Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

December 2022

(Version 1.0)

Approved By	/2 m
	(Environmental Team Leader:
	Mr. KS Lee)

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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13 January 2023

By Post and Email

Ref.: CEDKTDT2EM00_0_0421L.23

Hyder-Meinhardt Joint Venture 17/F, Two Harbour Square 180 Wai Yip Street, Kwun Tong Kowloon, Hong Kong

Attention: Mr. Edwin Ching

Dear Mr. Ching,

Re: Agreement No. EDO 01/2019 Independent Environmental Checker for Contract No. ED/2018/04 – Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Monthly EM&A Report (December 2022) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for December 2022 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 12 January 2023. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection as per Condition 3.4 of EP-451/2013.

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

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

Y H Hui Independent Environmental Checker

c.c.

CEDD BTP Cinotech Attn.: Mr. Tommy Wong Attn.: Mr. Ivan Chau Attn.: Mr. K. S. Lee Fax: 2739 0076 By email Fax: 3107 1388

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EXECUTIVE SUMMARY

Introduction

1. This is the 34th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of December 2022.

Summary of Main Works Undertaken and Key Measures Implemented

2. The main works of each works contracts undertaken during the reporting period are as follows:

Table I Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	 Depressed Road – Portal Structure, Capping Beam Depressed Road – DPR/SUS connection West Ventilation Building – Basement 2 Construction Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery Installation WB Service Gallery Installation CP Tympanum construction CP TBM Excavation Sub-sea Corbel Construction SUS Remaining Internal Wall SUS OHVB In-situ Slab Tunnel Segment delivery
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	N/A

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

3. Implementation of the key mitigation measures during the reporting period are as follows:

Table II Summary	ary of Key Mitigation Measures Implemented in the Reporting Month		
Contract No. and Project Title	Key Mitigation Measures Implemented		
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	 Air Quality Water spraying regularly on construction site area to avoid dust generation. Excavated dusty materials were covered by impervious sheets. Noise Air compressor was operated with door closed and have valid noise labels. Use of Quality Powered Mechanical Equipment (QPME) 		
	 Erecting noise barriers on site to minimize noise impact generated from breaking activities. <i>Water Quality</i> WetSep was constructed to treat the surface runoff prior to discharge. 		
	Landscape and Visual		
	• Tree protection zone were fenced off to protect the existing tree.		
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated	N/A		
Works ⁽¹⁾			

Table II Summary of Key Mitigation Measures Implemented in the Reporting Month

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (December 2022) and the investigation results and/or follow-up actions:

Air Quality Monitoring

- One (1) Action Level exceedance for 24-hour TSP was recorded.
- No Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring

- No Limit Level exceedance for day time construction noise was recorded in this reporting month.
- No Action Level exceedance was recorded in this reporting month.

Landscape and Visual Monitoring and Audit

• No non-compliance of the landscape and visual impact was recorded in the reporting month. The implementation of landscape and visual and mitigation measures was checked by a Registered Landscape Architect (RLA) during the environmental site inspections.

Complaint Handling, Prosecution and Public Engagement

Table III Summary of Complaint/Summons/Prosecution in the Reporting Month

Event	Event Details		Follow-up/	Status/
Event	Number	Brief Description	Remedial Actions	Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

6. The key works or activities will be anticipated in the next reporting period are as follows:

Contract No. and	ible for site Activities in the next Reporting	Key Environmental
Project Title	Site Activities (January 2023)	Issues
ED/2018/04 - Trunk	1) Depressed Road – Portal Structure,	
Road T2 and	Capping Beam	
Infrastructure Works	2) Depressed Road – DPR/SUS connection	
for Developments at	3) West Ventilation Building – Basement 2	
South Apron	Construction	
	4) Launching Shaft / Cut & Cover RC	
	Structure	
	5) Westbound TBM Tunnelling	
	6) Eastbound TBM Tunnelling	(A) / (B) / (C) / (D)
	7) EB Service Gallery installation	(A) / (D) / (C) / (D)
	8) WB Service Gallery installation	
	9) CP Tympanum construction	
	10) CP TBM Excavation	
	11) SUS Remaining Internal Wall	
	12) SUS OHVD in-situ Slab	
	13) SUS Fire Board Crown	
	14) SUS Fire Board Road Level	
	15) Sub-sea Corbel Construction	

Table IV Sum	mary Table for Sit	e Activities in the n	ext Reporting Period
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	16) Sub-sea Crown Fire Board 17) West Ventilation Building- Platform	
	removal	
	18) Tunnel Segment delivery	
ED/2020/03 - Trunk		
Road T2 - Traffic		
Control And	N/A	
Surveillance System		
(TCSS) and		
Associated Works ⁽¹⁾		

Notes:

(1): No major construction work was undertaken during reporting month.

- N/A: Not applicable
- (A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works
- (C) Runoff from exposed slope or site area; and
- (D) Wastewater and runoff discharge from site.

Review of Status and Location of Monitoring Stations

7. According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in August 2022 and the review of status and location of monitoring stations are summarized as follow:

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location	
KER1	of KER1, KTD 1, KTD2d, CKL1 and CKL2. To conclude, the environmental	
KTD 1	monitoring conducted at KER1, KTD 1, KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results	N/A
CKL 1	reflect how the sensitive receiver(s) is/are impacted by the construction	
CKL 2	activities of the Project.	

 Table V
 Summary Table for Review of Status and Location of Monitoring Stations

N/A: Not Applicable

1 INTRODUCTION

Background

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.4km long with about 3.1km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. Moreover, the Contract No. ED/2020/03 is the other contract under Truck Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme at Kai Tak area under the Contract ED/2018/04 and ED/2020/03 are governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the Trunk Road T2 Project are shown in Figure 1 and the works to be executed under each Contract and corresponding EP are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>ED/2018/04</u>
	• Construction of highway and sub-sea tunnel connecting between
	Central Kowloon Route and Cha Kwo Ling Tunnel
	Western & Eastern Ventilation Buildings
	<u>ED/2020/03</u>
	• Design and construction of TCSS for Trunk Road T2

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 – Kai Tak Development – Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: () in EP2/K19/A/21 pt. 6 and () in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: () in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under

Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative based on several conditions, 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 and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 3 27th 2021 (EPD reference: () in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

Monitoring Works in Cha Kwo Ling under EP-451/2013

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 Cinotech Consultants Ltd. Was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project") and "Trunk Road T2 –Traffic Control & Surveillance System (TCSS) and Associated Works".

Purpose of the Report

1.7 This is the 34th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in December 2022

Project Organizations

- 1.8 Different Parties with different levels of involvement in the Project organization include:
 - Permit Holder Civil Engineering and Development Department (CEDD)
 - Supervisor Representative Hyder-Meinhardt Joint Venture (HMJV)
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) Ramboll Hong Kong Limited (Ramboll)
 - Contractor Bouygues Travaux Publics (BTP) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)

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

ts

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Circetash	Environmentel Teerr	Mr. KS Lee (ETL)	2151 2091
Cinotech Environmental Team		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor (ED/2018/04)	Mr. Marcus Cheung	6628 2685
GTECH	Contractor (ED/2020/03)	Mr. Terry Leung	2123 0848

1.10 The Organizational Structure for Environmental Management is shown in Figure 1.2.

Construction Activities undertaken during the Reporting Month

1.11 The major site activities undertaken in the reporting month included:

 Table 1.2
 Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	 Depressed Road – Portal Structure, Capping Beam Depressed Road – DPR/SUS connection West Ventilation Building – Basement 2 Construction Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery Installation WB Service Gallery Installation CP Tympanum construction CP TBM Excavation Sub-sea Corbel Construction SUS Remaining Internal Wall SUS OHVB In-situ Slab Tunnel Segment delivery
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance	N/A

System (TCSS) a Associated Works ⁽¹⁾	and
Associated works	

Notes:

(1): No major construction work was undertaken during reporting month. N/A: Not applicable

- 1.12 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. 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 mitigation measures, as recommended in the Project EIA Report.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 1.14 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in December 2022.

Status of Environmental Licensing and Permitting

1.15 All permits/licenses obtained for the Project are summarized in **Table 1.3**.

Contract	Contract Permit / License No.		Valid Period		
No.	Permit / License No.	From	То	Status	
Environment	al Permit (EP)				
N/A	EP-451/2013	19 Sep 2013	N/A	Valid	
Notification p	oursuant to Air Pollution (Construction	on Dust) Regula	tion		
ED/2018/04	Ref. No.: 451120	20 Nov 2019	N/A	Valid	
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid	
Billing Accou	Int for Construction Waste Disposal				
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid	
ED/2020/03	A/C No.: 7043158	31 Jan 2022	N/A	Valid	
Billing Accou	Billing Account for Vessel Disposal				
ED/2018/04	A/C No.:7037747 (Application No.: CEDD01170)	26 Oct 2022	25 Jan 2023	Valid	
Construction Noise Permit					
ED/2018/04	CNP No. (For Launching Shaft and Barging Point): GW- RE0817-22	24 Aug 2022	23 Feb 2023	Valid	

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			Enter Report	Determber 2022
Contract	Permit / License No.	Valid Period		Status
No.	Termit / License 110.	From	То	Status
	CNP No. (For Depressed Road): GW-RE0936-22	26 Sep 2022	25 Mar 2023	Valid
	CNP No. (For Launching Shaft and Barging Point): GW- RE1079-22	24 Oct 2022	30 Mar 2023	Valid
Wastewater I	Discharge License			
	WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid
ED/2018/04	WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid
	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
Chemical Wa	ste Producer License			
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dum	Marine Dumping Permit			
ED/2018/04	EP/MD/23-056	03 Nov 2022	2 Jan 2023	Valid
ED/2018/04	EP/MD/23-069	26 Nov 2022	25 Jan 2023	Valid
ED/2018/04	EP/MD/23-057	31 Dec 2022	28 Feb 2023	Valid

2. AIR QUALITY

Monitoring Requirement

2.1 According to the EM&A Manual (AEIAR-174/2013), 24-hour Total Suspended Particulates (TSP) monitoring was 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. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

- 2.2 Five designated monitoring stations were selected for air quality monitoring programme. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, 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 and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location		
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)		
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area		
KER1	Future Residential Development at Kerry Godown		
CKL1	Flat 121 Cha Kwo Ling Village		
CKL2	Flat 103 Cha Kwo Ling Village		

Table 2.1 Air Quality Monitoring Locations

Monitoring Parameters and Frequency

2.4 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix B**.

Monitoring Stations	Parameter	Period	Frequency
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days

 Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Equipment

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Equipment	Model	Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723,	5
Calibrator	1956, 10595, 1316, 5280) TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial no. MC01010A44)	1

 Table 2.3
 Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata 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

- 2.9 The following maintenance/calibration is required for the 1-hour dust meter:
 - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was 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 2.2 of the Annex II Specification.
- 2.11 The positioning of the HVS samplers are as follows:
 - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
 - No two samplers shall be placed less than 2 meter apart;
 - The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
 - A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
 - A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
 - No furnace or incinerator flue is nearby;
 - Airflow around the sampler is unrestricted;
 - The sampler is more than 20 metres from the dripline;
 - Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
 - Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
 - A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- 2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
 - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
 - 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.
 - 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.
 - 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.
 - The shelter lid was closed and secured with the aluminum strip.
 - 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).
 - 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.
 - 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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 The following maintenance/calibration is 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 throughout all stages of the air quality monitoring.

Results and Observations

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 One (1) Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No exceedance of 24-hour TSP were considered as **project related** and one (1) exceedance of 24-hour TSP were considered as **non-project related**. Details of the exceedance are presented in **Appendix M**.
- 2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.
- 2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	 Project related construction activities (i.e., Loading and unloading of C&D wastes, drilling, crushing of material); Vehicle movement in the site;
KER 1 – Future Residential Development at Kerry Godown	 Construction activities at the nearby construction sites of New Acute Hospital; and, Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass.
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	 Project related construction activities (i.e., Loading and unloading of C&D material, crushing of material); Vehicle movement in the site; and, Non-project related construction activities
CKL1 - Flat 121 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road
CKL2 - Flat 103 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road

Table 2.4 Major Dust Source during Air Quality Monitoring

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in Table 4.14 of EIA Report, AEIAR-174/2013 (as approved in 2013) as summarised in **Table 2.6** for 24-hour TSP.

 Table 2.6
 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 174/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (December 2022), µg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	56.9
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	203.9
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	145.7
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	119.3
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	165.3

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-174/2013)

2.20 In the reporting month the 24-hour TSP concentration at KTD1 & KER1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). One (1) Action and no Limit level exceedance for 24-hour TSP was recorded in the reporting period.

3 NOISE

Monitoring Requirements

3.1 According to the EM&A Manual (AEIAR-174/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. 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 Noise monitoring was conducted at five designated monitoring stations, namely KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.
- 3.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, 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 and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

3.4 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix B**.

1 able 3.2	able 3.2 Frequency and Parameters of Noise Monitoring				
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2d				L ₁₀ (30 min.) dB(A)	Free Field Measurement
KER1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Free Field Measurement
CKL1	weekuays			$L_{eq}(30 \text{ min.})$	Free Field Measurement
CKL2				dB(A)	Free Field Measurement

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Equipment

3.5 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 580156,580287)	2
	SVAN 957 (Serial no. 23852,21455)	2
Calibrator	ST-120 (Serial no. 181001637)	1

Monitoring Methodology and QA/QC Procedure

- 3.6 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - 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 re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be 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. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

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

Results and Observations

- 3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action/ Limit Level exceedance was recorded for day time construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in Appendix H.
- 3.12 According to field observations observed in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations	Major Noise Source
KTD 1	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; Road traffic along Shing Cheong Road; and, Non-project related construction activities at the nearby construction site of New Acute Hospital.
KTD 2d	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; and, Non-project related construction activities.
KER 1	 Road traffic along Kai Hing Road. Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)
CKL1	Road traffic along Cha Kwo Ling Road.
CKL2	Road traffic along Cha Kwo Ling Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

3.13 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
KTD1	78	
KTD2d	64	
KER1	65	75
CKL1	72.4	
CKL2	71.4	

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) as summarised in **Table 3.6**.

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (December 2022), Leq (30min) dB(A)
KTD 1 - Centre of		7.4	
Excellence in Paediatrics (Children's Hospital)	KTD1	74	76.7
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	74.0
KER 1 – Future Residential Development at Kerry Godown	KER1	75	72.8
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	74.1
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75.1

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Remarks:

(1): No Maximum Predicted Mitigated Construction Noise Levels was predicted in EIA Report (AEIAR-174/2013)

3.15 The results at KTD1, CKL1 and CKL2 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-174/2013 (as approved in 2013), this may be due to fluctuations of traffic flow along the Kwun Tong Bypass, the construction activities of New Acute Hospital development and the traffic flow along Cha Kwo Ling Road throughout the day. Besides, the result at KER1 were lower than the maximum predicted mitigated construction

noise level in the EIA Report. No Action/ Limit Level exceedance were recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

- 4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.
- 4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.
- 4.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

5 MARINE ECOLOGY

- 5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.
 - Avoid damage and disturbance to the remaining and surrounding natural habitat;
 - Ensure placement of equipment is within designated areas within the existing disturbed land;
 - Ensure construction activities are restricted to within the proposed works boundary;
 - Ensure spoil heaps are be covered at all times;
 - Ensure that disturbed areas are reinstated immediately after completion of the works; and
 - Ensure enhancement planting works undertaken.

6 FISHERIES

- 6.1 According to Section 6.3.1.2 of EM&A Manual (AEIAR-174/2013), no specific fisheries monitoring and audit programme is required during the construction phase.
- 6.2 The implementation of the water quality mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 6 of the EIA Report (AEIAR-174/2013)) will be audited as part of the EM&A procedures during the construction period and the details are presented in Section 4.2 of this Report. The summaries of site audits are attached in Appendix I.

7 LANDSCAPE AND VISUAL

7.1 According to the EM&A Manual (AEIAR-174/2013), a series of mitigation measures were recommended to ameliorate the landscape and visual impacts of the Project. The mitigation measures for construction stage are summarized in Table 7.1 below and provided in Appendix K:

ID No.	Landscape and Visual Mitigation Measure
CM1	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.
CM2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.
CM3	Not used.
CM4	Not used.
CM5	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.
CM6	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance
CM7	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.
CM8	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.

