07/2023	17:00	0.4	135	03/07/2023	17:00	0.9	67.5	04/07/2023	17:00	0.9	90
01/07/2023	18:00	0.9	90	02/07/2023	18:00	0	112.5	03/07/2023	18:00	2.2	112.5	04/07/2023	18:00	0.9	112.5
01/07/2023	19:00	0.9	112.5	02/07/2023	19:00	0.4	112.5	03/07/2023	19:00	2.2	135	04/07/2023	19:00	0.9	112.5
01/07/2023	20:00	1.3	90	02/07/2023	20:00	0.4	112.5	03/07/2023	20:00	2.2	112.5	04/07/2023	20:00	0.4	90
01/07/2023	21:00	0.9	135	02/07/2023	21:00	0.4	112.5	03/07/2023	21:00	1.3	90	04/07/2023	21:00	0.4	90
01/07/2023	22:00	0.9	112.5	02/07/2023	22:00	0.9	112.5	03/07/2023	22:00	1.3	90	04/07/2023	22:00	0.4	112.5
01/07/2023	23:00	1.3	90	02/07/2023	23:00	0.4	112.5	03/07/2023	23:00	0.4	90	04/07/2023	23:00	0.9	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction												
05/07/2023	0:00	0.9	112.5	06/07/2023	0:00	1.3	112.5	07/07/2023	0:00	0.9	135	08/07/2023	0:00	0.4	112.5
05/07/2023	1:00	0.4	90	06/07/2023	1:00	0.9	225	07/07/2023	1:00	0.9	112.5	08/07/2023	1:00	0.4	225
05/07/2023	2:00	0.4	135	06/07/2023	2:00	1.3	112.5	07/07/2023	2:00	0.4	135	08/07/2023	2:00	0.4	112.5
05/07/2023	3:00	1.3	90	06/07/2023	3:00	0.9	270	07/07/2023	3:00	0.4	112.5	08/07/2023	3:00	0.4	225
05/07/2023	4:00	0.9	135	06/07/2023	4:00	0.4	270	07/07/2023	4:00	1.3	112.5	08/07/2023	4:00	0.4	225
05/07/2023	5:00	0.9	90	06/07/2023	5:00	0.4	270	07/07/2023	5:00	0.9	135	08/07/2023	5:00	0.4	225
05/07/2023	6:00	0.9	67.5	06/07/2023	6:00	0.9	270	07/07/2023	6:00	0.9	135	08/07/2023	6:00	0.4	112.5
05/07/2023	7:00	1.3	112.5	06/07/2023	7:00	0.3	270	07/07/2023	7:00	0.9	135	08/07/2023	7:00	0.4	135
05/07/2023	8:00	0.4	135	06/07/2023	8:00	1.3	270	07/07/2023	8:00	1.3	112.5	08/07/2023	8:00	0.4	112.5
05/07/2023	9:00	1.3	112.5	06/07/2023	9:00	1.3	90	07/07/2023	9:00	0.4	45	08/07/2023	9:00	0.4	90
05/07/2023	10:00	0.9	112.5	06/07/2023	10:00	0.9	135	07/07/2023	10:00	0.9	135	08/07/2023	10:00	0.9	90
05/07/2023	11:00	0.9	112.5	06/07/2023	11:00	0.9	90	07/07/2023	11:00	0.4	135	08/07/2023	11:00	1.3	135
05/07/2023	12:00	0.4	112.5	06/07/2023	12:00	0.4	135	07/07/2023	12:00	0.4	135	08/07/2023	12:00	1.3	90
05/07/2023	13:00	0.4	90	06/07/2023	13:00	1.3	90	07/07/2023	13:00	1.3	247.5	08/07/2023	13:00	1.8	135
05/07/2023	14:00	1.3	90	06/07/2023	14:00	0.9	135	07/07/2023	14:00	0.9	247.5	08/07/2023	14:00	1.3	90
05/07/2023	15:00	0.9	45	06/07/2023	15:00	1.3	135	07/07/2023	15:00	1.3	247.5	08/07/2023	15:00	0.9	67.5
05/07/2023	16:00	1.3	90	06/07/2023	16:00	1.3	112.5	07/07/2023	16:00	1.3	135	08/07/2023	16:00	0.9	112.5
05/07/2023	17:00	1.3	22.5	06/07/2023	17:00	1.8	135	07/07/2023	17:00	1.8	67.5	08/07/2023	17:00	0.9	135
05/07/2023	18:00	1.8	112.5	06/07/2023	18:00	0.9	90	07/07/2023	18:00	0.9	112.5	08/07/2023	18:00	0.9	112.5
05/07/2023	19:00	0.9	90	06/07/2023	19:00	1.3	112.5	07/07/2023	19:00	1.3	135	08/07/2023	19:00	0.4	112.5
05/07/2023	20:00	1.3	112.5	06/07/2023	20:00	1.3	112.5	07/07/2023	20:00	1.3	135	08/07/2023	20:00	0.4	112.5
05/07/2023	21:00	1.3	112.5	06/07/2023	21:00	1.3	90	07/07/2023	21:00	1.3	112.5	08/07/2023	21:00	0.9	90
05/07/2023	22:00	0.9	112.5	06/07/2023	22:00	0.9	135	07/07/2023	22:00	0.9	112.5	08/07/2023	22:00	0.9	90
05/07/2023	23:00	0.4	112.5	06/07/2023	23:00	1.3	90	07/07/2023	23:00	1.3	45	08/07/2023	23:00	0.4	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction												
09/07/2023	0:00	0.4	112.5	10/07/2023	0:00	0.4	112.5	11/07/2023	0:00	0.9	90	12/07/2023	0:00	0.9	90
09/07/2023	1:00	0.9	90	10/07/2023	1:00	0.4	112.5	11/07/2023	1:00	0.4	180	12/07/2023	1:00	1.3	112.5
09/07/2023	2:00	0.9	112.5	10/07/2023	2:00	1.3	112.5	11/07/2023	2:00	0.4	180	12/07/2023	2:00	0.9	247.5
09/07/2023	3:00	1.8	90	10/07/2023	3:00	1.3	90	11/07/2023	3:00	0.9	112.5	12/07/2023	3:00	0.9	247.5
09/07/2023	4:00	1.8	90	10/07/2023	4:00	0.9	22.5	11/07/2023	4:00	0.9	202.5	12/07/2023	4:00	0.9	135
09/07/2023	5:00	1.8	45	10/07/2023	5:00	0.9	90	11/07/2023	5:00	1.8	112.5	12/07/2023	5:00	1.3	90
09/07/2023	6:00	1.8	90	10/07/2023	6:00	1.3	90	11/07/2023	6:00	1.8	180	12/07/2023	6:00	0.9	90
09/07/2023	7:00	1.8	22.5	10/07/2023	7:00	0.9	90	11/07/2023	7:00	1.8	112.5	12/07/2023	7:00	0.9	90
09/07/2023	8:00	1.8	112.5	10/07/2023	8:00	0.9	90	11/07/2023	8:00	0.9	112.5	12/07/2023	8:00	1.3	90
09/07/2023	9:00	1.8	90	10/07/2023	9:00	1.3	22.5	11/07/2023	9:00	1.3	112.5	12/07/2023	9:00	0.4	135
09/07/2023	10:00	1.3	247.5	10/07/2023	10:00	0.4	22.5	11/07/2023	10:00	0.9	90	12/07/2023	10:00	0.9	112.5
09/07/2023	11:00	0.9	247.5	10/07/2023	11:00	0.9	22.5	11/07/2023	11:00	0.4	112.5	12/07/2023	11:00	0.9	135
09/07/2023	12:00	0.9	247.5	10/07/2023	12:00	0.9	22.5	11/07/2023	12:00	1.3	90	12/07/2023	12:00	0.9	112.5
09/07/2023	13:00	0.9	135	10/07/2023	13:00	0.4	22.5	11/07/2023	13:00	0.9	90	12/07/2023	13:00	0.4	135
09/07/2023	14:00	0.9	270	10/07/2023	14:00	0.9	90	11/07/2023	14:00	0.9	90	12/07/2023	14:00	0.9	90
09/07/2023	15:00	0.4	270	10/07/2023	15:00	0.9	135	11/07/2023	15:00	0.9	112.5	12/07/2023	15:00	0.9	157.5
09/07/2023	16:00	0.9	270	10/07/2023	16:00	0.9	112.5	11/07/2023	16:00	0.9	90	12/07/2023	16:00	0.9	90
09/07/2023	17:00	0.4	112.5	10/07/2023	17:00	1.3	112.5	11/07/2023	17:00	0.4	22.5	12/07/2023	17:00	1.3	112.5
09/07/2023	18:00	0.4	135	10/07/2023	18:00	0.9	90	11/07/2023	18:00	0.9	90	12/07/2023	18:00	1.8	112.5
09/07/2023	19:00	0.4	112.5	10/07/2023	19:00	1.3	90	11/07/2023	19:00	0.4	90	12/07/2023	19:00	2.2	112.5
09/07/2023	20:00	0.9	135	10/07/2023	20:00	0.4	135	11/07/2023	20:00	0.4	90	12/07/2023	20:00	2.2	90
09/07/2023	21:00	0.9	90	10/07/2023	21:00	0.4	112.5	11/07/2023	21:00	0.9	90	12/07/2023	21:00	2.2	112.5
09/07/2023	22:00	0.4	112.5	10/07/2023	22:00	0.4	112.5	11/07/2023	22:00	0.4	292.5	12/07/2023	22:00	0.9	135
09/07/2023	23:00	0.4	112.5	10/07/2023	23:00	0.9	112.5	11/07/2023	23:00	0.4	292.5	12/07/2023	23:00	0.9	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction												
13/07/2023	0:00	0.9	247.5	14/07/2023	0:00	1.8	112.5	15/07/2023	0:00	0.4	112.5	16/07/2023	0:00	0.9	67.5
13/07/2023	1:00	0.9	247.5	14/07/2023	1:00	0.4	112.5	15/07/2023	1:00	0.9	112.5	16/07/2023	1:00	1.3	45
13/07/2023	2:00	0.9	135	14/07/2023	2:00	0.4	90	15/07/2023	2:00	0.4	45	16/07/2023	2:00	1.3	22.5
13/07/2023	3:00	0.9	270	14/07/2023	3:00	0.4	112.5	15/07/2023	3:00	1.3	22.5	16/07/2023	3:00	1.3	22.5
13/07/2023	4:00	1.3	135	14/07/2023	4:00	0.4	135	15/07/2023	4:00	1.3	22.5	16/07/2023	4:00	0.9	22.5
13/07/2023	5:00	0.9	90	14/07/2023	5:00	0.4	112.5	15/07/2023	5:00	1.3	22.5	16/07/2023	5:00	0.9	247.5
13/07/2023	6:00	0.9	22.5	14/07/2023	6:00	0.4	135	15/07/2023	6:00	1.3	247.5	16/07/2023	6:00	0.9	45
13/07/2023	7:00	0.9	112.5	14/07/2023	7:00	0.4	112.5	15/07/2023	7:00	0.9	45	16/07/2023	7:00	0.9	45
13/07/2023	8:00	0.9	90	14/07/2023	8:00	0.9	67.5	15/07/2023	8:00	0.9	45	16/07/2023	8:00	0.9	45
13/07/2023	9:00	1.8	67.5	14/07/2023	9:00	0.4	135	15/07/2023	9:00	0.4	45	16/07/2023	9:00	0.9	90
13/07/2023	10:00	2.2	135	14/07/2023	10:00	0.9	157.5	15/07/2023	10:00	0.9	90	16/07/2023	10:00	0.9	90
13/07/2023	11:00	1.3	157.5	14/07/2023	11:00	0.9	45	15/07/2023	11:00	0.9	90	16/07/2023	11:00	0.9	112.5
13/07/2023	12:00	1.8	157.5	14/07/2023	12:00	1.8	90	15/07/2023	12:00	1.8	112.5	16/07/2023	12:00	0.4	90
13/07/2023	13:00	0.4	157.5	14/07/2023	13:00	0.1	90	15/07/2023	13:00	2.2	112.5	16/07/2023	13:00	0.9	90
13/07/2023	14:00	0.4	157.5	14/07/2023	14:00	0.1	90	15/07/2023	14:00	1.3	90	16/07/2023	14:00	0.9	112.5
13/07/2023	15:00	0.9	157.5	14/07/2023	15:00	0.1	90	15/07/2023	15:00	2.2	90	16/07/2023	15:00	0.9	112.5
13/07/2023	16:00	0.9	157.5	14/07/2023	16:00	0.1	90	15/07/2023	16:00	1.3	135	16/07/2023	16:00	2.2	90
13/07/2023	17:00	0.9	157.5	14/07/2023	17:00	0.1	90	15/07/2023	17:00	1.3	112.5	16/07/2023	17:00	2.2	90
13/07/2023	18:00	1.3	157.5	14/07/2023	18:00	0.1	112.5	15/07/2023	18:00	1.3	112.5	16/07/2023	18:00	2.7	135
13/07/2023	19:00	1.8	157.5	14/07/2023	19:00	1.3	112.5	15/07/2023	19:00	1.3	135	16/07/2023	19:00	3.6	112.5
13/07/2023	20:00	2.2	292.5	14/07/2023	20:00	0.9	90	15/07/2023	20:00	1.3	112.5	16/07/2023	20:00	3.6	112.5
13/07/2023	21:00	2.2	112.5	14/07/2023	21:00	1.8	90	15/07/2023	21:00	1.3	135	16/07/2023	21:00	4.4	135
13/07/2023	22:00	1.3	45	14/07/2023	22:00	1.3	135	15/07/2023	22:00	1.8	112.5	16/07/2023	22:00	3.3	112.5
13/07/2023	23:00	1.3	135	14/07/2023	23:00	1.3	112.5	15/07/2023	23:00	0.9	90	16/07/2023	23:00	3.3	135

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

Date	Time	Wind Speed (m/s)	Wind Direction												
17/07/2023	0:00	2.7	112.5	18/07/2023	0:00	2.7	270	19/07/2023	0:00	0.9	67.5	20/07/2023	0:00	0.9	247.5
17/07/2023	1:00	3.6	135	18/07/2023	1:00	1.8	90	19/07/2023	1:00	1.3	135	20/07/2023	1:00	0.4	67.5
17/07/2023	2:00	3.6	90	18/07/2023	2:00	2.7	112.5	19/07/2023	2:00	0.9	22.5	20/07/2023	2:00	0.9	67.5
17/07/2023	3:00	3.6	135	18/07/2023	3:00	2.7	135	19/07/2023	3:00	0.9	112.5	20/07/2023	3:00	0.9	67.5
17/07/2023	4:00	5.4	90	18/07/2023	4:00	2.2	135	19/07/2023	4:00	1.8	90	20/07/2023	4:00	0.9	67.5
17/07/2023	5:00	5.4	67.5	18/07/2023	5:00	1.8	135	19/07/2023	5:00	1.8	247.5	20/07/2023	5:00	0.9	90
17/07/2023	6:00	5.4	90	18/07/2023	6:00	1.3	135	19/07/2023	6:00	1.8	247.5	20/07/2023	6:00	0.4	112.5
17/07/2023	7:00	4.6	90	18/07/2023	7:00	1.3	135	19/07/2023	7:00	1.8	247.5	20/07/2023	7:00	0.4	45
17/07/2023	8:00	4.6	90	18/07/2023	8:00	0.4	90	19/07/2023	8:00	0.4	247.5	20/07/2023	8:00	0.4	67.5
17/07/2023	9:00	4.6	180	18/07/2023	9:00	0.4	135	19/07/2023	9:00	1.8	247.5	20/07/2023	9:00	0.4	112.5
17/07/2023	10:00	6.2	112.5	18/07/2023	10:00	0.9	90	19/07/2023	10:00	0.9	247.5	20/07/2023	10:00	0.4	135
17/07/2023	11:00	6.2	90	18/07/2023	11:00	1.3	135	19/07/2023	11:00	0.9	247.5	20/07/2023	11:00	0.4	180
17/07/2023	12:00	5.8	112.5	18/07/2023	12:00	0.4	135	19/07/2023	12:00	0.4	247.5	20/07/2023	12:00	1.3	180
17/07/2023	13:00	6.6	112.5	18/07/2023	13:00	0.9	90	19/07/2023	13:00	0.9	247.5	20/07/2023	13:00	0.9	180
17/07/2023	14:00	5.8	90	18/07/2023	14:00	0.4	90	19/07/2023	14:00	2.2	90	20/07/2023	14:00	1.3	180
17/07/2023	15:00	6.6	112.5	18/07/2023	15:00	0.9	45	19/07/2023	15:00	2.2	67.5	20/07/2023	15:00	0.4	180
17/07/2023	16:00	4.2	112.5	18/07/2023	16:00	0.4	112.5	19/07/2023	16:00	2.2	90	20/07/2023	16:00	0.4	90
17/07/2023	17:00	4.2	90	18/07/2023	17:00	0.9	112.5	19/07/2023	17:00	2.2	90	20/07/2023	17:00	0.4	90
17/07/2023	18:00	4.2	90	18/07/2023	18:00	0.4	90	19/07/2023	18:00	0.4	90	20/07/2023	18:00	1.3	45
17/07/2023	19:00	4.2	90	18/07/2023	19:00	0.9	112.5	19/07/2023	19:00	0.4	90	20/07/2023	19:00	0.9	112.5
17/07/2023	20:00	3.3	90	18/07/2023	20:00	0.4	90	19/07/2023	20:00	0.9	90	20/07/2023	20:00	1.3	112.5
17/07/2023	21:00	3.6	90	18/07/2023	21:00	0.4	112.5	19/07/2023	21:00	1.3	67.5	20/07/2023	21:00	0.9	90
17/07/2023	22:00	2.7	90	18/07/2023	22:00	0.4	337.5	19/07/2023	22:00	0.4	90	20/07/2023	22:00	0.9	112.5
17/07/2023	23:00	3.6	90	18/07/2023	23:00	0.9	22.5	19/07/2023	23:00	0.9	112.5	20/07/2023	23:00	0.9	270