 Table 7.1
 Construction Phase Landscape and Visual Mitigation Measures

- 7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.
- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by

RLA in the reporting month.

- 7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:
 - The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
 - the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
 - all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
 - the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
 - preparation, lifting transport and re-planting operations for any transplanted trees;
 - all landscaping works are carried out in accordance with the specifications;
 - the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plans, together with the replanting of any transplanted trees are carried out properly and within the right season; and
 - all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

Table 7.2Construction Phase Audit Checklist for Landscape and Visual Mitigation
Measures

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface erosion, etc.

Area of Works	Items to be Monitored
Protection of all trees and existing soft landscape areas to be retained	Identification and demarcation of trees / vegetation to be retained, erection of physical protection (e.g. fencing), monitoring against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Clearance of existing vegetation	Identification and demarcation of trees / vegetation to be cleared, checking of extent of works to minimise damage, monitoring of adjacent areas against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Pruning of trees	Identification and demarcation of trees / vegetation to be pruned, monitoring of extent of pruning to minimise damage, timing of operations, implementation of all stages of preparatory and pruning works, and maintenance of pruned vegetation, etc.
Plant supply	Monitoring of operations relating to the supply of specialist plant material (including the collecting, germination and growth of plants from seed) to ensure that plants will be available in time to be used within the construction works.
Soiling, planting, etc.	Monitoring of implementation and maintenance of soiling and planting works and against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Site fencing and hoarding	Implementation and maintenance, to ensure compliance with agreed designs and check that it matches the surrounding environment and does not cause visual intrusion.
Architectural treatment of engineering works.	Implementation and maintenance of mitigation measures, to ensure compliance with agreed designs as applicable.
Establishment Works	Monitoring of implementation of maintenance operations during Establishment Period.

- 7.6 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.
- 7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

8 CULTURAL HERITAGE

- 8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.
- 8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

9 WASTE MANAGEMENT

- 9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.
- 9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.
- 9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

10 ENVIRONMENTAL AUDIT

Site Audits

- 10.1 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 I**.
- 10.2 Site audits for the each contract were conducted as follows.
 - ED/2018/04 Site audit were conducted on 01, 08, 15, 22 and 29 December 2022 in the reporting month. Site inspection of the IEC was conducted on 15 December 2022. No non-compliance was observed during the site audit.
 - ED/2020/03 Site audit was conducted on 16 December 2022 in the reporting month.

Implementation Status of Environmental Mitigation Measures

- 10.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
	1 Dec 2022	Near the footbridge area, the stockpile of more than 20 bags of cement are not covered.	The stockpile of 20 bags of cement have been removed.
Air Quality	1 Dec 2022	Missing the NRMM label was found in the generator near the receiving pit.	The contractor has displayed the NRMM label at the prominent position.
8 Dec 2022	Exposed stockpiles of dusty materials should be covered with impervious materials.	The exposed stockpiles of dusty materials has been removed.	
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	1 Dec 2022	Water ponding was found near the Disc cutter workshop on the access road.	The contractor has removed the water ponding.

Table 10.1	Observations and	Recommendations of Site	e Audit
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Parameters	Date	Observations and Recommendations	Follow-up
	15 Dec 2022	Stagnant water was observed at the Launching Shaft Area.	The contractor has placed the water pump to remove the stagnant water.
	15 Dec 2022	Muddy Water was observed at the TBM Tunnel (Eastbound).	The contractor has removed the muddy water.
Ecology	N/A There was no observation in the reporting period.		N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	8 Dec 2022	Construction wastes are accumulated at skip ISIG in the TBM tunnels (Eastbound).	The contractor has cleared the construction waste in the skip.
	29 Dec 2022	No drip tray is provided for chemical containers.	To be reported in the next reporting month.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

• One (1) Action and no Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

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

Landscape and Visual

• No landscape and visual non-conformity was recorded.

Status of Required Submission under Environmental Permit

10.6 According the Section 11.3.2.1 (c) of the EM&A Manual (AEIAR-174/2013), status of required submission under EP-451/2013 during the reporting period are summarized in **Table 10.2**.

EP Condition	Submission	Submission Date	
EP-451/2013			
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020	
Condition 2.4	Design Drawing of the Project	20 January 2020	
Condition 2.5	Landscape Mitigation Plan(s)	7 May 2020	
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015	
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016	
Condition 3.3	Updated Baseline Monitoring Report	03 November 2020	
Condition 3.4	Monthly EM&A Report (November 2022)	14 December 2022	

 Table 10.2
 Status of Required Submission under Environmental Permit

11 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

- 11.2 The summary of exceedance record in the reporting month is shown in Appendix M.
- 11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in Appendix N.

12.1 Major site activities undertaken for the coming months and the key environmental issues are summarized as follows:

Table	2 12.1	•	Table for Site Activities and the Key Envi rting Period	iron	nme	ental Is	sues in	the
0		 -	**		-			

Contract No. and Project Title	Site Activities (January 2023)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	 Depressed Road – Portal Structure, Capping Beam Depressed Road – DPR/SUS connection West Ventilation Building – Basement 2 Construction Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery installation WB Service Gallery installation CP Tympanum construction CP TBM Excavation SUS Remaining Internal Wall SUS Fire Board Crown SUS Fire Board Road Level Sub-sea Corbel Construction 	 Wheel washing bay at site exits; Temporary noise barriers for PMEs; Sedimentation tank for settling muddy water; and Make sure open stockpiles are covered during rainstorm.

Contract No. and Project Title	Site Activities (January 2023)	Key Environmental Issues
	17) West Ventilation Building- Platform removal	
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works ⁽¹⁾	18) Tunnel Segment delivery N/A	

Notes:

(1): No major construction work was undertaken during reporting month. N/A: Not applicable

Monitoring Schedule

12.2 The tentative environmental monitoring schedule for the next three months are shown in **Appendix B**.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 34th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

13.2 One (1) Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 13.3 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 13.4 No Action Level exceedance was recorded in the reporting month.

Site Audit

- 13.5 5 (Five) ET joint weekly environmental site inspections were conducted for the Contact No. ED/2018/04 in the reporting month.
- 13.6 1 (One) ET joint environmental site inspections were conducted for the Contact No. ED/2020/03 in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

13.7 No environmental complaint was received in the reporting month. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

13.8 According to the environmental audit performed in the reporting month, the following recommendations was made:

ED/2018/04

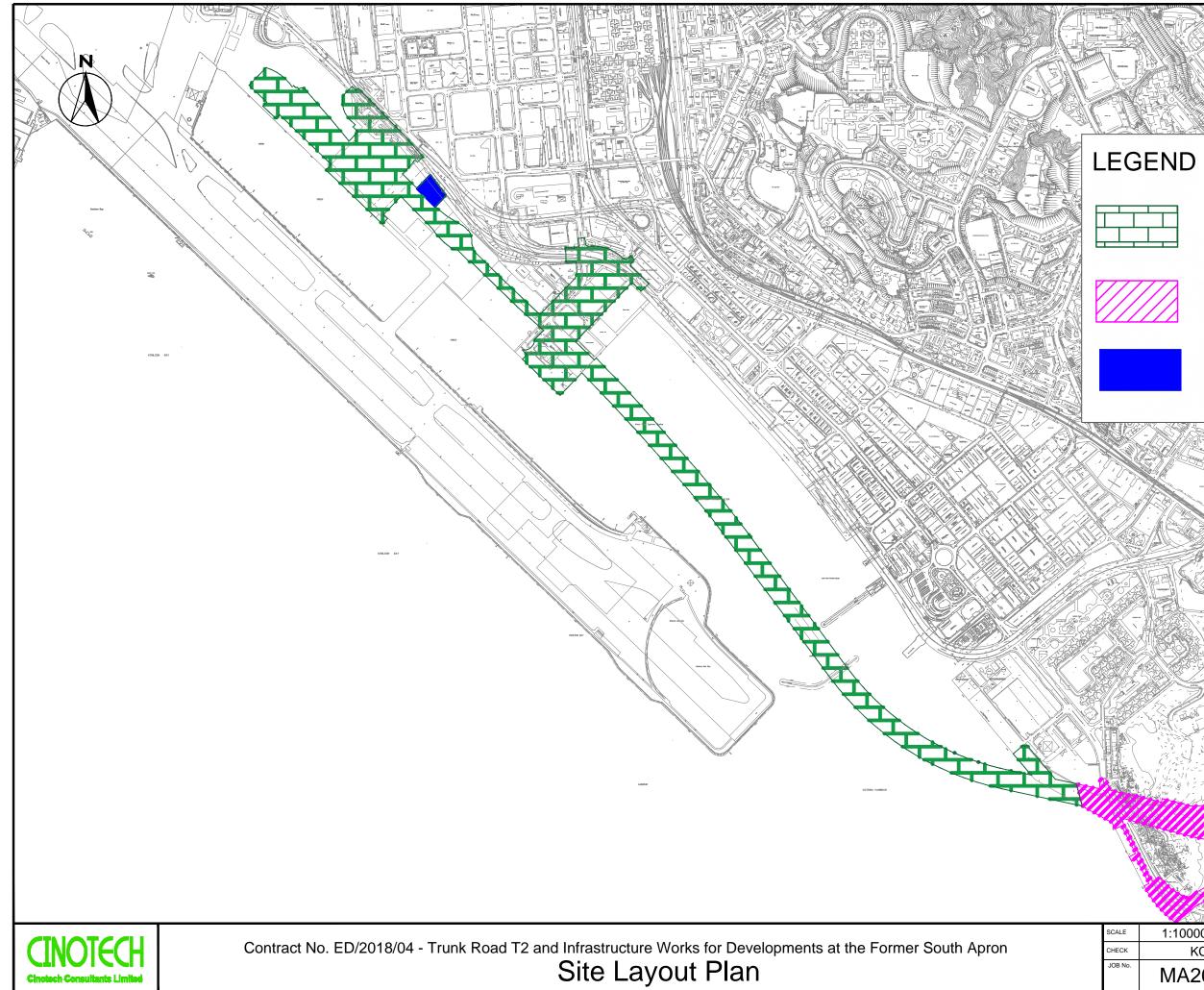
Air Quality

- NRMM label shall be displayed at a conspicuous position of the regulated machines on site.
- The stockpiles of dusty materials should covered with the impervious materials. *Water Quality*
- The drainage system should be well maintenance and avoid water ponding. Treat and dispose the muddy water properly.

Waste / Chemical Management

- The C&D waste should be segregated and stored in the separate containers or skip, the waste in the skips should be cleared regularly, the site and surrounding should be kept tidy and litter free.
- The drip tray should be provided for the chemical container to avoid the chemical leakage.

FIGURES



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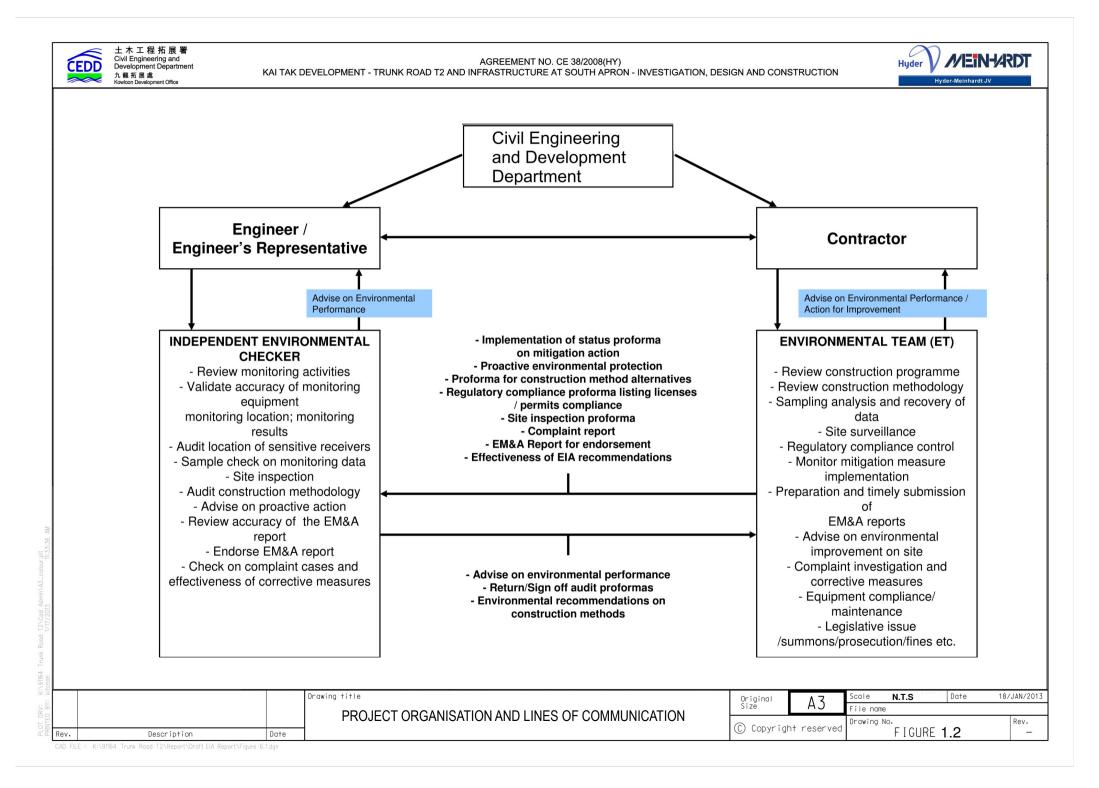
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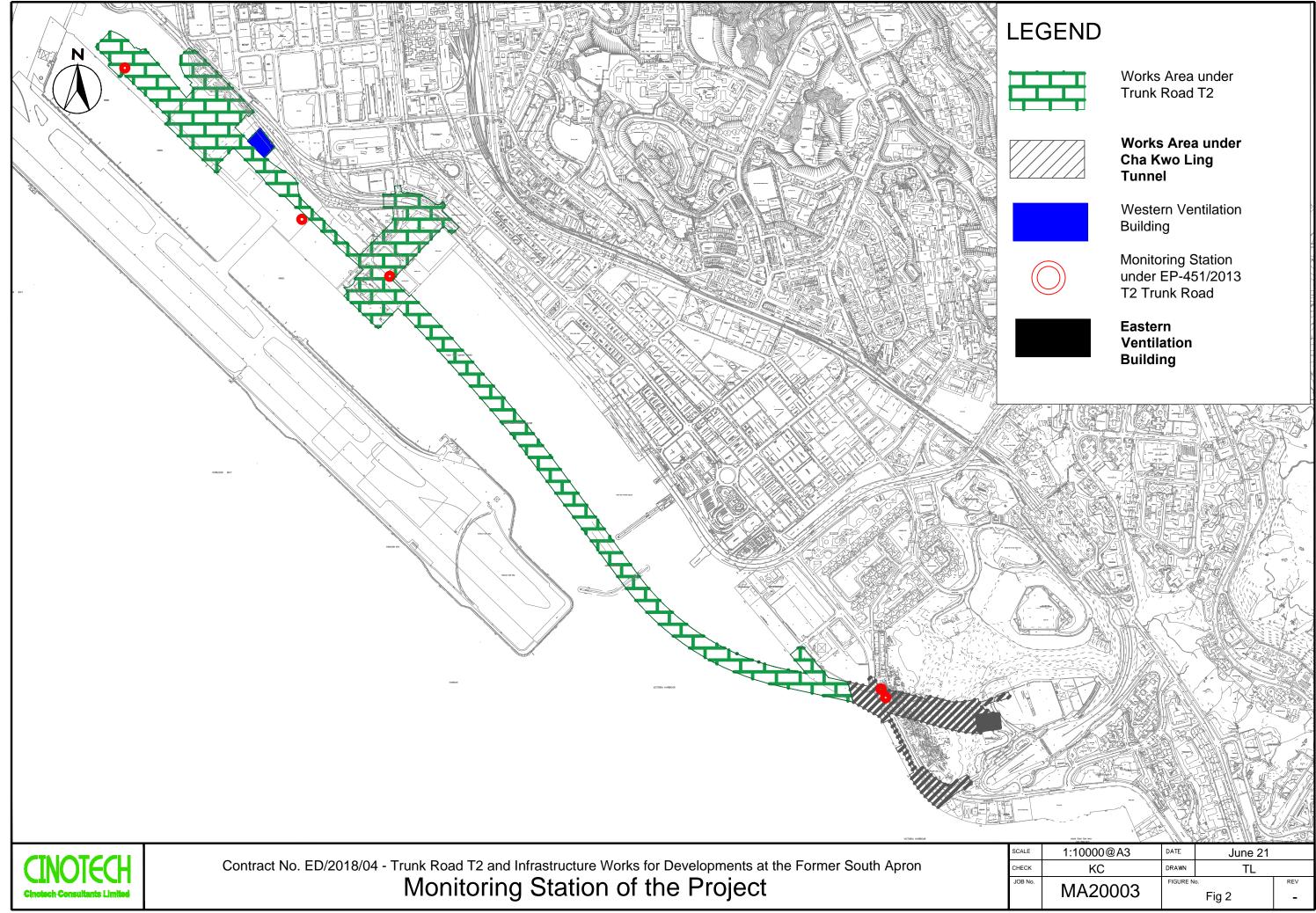
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

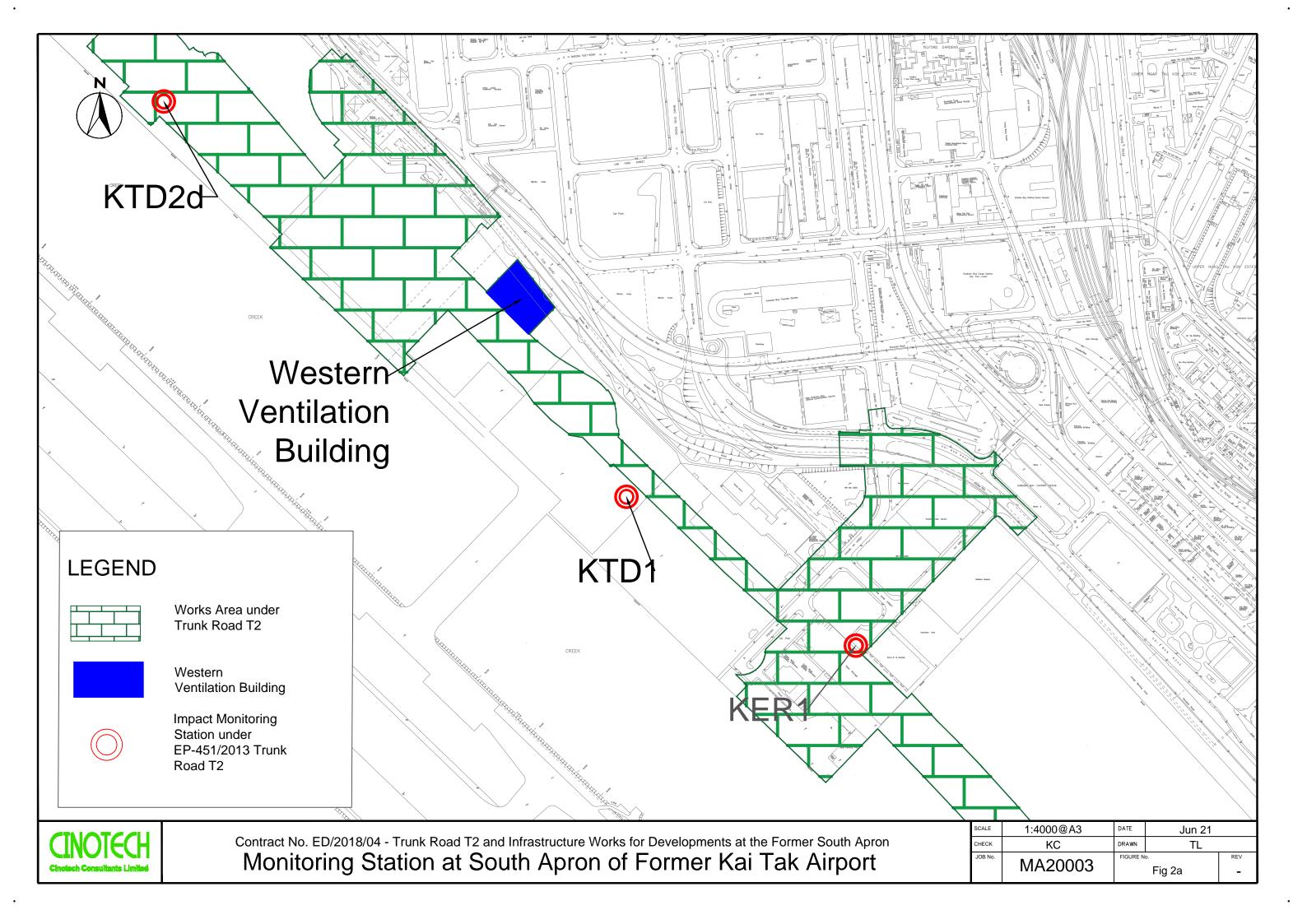
Ventilation Building

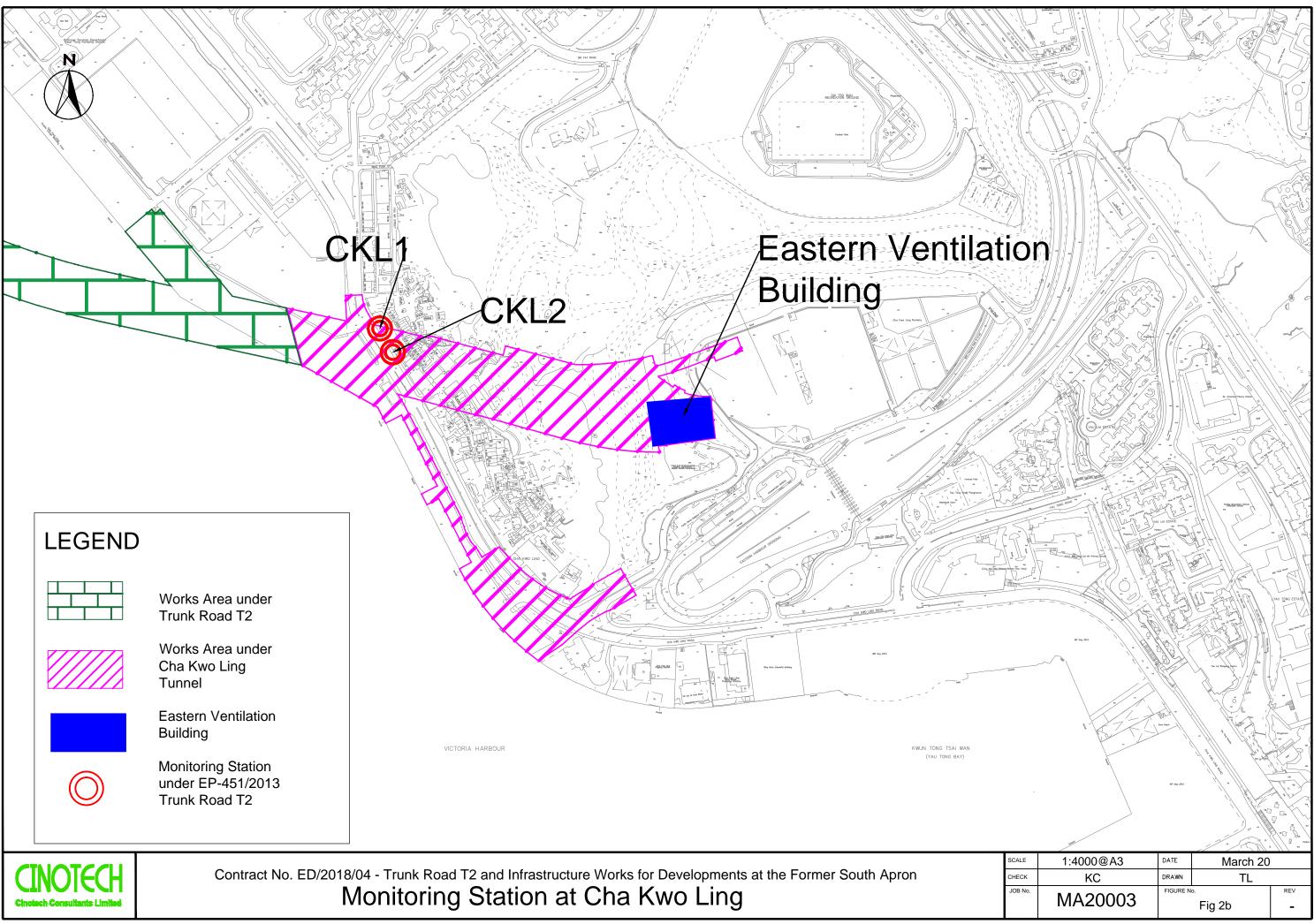
Ante		1192 - 53 1192 - 53		
V)			SUM: "11' L)'.´````
		/6 2		ť ~
	1:10000@A3		March 20	
СК		DATE DRAWN	TL	
LE CK 3 No.	1:10000@A3	DATE	TL	REV











APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, µg/m ³
KTD1	285	
KTD2d	279	
KER1	295	500
CKL1	323	
CKL2	327	

 Table A-1
 Action and Limit Levels for 1-hour TSP (in case of complaints)

Table A-2Action and Limit Levels for 24-hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
KTD1	177	
KTD2d	157	
KER1	172	260
CKL1	191	
CKL2	183	

Table A-3 Action and Limit Levels for Noise during Construction Period

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

Note:

(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.

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Impact Air and Noise Monitoring Schedule (December 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec	3-Dec
				Nutra		
				Noise		
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
			Nutri			
		24-hr TSP	Noise			
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
	24.1 550	N. 1				
	24-hr TSP	Noise				24-hr TSP
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
	Noise			24-hr TSP		
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec
			24-hr TSP	Noise		
			24-hr TSP	Noise		

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (January 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
		24-hr TSP	Noise			
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jar
	24-hr TSP	Noise				24-hr TSP
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	Noise				24-hr TSP	
22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jar
				24-hr TSP	Noise	
29-Jan	30-Jan	31-Jan				

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (Febuary 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
			24-hr TSP	Noise		
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
		24-hr TSP	Noise			
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
	24-hr TSP	Noise			24-hr TSP	
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	Noise			24-hr TSP		
26-Feb	27-Feb	28-Feb				

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (March 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mar
			24-hr TSP	Noise		
5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
		24-hr TSP	Noise			
12-Mar	13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
	24-hr TSP	Noise			24-hr TSP	
19-Mar	20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
	Noise			24-hr TSP		
26-Mar	27-Mar	28-Mar	29-Mar	30-Mar	31-Mar	
			24-hr TSP	Noise		

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



File No. MA20003/18/017

Project No.	CKL 1 - Flat 1	21 Cha Kwo Ling	g Village				
Date:	5-N	Jov-22	Next Due Date:	5-Jan-23	Operator:	SK	
Equipment No.: A-01-18		Model No.:	TE 5170	Serial No.	0723		
			Ambient Condi	tion			
Temperatu	ıre, Ta (K)	294.5	Pressure, Pa (mmH	Hg)	764.3		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3864 Slope, mc 0.05922 Intercept, bc -0.02420						
Last Calibration Date:	31-Jan-22		mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	31-Jan-23	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

		Calibration of	f TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} $ Y- axis
1	12.5	3.57	60.63	9.5	3.11
2	9.8	3.16	53.73	7.6	2.78
3	8.1	2.87	48.89	5.3	2.32
4	5.8	2.43	41.43	3.4	1.86
5	3.1	1.78	30.40	1.9	1.39
Slope, mw =	ression of Y on X 0.0589 coefficient* =		Intercept, bw = _	-0.474	7
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.	Calculation		
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM			
		e "Y" value according to			
	-	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ w x Qstd + bw) ² x (760 / Pa) x (298/Ta)] ^{1/2} 4.15	
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u></u> у.	Date: 5-Nov-22
Checked by:	Henry l	Leung Signature:	lem	<u>γ</u> ανογ	Date: 5-Nov-22



File No. MA20003/55/017

Project No.	CKL 2 - Flat 10	03 Cha Kwo Lir	ng Village			
Date:	5-N	lov-22	Next Due Date:	5-Jan-23	Operator:	SK
Equipment No.: A-01-55		01-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Conditi	ion		
Temperature, Ta (K) 294.5			Pressure, Pa (mmH	Ig)	764.3	

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420		
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$		
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(\text{Pa/760} \right) x \left(298/\text{Ta} \right) \right]^{1/2} \text{-bc} \} / $	mc		

		Calibration of	TSP Sampler		
Calibration		Orfice		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.5	3.57	60.63	9.6	3.13
2	10.5	3.27	55.61	7.3	2.73
3	8.4	2.92	49.78	5.5	2.37
4	5.1	2.28	38.88	2.9	1.72
5	2.7	1.66	28.40	1.7	1.32
Slope , mw = Correlation	coefficient* =	0.9931), check and recalibrate.	-	-0.365	2
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y		98/Ta)] ^{1/2}	
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.11	
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	k \-le	火.	Date: 5-Nov-22
Checked by:	Henry I	Leung Signature:	-le-	g Xoz	Date: 5-Nov-22

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File No. MA20003/04/0015

Project No.	KER 1 - Future	e Residential Dev	velopment at Kerry Godow	vn		
Date:	10-1	Nov-22	Next Due Date:	10-Jan-23	Operator:	SK
Equipment No.:	A-(01-04	Model No.:	TE 5170	Serial No.	10595
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	297.8	Pressure, Pa (mmI	Hg)	762.6	

	Orifice Transfer Standard Information						
Serial No. 3864 Slope, mc 0.05922 Intercept, bc -0.02420							
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x \left(298/Ta\right) \right] ^{1/2} \text{-bc} \} / $	mc		

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ge (Pa/760) \ge (298/Ta)]^{1/2}$ Y-axis
1	13.8	3.72	63.27	10.3	3.22
2	11.1	3.34	56.78	7.7	2.78
3	9.0	3.01	51.17	6.2	2.50
4	6.0	2.45	41.86	3.8	1.95
5	3.8	1.95	33.39	2.4	1.55
Slope, mw =	ession of Y on X 0.0555 coefficient* =		Intercept, bw =	-0.334	9
*If Correlation C	Coefficient < 0.990), check and recalibrate.			
		Set Point C	alculation		
		urve, take Qstd = 43 CFM			
		w x Qstd + bw = [ΔW = $[\Delta W]$ v x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.19	
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	火	Date: 10-Nov-22
Checked by:	Henry I	Leung Signature	: \-len	, May	Date: 10-Nov-22



File No. MA20003/44/0015

Project No.	KTD1 - Centre	of Excellence ir	n Paediatrics (Children's H	iospital)		
Date:	10-1	Nov-22	Next Due Date:	10-Jan-23	Operator:	SK
Equipment No.:	A-0	01-44	Model No.:	TE-5170	Serial No.	1316
			Ambient Conditi	ion		
Temperatu	ure, Ta (K)	297.8	Pressure, Pa (mmH	-Ig)	762.6	

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05922 Intercept, bc -0.02420							
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x \left(298/Ta\right)]^{1/2} \ \text{-bc} \} \ /$	mc		

		Calibration of	TSP Sampler		
Colibration		Orfice			HVS
Point	Calibration Point ΔH (orifice), in. of water $[\Delta H x (Pa)]$ 113.72211.539.246.353.8.Linear Regression of Y on Xcorrelation coefficient* =Correlation coefficient* =Correlation Coefficient < 0.990, check and	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ge (Pa/760) \ge (298/Ta)]^{1/2}$ Y-axis
1	13.7	3.71	63.04	10.4	3.23
2	11.5	3.40	57.79	8.1	2.85
3	9.2	3.04	51.73	6.2	2.50
4	6.3	2.52	42.88	4.1	2.03
5	3.8	1.95	33.39	2.6	1.62
Slope , mw =	0.0540	0.0059	Intercept, bw	-0.243	36
		0.9958	_		
*If Correlation C	Coefficient < 0.990), check and recalibrate.			
		Set Point C	Calculation		
From the TSP Fi	eld Calibration Cu	urve, take $Qstd = 43$ CFM			
From the Regres	sion Equation, the	e "Y" value according to			
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W}]^2$			
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.31	
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature	:k	X-	Date: 10-Nov-22
Checked by:	Henry I	Leung Signature	: \-lem	, and	Date: 10-Nov-22