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

Date	Time	Wind Speed (m/s)	Wind Direction												
21/07/2023	0:00	0.9	67.5	22/07/2023	0:00	0.9	67.5	23/07/2023	0:00	0.4	22.5	24/07/2023	0:00	0.9	135
21/07/2023	1:00	2.2	67.5	22/07/2023	1:00	0.4	135	23/07/2023	1:00	0.4	157.5	24/07/2023	1:00	2.2	67.5
21/07/2023	2:00	2.2	67.5	22/07/2023	2:00	0.4	45	23/07/2023	2:00	1.8	67.5	24/07/2023	2:00	2.2	157.5
21/07/2023	3:00	0.4	90	22/07/2023	3:00	2.2	45	23/07/2023	3:00	1.8	112.5	24/07/2023	3:00	0.4	67.5
21/07/2023	4:00	0.9	90	22/07/2023	4:00	1.8	45	23/07/2023	4:00	1.3	112.5	24/07/2023	4:00	0.9	112.5
21/07/2023	5:00	0.4	90	22/07/2023	5:00	1.8	45	23/07/2023	5:00	0.9	270	24/07/2023	5:00	0.4	112.5
21/07/2023	6:00	0.9	112.5	22/07/2023	6:00	1.8	45	23/07/2023	6:00	0.4	45	24/07/2023	6:00	0.9	270
21/07/2023	7:00	0.4	112.5	22/07/2023	7:00	1.8	112.5	23/07/2023	7:00	0.9	315	24/07/2023	7:00	1.8	135
21/07/2023	8:00	0.4	67.5	22/07/2023	8:00	1.8	112.5	23/07/2023	8:00	1.3	247.5	24/07/2023	8:00	1.3	315
21/07/2023	9:00	0.4	135	22/07/2023	9:00	1.8	112.5	23/07/2023	9:00	1.8	247.5	24/07/2023	9:00	0.9	315
21/07/2023	10:00	0.4	135	22/07/2023	10:00	1.3	112.5	23/07/2023	10:00	1.3	247.5	24/07/2023	10:00	0.4	315
21/07/2023	11:00	0.4	112.5	22/07/2023	11:00	0.9	112.5	23/07/2023	11:00	1.3	247.5	24/07/2023	11:00	0.4	315
21/07/2023	12:00	0.9	90	22/07/2023	12:00	0.4	112.5	23/07/2023	12:00	0.9	247.5	24/07/2023	12:00	0.9	315
21/07/2023	13:00	1.3	135	22/07/2023	13:00	0.9	112.5	23/07/2023	13:00	0.4	90	24/07/2023	13:00	1.3	135
21/07/2023	14:00	0.9	247.5	22/07/2023	14:00	1.3	112.5	23/07/2023	14:00	0.9	45	24/07/2023	14:00	0.9	135
21/07/2023	15:00	0.4	180	22/07/2023	15:00	1.8	135	23/07/2023	15:00	0.4	135	24/07/2023	15:00	0.4	22.5
21/07/2023	16:00	0.9	135	22/07/2023	16:00	0.4	225	23/07/2023	16:00	0.4	225	24/07/2023	16:00	1.3	22.5
21/07/2023	17:00	1.3	135	22/07/2023	17:00	0.9	67.5	23/07/2023	17:00	0.4	90	24/07/2023	17:00	0.4	45
21/07/2023	18:00	1.8	135	22/07/2023	18:00	0.4	67.5	23/07/2023	18:00	0.9	90	24/07/2023	18:00	0.4	45
21/07/2023	19:00	1.3	112.5	22/07/2023	19:00	0.4	67.5	23/07/2023	19:00	0.9	90	24/07/2023	19:00	0.9	112.5
21/07/2023	20:00	1.3	90	22/07/2023	20:00	0.4	67.5	23/07/2023	20:00	0.4	90	24/07/2023	20:00	1.3	67.5
21/07/2023	21:00	1.3	90	22/07/2023	21:00	0.9	90	23/07/2023	21:00	0.4	90	24/07/2023	21:00	0.4	0
21/07/2023	22:00	1.3	112.5	22/07/2023	22:00	0.9	90	23/07/2023	22:00	0.9	90	24/07/2023	22:00	0.9	45
21/07/2023	23:00	1.3	112.5	22/07/2023	23:00	0.4	90	23/07/2023	23:00	0.9	112.5	24/07/2023	23:00	1.8	112.5

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

Date	Time	Wind Speed (m/s)	Wind Direction												
25/07/2023	0:00	0.4	67.5	26/07/2023	0:00	2.2	112.5	27/07/2023	0:00	0.9	90	28/07/2023	0:00	0.4	67.5
25/07/2023	1:00	0.4	225	26/07/2023	1:00	2.2	112.5	27/07/2023	1:00	0.9	90	28/07/2023	1:00	0.9	247.5
25/07/2023	2:00	0.9	67.5	26/07/2023	2:00	0.9	90	27/07/2023	2:00	0.9	90	28/07/2023	2:00	0.9	180
25/07/2023	3:00	1.3	225	26/07/2023	3:00	1.3	135	27/07/2023	3:00	0.9	45	28/07/2023	3:00	1.3	135
25/07/2023	4:00	0.9	90	26/07/2023	4:00	1.3	247.5	27/07/2023	4:00	0.9	67.5	28/07/2023	4:00	1.3	90
25/07/2023	5:00	0.1	112.5	26/07/2023	5:00	1.3	180	27/07/2023	5:00	1.3	22.5	28/07/2023	5:00	0.9	90
25/07/2023	6:00	0.1	225	26/07/2023	6:00	0.4	135	27/07/2023	6:00	1.8	157.5	28/07/2023	6:00	0.9	90
25/07/2023	7:00	0.1	247.5	26/07/2023	7:00	0.9	90	27/07/2023	7:00	1.3	67.5	28/07/2023	7:00	0.9	315
25/07/2023	8:00	0.1	67.5	26/07/2023	8:00	0.9	90	27/07/2023	8:00	1.3	135	28/07/2023	8:00	1.3	225
25/07/2023	9:00	0.4	67.5	26/07/2023	9:00	0.9	90	27/07/2023	9:00	1.8	90	28/07/2023	9:00	0.9	225
25/07/2023	10:00	1.3	67.5	26/07/2023	10:00	1.3	315	27/07/2023	10:00	1.3	112.5	28/07/2023	10:00	0.9	135
25/07/2023	11:00	0.9	90	26/07/2023	11:00	1.3	315	27/07/2023	11:00	1.3	112.5	28/07/2023	11:00	1.3	112.5
25/07/2023	12:00	1.3	90	26/07/2023	12:00	0.9	315	27/07/2023	12:00	1.3	90	28/07/2023	12:00	0.9	112.5
25/07/2023	13:00	1.3	225	26/07/2023	13:00	0.9	90	27/07/2023	13:00	1.3	112.5	28/07/2023	13:00	0.4	112.5
25/07/2023	14:00	1.3	225	26/07/2023	14:00	1.3	135	27/07/2023	14:00	1.3	247.5	28/07/2023	14:00	0.9	112.5
25/07/2023	15:00	0.4	225	26/07/2023	15:00	1.3	135	27/07/2023	15:00	0.4	270	28/07/2023	15:00	2.2	112.5
25/07/2023	16:00	0.9	225	26/07/2023	16:00	2.2	90	27/07/2023	16:00	0.9	90	28/07/2023	16:00	1.3	45
25/07/2023	17:00	1.3	225	26/07/2023	17:00	1.3	90	27/07/2023	17:00	0.9	135	28/07/2023	17:00	1.8	67.5
25/07/2023	18:00	1.8	225	26/07/2023	18:00	1.3	135	27/07/2023	18:00	1.3	135	28/07/2023	18:00	1.3	22.5
25/07/2023	19:00	0.9	225	26/07/2023	19:00	0.4	135	27/07/2023	19:00	0.9	112.5	28/07/2023	19:00	1.3	157.5
25/07/2023	20:00	0.9	225	26/07/2023	20:00	0.9	112.5	27/07/2023	20:00	0.4	90	28/07/2023	20:00	1.3	67.5
25/07/2023	21:00	0.9	270	26/07/2023	21:00	0.9	90	27/07/2023	21:00	0.9	112.5	28/07/2023	21:00	1.3	135
25/07/2023	22:00	1.3	180	26/07/2023	22:00	1.3	112.5	27/07/2023	22:00	2.2	112.5	28/07/2023	22:00	1.3	90
25/07/2023	23:00	0.9	180	26/07/2023	23:00	0.9	112.5	27/07/2023	23:00	1.3	112.5	28/07/2023	23:00	0.9	157.5