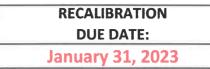
File No. MA20003/41/0015

Project No.	KTD 2D - Nex	t to the SOR Off	fice of Trunk Road T2 in H	Kai Tak Are	ea		
Date:	10-]	Nov-22	Next Due Date:	10-Ja	an-23	Operator:	SK
Equipment No.:	: A-01-41		Model No.:	o.: TE 5170		Serial No.	5280
			Ambient Condit	ion			
Temperatu	ıre, Ta (K)	297.8	Pressure, Pa (mml	Hg)		762.6	
		0	rifice Transfer Standard	l Informat	ion		

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420		
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	31-Jan-23		$Qstd = \{ [\Delta H x] \}$	$\left(Pa/760\right) x \left(298/Ta\right)]^{1/2} \ \text{-bc} \} \ /$	mc		

		Calibration of	TSP Sampler						
Calibration		Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis				
1	13.8	3.72	63.27	10.7	3.28				
2	11.0	3.32	56.53	9.0	3.01				
3	9.1	3.02	51.45	6.7	2.59				
4	6.6	2.57	43.88	4.8	2.20				
5	3.8	1.95	33.39	2.6	1.62				
Slope , mw = Correlation	y Linear Regression of Y on X Slope , mw =								
			alculation						
		urve, take Qstd = 43 CFM							
From the Regres	sion Equation, the	"Y" value according to							
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:									
Conducted by:	Wong Shi	ng Kwai Signature	<u> </u>	N. J Xoz	Date: 10-Nov-22				
Checked by:	Henry I	Leung Signature	- len	y Kong	Date: 10-Nov-22				





Certificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 31	, 2022	Rootsi	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch	Jim Tisch				Pa:	752.6	mm Hg
Calibration	Model #:	TE-5025A	Calik	prator S/N:	3864			0
								1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4490	3.2	2.00	
	2	3	4	1	1.0320	6.4	4.00	
	3	5	6	1	0.9160	7.9	5.00	
	5	7	8	1	0.8730	8.8	5.50 8.00	
		9				1.2.7	8.00]
	L			Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9995	0.6898	1.416		0.9957	0.6872	0.8839	
	0.9952	0.9643	2.003		0.9915	0.9608	1.2500	
	0.9932	1.0843	2.240		0.9895	1.0802	1.3976	
	0.9920	1.1363	2.349		0.9883	1.1321	1.4658	
	0.9868	1.3649	2.833		0.9831	1.3598	1.7678	
		m=	2.09281				1.31048	
	QSTD	b=	-0.024			b=	-0.01514	
		L=	0.999	93		ľ=	0.99993	I
				Calculatio				
)/Pstd)(Tstd/Ta	a)		ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time				Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m ((Pa Tstd Pstd Ta)-ь)	Qa=	1/m ((√∆H	l(Та/Ра))-b)	
	Standard	Conditions						
Tstd:						RECA	LIBRATION	
Pstd:		mm Hg			LIS EDA room	mmonde	nnual recalibratio	on ner 1000
		(ey ter reading (i	n H2O)				Regulations Part !	
		eter reading (i					, Reference Meth	
		perature (°K)					ended Particulati	
		ressure (mm					erided Particulation erided Particulation erided Particulation erided eride	
b: intercept					LTI.	e Aunosphe	sie, 3.2.17, page	50
m: slope								

isch Environmental, Inc.

45 South Miami Avenue

illage of Cleves, OH 45002

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



<u>Certificate of Calibration - Wind Monitoring Station</u>

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	<u>Davis7440</u>
Serial No.:	<u>MC01010A44</u>
Equipment No.:	<u>SA-03-04</u>
Date of Calibration	<u>19-Aug-2022</u>
Next Due Date	<u>19-Feb-2023</u>

1. Performance check of Wind Speed

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

2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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: ______ Approved by: _______ Henry Leung

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity (%) ²	Precipitation (mm) ³
1-Dec-22	16.5	72	Trace
2-Dec-22	16.5	69	0.0
3-Dec-22	19.2	73	0.0
4-Dec-22	21.2	74	0.0
5-Dec-22	17.9	66	0.0
6-Dec-22	17.1	68	0.0
7-Dec-22	18.7	68	Trace
8-Dec-22	19.9	72	0.0
9-Dec-22	19.6	67	0.0
10-Dec-22	18.4	61	0.0
11-Dec-22	16.7	60	0.0
12-Dec-22	16.2	61	Trace
13-Dec-22	14.5	71	3.2
14-Dec-22	12.5	91	8.7
15-Dec-22	14.6	91	3.8
16-Dec-22	16.9	90	0.9
17-Dec-22	13.2	60	9.1
18-Dec-22	11.8	30	Trace
19-Dec-22	13.7	50	0.0
20-Dec-22	16.8	71	0.0
21-Dec-22	17.5	46	Trace
22-Dec-22	17.2	35	0.0
23-Dec-22	17.1	40	0.0
24-Dec-22	16.9	49	0.0
25-Dec-22	16.2	59	0.0
26-Dec-22	16.3	65	0.0
27-Dec-22	16.9	70	0.0
28-Dec-22	17.7	68	0.0
29-Dec-22	16.8	60	Trace
30-Dec-22	15.0	62	0.0
31-Dec-22	15.5	65	0.0

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month:December 2022)

Remarks:

Source - Hong Kong Observatory

¹⁻³Retrieved from Manned Weather Station (Hong Kong Observatory) (22°18'07" N, 114°10'27" E)

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
1 Dec 2022	12:00 AM	NW	1.8
1 Dec 2022	1:00 AM	NW	0.9
1 Dec 2022	2:00 AM	NW	0.9
1 Dec 2022	3:00 AM	NW	0.4
1 Dec 2022	4:00 AM	NW	1.3
1 Dec 2022	5:00 AM	NW	0.4
1 Dec 2022	6:00 AM	WNW	0.4
1 Dec 2022	7:00 AM	W	0.4
1 Dec 2022	8:00 AM	W	1.3
1 Dec 2022	9:00 AM	W	0.9
1 Dec 2022	10:00 AM	WNW	1.3
1 Dec 2022	11:00 AM	W	1.3
1 Dec 2022	12:00 PM	WNW	1.3
1 Dec 2022	1:00 PM	WNW	1.8
1 Dec 2022	2:00 PM	NNE	0.9
1 Dec 2022	3:00 PM	NNE	0.9
1 Dec 2022	4:00 PM	ENE	0.4
1 Dec 2022	5:00 PM	SE	1.3
1 Dec 2022	6:00 PM	NE	0.4
1 Dec 2022	7:00 PM	NE	0.4
1 Dec 2022	8:00 PM	SE	0.4
1 Dec 2022	9:00 PM	SE	1.3
1 Dec 2022	10:00 PM	Ν	0.9
1 Dec 2022	11:00 PM	Е	1.3
2 Dec 2022	12:00 AM	ESE	1.3
2 Dec 2022	1:00 AM	Е	1.3
2 Dec 2022	2:00 AM	Е	1.3
2 Dec 2022	3:00 AM	ESE	1.8
2 Dec 2022	4:00 AM	ESE	1.3

Appendix D - Weather Conditions During Impact Monitoring Period					
Wind Speed and Directions					
Date	Date Time Direction Wind Speed m				
2 Dec 2022	5:00 AM	ESE	1.3		
2 Dec 2022	6:00 AM	WNW	1.8		
2 Dec 2022	7:00 AM	SE	1.8		
2 Dec 2022	8:00 AM	ESE	2.2		
2 Dec 2022	9:00 AM	ESE	1.3		
2 Dec 2022	10:00 AM	SE	3.1		
2 Dec 2022	11:00 AM	SE	3.1		
2 Dec 2022	12:00 PM	ESE	3.6		
2 Dec 2022	1:00 PM	Е	2.2		
2 Dec 2022	2:00 PM	Е	1.8		
2 Dec 2022	3:00 PM	ESE	1.8		
2 Dec 2022	4:00 PM	ESE	1.8		
2 Dec 2022	5:00 PM	Е	1.8		
2 Dec 2022	6:00 PM	ESE	1.8		
2 Dec 2022	7:00 PM	Е	1.8		
2 Dec 2022	8:00 PM	Е	2.2		
2 Dec 2022	9:00 PM	Е	1.8		
2 Dec 2022	10:00 PM	Е	2.2		
2 Dec 2022	11:00 PM	Е	2.2		
3 Dec 2022	12:00 AM	ESE	1.8		
3 Dec 2022	1:00 AM	Е	0.9		
3 Dec 2022	2:00 AM	Е	0.9		
3 Dec 2022	3:00 AM	ENE	0.9		
3 Dec 2022	4:00 AM	Е	1.3		
3 Dec 2022	5:00 AM	Е	1.8		
3 Dec 2022	6:00 AM	Е	1.3		
3 Dec 2022	7:00 AM	ESE	1.3		
3 Dec 2022	8:00 AM	ESE	1.8		
3 Dec 2022	9:00 AM	ESE	1.3		

Appendix D - Weather Conditions During Impact Monitoring Period					
Wind Speed and Directions					
Date	Date Time Direction Wind Speed n				
3 Dec 2022	10:00 AM	ESE	1.8		
3 Dec 2022	11:00 AM	ESE	1.3		
3 Dec 2022	12:00 PM	ESE	0.9		
3 Dec 2022	1:00 PM	ESE	1.3		
3 Dec 2022	2:00 PM	ESE	1.3		
3 Dec 2022	3:00 PM	ESE	1.8		
3 Dec 2022	4:00 PM	ESE	0.9		
3 Dec 2022	5:00 PM	WNW	0.9		
3 Dec 2022	6:00 PM	SE	0.4		
3 Dec 2022	7:00 PM	ESE	1.3		
3 Dec 2022	8:00 PM	ESE	0.4		
3 Dec 2022	9:00 PM	SE	0.4		
3 Dec 2022	10:00 PM	SE	0.4		
3 Dec 2022	11:00 PM	SE	1.3		
4 Dec 2022	12:00 AM	Е	0.9		
4 Dec 2022	1:00 AM	ESE	1.3		
4 Dec 2022	2:00 AM	ESE	0.9		
4 Dec 2022	3:00 AM	Е	1.8		
4 Dec 2022	4:00 AM	ESE	1.3		
4 Dec 2022	5:00 AM	Е	1.3		
4 Dec 2022	6:00 AM	Е	1.3		
4 Dec 2022	7:00 AM	NNW	1.8		
4 Dec 2022	8:00 AM	Е	0.9		
4 Dec 2022	9:00 AM	Е	0.9		
4 Dec 2022	10:00 AM	SE	0.4		
4 Dec 2022	11:00 AM	ESE	1.3		
4 Dec 2022	12:00 PM	ESE	0.4		
4 Dec 2022	1:00 PM	ESE	0.4		
4 Dec 2022	2:00 PM	ESE	0.4		

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
4 Dec 2022	3:00 PM	ESE	1.3
4 Dec 2022	4:00 PM	ESE	0.9
4 Dec 2022	5:00 PM	SE	1.3
4 Dec 2022	6:00 PM	ESE	1.3
4 Dec 2022	7:00 PM	ESE	1.3
4 Dec 2022	8:00 PM	Е	1.3
4 Dec 2022	9:00 PM	Е	1.8
4 Dec 2022	10:00 PM	Е	1.8
4 Dec 2022	11:00 PM	ESE	1.3
5 Dec 2022	12:00 AM	Е	0.9
5 Dec 2022	1:00 AM	ESE	1.3
5 Dec 2022	2:00 AM	SE	1.3
5 Dec 2022	3:00 AM	ESE	0.9
5 Dec 2022	4:00 AM	SE	1.3
5 Dec 2022	5:00 AM	Е	0.9
5 Dec 2022	6:00 AM	ESE	1.3
5 Dec 2022	7:00 AM	SE	0.9
5 Dec 2022	8:00 AM	Е	1.3
5 Dec 2022	9:00 AM	Е	0.9
5 Dec 2022	10:00 AM	NNW	0.9
5 Dec 2022	11:00 AM	WNW	0.9
5 Dec 2022	12:00 PM	WNW	0.4
5 Dec 2022	1:00 PM	Е	0.9
5 Dec 2022	2:00 PM	Ν	0.9
5 Dec 2022	3:00 PM	ESE	0.4
5 Dec 2022	4:00 PM	ESE	0.4
5 Dec 2022	5:00 PM	ESE	0.4
5 Dec 2022	6:00 PM	WNW	0.9
5 Dec 2022	7:00 PM	SE	0.9

Appendix D - Weather Conditions During Impact Monitoring Period					
Wind Speed and Directions					
Date	Date Time Direction Wind Speed n				
5 Dec 2022	8:00 PM	ESE	1.3		
5 Dec 2022	9:00 PM	ESE	1.8		
5 Dec 2022	10:00 PM	SE	1.8		
5 Dec 2022	11:00 PM	SE	1.8		
6 Dec 2022	12:00 AM	Е	0.9		
6 Dec 2022	1:00 AM	ESE	0.9		
6 Dec 2022	2:00 AM	Е	0.4		
6 Dec 2022	3:00 AM	ESE	1.3		
6 Dec 2022	4:00 AM	Е	0.4		
6 Dec 2022	5:00 AM	Е	0.4		
6 Dec 2022	6:00 AM	ESE	0.4		
6 Dec 2022	7:00 AM	Е	1.3		
6 Dec 2022	8:00 AM	ESE	0.9		
6 Dec 2022	9:00 AM	Е	1.3		
6 Dec 2022	10:00 AM	Е	1.8		
6 Dec 2022	11:00 AM	ESE	2.2		
6 Dec 2022	12:00 PM	ESE	1.8		
6 Dec 2022	1:00 PM	ESE	1.3		
6 Dec 2022	2:00 PM	ESE	0.9		
6 Dec 2022	3:00 PM	ESE	0.9		
6 Dec 2022	4:00 PM	ESE	1.3		
6 Dec 2022	5:00 PM	SE	0.9		
6 Dec 2022	6:00 PM	NNW	0.9		
6 Dec 2022	7:00 PM	NNW	0.9		
6 Dec 2022	8:00 PM	WNW	0.4		
6 Dec 2022	9:00 PM	WNW	0.4		
6 Dec 2022	10:00 PM	NNW	0.4		
6 Dec 2022	11:00 PM	ESE	0.4		
7 Dec 2022	12:00 AM	ESE	0.9		

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
7 Dec 2022	1:00 AM	ESE	0.4	
7 Dec 2022	2:00 AM	ESE	0.9	
7 Dec 2022	3:00 AM	SE	0.9	
7 Dec 2022	4:00 AM	ESE	0.9	
7 Dec 2022	5:00 AM	ESE	1.3	
7 Dec 2022	6:00 AM	SE	0.9	
7 Dec 2022	7:00 AM	ESE	0.9	
7 Dec 2022	8:00 AM	ESE	1.3	
7 Dec 2022	9:00 AM	Е	1.8	
7 Dec 2022	10:00 AM	ESE	1.8	
7 Dec 2022	11:00 AM	Е	1.3	
7 Dec 2022	12:00 PM	WNW	1.3	
7 Dec 2022	1:00 PM	NW	0.9	
7 Dec 2022	2:00 PM	SE	0.9	
7 Dec 2022	3:00 PM	WNW	0.9	
7 Dec 2022	4:00 PM	W	0.9	
7 Dec 2022	5:00 PM	WNW	0.9	
7 Dec 2022	6:00 PM	NNW	0.9	
7 Dec 2022	7:00 PM	WNW	0.4	
7 Dec 2022	8:00 PM	NW	0.4	
7 Dec 2022	9:00 PM	WNW	0.4	
7 Dec 2022	10:00 PM	SE	0.1	
7 Dec 2022	11:00 PM	WNW	0.4	
8 Dec 2022	12:00 AM	WNW	1.8	
8 Dec 2022	1:00 AM	NW	0.9	
8 Dec 2022	2:00 AM	W	0.9	
8 Dec 2022	3:00 AM	WNW	0.4	
8 Dec 2022	4:00 AM	WNW	1.3	
8 Dec 2022	5:00 AM	WNW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
8 Dec 2022	6:00 AM	WNW	0.4
8 Dec 2022	7:00 AM	WNW	0.4
8 Dec 2022	8:00 AM	W	1.3
8 Dec 2022	9:00 AM	W	0.9
8 Dec 2022	10:00 AM	NNW	1.3
8 Dec 2022	11:00 AM	NNW	0.9
8 Dec 2022	12:00 PM	NNW	1.8
8 Dec 2022	1:00 PM	NNW	3.1
8 Dec 2022	2:00 PM	NNW	3.1
8 Dec 2022	3:00 PM	NNW	1.8
8 Dec 2022	4:00 PM	WNW	1.3
8 Dec 2022	5:00 PM	NNW	1.3
8 Dec 2022	6:00 PM	NNW	0.9
8 Dec 2022	7:00 PM	W	0.9
8 Dec 2022	8:00 PM	WNW	0.4
8 Dec 2022	9:00 PM	WNW	0.4
8 Dec 2022	10:00 PM	NW	0.4
8 Dec 2022	11:00 PM	W	0.4
9 Dec 2022	12:00 AM	SE	0.1
9 Dec 2022	1:00 AM	SSE	0.4
9 Dec 2022	2:00 AM	SSE	0.4
9 Dec 2022	3:00 AM	SSE	0.0
9 Dec 2022	4:00 AM	SE	0.4
9 Dec 2022	5:00 AM	ESE	0.9
9 Dec 2022	6:00 AM	Е	0.4
9 Dec 2022	7:00 AM	ESE	0.9
9 Dec 2022	8:00 AM	ESE	1.8
9 Dec 2022	9:00 AM	Е	2.2
9 Dec 2022	10:00 AM	ESE	1.8