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

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/07/2023	0:00	0.9	90	30/07/2023	0:00	0.4	202.5	31/07/2023	0:00	0.9	112.5				
29/07/2023	1:00	1.3	90	30/07/2023	1:00	1.3	90	31/07/2023	1:00	1.3	112.5				
29/07/2023	2:00	1.3	135	30/07/2023	2:00	1.3	112.5	31/07/2023	2:00	1.3	135				
29/07/2023	3:00	1.8	135	30/07/2023	3:00	0.4	112.5	31/07/2023	3:00	1.8	90				
29/07/2023	4:00	0.4	112.5	30/07/2023	4:00	0.9	135	31/07/2023	4:00	0.4	90				
29/07/2023	5:00	0.9	292.5	30/07/2023	5:00	0.9	67.5	31/07/2023	5:00	0.9	90				
29/07/2023	6:00	1.8	90	30/07/2023	6:00	0.9	67.5	31/07/2023	6:00	1.8	90				
29/07/2023	7:00	1.8	112.5	30/07/2023	7:00	0.9	67.5	31/07/2023	7:00	1.8	90				
29/07/2023	8:00	1.3	112.5	30/07/2023	8:00	0.9	67.5	31/07/2023	8:00	2.2	112.5				
29/07/2023	9:00	0.4	135	30/07/2023	9:00	0.9	90	31/07/2023	9:00	2.2	90				
29/07/2023	10:00	0.9	135	30/07/2023	10:00	0.9	112.5	31/07/2023	10:00	0.4	112.5				
29/07/2023	11:00	1.3	135	30/07/2023	11:00	0.9	45	31/07/2023	11:00	1.3	247.5				
29/07/2023	12:00	1.8	135	30/07/2023	12:00	0.4	22.5	31/07/2023	12:00	1.3	270				
29/07/2023	13:00	0.9	90	30/07/2023	13:00	0.4	22.5	31/07/2023	13:00	1.3	247.5				
29/07/2023	14:00	0.9	90	30/07/2023	14:00	1.8	22.5	31/07/2023	14:00	1.3	247.5				
29/07/2023	15:00	2.2	180	30/07/2023	15:00	1.8	22.5	31/07/2023	15:00	1.3	247.5				
29/07/2023	16:00	1.3	45	30/07/2023	16:00	1.8	112.5	31/07/2023	16:00	0.4	247.5				
29/07/2023	17:00	1.8	45	30/07/2023	17:00	1.3	67.5	31/07/2023	17:00	1.3	67.5				
29/07/2023	18:00	1.3	45	30/07/2023	18:00	0.9	202.5	31/07/2023	18:00	0.4	22.5				
29/07/2023	19:00	1.3	135	30/07/2023	19:00	0.4	202.5	31/07/2023	19:00	0.4	157.5				
29/07/2023	20:00	1.3	45	30/07/2023	20:00	0.9	202.5	31/07/2023	20:00	0.4	157.5				
29/07/2023	21:00	1.3	90	30/07/2023	21:00	0.9	112.5	31/07/2023	21:00	0.4	157.5				
29/07/2023	22:00	1.3	45	30/07/2023	22:00	0.9	112.5	31/07/2023	22:00	0.4	90				
29/07/2023	23:00	1.3	45	30/07/2023	23:00	0.4	157.5	31/07/2023	23:00	0.1	157.5				

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

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

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

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cfi		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
03/07/2023	Fine	32.5	1008.8	15.1042	15.1513	0.0471	2023/7/3 9:15	2023/7/4 9:15	1440	50	50	1.31	1887	25
08/07/2023	Fine	33.7	1010.4	18.4711	18.5122	0.0411	2023/7/8 13:15	2023/7/9 13:15	1440	52	52	1.36	1963	21
14/07/2023	Fine	31.8	1014.4	15.7771	15.9426	0.1655	2023/7/14 9:10	2023/7/15 9:10	1440	50	50	1.32	1895	87
20/07/2023	Fine	32.3	1008.5	18.5252	18.5749	0.0497	2023/7/20 13:10	2023/7/21 13:10	1440	52	52	1.37	1966	25
26/07/2023	Fine	35.4	1002.3	14.7545	14.9446	0.1901	2023/7/26 13:20	2023/7/27 13:20	1440	52	52	1.35	1949	98
												Maxim	um	98

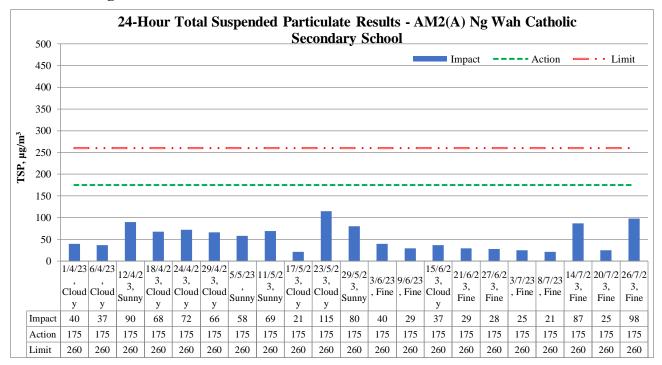
Location: AM2(A) – Ng Wah Catholic Secondary School

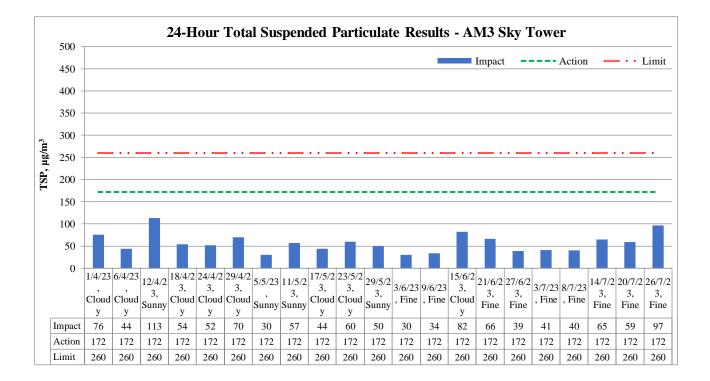
1.35	1949	98
Maxim	um	98
Minim	um	21
Avera	ge	51
Action L	Level	175
Limit L	evel	260

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter w	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
03/07/2023	Fine	32.5	1008.8	18.4556	18.5304	0.0748	2023/7/3 13:20	2023/7/4 13:20	1440	46	46	1.27	1825	41
08/07/2023	Fine	33.7	1010.4	15.0827	15.1563	0.0736	2023/7/8 9:24	2023/7/9 9:24	1440	46	46	1.27	1822	40
14/07/2023	Fine	31.8	1014.4	18.4912	18.6095	0.1183	2023/7/14 13:23	2023/7/15 13:23	1440	46	46	1.27	1832	65
20/07/2023	Fine	32.3	1008.5	14.8878	14.9963	0.1085	2023/7/20 9:27	2023/7/21 9:27	1440	46	46	1.27	1825	59
26/07/2023	Fine	35.4	1002.3	18.4253	18.6017	0.1764	2023/7/26 9:22	2023/7/27 9:22	1440	46	46	1.26	1810	97
												Maxim	nim	97

Maximum	97
Minimum	40
Average	61
Action Level	172
Limit Level	260

24-hour average TSP





		Reportin	g Period	
Major Construction Activities	April 2023	May 2023	June 2023	July 2023
Construction works for DCS	\checkmark	✓	\checkmark	\checkmark
Construction works for SB-01 tunnel			✓	✓
Construction of Underpinning of S14				\checkmark
Construction of Retaining Wall Type 1 for S14			\checkmark	\checkmark
ELS and excavation works for retrieving shaft at Sa Po Road	\checkmark			
ELS modification and Backfilling works for Retrieving Shaft at Sa Po Road		\checkmark	\checkmark	\checkmark
Pre-bored socket H-pile construction works for Slip Road S14	\checkmark	\checkmark	\checkmark	
GI and Grouting works for Slip Road S14				\checkmark
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	\checkmark	~	~	~
RC construction for decking of LW-02	\checkmark	√		
RC construction for decking of Elevated Walkway LW-02			✓	✓
RC construction for Subway KS10 Lift and Staircase	\checkmark	✓	✓	✓
RC construction works for lift and staircase of LW-02	\checkmark	✓	✓	✓
Renovation works for existing subways KS9, KS32 and KS10	\checkmark	✓	✓	✓
Road and drain construction works for Road L16	\checkmark	\checkmark	✓	✓
Road and drain construction works for Olympic Avenue	\checkmark	\checkmark	✓	✓
Assembly of RTBM at launching shaft for SB-01	\checkmark	\checkmark	\checkmark	

		Reporting	g Period	
Factors might affect the monitoring results	April 2023	May 2023	June 2023	July 2023
Non-project related construction activities in the adjacent construction sites were observed.	\checkmark	~	~	~

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

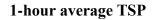
	Date	Measure	emer	nt Period	1-hr TSP concentration, µg/m ³	Weather
Location:		9:00	-	10:00	30	
AM2(A) –	03/07/2023	10:00	-	11:00	30	Fine
		11:00	-	12:00	32	
Ng Wah Catholic		13:00	-	14:00	38	
Secondary School	08/07/2023	14:00	-	15:00	38	Fine
		15:00	-	16:00	35	
		9:00	-	10:00	78	
	14/07/2023	10:00	-	11:00	69	Fine
		11:00	-	12:00	79	
		13:00 - 14:00 30				
	20/07/2023	14:00	-		Fine	
		15:00	-	16:00	33	
		13:00	-	14:00	101	
	26/07/2023	14:00	-	15:00	105	Fine
		15:00	-	16:00	98	
	Ν	laximum			105	
	Ν	linimum			30	
		Average			55	
		tion Level	l		302	
	Li	mit Level			500	