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
9 Dec 2022	11:00 AM	SE	1.8
9 Dec 2022	12:00 PM	Е	1.8
9 Dec 2022	1:00 PM	ESE	1.3
9 Dec 2022	2:00 PM	Е	1.3
9 Dec 2022	3:00 PM	SE	1.2
9 Dec 2022	4:00 PM	ESE	1.1
9 Dec 2022	5:00 PM	Е	1.2
9 Dec 2022	6:00 PM	Е	1.2
9 Dec 2022	7:00 PM	Е	1.3
9 Dec 2022	8:00 PM	Е	1.5
9 Dec 2022	9:00 PM	ESE	0.9
9 Dec 2022	10:00 PM	SE	0.8
9 Dec 2022	11:00 PM	SSE	1.0
10 Dec 2022	12:00 AM	SE	1.1
10 Dec 2022	1:00 AM	Е	1.2
10 Dec 2022	2:00 AM	SE	1.1
10 Dec 2022	3:00 AM	SE	0.9
10 Dec 2022	4:00 AM	SSE	0.1
10 Dec 2022	5:00 AM	SE	0.4
10 Dec 2022	6:00 AM	ESE	0.9
10 Dec 2022	7:00 AM	ESE	0.4
10 Dec 2022	8:00 AM	Е	0.9
10 Dec 2022	9:00 AM	ESE	1.8
10 Dec 2022	10:00 AM	Е	2.2
10 Dec 2022	11:00 AM	Е	1.8
10 Dec 2022	12:00 PM	ESE	1.8
10 Dec 2022	1:00 PM	ESE	1.8
10 Dec 2022	2:00 PM	SE	1.3
10 Dec 2022	3:00 PM	SSE	1.3

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
10 Dec 2022	4:00 PM	SE	0.9
10 Dec 2022	5:00 PM	ESE	0.9
10 Dec 2022	6:00 PM	WNW	0.4
10 Dec 2022	7:00 PM	ESE	0.9
10 Dec 2022	8:00 PM	ESE	1.3
10 Dec 2022	9:00 PM	ESE	1.3
10 Dec 2022	10:00 PM	Е	1.8
10 Dec 2022	11:00 PM	ESE	1.3
11 Dec 2022	12:00 AM	ESE	1.8
11 Dec 2022	1:00 AM	ESE	1.8
11 Dec 2022	2:00 AM	ESE	1.8
11 Dec 2022	3:00 AM	ESE	2.2
11 Dec 2022	4:00 AM	ESE	1.8
11 Dec 2022	5:00 AM	Е	1.8
11 Dec 2022	6:00 AM	Е	1.3
11 Dec 2022	7:00 AM	ESE	1.8
11 Dec 2022	8:00 AM	SE	1.8
11 Dec 2022	9:00 AM	SE	1.8
11 Dec 2022	10:00 AM	ESE	1.8
11 Dec 2022	11:00 AM	ESE	1.8
11 Dec 2022	12:00 PM	NW	1.8
11 Dec 2022	1:00 PM	NW	3.6
11 Dec 2022	2:00 PM	NW	4.0
11 Dec 2022	3:00 PM	NW	4.5
11 Dec 2022	4:00 PM	NW	3.1
11 Dec 2022	5:00 PM	NW	4.0
11 Dec 2022	6:00 PM	NW	1.8
11 Dec 2022	7:00 PM	NW	0.9
11 Dec 2022	8:00 PM	W	0.9

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
11 Dec 2022	9:00 PM	Ν	0.4
11 Dec 2022	10:00 PM	NW	0.4
11 Dec 2022	11:00 PM	WNW	0.4
12 Dec 2022	12:00 AM	W	0.9
12 Dec 2022	1:00 AM	W	0.9
12 Dec 2022	2:00 AM	W	0.9
12 Dec 2022	3:00 AM	W	1.3
12 Dec 2022	4:00 AM	W	0.9
12 Dec 2022	5:00 AM	W	0.1
12 Dec 2022	6:00 AM	W	0.4
12 Dec 2022	7:00 AM	W	0.9
12 Dec 2022	8:00 AM	W	0.4
12 Dec 2022	9:00 AM	NNW	0.9
12 Dec 2022	10:00 AM	ENE	1.8
12 Dec 2022	11:00 AM	NW	2.2
12 Dec 2022	12:00 PM	W	1.8
12 Dec 2022	1:00 PM	W	1.8
12 Dec 2022	2:00 PM	W	1.8
12 Dec 2022	3:00 PM	NNW	1.3
12 Dec 2022	4:00 PM	NW	1.3
12 Dec 2022	5:00 PM	W	0.9
12 Dec 2022	6:00 PM	NW	0.9
12 Dec 2022	7:00 PM	NW	1.3
12 Dec 2022	8:00 PM	W	1.3
12 Dec 2022	9:00 PM	NW	0.9
12 Dec 2022	10:00 PM	WNW	1.3
12 Dec 2022	11:00 PM	NW	1.8
13 Dec 2022	12:00 AM	WNW	1.8
13 Dec 2022	1:00 AM	NW	1.8

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
13 Dec 2022	2:00 AM	NW	1.8	
13 Dec 2022	3:00 AM	W	1.3	
13 Dec 2022	4:00 AM	W	0.9	
13 Dec 2022	5:00 AM	WNW	0.9	
13 Dec 2022	6:00 AM	ENE	0.9	
13 Dec 2022	7:00 AM	NW	0.4	
13 Dec 2022	8:00 AM	W	0.9	
13 Dec 2022	9:00 AM	W	1.3	
13 Dec 2022	10:00 AM	W	1.3	
13 Dec 2022	11:00 AM	W	1.3	
13 Dec 2022	12:00 PM	W	1.8	
13 Dec 2022	1:00 PM	WNW	1.3	
13 Dec 2022	2:00 PM	NW	1.8	
13 Dec 2022	3:00 PM	NW	2.2	
13 Dec 2022	4:00 PM	NW	3.6	
13 Dec 2022	5:00 PM	NW	3.6	
13 Dec 2022	6:00 PM	NW	1.3	
13 Dec 2022	7:00 PM	NW	1.3	
13 Dec 2022	8:00 PM	NW	0.9	
13 Dec 2022	9:00 PM	WNW	0.4	
13 Dec 2022	10:00 PM	WNW	0.4	
13 Dec 2022	11:00 PM	W	0.4	
14 Dec 2022	12:00 AM	WNW	0.4	
14 Dec 2022	1:00 AM	NW	1.3	
14 Dec 2022	2:00 AM	NW	1.8	
14 Dec 2022	3:00 AM	NW	1.3	
14 Dec 2022	4:00 AM	NW	1.3	
14 Dec 2022	5:00 AM	NW	1.8	
14 Dec 2022	6:00 AM	NW	1.3	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
14 Dec 2022	7:00 AM	NW	0.9
14 Dec 2022	8:00 AM	NW	0.9
14 Dec 2022	9:00 AM	NW	1.8
14 Dec 2022	10:00 AM	NW	1.3
14 Dec 2022	11:00 AM	NW	1.8
14 Dec 2022	12:00 PM	W	1.3
14 Dec 2022	1:00 PM	W	1.8
14 Dec 2022	2:00 PM	W	1.3
14 Dec 2022	3:00 PM	NW	1.8
14 Dec 2022	4:00 PM	NW	4.0
14 Dec 2022	5:00 PM	NW	3.6
14 Dec 2022	6:00 PM	NW	3.6
14 Dec 2022	7:00 PM	NW	1.3
14 Dec 2022	8:00 PM	NW	0.1
14 Dec 2022	9:00 PM	NW	0.4
14 Dec 2022	10:00 PM	W	0.9
14 Dec 2022	11:00 PM	W	0.4
15 Dec 2022	12:00 AM	W	0.9
15 Dec 2022	1:00 AM	W	1.8
15 Dec 2022	2:00 AM	W	2.2
15 Dec 2022	3:00 AM	W	1.8
15 Dec 2022	4:00 AM	WNW	1.8
15 Dec 2022	5:00 AM	W	1.8
15 Dec 2022	6:00 AM	NW	1.3
15 Dec 2022	7:00 AM	WNW	1.3
15 Dec 2022	8:00 AM	W	1.3
15 Dec 2022	9:00 AM	W	1.3
15 Dec 2022	10:00 AM	NW	1.3
15 Dec 2022	11:00 AM	NW	1.3

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
15 Dec 2022	12:00 PM	NW	1.3	
15 Dec 2022	1:00 PM	NW	0.9	
15 Dec 2022	2:00 PM	NW	0.9	
15 Dec 2022	3:00 PM	W	1.3	
15 Dec 2022	4:00 PM	NW	1.3	
15 Dec 2022	5:00 PM	W	1.3	
15 Dec 2022	6:00 PM	NW	2.2	
15 Dec 2022	7:00 PM	NW	1.8	
15 Dec 2022	8:00 PM	NW	1.3	
15 Dec 2022	9:00 PM	NW	2.2	
15 Dec 2022	10:00 PM	NW	2.2	
15 Dec 2022	11:00 PM	NW	1.3	
16 Dec 2022	12:00 AM	NW	1.8	
16 Dec 2022	1:00 AM	NW	1.8	
16 Dec 2022	2:00 AM	NW	1.3	
16 Dec 2022	3:00 AM	WNW	0.9	
16 Dec 2022	4:00 AM	NW	1.3	
16 Dec 2022	5:00 AM	W	0.9	
16 Dec 2022	6:00 AM	W	1.3	
16 Dec 2022	7:00 AM	NW	1.3	
16 Dec 2022	8:00 AM	NW	2.2	
16 Dec 2022	9:00 AM	NW	1.8	
16 Dec 2022	10:00 AM	NW	1.8	
16 Dec 2022	11:00 AM	Е	1.8	
16 Dec 2022	12:00 PM	NW	1.3	
16 Dec 2022	1:00 PM	NW	2.7	
16 Dec 2022	2:00 PM	NW	1.8	
16 Dec 2022	3:00 PM	NW	1.8	
16 Dec 2022	4:00 PM	NW	2.7	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
16 Dec 2022	5:00 PM	NW	1.8
16 Dec 2022	6:00 PM	NW	1.8
16 Dec 2022	7:00 PM	NW	1.8
16 Dec 2022	8:00 PM	NW	1.8
16 Dec 2022	9:00 PM	NW	2.2
16 Dec 2022	10:00 PM	NW	1.8
16 Dec 2022	11:00 PM	NW	0.9
17 Dec 2022	12:00 AM	NW	1.3
17 Dec 2022	1:00 AM	NE	0.9
17 Dec 2022	2:00 AM	NNE	0.4
17 Dec 2022	3:00 AM	NE	0.4
17 Dec 2022	4:00 AM	NW	0.4
17 Dec 2022	5:00 AM	Ν	0.4
17 Dec 2022	6:00 AM	NE	0.9
17 Dec 2022	7:00 AM	NE	0.9
17 Dec 2022	8:00 AM	NE	0.9
17 Dec 2022	9:00 AM	NW	0.9
17 Dec 2022	10:00 AM	NW	0.9
17 Dec 2022	11:00 AM	NW	0.9
17 Dec 2022	12:00 PM	NW	1.3
17 Dec 2022	1:00 PM	NW	2.2
17 Dec 2022	2:00 PM	NW	2.2
17 Dec 2022	3:00 PM	NW	2.7
17 Dec 2022	4:00 PM	NW	0.1
17 Dec 2022	5:00 PM	NW	0.4
17 Dec 2022	6:00 PM	NW	0.9
17 Dec 2022	7:00 PM	NW	0.4
17 Dec 2022	8:00 PM	NW	0.9
17 Dec 2022	9:00 PM	NW	1.8

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
17 Dec 2022	10:00 PM	NE	2.2
17 Dec 2022	11:00 PM	Ν	1.8
18 Dec 2022	12:00 AM	Ν	1.8
18 Dec 2022	1:00 AM	Ν	1.8
18 Dec 2022	2:00 AM	Ν	1.3
18 Dec 2022	3:00 AM	Ν	0.4
18 Dec 2022	4:00 AM	Ν	0.4
18 Dec 2022	5:00 AM	Ν	0.4
18 Dec 2022	6:00 AM	Ν	0.4
18 Dec 2022	7:00 AM	Ν	0.4
18 Dec 2022	8:00 AM	NNW	0.4
18 Dec 2022	9:00 AM	NNW	0.4
18 Dec 2022	10:00 AM	NE	0.4
18 Dec 2022	11:00 AM	NE	0.9
18 Dec 2022	12:00 PM	NW	2.2
18 Dec 2022	1:00 PM	NW	1.8
18 Dec 2022	2:00 PM	NW	2.7
18 Dec 2022	3:00 PM	NW	3.1
18 Dec 2022	4:00 PM	NW	2.2
18 Dec 2022	5:00 PM	W	1.3
18 Dec 2022	6:00 PM	W	1.3
18 Dec 2022	7:00 PM	NW	1.8
18 Dec 2022	8:00 PM	W	1.3
18 Dec 2022	9:00 PM	W	1.3
18 Dec 2022	10:00 PM	W	1.3
18 Dec 2022	11:00 PM	WNW	1.3
19 Dec 2022	12:00 AM	W	1.3
19 Dec 2022	1:00 AM	W	1.3
19 Dec 2022	2:00 AM	WNW	1.3

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
19 Dec 2022	3:00 AM	W	0.9	
19 Dec 2022	4:00 AM	W	0.9	
19 Dec 2022	5:00 AM	W	0.9	
19 Dec 2022	6:00 AM	W	0.9	
19 Dec 2022	7:00 AM	NW	0.9	
19 Dec 2022	8:00 AM	NW	0.9	
19 Dec 2022	9:00 AM	W	0.4	
19 Dec 2022	10:00 AM	W	0.4	
19 Dec 2022	11:00 AM	NW	0.9	
19 Dec 2022	12:00 PM	NW	1.3	
19 Dec 2022	1:00 PM	W	0.9	
19 Dec 2022	2:00 PM	WSW	0.9	
19 Dec 2022	3:00 PM	W	0.9	
19 Dec 2022	4:00 PM	NW	0.9	
19 Dec 2022	5:00 PM	W	0.9	
19 Dec 2022	6:00 PM	ESE	1.8	
19 Dec 2022	7:00 PM	ESE	1.8	
19 Dec 2022	8:00 PM	Е	2.2	
19 Dec 2022	9:00 PM	Е	2.2	
19 Dec 2022	10:00 PM	ESE	1.3	
19 Dec 2022	11:00 PM	SE	0.9	
20 Dec 2022	12:00 AM	SE	0.4	
20 Dec 2022	1:00 AM	ESE	1.3	
20 Dec 2022	2:00 AM	ENE	0.9	
20 Dec 2022	3:00 AM	ESE	0.9	
20 Dec 2022	4:00 AM	Е	1.3	
20 Dec 2022	5:00 AM	ESE	0.9	
20 Dec 2022	6:00 AM	ESE	0.9	
20 Dec 2022	7:00 AM	Е	0.9	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
20 Dec 2022	8:00 AM	Е	1.3	
20 Dec 2022	9:00 AM	Е	0.9	
20 Dec 2022	10:00 AM	ESE	1.8	
20 Dec 2022	11:00 AM	NW	0.1	
20 Dec 2022	12:00 PM	NW	0.4	
20 Dec 2022	1:00 PM	NW	0.9	
20 Dec 2022	2:00 PM	NW	0.4	
20 Dec 2022	3:00 PM	NW	0.9	
20 Dec 2022	4:00 PM	NW	1.8	
20 Dec 2022	5:00 PM	NW	2.2	
20 Dec 2022	6:00 PM	NW	1.8	
20 Dec 2022	7:00 PM	NW	1.8	
20 Dec 2022	8:00 PM	NW	1.8	
20 Dec 2022	9:00 PM	NW	1.3	
20 Dec 2022	10:00 PM	NW	0.4	
20 Dec 2022	11:00 PM	NW	0.4	
21 Dec 2022	12:00 AM	NW	0.4	
21 Dec 2022	1:00 AM	WNW	0.1	
21 Dec 2022	2:00 AM	W	0.4	
21 Dec 2022	3:00 AM	W	0.9	
21 Dec 2022	4:00 AM	W	1.3	
21 Dec 2022	5:00 AM	WNW	1.3	
21 Dec 2022	6:00 AM	W	0.9	
21 Dec 2022	7:00 AM	WNW	0.9	
21 Dec 2022	8:00 AM	WNW	0.9	
21 Dec 2022	9:00 AM	ESE	0.4	
21 Dec 2022	10:00 AM	NW	1.8	
21 Dec 2022	11:00 AM	NW	1.8	
21 Dec 2022	12:00 PM	NW	2.2	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
21 Dec 2022	1:00 PM	NW	1.8
21 Dec 2022	2:00 PM	NW	2.7
21 Dec 2022	3:00 PM	NW	1.8
21 Dec 2022	4:00 PM	NW	2.7
21 Dec 2022	5:00 PM	NE	0.9
21 Dec 2022	6:00 PM	NW	1.8
21 Dec 2022	7:00 PM	NW	1.8
21 Dec 2022	8:00 PM	NW	0.9
21 Dec 2022	9:00 PM	NW	1.8
21 Dec 2022	10:00 PM	NW	2.2
21 Dec 2022	11:00 PM	NW	1.8
22 Dec 2022	12:00 AM	NW	1.3
22 Dec 2022	1:00 AM	NW	0.4
22 Dec 2022	2:00 AM	NW	0.4
22 Dec 2022	3:00 AM	NW	0.9
22 Dec 2022	4:00 AM	WNW	0.4
22 Dec 2022	5:00 AM	WNW	0.4
22 Dec 2022	6:00 AM	NW	0.9
22 Dec 2022	7:00 AM	NW	0.4
22 Dec 2022	8:00 AM	NW	1.3
22 Dec 2022	9:00 AM	NW	0.9
22 Dec 2022	10:00 AM	NW	1.8
22 Dec 2022	11:00 AM	NW	1.8
22 Dec 2022	12:00 PM	NW	1.3
22 Dec 2022	1:00 PM	ESE	0.9
22 Dec 2022	2:00 PM	NW	0.9
22 Dec 2022	3:00 PM	NW	0.9
22 Dec 2022	4:00 PM	NW	2.2
22 Dec 2022	5:00 PM	NW	1.8

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
22 Dec 2022	6:00 PM	NW	1.3
22 Dec 2022	7:00 PM	NW	0.4
22 Dec 2022	8:00 PM	NW	0.9
22 Dec 2022	9:00 PM	NNW	0.4
22 Dec 2022	10:00 PM	NW	0.1
22 Dec 2022	11:00 PM	ESE	0.4
23 Dec 2022	12:00 AM	ESE	0.9
23 Dec 2022	1:00 AM	ESE	0.9
23 Dec 2022	2:00 AM	ESE	0.1
23 Dec 2022	3:00 AM		0.1
23 Dec 2022	4:00 AM		0.1
23 Dec 2022	5:00 AM	NNW	0.1
23 Dec 2022	6:00 AM	W	0.1
23 Dec 2022	7:00 AM	NW	0.4
23 Dec 2022	8:00 AM	NW	1.3
23 Dec 2022	9:00 AM	W	1.3
23 Dec 2022	10:00 AM	NW	1.3
23 Dec 2022	11:00 AM	W	0.9
23 Dec 2022	12:00 PM	NW	1.3
23 Dec 2022	1:00 PM	NW	1.8
23 Dec 2022	2:00 PM	NW	1.3
23 Dec 2022	3:00 PM	NW	1.3
23 Dec 2022	4:00 PM	NW	1.3
23 Dec 2022	5:00 PM	NW	0.1
23 Dec 2022	6:00 PM	NW	0.4
23 Dec 2022	7:00 PM	NW	0.9
23 Dec 2022	8:00 PM	NW	0.4
23 Dec 2022	9:00 PM	WNW	0.9
23 Dec 2022	10:00 PM	W	1.8

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
23 Dec 2022	11:00 PM	W	2.2	
24 Dec 2022	12:00 AM	W	1.8	
24 Dec 2022	1:00 AM	WNW	1.8	
24 Dec 2022	2:00 AM	W	1.8	
24 Dec 2022	3:00 AM	WNW	1.3	
24 Dec 2022	4:00 AM	WNW	1.3	
24 Dec 2022	5:00 AM	W	0.4	
24 Dec 2022	6:00 AM	W	0.4	
24 Dec 2022	7:00 AM	W	0.4	
24 Dec 2022	8:00 AM	WNW	0.9	
24 Dec 2022	9:00 AM	NW	1.3	
24 Dec 2022	10:00 AM	W	0.9	
24 Dec 2022	11:00 AM	W	1.3	
24 Dec 2022	12:00 PM	NW	1.8	
24 Dec 2022	1:00 PM	NW	3.1	
24 Dec 2022	2:00 PM	NW	4.9	
24 Dec 2022	3:00 PM	NW	3.1	
24 Dec 2022	4:00 PM	NW	3.1	
24 Dec 2022	5:00 PM	NW	1.8	
24 Dec 2022	6:00 PM	NW	1.3	
24 Dec 2022	7:00 PM	NW	1.8	
24 Dec 2022	8:00 PM	NE	0.9	
24 Dec 2022	9:00 PM	NW	0.9	
24 Dec 2022	10:00 PM	NW	1.3	
24 Dec 2022	11:00 PM	NW	1.3	
25 Dec 2022	12:00 AM	NW	1.3	
25 Dec 2022	1:00 AM	NW	1.3	
25 Dec 2022	2:00 AM	NW	1.3	
25 Dec 2022	3:00 AM	Е	1.3	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
25 Dec 2022	4:00 AM	Е	1.8
25 Dec 2022	5:00 AM	Е	1.8
25 Dec 2022	6:00 AM	Е	1.3
25 Dec 2022	7:00 AM	ESE	1.3
25 Dec 2022	8:00 AM	ESE	1.3
25 Dec 2022	9:00 AM	ENE	1.3
25 Dec 2022	10:00 AM	ENE	0.9
25 Dec 2022	11:00 AM	NW	1.3
25 Dec 2022	12:00 PM	NW	1.3
25 Dec 2022	1:00 PM	NW	1.3
25 Dec 2022	2:00 PM	NW	1.8
25 Dec 2022	3:00 PM	ESE	0.9
25 Dec 2022	4:00 PM	NW	1.3
25 Dec 2022	5:00 PM	NW	1.3
25 Dec 2022	6:00 PM	NW	1.3
25 Dec 2022	7:00 PM	NW	1.3
25 Dec 2022	8:00 PM	NW	1.8
25 Dec 2022	9:00 PM	NW	1.8
25 Dec 2022	10:00 PM	NW	2.7
25 Dec 2022	11:00 PM	WNW	2.2
26 Dec 2022	12:00 AM	W	2.2
26 Dec 2022	1:00 AM	W	1.8
26 Dec 2022	2:00 AM	W	1.3
26 Dec 2022	3:00 AM	WNW	1.3
26 Dec 2022	4:00 AM	W	0.9
26 Dec 2022	5:00 AM	WNW	0.4
26 Dec 2022	6:00 AM	WNW	0.9
26 Dec 2022	7:00 AM	W	0.9
26 Dec 2022	8:00 AM	W	0.9

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
26 Dec 2022	9:00 AM	WNW	0.9
26 Dec 2022	10:00 AM	ESE	0.4
26 Dec 2022	11:00 AM	WNW	0.4
26 Dec 2022	12:00 PM	W	0.9
26 Dec 2022	1:00 PM	W	0.9
26 Dec 2022	2:00 PM	W	0.9
26 Dec 2022	3:00 PM	W	1.3
26 Dec 2022	4:00 PM	W	0.9
26 Dec 2022	5:00 PM	W	0.4
26 Dec 2022	6:00 PM	ESE	0.1
26 Dec 2022	7:00 PM	ENE	0.4
26 Dec 2022	8:00 PM	W	0.9
26 Dec 2022	9:00 PM	W	0.4
26 Dec 2022	10:00 PM	W	0.9
26 Dec 2022	11:00 PM	W	1.8
27 Dec 2022	12:00 AM	NW	2.2
27 Dec 2022	1:00 AM	Е	1.8
27 Dec 2022	2:00 AM	NW	1.8
27 Dec 2022	3:00 AM	NW	1.8
27 Dec 2022	4:00 AM	NW	1.3
27 Dec 2022	5:00 AM	NW	3.1
27 Dec 2022	6:00 AM	NW	1.3
27 Dec 2022	7:00 AM	W	0.4
27 Dec 2022	8:00 AM	NW	1.3
27 Dec 2022	9:00 AM	NE	0.9
27 Dec 2022	10:00 AM	NW	0.9
27 Dec 2022	11:00 AM	NW	0.4
27 Dec 2022	12:00 PM	W	0.9
27 Dec 2022	1:00 PM	W	0.4

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
27 Dec 2022	2:00 PM	NW	0.4	
27 Dec 2022	3:00 PM	NW	0.4	
27 Dec 2022	4:00 PM	NW	0.4	
27 Dec 2022	5:00 PM	NW	0.4	
27 Dec 2022	6:00 PM	NW	0.4	
27 Dec 2022	7:00 PM	NW	0.4	
27 Dec 2022	8:00 PM	NW	0.4	
27 Dec 2022	9:00 PM	WNW	0.4	
27 Dec 2022	10:00 PM	W	0.4	
27 Dec 2022	11:00 PM	W	0.9	
28 Dec 2022	12:00 AM	W	0.9	
28 Dec 2022	1:00 AM	WNW	0.4	
28 Dec 2022	2:00 AM	W	0.9	
28 Dec 2022	3:00 AM	WNW	0.9	
28 Dec 2022	4:00 AM	WNW	0.4	
28 Dec 2022	5:00 AM	NW	0.4	
28 Dec 2022	6:00 AM	NW	0.1	
28 Dec 2022	7:00 AM	WNW	0.4	
28 Dec 2022	8:00 AM	NE	0.9	
28 Dec 2022	9:00 AM	NE	0.9	
28 Dec 2022	10:00 AM	NW	0.4	
28 Dec 2022	11:00 AM	NW	0.9	
28 Dec 2022	12:00 PM	NW	1.3	
28 Dec 2022	1:00 PM	NW	0.9	
28 Dec 2022	2:00 PM	NW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
28 Dec 2022	3:00 PM	NE	0.4	
28 Dec 2022	4:00 PM	NE	0.4	
28 Dec 2022	5:00 PM	NW	0.4	
28 Dec 2022	6:00 PM	NW	0.1	
28 Dec 2022	7:00 PM	ESE	0.4	
28 Dec 2022	8:00 PM	WSW	0.1	
28 Dec 2022	9:00 PM	ESE	0.1	
28 Dec 2022	10:00 PM	ESE	0.4	
28 Dec 2022	11:00 PM	SE	0.4	
29 Dec 2022	12:00 AM	ESE	1.3	
29 Dec 2022	1:00 AM	WNW	1.3	
29 Dec 2022	2:00 AM	NW	0.9	
29 Dec 2022	3:00 AM	NW	0.9	
29 Dec 2022	4:00 AM	W	0.9	
29 Dec 2022	5:00 AM	NW	1.3	
29 Dec 2022	6:00 AM	W	1.3	
29 Dec 2022	7:00 AM	WNW	0.4	
29 Dec 2022	8:00 AM	NW	1.3	
29 Dec 2022	9:00 AM	W	0.9	
29 Dec 2022	10:00 AM	W	1.8	
29 Dec 2022	11:00 AM	W	1.3	
29 Dec 2022	12:00 PM	W	0.9	
29 Dec 2022	1:00 PM	W	0.9	
29 Dec 2022	2:00 PM	NW	0.4	
29 Dec 2022	3:00 PM	NW	0.9	
29 Dec 2022	4:00 PM	NW	1.3	
29 Dec 2022	5:00 PM	NW	0.1	
29 Dec 2022	6:00 PM	NW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
29 Dec 2022	7:00 PM	NW	0.9
29 Dec 2022	8:00 PM		0.4
29 Dec 2022	9:00 PM		0.9
29 Dec 2022	10:00 PM	NNW	1.8
29 Dec 2022	11:00 PM	NNW	2.2
30 Dec 2022	12:00 AM	NW	1.8
30 Dec 2022	1:00 AM	NW	1.8
30 Dec 2022	2:00 AM	NW	1.8
30 Dec 2022	3:00 AM	NW	1.3
30 Dec 2022	4:00 AM	NW	4.9
30 Dec 2022	5:00 AM	NW	4.0
30 Dec 2022	6:00 AM	NW	3.1
30 Dec 2022	7:00 AM	NW	4.0
30 Dec 2022	8:00 AM	NW	4.0
30 Dec 2022	9:00 AM	NW	1.3
30 Dec 2022	10:00 AM	NW	1.8
30 Dec 2022	11:00 AM	NW	1.8
30 Dec 2022	12:00 PM	NW	0.9
30 Dec 2022	1:00 PM	NW	0.9
30 Dec 2022	2:00 PM	NW	1.3
30 Dec 2022	3:00 PM	NW	1.3
30 Dec 2022	4:00 PM	WNW	0.9
30 Dec 2022	5:00 PM	W	0.9
30 Dec 2022	6:00 PM	W	0.9
30 Dec 2022	7:00 PM	W	0.9
30 Dec 2022	8:00 PM	WNW	0.9
30 Dec 2022	9:00 PM	W	1.3
30 Dec 2022	10:00 PM	WNW	1.8
30 Dec 2022	11:00 PM	WNW	1.8

Appendix D - W	eather Conditions	During Impact Mo	nitoring Period
	Wind Speed a	and Directions	
Date	Time	Direction	Wind Speed m-s
31 Dec 2022	12:00 AM	WNW	0.9
31 Dec 2022	1:00 AM	WNW	1.3
31 Dec 2022	2:00 AM	WNW	2.2
31 Dec 2022	3:00 AM	WNW	1.3
31 Dec 2022	4:00 AM	NW	1.8
31 Dec 2022	5:00 AM	WNW	1.3
31 Dec 2022	6:00 AM	WNW	1.3
31 Dec 2022	7:00 AM	WNW	0.9
31 Dec 2022	8:00 AM	NW	0.4
31 Dec 2022	9:00 AM	NW	0.4
31 Dec 2022	10:00 AM	NW	0.4
31 Dec 2022	11:00 AM	NW	0.9
31 Dec 2022	12:00 PM	NW	0.4
31 Dec 2022	1:00 PM	NW	0.9
31 Dec 2022	2:00 PM	WNW	1.3
31 Dec 2022	3:00 PM	W	0.9
31 Dec 2022	4:00 PM	W	0.9
31 Dec 2022	5:00 PM	W	1.3
31 Dec 2022	6:00 PM	WNW	0.9
31 Dec 2022	7:00 PM	W	1.3
31 Dec 2022	8:00 PM	WNW	1.3
31 Dec 2022	9:00 PM	WNW	1.3
31 Dec 2022	10:00 PM	NNE	0.9
31 Dec 2022	11:00 PM	Е	0.9