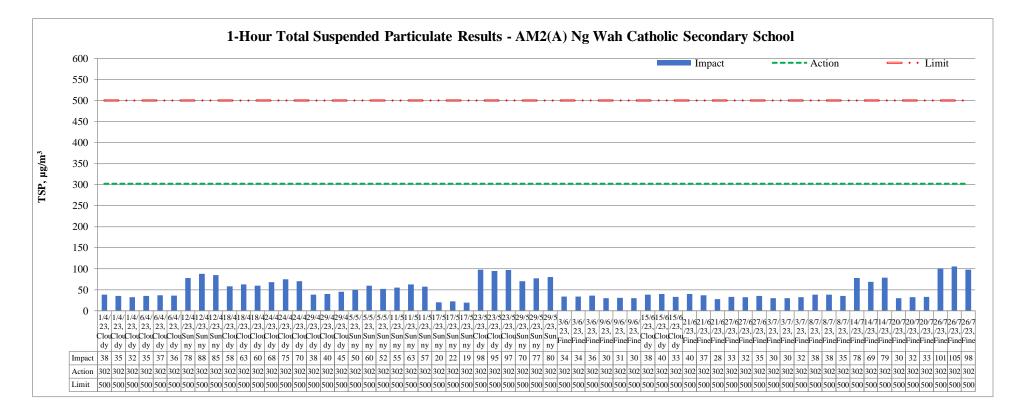
Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
	13:00	-	14:00	37	
03/07/2023	14:00	-	15:00	39	Fine
	15:00	-	16:00	38	
	9:00	-	10:00	36	
08/07/2023	10:00	-	11:00	35	Fine
	11:00	-	12:00	36	
	13:00	-	14:00	54	
14/07/2023	14:00	-	15:00	57	Fine
	15:00	-	16:00	57	
	9:00	-	10:00	68	
20/07/2023	10:00	-	11:00	69	Fine
	11:00	-	12:00	70	
	9:00	-	10:00	92	
26/07/2023	10:00	-	11:00	92	Fine
	11:00	-	12:00	98	
N	laximum			98	
N	linimum			35	
	Average			59	
Ac	tion Level	1		301	
Li	mit Level			500	

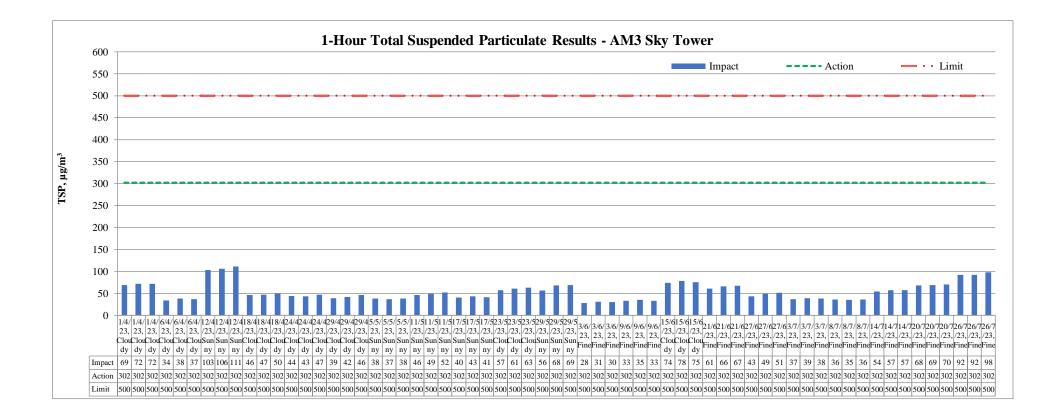
Location:

AM3 -

Sky Tower







		Reportir	g Period	
truction works for SB-01 tunnel truction of Underpinning of S14 truction of Retaining Wall Type 1 for S14 and excavation works for retrieving shaft at Sa Po Road modification and Backfilling works for Retrieving Shaft at Sa Po Road pored socket H-pile construction works for Slip Road S14 and Grouting works for Slip Road S14 tion of falseworks and working platform for decking of Elevated way LW-02 onstruction for decking of LW-02 onstruction for decking of Elevated Walkway LW-02 onstruction for Subway KS10 Lift and Staircase onstruction works for lift and staircase of LW-02 vation works for existing subways KS9, KS32 and KS10 and drain construction works for Road L16 and drain construction works for Olympic Avenue	April	May	June	July
	2023	2023	2023	2023
Construction works for DCS	\checkmark	✓	✓	✓
Construction works for SB-01 tunnel			~	✓
Construction of Underpinning of S14				✓
Construction of Retaining Wall Type 1 for S14			~	✓
ELS and excavation works for retrieving shaft at Sa Po Road	\checkmark			
ELS modification and Backfilling works for Retrieving Shaft at Sa Po Road		✓	√	✓
Pre-bored socket H-pile construction works for Slip Road S14	\checkmark	\checkmark	~	
GI and Grouting works for Slip Road S14				✓
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	\checkmark	~	✓	~
RC construction for decking of LW-02	\checkmark	✓		
RC construction for decking of Elevated Walkway LW-02			\checkmark	✓
RC construction for Subway KS10 Lift and Staircase	\checkmark	✓	√	✓
RC construction works for lift and staircase of LW-02	\checkmark	✓	√	✓
Renovation works for existing subways KS9, KS32 and KS10	\checkmark	✓	√	✓
Road and drain construction works for Road L16	\checkmark	✓	√	✓
Road and drain construction works for Olympic Avenue	\checkmark	✓	\checkmark	\checkmark
Assembly of RTBM at launching shaft for SB-01	\checkmark	✓	\checkmark	

		Reporting	g Period	
Factors might affect the monitoring results	April 2023	May 2023	June 2023	July 2023
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~

Appendix I – Event and Action Plan for air quality

D (Actio	on	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded by one sampling	 Identify source and investigate the causes of exceedance; Inform Contractor, IEC and Supervisor /ER; Repeat measurement to confirm finding. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Action Level being exceeded by two or more consecutive	1. Identify source and investigate the causes of exceedance;	submitted by ET; 2. Check Contractor's	notification of exceedance in writing;	1. Discuss with ET and IEC on proper remedial actions;
sampling	2. Inform Contractor, IEC and Supervisor /ER;	U i	 Notify Contractor; 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.	of remedial measures;5. Conduct meeting with ET and IEC if exceedance	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 exceeded by one sampling	1. Identify source and investigate the causes of exceedance;	 Check monitoring data submitted by ET; Check Contractor's 	 Confirm receipt of notification of exceedance in writing; 	 Take immediate action to avoid further exceedance; Discuss with ET and IEC
	2. Inform Contractor, IEC, Supervisor /ER, and EPD;	working method; 2	 Notify Contractor; In consolidation with the 	on proper remedial actions;
	3. Repeat measurement to confirm finding;	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.	 implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues. 	within three working days of notification;4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	 Notify IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; Increase monitoring frequency to daily; Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken; Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results; 	 submitted by ET; Check Contractor's working method; 	 notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise implementation of remedial measures; 	 Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification; Implement the agreed proposals; Submit further remedial actions if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.
	 If exceedance stop, cease additional monitoring. 			

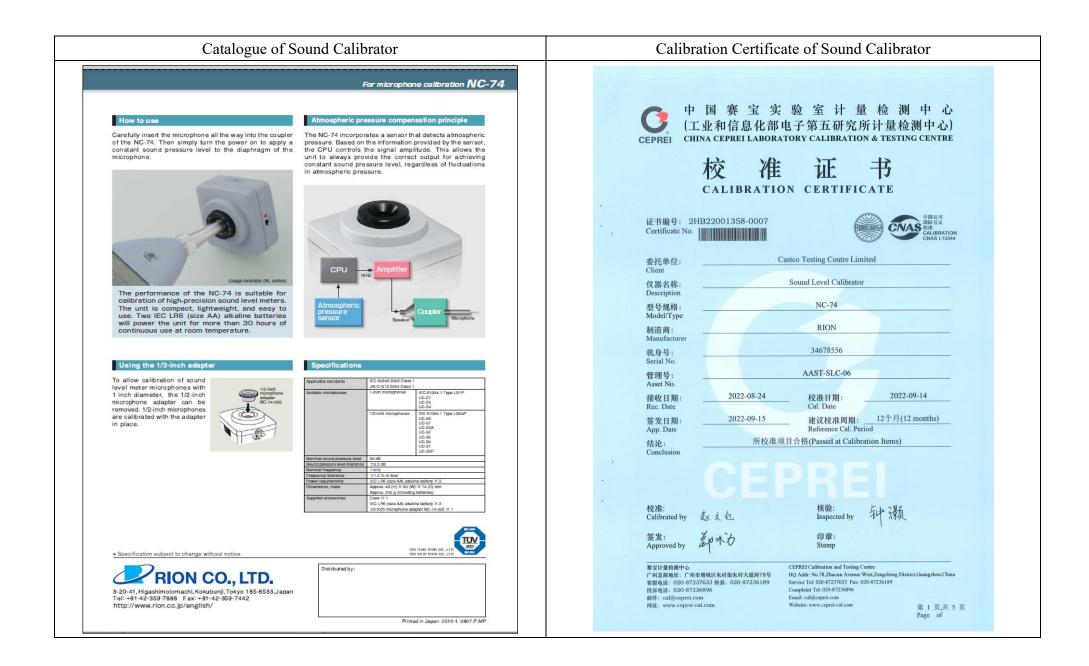
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