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	w Rate (m ³ /min.) Av. F		Total vol.	Conc.	Action	Limit Level
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)	Level (µ g/m3)	(µg/m3)
6-Dec-22	Fine	290.9	765.5	3.6808	3.8093	0.1284	5258.5	5282.5	24.0	1.22	1.22	1.22	1760.9	72.9		
12-Dec-22	Rainy	288.4	765.1	3.6763	3.8067	0.1305	5306.5	5330.5	24.0	1.22	1.23	1.23	1766.2	73.9		
17-Dec-22	Rainy	285.5	770.1	3.6891	3.7168	0.0278	5330.5	5354.5	24.0	1.23	1.24	1.23	1777.9	15.6	191.0	260.0
22-Dec-22	Sunny	290.2	764.3	3.3343	3.5032	0.1690	5354.5	5378.5	24.0	1.22	1.22	1.22	1760.9	96.0		
28-Dec-22	Sunny	290.3	768.6	3.3690	3.5796	0.2106	5378.6	5402.6	24.0	1.22	1.23	1.23	1764.6	119.3		
Note:	Bold Italic means A	ction Level exce	edance										Min	15.6		
	Bold Italic with uno	lerline means L	imit Level exceedance										Max	119.3		
													Average	75.5		

Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit Level
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)	Level (µ g/m3)	(µg/m3)
6-Dec-22	Fine	290.9	765.5	3.3599	3.5279	0.1680	17431.1	17455.1	24.0	1.23	1.22	1.23	1765.1	95.2		
12-Dec-22	Sunny	288.4	765.1	3.3532	3.6011	0.2479	17455.1	17479.1	24.0	1.23	1.23	1.23	1770.6	140.0		
17-Dec-22	Cloudy	285.5	770.1	3.3415	3.5712	0.2297	17479.1	17503.1	24.0	1.24	1.24	1.24	1783.0	128.8	183.0	260.0
22-Dec-22	Sunny	290.2	764.3	3.3340	3.5814	0.2474	17503.2	17527.2	24.0	1.23	1.23	1.23	1765.1	140.2		
28-Dec-22	Sunny	290.3	768.6	3.3786	3.6711	0.2925	17527.2	17551.2	24.0	1.23	1.23	1.23	1769.0	165.3		
Note:	Bold Italic means A	ction Level exce	edance										Min	95.2		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	165.3		
													Average	133.9		

Location KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

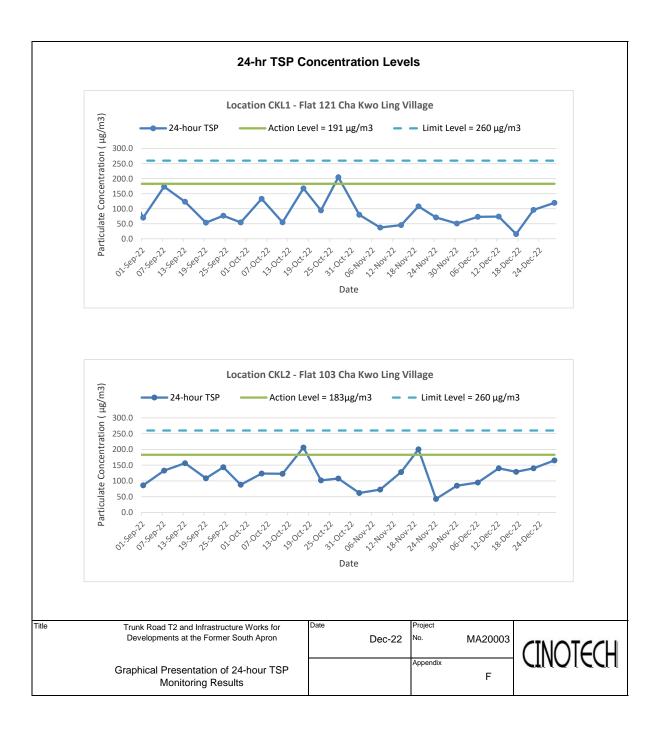
Olarit Data	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit Level
Start Date	Condition	(K) .	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µ g/m3)	(µg/m3)
6-Dec-22	Fine	290.9	765.5	3.7118	3.7839	0.0721	16715.1	16739.1	24.0	1.23	1.23	1.23	1776.0	40.6		
12-Dec-22	Fine	288.4	765.1	3.6972	3.7488	0.0516	16739.1	16763.1	24.0	1.24	1.24	1.24	1782.0	29.0		
17-Dec-22	Sunny	285.5	770.1	3.4022	3.5044	0.1022	16763.1	16787.1	24.0	1.24	1.25	1.25	1795.1	56.9	177.0	260.0
22-Dec-22	Sunny	290.2	764.3	3.3741	3.3967	0.0226	16787.1	16811.1	24.0	1.23	1.23	1.23	1776.1	12.7		
28-Dec-22	Sunny	290.3	768.6	3.3652	3.4437	0.0785	16811.1	16835.1	24.0	1.24	1.24	1.24	1779.5	44.1		
Note:	Bold Italic means A	ction Level exce	edance										Min	12.7		
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	56.9		
													Average	36.7		

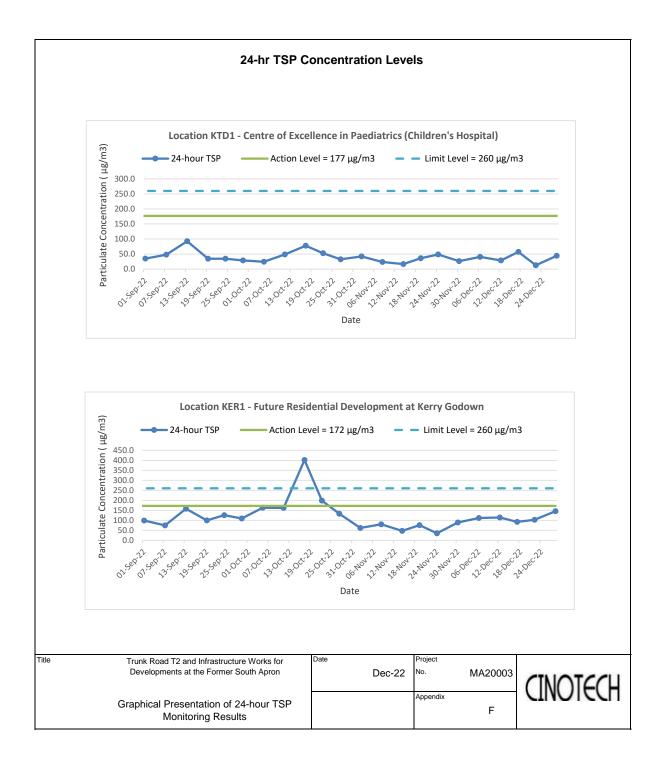
Location KER1 - Future Residential Development at Kerry Godown

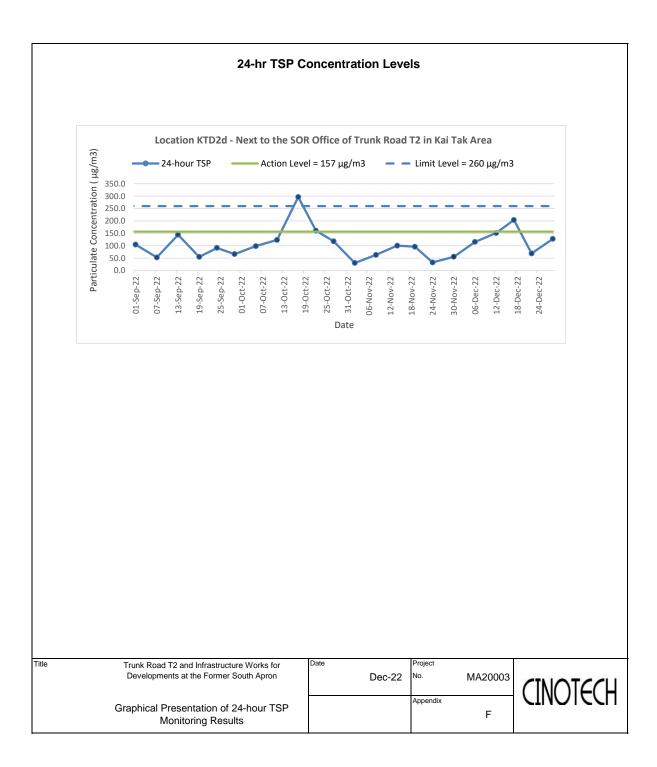
Olarit Data	Weather	Air Temp.	Atmospheric	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$	Level (µ g/m3)	Level (µ g/m3)
6-Dec-22	Fine	290.9	765.5	3.7073	3.9057	0.1983	14495.8	14519.8	24.0	1.23	1.23	1.23	1773.4	111.8		
12-Dec-22	Fine	288.4	765.1	3.6673	3.8696	0.2024	14519.8	14543.8	24.0	1.23	1.24	1.24	1779.0	113.7		
17-Dec-22	Sunny	285.5	770.1	3.3585	3.5237	0.1651	14543.8	14567.8	24.0	1.24	1.25	1.24	1791.6	92.2	172.0	260.0
22-Dec-22	Sunny	290.2	764.3	3.3642	3.5460	0.1819	14567.8	14591.8	24.0	1.23	1.23	1.23	1773.4	102.5		
28-Dec-22	Sunny	290.3	768.6	3.3573	3.6163	0.2590	14591.8	14615.8	24.0	1.23	1.24	1.23	1777.4	145.7		
Note:	Bold Italic means A	ction Level exce	edance										Min	92.2		
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	145.7		
													Average	113.2		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

	Weather	Air Temp.	Atmospheric	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit
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)	Level (µ g/m3)	Level (µ g/m3)
6-Dec-22	Fine	290.9	765.5	3.6933	3.8984	0.2051	15137.2	15161.2	24.0	1.23	1.23	1.23	1774.5	115.6		
12-Dec-22	Fine	288.4	765.1	3.6825	3.9525	0.2700	15161.2	15185.2	24.0	1.23	1.24	1.24	1780.3	151.6		
17-Dec-22	Sunny	285.5	770.1	3.3728	3.7384	0.3656	15185.2	15209.2	24.0	1.24	1.25	1.25	1793.2	203.9	157.0	260.0
22-Dec-22	Sunny	290.2	764.3	3.3653	3.4882	0.1229	15209.2	15233.2	24.0	1.23	1.23	1.23	1774.6	69.2		
28-Dec-22	Sunny	290.3	768.6	3.3747	3.6019	0.2272	15233.2	15257.2	24.0	1.23	1.24	1.24	1778.6	127.7		
Note:	Bold Italic means A	ction Level exce	edance										Min	69.2		
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	203.9		
													Average	133.6		







APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

Report No.

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

: 00168



Issue Date : 25 Jan 2022

: HP00044 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-08-11 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 23852 Microphone No. 22454 Data Racaivad 20 Jan 2022

Date Received	:	20 Jan 2022
Test Period	:	21 Jan 2022 to 21 Jan 2022
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.

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 : 25 Jan 2022

Report No.:00168Application No.:HP00044

Certificate of Calibration

Measuring

equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.2	+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.

Report No.

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

: 00171



Issue Date : 01 Apr 2022

: HP00046 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 : 25 Mar 2022

Date Received	•	
Test Period	:	30 Mar 2022 to 30 Mar 2022
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.

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 : 01 Apr 2022

Report No.:00171Application No.:HP00046

Certificate of Calibration

Measuring

equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	0.0	± 1.5
114.0	114.2	+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.

Report No.

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

: 00181



Issue Date : 24 May 2022

: HP00060 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-12-06 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580156 Microphone No. 580804 Date Received : 16 May 2022

	•	
Test Period	:	24 May 2022 to 24 May 2022
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.

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 : 24 May 2022

Report No.:00181Application No.:HP00060

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	nce value, dB Indication value, dB Dev		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.

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.

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.

Report No.

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

: 00160



Issue Date : 10 Jan 2022

: HP00040 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-08-07 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 21455 Microphone No. 22391

Date Received	:	03 Jan 2022
Test Period	:	10 Jan 2022 to 10 Jan 2022
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.

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 : 10 Jan 2022

Report No.:00160Application No.:HP00040

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	113.8	-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.

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village								
				Unit: dB				
Date	Time	Weather	Meas	sured Noise I	Construction Noise Level			
2 0.10			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Dec-22	13:00	Cloudy	70.2	73.5	54.7	72.4	70.2 Measured ≦ Baseline	
7-Dec-22	13:40	Fine	74.1	77.9	59.5	72.4	69	
13-Dec-22	9:33	Fine	72.8	76.5	62.2	72.4	62	
19-Dec-22	14:13	Sunny	71.4	74.6	62.1	72.4	71.4 Measured ≦ Baseline	
29-Dec-22	15:45	Sunny	73.9	76.2	70.9	72.4	69	

Location CKL2 - Flat 103 Cha Kwo Ling Village

				Unit: dB					
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level		
Duit	Time	weather							
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
1-Dec-22	15:06	Cloudy	68.8	72.4	48.0	71.4	68.8 Measured ≦ Baseline		
7-Dec-22	16:40	Sunny	62.4	65.9	62.2	71.4	62.4 Measured ≤ Baseline		
13-Dec-22	10:05	Fine	73.4	77.5	60.2	71.4	69		
19-Dec-22	14:51	Sunny	73.9	77.7	63.2	71.4	70		
29-Dec-22	14:34	Sunny	75.1	78.5	62.8	71.4	73		

Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)

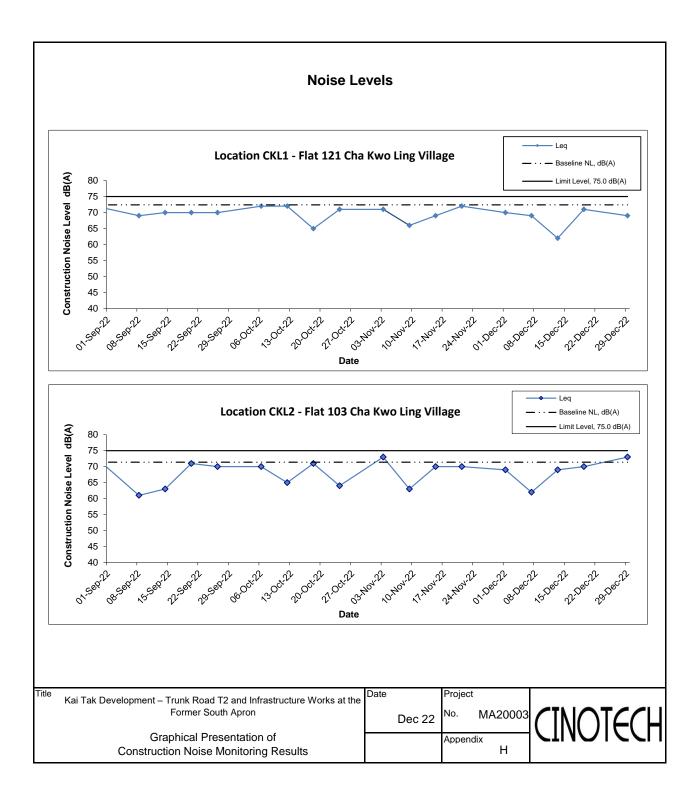
			Unit: dB (A) (30-min)						
Date Time	Time Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Date	Time	weather							
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
1-Dec-22	9:45	Cloudy	60.5	63.9	53.0	78.0	60.5 Measured ≦ Baseline		
7-Dec-22	16:11	Fine	76.7	78.8	68.3	78.0	76.7 Measured ≤ Baseline		
13-Dec-22	16:03	Fine	70.6	71.8	69.1	78.0	70.6 Measured ≦ Baseline		
19-Dec-22	11:28	Sunny	69.0	73.6	55.7	78.0	69 Measured ≤ Baseline		
29-Dec-22	12:19	Sunny	70.6	73.0	68.5	78.0	70.6 Measured ≦ Baseline		