			•					
Spec	ifications							
					recall		Allows viewing of stored data	
		NL-52	NL-42	Setup	p memoi	ry	Up to five setup configurations ca Start up via file settings previou	an be saved in internal memory, for later rec sly stored on SD card possible
Аррисарі	e standards	IEC 61672-1: 2002 Class 1 ANSI S1.4-1983 Type 1	TEC 61672-1: 2002 Class 2 ANSI S1.4-1983 Type 2		form reco		11	
		ANSI S1.4A-1985 Type 1	ANSI S1.4A-1985 Type 2		le format ampling fre		Uncompressed waveform WAV Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	IS C 1509-1: 2005 Class 2				Select 24 bit or 16 bit	
	•			Outputs				
Measure	ment functions	Simultaneous measurement of the t			AC ou	itput		
Proces	ssing (main ch)		: Lp		Out	tput voltage	1 ∨ (rms values) at bar graph d	isplay full scale
		Equivalent continuous sound press						
			ax		50 (B.		Allows USB to be connected to a	computer and recognized as a removable d
						nmunication		
Proces	ssing (sub ch)			Data	continuo	us output*2		
Additic	onal processing		s, one of the following can be selected	da	ata P	rocessed value	Lp Leq, Lmax, Lmin, Lpeak	
		C-weighted equivalent continuous s				erval	100 ms Printing of measurement results	s on dedicated printer DPU-414
				Powe	er require		Four IEC R6 (size AA) batteries (alkalin	e or rechargeable batteries) or external power supp
		I-time-weighted equivalent continuous	sound level: LAIeq *2	Ba	attery life	e (23 °C)		
							NC-98C (NC-34 for previous me	
		The frequency weighting for the additional pro	cessing synchronizes with the frequency weighting					peration, rated voltage)
				Ambie	ient T	emperature	-10 to +50 °C	
		(Lzpeak) are selectable.	and manual (manimum 24 k)					
Measurin Microphone	Туре	UC-59	UC-52					
Measurer	Sensitivity level ment range		-33 dB				Storage case x 1, Windscreen WS	-10 x 1, Windscreen fall prevention rubber x 1
		C-weighting: 33 dB to 138 dB					Hand strap x 1, LR6 (AA) alkaline preinstalled model only)	batteries x 4, SD card 512 MB×1 (NX-42EX
			B to 141 dB	Onti	iono			
	1			Opti	ions	Proc	luct name	Product number
Inherent noise	C-weighting	25 dB or less	27 dB or less					NX-42EX
Froquono	Z-weighting	30 dB or less	32 dB or less					NX-42RT
	y weighting	A, C, and Z	201121001112					NX-42FT
Time wei Level ran			B)	Data	manage	ment software	for environmental measurement	AS-60RT
Bar grag	ph display range max	Max. 110 dB (20 to 130 dB)						AS-60VM
	g of bar graph display ection circuit	Set the upper/ lower limit in 10 dB in Digital processing method	ncrements.	Wave	eform ar	nalysis softwa		CAT-WAVE
Sampling	l cycle		k : sampling frequency: 48 kHz)					
Calibratic	n	Measurement Law: electrical calibration p		AC a	adapter (V)	NC-98C
Correctio	n functions		tic calibration performed with the NC-74.			extension cat	bles	
		Compliant with IEC 61672-1 and JIS C 150	09-1 standards when the windscreen is installed.	BNC-	-Pin out	put code		CC-24
			stics in order to comply with standards			output cable		DPU-414
Dolari	10	(ANSI S1.4) in diffuse sound field.				ial I/O cable		CC-42P CC-42R
Delay tim	10			USB	cable			-
Back era	se function							NC-74 WS-15
Display				Wind	dscreen i	mounting ada		WS-15006
		* LCD with touch panel (Capacitive Numerical display undate frequency: 1	Touch Panel)				n	WS-16 ST-80
Store		Data for measurement results are stor		All-w	/eather v	vindscreen tri		ST-81
	Number of data		of the SD Card * 1	*4 Pro	otection	against harm	ful dust and water splashing from	
EEEA	uto ∗2	Instantaneous values (Lp mode) and	d processed values (Leg mode) are					compartment lid are firmly closed.
Г	Lp sampling cycle		iry at preset intervals.					
	Leg sampling cycle	10 s, 1, 5, 10, 15, 30 ms, 1, 8, 24 h						
	measurement nine	Max. Tood II (depends of the capa	city of the 3D Card)++					150 14001
								ISO 14001 RION CO., LTD. ISO 9001 RION CO., LTD.
		-						
Jistribt	aeu by.			/				
						ht	tp://www.rion.co.jp/eng	glish/
				iei:	+01-	42-359-	1000 Fax: +81-42-	309-7442



CEPREI 证书编号(Certif	cate No.): 2HB22001076-0003	CEPREI			证书编号	(Certificate No.):	2HB22001076	6-0003
		4 A计权特性(A-W	Veighting Char	acteristic)				
1 外观与工作正常性检查 (Appearance and Function Check)		频率	实测值	理论值	误差	允许误差	结论	U
无影响证书中测量结果准确度的因素和缺陷。	of the earlificate	(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(<i>k</i> =2)
There are no factor and defect that affect the measurement result accuracy	of the certificate.	(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
2 指示声级调整 (Indication SPL Calibration)	频率(Frequency)=1000Hz	20	-50.5	-50.5	0.0	±2.0	Р	0.5
指示严级调整 (Indication SPL Calibration) 传声器型号 传声器编号 放大器		25	-44.9	-44.7	-0.2	+2.0 ~ -1.5	Р	0.5
		31.5	-39.7	-39.4	-0.3	±1.5	Р	0.5
icrophone Type) (Microphone SN.) (Preamplifie		40	-34.5	-34.6	0.1	±1.0	Р	0.5
· · · · · ·		50	-30.3	-30.2	-0.1	±1.0	Р	0.5
声校准器型号 标准声压级 校准前示值	校准后示值 U	63	-26.2	-26.2	0.0	±1.0	Р	0.5
Calibrator Type) (Reference SPL) (Before Calibration)	(After Calibration) (k=2)	80	-22.3	-22.5	0.2	±1.0	Р	0.5
(dB) (dB)	(dB) (dB)	100	-19.1	-19.1	0.0	±1.0	Р	0.5
4226 94.0 93.8	93.8 0.2	125	-16.1	-16.1	0.0	±1.0	Р	0.5
7220 910 900		160	-13.2	-13.4	0.2	±1.0	Р	0.5
及线性 (Level Linearity)		200	-10.8	-10.9	0.1	±1.0	Р	0.5
参考级量程 (Reference Range) 频率(Frequency): 8000H		250	-8.6	-8.6	0.0	±1.0	Р	0.5
起始点指示声级(Sound Level Indication		315	-6.6	-6.6	0.0	±1.0	Р	0.4
起始点以上间隔10dB点的最大误差(Maximum Error for each 10dB a		400	-4.7	-4.8	0.1	±1.0	Р	0.4
	U (k=2) 0.6 dB	500	-3.2	-3.2	0.0	±1.0	Р	0.4
限以下5dB间隔1dB点的最大误差(Maximum Error for each 1dB below U	pper Limit 5dB): -0.2 dB	630	-1.9	-1.9	0.0	±1.0	Р	0.4
	U (k=2) 0.6 dB	800	-0.8	-0.8	0.0	±1.0	Р	0.4
起始点以下间隔10dB点的最大误差(Maximum Error for each 10dB b	low Start Point): -0.2 dB	1000(Ref.) 1250	0.0	0.0	0.0	±0.7	Р	0.4
	U (k=2) 0.6 dB	1230	0.5	0.6	-0.1	±1.0	Р	0.6
下限以上5dB间隔1dB点的最大误差(Maximum Error for each 1dB above L	ower Limit 5dB): -0.2 dB	2000	1.0	1.0	-0.1	±1.0 ±1.0	P	0.6
	U (k=2) 0.6 dB	2500	1.0	1.2	-0.2	±1.0 ±1.0	P	0.6
		3150	0.9	1.3	-0.2	±1.0 +1.0	P	0.6
2 其它级量程 (Other Range) 频率(Frequency): 1000H	• (R)	4000	0.5	1.2	-0.3	±1.0 ±1.0	P	0.6 0.6
起始点指示声级(Sound Level Indication		5000	0.3	0.5	-0.2	±1.5	P	0.6
起始点以上间隔10dB点的最大误差(Maximum Error for each 10dB a	bove Start Point): -0.1 dB	6300	-0.2	-0.1	-0.1	+1.5 ~ -2.0	P	0.6
	$U \ (k=2) \ 0.4 \ \text{dB}$	8000	-1.1	-1.1	0.0	+1.5 ~ -2.5	Р	0.6
上限以下5dB间隔1dB点的最大误差(Maximum Error for each 1dB below U	pper Limit 5dB): -0.1 dB	10000	-2.3	-2.5	0.2	+2.0 ~ -3.0	P	0.6
	U (k=2) 0.4 dB	12500	-4.3	-4.3	0.0	+2.0 ~ -5.0	Р	1.0
起始点以下间隔10dB点的最大误差(Maximum Error for each 10dB b		16000	-8.5	-6.6	-1.9	+2.5 ~ -16.0	Р	1.0
	U (k=2) 0.4 dB	20000	-18.5	-9.3	-9.2	+3.0 ~ -∞	Р	1.0
下限以上5dB间隔1dB点的最大误差(Maximum Error for each 1dB above I								
	U (k=2) 0.4 dB							
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CEPRE							
CEPRE	EI			证书编号	(Certificate No.):	2HB22001076	5-0003
5 Cit	十权特性(C-We	eighting Chai	racteristic)				
	频率	实测值	理论值	误差	允许误差	结论	U
	requency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(<i>k</i> =2)
	(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
	20	-6.6	-6.2	-0.4	±2.0	Р	0.5
	25	-4.7	-4.4	-0.3	+2.0 ~ -1.5	P	0.5
	31.5	-3.0	-3.0	0.0	±1.5	P P	0.5 0.5
	40	-2.0	-2.0	0.0	±1.0 ±1.0	P	0.5
	50	-1.3	-1.3	0.0 0.0	±1.0 ±1.0	P	0.5
	63	-0.8	-0.8 -0.5	0.0	±1.0 ±1.0	P P	0.5
	80	-0.4 -0.2	-0.3	0.1	±1.0	P	0.5
	100 125	-0.2	-0.2	0.1	±1.0	P	0.5
	125	-0.1	-0.1	0.1	±1.0	Р	0.5
	200	0.0	0.0	0.0	±1.0	Р	0.5
	250	0.0	0.0	0.0	±1.0	Р	0.5
	315	0.0	0.0	0.0	±1.0	Р	0.4
	400	0.0	0.0	0.0	±1.0	Р	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
10	000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
	1250	-0.1	0.0	-0.1	±1.0	Р	0.6
	1600	-0.2	-0.1	-0.1	±1.0	Р	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	-1.1	-0.8	-0.3	±1.0	Р	0.6
	5000	-1.5	-1.3	-0.2	±1.5	Р	0.6
	6300	-2.1	-2.0	-0.1	+1.5 ~ -2.0	Р	0.6
	8000	-3.0	-3.0	0.0	+1.5 ~ -2.5	Р	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	-10.4	-8.5	-1.9	+2.5 ~ -16.0		1.0
	20000	-20.4	-11.2	-9.2	+3.0 ~ -∞	Р	1.0
			数据页(Data s	heet) ID-	071288	第 7 页	頁,共 8 页
			致语贝(Data s	neet) ID:	071200	Page of	of



ife 特编将(Certificate No.)): 2HB22001358-0007		
	CEPBEI 证书编号(Certificate No.): 2HB22001358-0007
说明	CEPHEI	
DIRECTIONS	1 外观与工作正常性检查 (Appearance and Function Check) 无影响证书中校准结果准确度的因素和缺陷。	
1. 本机构质量管理体系符合1SO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会(There are no factor and defect that affect the calibration result acc	uracy of the certificate.
CNAS)认可,认可证书号为: CNAS L13344. This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National Accreditation Service for Conformity Assessment, No. CNAS L13344.	2 声压级 (Sound Pressure Level)	
 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes): IJG 176-2005 声校准器检定规程: Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz): 94dB 		
, 104dB, 114dB,(31.5Hz~16kHz); Frequency: 31.5Hz~16kHz; Harmonic Distortion: 0~10%, (20Hz~20		:许范围 结论 U
k122)。 計理內容資產量CNAS网站中注册编号为L13344的证书附件,超出范围的內容未被认可,其信型结论所依据的合格评定活动不在认可 范围内。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the result/conclusions are based are outside the scope of accreditation.).		Limit) (Pass/Fail) (k=2) (dB) (dB)
assessment activities on which the results/conclusions are based are outside the scope of accreditation.). 3. 本次校准所使用的主要测量标准(The main measurement standards used during the calibration):	(dB) (dB) (dB) 94 93.93 0.07	≤0.40 P 0.10
3. 本(大化市)(大化市)(大化市)(大化市)(大化市)(本)(本)(本)(本)(本)(本)(本)(本)(本)(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1)(-1		
	3 頻率 (Frequency)	
前置放大器(2239843) GFJGJL1001220311960/2023-03-27/航空 频率响应:±0.1dB (10~50000) Hz 304所		No.++120 /+15 /11 -
PULSE分析系统(3160-1 4GC22000014-0140/2023-01-15/赛宝(广州) 频率:U _{el} =0.001% ₄ /=2;电压: 频率-0.001Hz-51.2kHz, 06540) U _{el} =0.04% ₄ /=2 电压:(1×10 ⁵ ~30)V		;许范围 结论 Urel (Limit) (Pass/Fail) (<i>k</i> =2)
4. 校准地点(The calibration place); 广州市增坡区朱村街朱村大道西78号9栋110室	(Hz) (Hz) (%)	(%) (%)
/ 州市增强区本付旬本付入垣四/8亏9%110至 5. 环境条件(Environmental conditions):	1000 1003.7 0.37	≤1.00 P 0.10
温度(Temperature): 23.8°C 相对湿度(Relative Humidity): 61%		
6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。	4 总失真 (Distortion)	
The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage	援定声压级 规定频率 总失真 并	公许范围 结论 Urel
factor k which corresponding to the coverage probability about 95%.		(Limit) (Pass/Fail) (k=2)
7.证书中"P"、"合格"代表"测量结果在允许范围内","F"、"不合格"代表"测量结果不在允许范围内","N/A"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应	(dB) (Hz) (%)	(%)
结合实际测量的要求合理使用,如考虑测量结果测量个确定度的影响等。 "P" and "Pass" in this certificate stand for "Low Limit <the "f"="" "fail"="" "the<="" <high="" and="" for="" limit",="" measured="" stand="" td="" value=""><td>94 1000 0.02</td><td>≤3.00 P 5.0</td></the>	94 1000 0.02	≤3.00 P 5.0
measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use		B
them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.	以下空白/No data hereafter	
8. 建议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		
托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。 The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the		
actual use.		
注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without		13393 第 5 页,共 5 页
written approval of the laboratory.)	数据页(Data sheet) ID: 0	13393 第 5 贝,天 5 贝 Page of
 本次校准结果仅与被校物有关。(The results are only related to the items calibrated.) 第 3 页,共 5 页 		

Catalo	ogue of Air Flow	/ Meter (TSI T	A440))	Cali	bration (ate of A	ir Flow	Meter
SPECIFICATION	s					*					
THERMAL ANEMO MODELS TA410, TA						<u></u>			E實驗室有限 29-35 Sha Tsui Road		
						CALIBRATION		0106 Email:	info@callab.com.h ite: www.callab.cor		ACCREDITED Certifiate #3815.01
Velocity Range (TA410) Range (TA430, TA440) Accuracy (TA410) ¹⁶²	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 6,000 ft/min) ±5% of reading or ±0.025 m/s	Time Constant (T User selectable External Meter D		0)				ted			
	(±5 ft/min), whichever is greater ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	8.4 cm x 17.8 cm x	4.4 cm (3.3 in.	x 7.0 in. x 1.8 in	1.)	Equipment Identifical Equipment Descriptio	n Manufactu			erial No.	Assigned equipment M
		0.27 kg (0.6 lbs.)				Air Velocity Monitor	TSI	AIRF	LOW TA440 T	A4401706003	AAST-FLOW-03
Duct Size (TA430, TA44 Dimensions	10) 1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Meter Probe Dim Probe Length Probe Diameter of	101.6 Tip 7.0 m	ຣີ cm (40 in.) າm (0.28 in.)		Certificate Information Date of Receipt:	11 January 2				23.5°C, 58%RH, 1003hPa
Volumetric Flow Rate (TA430, TA440)	Probe Diameter of I	Base 13.0	mm (0.51 in.)		Date of Calibration: Due Date of Calibratio	13 January 2 on: N/A	023	Adjustm Appeara		N/A Good
Range	Actual range is a function of velocity, and duct size	Articulating Prob Articulating Sectio Length		is cm (7.8 in.)		Calibration Procedure			Remark:		N/A
Temperature		Diameter of	9.5 m	nm (0.38 in.)		Reference Equipmen					
Range (TA410, TA430) Range (TA440) Accuracy ³ Resolution	-18 to 93°C (0 to 200°F) -10 to 50°C (14 to 140°F) ±0.3°C (±0.5°F) 0.1°C (0.1°F)	Articulating Knuckle Power Requirem Four AA-size batte	ents	oter		Equipment Descriptio Hot Wire Anemomete	er	Model 9535	Serial N T95351		Expiration Date 11 August 2024
		i our Art size butte	nes of ne dau	pter	·	Result of Calibration					
Relative Humidity (TA4 Range	5 to 95% RH		TA410	TA430, TA430-A	TA440, TA440-A	Air flow rate – Error of Reference reading	Measured reading		Uncertainty	Technical	Technical Reference
Accuracy ⁴	±3% RH	Velocity range 0 to 20.00 m/s	÷.		1	(L/min)	(L/min)	Error (%)	(%FS)	Requirement	Doc.
Resolution	0.1% RH	(0 to 4000 ft/min) Velocity range			i -	0.5	0.51	2.0	3.6	± 5 % ± 5 %	JJG 956-2013 JJG 956-2013
Wet Bulb Temperature		0 to 30.00 m/s (0 to 6000 ft/min)		+	+	2.0	2.03	1.5	3.6	± 5 %	JJG 956-2013
Range Resolution	5 to 60°C (40 to 140°F) 0.1°C (0.1°F)	Temperature	+	+	(±1)	5.0	5.07	1.4	3.6	± 5 %	JJG 956-2013
		Flow		+	(*)						0
Dew Point (TA440 only Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb,			+						
Resolution	0.1°C (0.1°F)	dew point Probe	Straight	Straight or -A	Straight or -						
Instrument Temperatu	re Range	Variable time	and and the	articulated	articulated +						
Operating (Electronics)	5 to 45°C (40 to 113°F)	constant Manual									
Model TA410, TA430 Operating (Probe)	-18 to 93°C (0 to 200°F)	data logging Auto save		+							
Model TA440 Operating (Probe)	-10 to 60°C (14 to 140°F)	data logging			+						
Storage	-20 to 60°C (-4 to 140°F)	Statistics		+	+						
Data Storage Capabiliti	es (TA430, TA440)	Review data		+	+	Note1: The estimated expanded	uncertainties have been calco	ulated in "Evaluation	and expression of uncertain	ty in measurement" and g	give an internal estimated to have
Range	12,700+ samples and 100 test IDs	LogDat2 downloading		+	+	of confidence of 95%. A c Note2: The standard (s) and inst	overage factor of 2 is assume rument used in the calibratio	d unless explicitly stat	ed.		calibrated on a schedule to mainta
Logging Interval (TA43	0, TA440)	software Free Certificate			1	accuracy and good condit	tion.				n regarding the long term stability
1 second to 1 hour		of Calibration	*	+	() + ()	instrument.	alibration certificate relate on				
Specifications subject to change with	out notice.	¹ Temperature compensated ² The accuracy statement b	l over an air tempera	ature range of S to 65	5°C (40 to 150°F).						abbin
TSI and the TSI logo are registered tra the Airflow logo and LogTat2 are trac	idemarks and Airflow.	for the Model TA410, and 1	30 ft/min through 6	1000 ft/min (1),000 ft/min (1),000 ft/min (0.15 m/s	0.15 m/s through 20 s through 30 m/s) for	Calibrated By:	Checked	and Approve	d By: Cor	npany Chop:	校正
ow ration who are togents are trac	ana ana sa 130 meni barante.	Models TA430 and TA440 [®] Accuracy with instrument	case at 25°C (77°F).			0	0	1.7			(二有限公司)
	FLOW UMENTS	for change in instrument 1 ⁴ Accuracy with probe at 25 change in probe temperate	ammaratura			Wing Cheng	Lome Warren		f Cer	tificate Issue Dat	e: 13 January 2023
Airflow Instruments, TSI In Visit our website at www.air	flowinstruments.co.uk for more information					s sulta		*** End o	of Certificate ***		СТ-
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France Tel: +33 491 11 8											

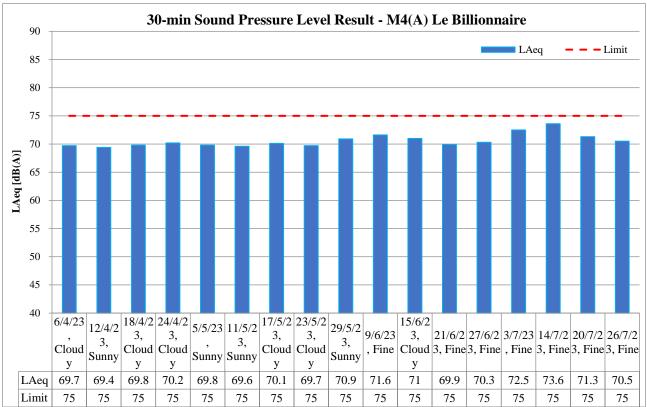
Appendix K – Noise monitoring results and graphical presentation

M4(A) – Le Billionnaire

_	Temp	wind				Weathe			Measured	Noise Lev	el at M4(A	A), dB(A)	-	
Date	(°C)	Speed m/s	r		[i1	ne	Baseline	L _{Aeq}	L _{A10}	L _{A90}	Limit			
03/07/2023	32.5	0.4	Fine	9:20	-	9:50	69.5	72.5	74.5	70.9	75			
14/07/2023	31.8	0.1	Fine	9:15	-	9:45	69.5	73.6	76.8	69.5	75			
20/07/2023	32.3	0.4	Fine	13:30	-	14:00	69.5	71.3	73.1	68.7	75			
26/07/2023	35.4	0.1	Fine	13:30	-	14:00	69.5	70.5	72.7	67.1	75			
				Maximum				73.6						
				Minimum			70.5							
				Average				72.1						

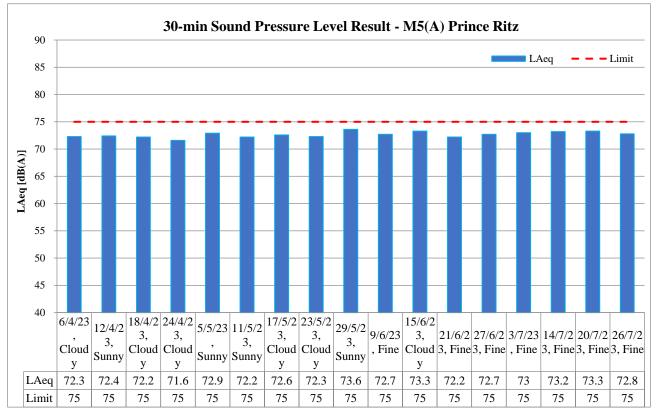
M5(A) – Prince Ritz

	Wind								Weathe			Measured	Noise Lev	el at M5(A	A), $dB(A)$		
Date	Temp (°C)	Speed m/s	r	Time		Baseline	L _{Aeq}	L _{A10}	L _{A90}	Limit							
03/07/2023	32.5	0.9	Fine	10:15	-	10:45	72.5	73.0	74.9	71.2	75						
14/07/2023	31.8	1.3	Fine	10:10	-	10:40	72.5	73.2	74.7	71.3	75						
20/07/2023	32.3	0.9	Fine	14:20	-	14:50	72.5	73.3	74.0	71.2	75						
26/07/2023	35.4	1.3	Fine	14:30	-	15:00	72.5	72.8	74.1	70.5	75						
				Maximum				73.3									
				Minimum			72.8										
				Average				73.1									



LAeq, 30-min graphical results of M4(A) – Le Billionnaire

LAeq, 30-min graphical results of M5(A) – Prince Ritz



		Reportin	g Period	
Major Construction Activities	April	May	June	July
	2023	2023	2023	2023
Construction works for DCS	~	\checkmark	\checkmark	\checkmark
Construction works for SB-01 tunnel			\checkmark	\checkmark
Construction of Underpinning of S14				\checkmark
Construction of Retaining Wall Type 1 for S14			√	✓
ELS and excavation works for retrieving shaft at Sa Po Road	√			
ELS modification and Backfilling works for Retrieving Shaft at Sa Po Road		✓	√	✓
Pre-bored socket H-pile construction works for Slip Road S14	√	✓	√	
GI and Grouting works for Slip Road S14				✓
Erection of falseworks and working platform for decking of Elevated Walkway LW-02	✓	~	✓	~
RC construction for decking of LW-02	\checkmark	√		
RC construction for decking of Elevated Walkway LW-02			\checkmark	✓
RC construction for Subway KS10 Lift and Staircase	\checkmark	✓	√	✓
RC construction works for lift and staircase of LW-02	\checkmark	✓	√	✓
Renovation works for existing subways KS9, KS32 and KS10	\checkmark	✓	√	✓
Road and drain construction works for Road L16	\checkmark	✓	√	✓
Road and drain construction works for Olympic Avenue	\checkmark	✓	√	✓
Assembly of RTBM at launching shaft for SB-01	✓	✓	✓	

	Reporting Period						
Factors might affect the monitoring results	April 2023	May 2023	June 2023	July 2023			
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~			

Appendix L – Event and Action Plan for noise

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

Event	Action								
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 M – 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.	 Check report. Recommend remedial design if necessary. 	 Undertake remedial design if necessary. 	
Non-conformity on one occasion	 Identify Source. Inform IEC and Supervisor /ER. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. 	Contractor on possible remedial measures.	 Notify Contractor. Ensure remedial measures are properly implemented. 	 Amend working methods. Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	 Identify Source. Inform IEC and Supervisor /ER. Increase monitoring frequency. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring. 	method. 3. Discuss with ET and Contractor on possible remedial measures.	 Notify Contractor. Ensure remedial measures are properly implemented. 	 Amend working methods. Rectify damage and undertake any necessary replacement.

Appendix N – Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly				onthly								
Month	Total Quantity Generated A + B	Broken Concrete Generated A	General fill Generated B	Broken Concrete Reused in the Contract	General Fill Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
JAN	0.67	0.00	0.67	0.00	0.09	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.01
FEB	0.81	0.00	0.81	0.00	0.08	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.01
MAR	0.79	0.00	0.79	0.00	0.08	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.01
APR	1.18	0.00	1.18	0.00	0.09	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.01
MAY	1.01	0.00	1.01	0.00	0.09	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.01
JUNE	0.23	0.00	0.23	0.00	0.05	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.01
SUB- TOTAL	4.69	0.00	4.69	0.00	0.48	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.06
JULY	0.30	0.00	0.30	0.00	0.06	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.01
AUG													
SEPT													
OCT													
NOV													
DEC													
TOTAL	4.99	0.00	4.99	0.00	0.54	0.00	4.45	0.00	0.00	0.00	0.00	0.00	0.07

MONTHLY SUMMARY WASTE FLOW TABLE FOR ______ 2023 (YEAR)

Appendix O – Environmental Mitigation Implementation Schedule (EMIS)

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

EIA Ref	Recommended Mitigation Measures	Implementation			n
	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.	V			
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	V			
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	V			
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.		\checkmark		
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		\checkmark		
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	V			
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.				
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	N			
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.				
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	N			
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			
S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works		\checkmark		
Part C C	onstruction Noise Impact	Not Observed	Yes	No	Remark
S7.8	Use of quiet PME, movable barriers for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump		\checkmark		
S7.9	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible.		V		
	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.	V			
	Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	V			
Part D W	/aste / Chemical Management	Not Observed	Yes	No	Remark
S5.2	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites		V		
	Training of site personnel in site cleanliness, proper waste management and chemical waste handling procedures		\checkmark		
	Provision of sufficient waste disposal points and regular collection for waste. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers	Ŋ			
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment	$\mathbf{\Sigma}$			
S9.5	1)Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 2)Training of site personnel in proper waste management and chemical waste handling		V		
	 procedures 3)Provision of sufficient waste disposal points and regular collection for disposal 4)Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 5)A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 				

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

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

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

Reporting Month: July 2023

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

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

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