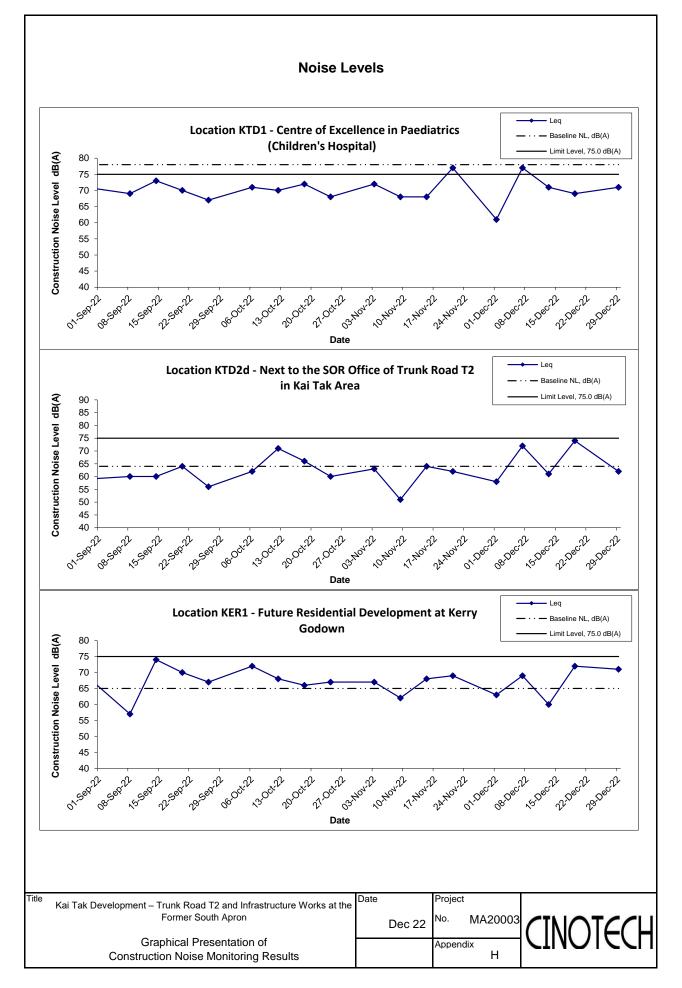
Location KER1 - Future Residential Development at Kerry Godown

			Unit: dB (A) (30-min)						
Date Time	Time Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Date	Time	weather							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
1-Dec-22	10:44	Cloudy	63.4	67.2	55.4	65.0	63.4 Measured ≦ Baseline		
7-Dec-22	15:15	Fine	70.8	72.9	64.3	65.0	69		
13-Dec-22	15:05	Fine	66.3	67.6	61.9	65.0	60		
19-Dec-22	13:21	Sunny	72.8	76.8	56.3	65.0	72		
29-Dec-22	11:15	Sunny	72.0	74.5	69.8	65.0	71		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

			Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Leve		Level	Baseline Level	Construction Noise Level	
Date	Time	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
1-Dec-22	9:02	Cloudy	58.4	60.0	56.1	64.0	58 Measured ≤ Baseline	
7-Dec-22	17:15	Fine	72.3	75.6	59.1	64.0	72	
13-Dec-22	13:02	Fine	60.7	63.6	55.2	64.0	61 Measured ≦ Baseline	
19-Dec-22	10:39	Sunny	74.0	78.6	63.9	64.0	74	
29-Dec-22	13:35	Sunny	62.1	65.1	60.4	64.0	62 Measured ≦ Baseline	





APPENDIX I SITE AUDIT SUMMARY

Contract No. ED/2018/04

Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	221201		
Date	1 December 2022 (Thursday)		
Time	09:20 - 12:00		

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
221201- R1	• Water ponding was found near the Disc cutter workshop on the access road.	<i>B9</i>
221201- R2	C. Air Quality	C20
221201 R2	• Near the footbridge area, the stockpile of more than 20 bags of cement are not covered.	C20
221201- R3	• Missing NRMM label was found in the generator near the receiving pit.	C21
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	E. Wand and Landson	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	 No environmental deficiency was identified during site inspection. 	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:221123), all item has been rectified.	

	Name	Signature	Date
Recorded by	Karina Chan	Julle	1 December 2022
Checked by	Karina Chan	Julle	2 December 2022

Contract No. ED/2018/04

Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	221208
Date	8 December 2022 (Thursday)
Time	09:20 - 12:00

Ref. No. Non-Compliance		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	
221208- R2	• Exposed stockpiles of dusty materials should be covered with impervious materials.	С9
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
221208- R1	• Construction wastes are accumulated at skip ISIG in the TBM tunnels (Eastbound).	E1
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:221201), all item has been rectified.	

	Name	Signature	Date
Recorded by	Karina Chan	Julle	8 December 2022
Checked by	Karina Chan	Julle	8 December 2022

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary

Inspection Information		
Checklist Reference Number	221215	
Date 15 December 2022 (Thursday)		
Time	09:20 – 12:00	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
221215- R1	• Stagnant water was observed at the Launching Shaft Area.	B9
221215- R2	• Muddy Water was observed at the TBM Tunnel (Eastbound).	B13
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• 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. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:221208), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Alex NG	15 December 2022
Checked by	Karina Chan	Jull	15 December 2022

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary

Inspection Information		
Checklist Reference Number	221222	
Date	22 December 2022 (Thursday)	
Time	09:20 - 12:00	

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. Construction Noise Impact	
	• 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. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:221215), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Alex NG	22 December 2022
Checked by	Karina Chan	Jull	23 December 2022

Contract No. ED/2018/04 Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	221229
Date	29 December 2022 (Thursday)
Time	09:20 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection.	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	E9
221229- R1	• No drip tray is provided for the chemical container.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:221222), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Alex NG	29 December 2022
Checked by	Karina Chan	Zelle	30 December 2022

Contract No. ED/2020/03 Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

Site Inspection Record Summary Inspection Information

inspection interior					
Checklist Reference Number	221216				
Date	16 December 2022 (Friday)				
Time	09:30 - 12:00				

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. Construction Noise Impact	
	• 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.	
	I. Others	
	• Follow up on the previous session (Ref No.:221125), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	16 December 2022
Checked by	Karina Chan	Jull	17 December 2022

APPENDIX J EVENT AND ACTION PLANS

.	Action								
Event	ET	ET IEC E		Contractor					
Action Level									
 Exceedance for one sample 	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods agreed with the ER as appropriate. 					
2. Exceedance by two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures if required; Advise the ER on the effectiveness of the proposed remedial measures; 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 					

Table J-1Event/Action Plan for Air Construction Dust Monitoring

		Ac	tion	
Event	ET	IEC	ER	Contractor
Limit level 1. Exceedance for one sample	 7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring. 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; 	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; Implement the agreed proposals; Amend proposal if
	Contractor's remedial actions and keep IEC and ER informed of the results.	5. Supervise implementation of remedial measures.		appropriate.
2. Exceedance for two or more	1. Notify IEC, ER and Contractor;	1. Discuss amongst ER, ET, and Contractor on the potential	1. Confirm receipt of notification of exceedance in	 Take immediate action to avoid further exceedance;
consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial

E		Action						
Event	ET	IEC	ER	Contractor				
samples	3. Repeat measurement to	2. Review Contractor's	2. Notify Contractor;	actions to ER and copy to the				
	confirm findings;	remedial actions whenever	3. In consolidation with the IEC	IEC and ET within three				
	4. Increase monitoring	necessary to assure their	and ET, agree with the	working days of notification;				
	frequency to daily;	effectiveness and advise the	Contractor on the remedial	3. Implement the agreed				
	5. Carry out analysis of	ER and ET accordingly;	measures to be implemented;	proposals;				
	Contractor's working	3. Supervise the	4. Ensure remedial measures	4. Resubmit proposals if				
	procedures with the ER to	implementation of remedial	properly implemented;	problem still not under				
	determine possible mitigation	measures.	5. If exceedance continues,	control;				
	to be implemented;		consider what portion of the	5. Stop the relevant portion of				
	6. Arrange meeting with IEC		work is responsible and	works as determined by the				
	and ER to discuss the		instruct the Contractor to	ER until the exceedance is				
	remedial actions to be taken;		stop that portion of work	abated.				
	7. Assess effectiveness of		until the exceedance is					
	Contractor's remedial actions		abated.					
	and keep IEC, EPD and ER							
	informed of the results;							
	8. If exceedance stops, cease							
	additional monitoring.							

Table J-2									
Event	Action								
Event	ET	IEC	ER	Contractor					
Action Level	1. Notify IEC, ER and	1. Review the monitoring data	1. Notify Contractor;	1. Submit noise mitigation					
	Contractor;	submitted by the ET;	2. Require Contractor to propose	proposals to the ER and copy					
	2. Carry out investigation;	2. Review the construction	remedial measures for	to the IEC and ET;					
	3. Report the results of	methods and proposed redial	implementation if required.	2. Implement noise mitigation					
	investigation to the IEC and	measures by the Contractor,		proposals.					
	Contractor;	and advise the ET and ER if							
	4. Discuss jointly with the ER	the proposed remedial							
	and formulate remedial	measures would be							
	measures;	sufficient.							
	5. Increase monitoring								
	frequency to check								
	mitigation effectiveness.								
Limit Level	1. Notify IEC, ER and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to					
	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;					
	2. Identify source;	remedial actions;	writing;	2. Submit proposals for					
	3. Repeat measurements to	2. Review the Contractor's	2. Notify Contractor;	remedial actions to the ER					
	confirm findings;	remedial actions whenever	3. Require Contractor to	and copy to the ET and IEC					
	4. Carry out analysis of	necessary to assure their	propose remedial measures	within 3 working days of					
	Contractor's working	effectiveness and advise the	for the analysed noise	notification;					

Table J-2Event/Action Plan for Construction Noise Monitoring

E	Action						
Event	ET	IEC	ER	Contractor			
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed			
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;			
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if			
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under			
	taken for the exceedances;		consider what portion of the	control;			
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of			
	frequency;		instruct the Contractor to stop	works as determined by the			
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is			
	the Contractor's remedial		exceedance is abated.	abated.			
	action with the ER and keep						
	the IEC informed of the						
	results;						
	8. If exceedance stops, cease						
	additional monitoring.						

Event	Action						
	ET	IEC	ER	Contractor			
Non-conformity	1. Identify Source;	1. Check report;	1. Notify Contractor;	1. Amend working methods;			
on one occasion	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake			
	3. Discuss remedial actions with	method;	are properly implemented.	any necessary replacement.			
	IEC, ER and Contractor	3. Discuss with ET and the					
	4. Monitor remedial actions until	Contractor on possible					
	rectification has been	remedial measures;					
	completed.	4. Advise ER on effectiveness					
		of proposed remedial					
		measures;					
		5. Check implementation of					
		remedial measures					

Table J-3Event/Action Plan for Landscape and Visual

Event	Action							
	ET	IEC	ER	Contractor				
Repeated	1. Identify source;	1. Check monitoring report;	1. Notify Contractor;	1. Amend working methods;				
Non-conformity	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake				
	3. Increase monitoring frequency;	method;	are properly implemented.	any necessary replacement.				
	4. Discuss remedial actions with	3. Discuss with ET and the						
	the IEC, the ER and the	Contractor on possible						
	Contractor;	remedial measures;						
	5. Monitor remedial actions until	4. Advise ER on effectiveness						
	rectification has been	of proposed remedial						
	completed;	measures;						
	6. If exceedance stops, cease	5. Check implementation of						
	additional monitoring.	remedial measures						

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stages		Status			
						D	С	0				
Air Quality Imp	act											
\$2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸			
	91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be $0.91L/m^2$ for the respective watering frequency;											
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and	-						-	N/A(1)			
	3-sided barriers around the stockpiling areas WA3 and WA4.	-						-	۸			
	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice:	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		٨			
	Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;											
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								٨			
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								*			

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	С	0	
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								*
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								٨
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								٨
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								٨
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;								۸
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
Noise Impact									
\$3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
S3.4.1.1	- Excavator, wheeled/tracked - HYUNDAI R80CR-9 Use of temporary or fixed noise barriers with a surface density of at least 10kg/m ² to screen noise from movable and stationary plant.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-	NCO / EIAO		Y		٨
S3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m ² to screen noise from generally static noisy plant such as air compressors.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
\$3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period; Mobile plant, if any, should be sited as far from NSRs as possible;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								٨
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								۸
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								٨
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality									
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		Λ
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentation	n Stages	Status
						D	С	0	
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m ³ would be required and for a flow rate of 0.5m^3 /s the basin would be 150m ³ . All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)
	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the 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;								^
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								٨
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								*
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	С	0	
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) 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;								*
	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;								٨
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and 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;								N/A(1)
	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 sited wheel washing facilities should be provided at the exit of every construction site where practicable. 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-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								٨
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								٨
	All fuel tanks and storage areas should be provided with locks and sited 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 nearby WSRs.								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	ecommended Agent asures & Main	Implementation Agent	Relevant Standard or Requirement				Status
						D	С	0	
S4.2.1.1 and 4.3.1.5	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	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)
S4.2.1.1	and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub- contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A
	Uncontaminated discharge should pass through settlement tanks prior to discharge; If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;								N/A N/A
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	C	0	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
S4.2.1.1	All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only; The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		^
	or 20% by volume stored in the area and enclosed with at least 3 sides; The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary); An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								^ N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include: All vessels should be sized so that adequate clearance is maintained between	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	vessels and the seabed in all tide conditions, to ensure that undue turbidity is not anarated by turbulance from years movement or propaller wash. All hopper barges should be fitted with tight fitting seals to their bottom openings								٨
	to prevent leakage of material; Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		٨

EM&A Ref.	Re		ded Main	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status	
						D	С	0	
\$4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	The Contractor must, also, 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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
\$4.2.1.1	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	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		^
	or spillage during storage, handling and transport; Chemical waste containers should be suitably labelled, to notify and warn the								N/A(1)
	personnel who are handling the wastes, to avoid accidents; and								IN/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
Marine Ecology									
\$5.3.1.1	Good construction practice measures have been recommended to be implemented as follows: Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;								N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)
Fisheries		•		1	1	-			
\$6.2.1.2	No fisheries specific mitigation measures.								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
Landscape and V	Visual								
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		٨
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
S7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
S7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
S7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
\$7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	nended Ag & Main	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
	roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	ensure the element with colour, texture and tonal quality being compatible to the	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritag	e		I		• 				
\$8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
Waste Managem	lent Implication						I	I	
\$9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
\$9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	Implementation Stages		Status
						D	С	0	
\$9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials		Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		N/A
\$9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		*

EM&A Ref.	Recommended Mitigation Measures		Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status	
						D	С	0	
\$9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
\$9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		*
\$9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures			Relevant Standard or Requirement	Implen	nentatio	n Stages	Status	
						D	С	0	
\$9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period		WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period		WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period		DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	, <u>,</u>	-	Relevant Standard or Requirement	Implementation Stages			Status	
						D	С	0				
\$9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	To properly store the chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		Α			
\$9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		۸			

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address Location/Timing In		Implementation Agent	on Relevant Standard or Requirement	Imple	mentatio	on Stages	Status
						D	C	0	
\$9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		٨
\$9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		٨
89.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	· · · ·	Location/Timing	nended & Main	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	С	0	
\$9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		٨

Remarks: EM	Remarks: EM&A Programme under EP-451/2013								
D	Design								
С	Construction								
Y	Yes								
0	Operation								
^	Compliance of mitigation measure;								
N/A N/A(1)	Not applicable at this stage; Not observed;								
*	Recommendation was made during site audit but improved/retified by the contractor;								
#	Recommendation was made during site audit but not yet improved/retified by the contractor;								
Х	Non-compliance of mitigation measure;								
•	Non-compliance but rectified by the contractor.								

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

Environmental Permit No.: EP-451/2013 Environmental Team for Trunk Road T2

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

Reporting Month: December 2022

Log Ref.	Location	Received Date	Details of Complaint/war ning/summon and prosecution	Investigation/Mitigation Action	Status
-	-	-	-	-	-

Remarks:

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

APPENDIX M SUMMARY OF EXCEEDANCE

Appendix M – Summary of Exceedance

Reporting Month: December 2022

(A) Exceedance Report for Air Quality

One (1) Action Level and No Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. (µg/m ³)	Level exceeded
KTD2d	17 December 2022	203.9	Action Level

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

No Action Level exceedance was recorded due to the documented complaint received in this reporting month.

Limit Level for Construction Noise

No exceedance for daytime construction noise monitoring was recorded in the reporting month.

(C) Summary of Landscape and Visual Non-Conformity

(NIL in the reporting month)

- Notification of Exceedances

NOE No. 221217_24hrTSP (KTD2d) Exceedance Level: Action

Date of Air Quality Monitoring: <u>17 December 2022</u>

Part A – Exceedance Summary Tables

Table I:Parameter(s) – 24-hour TSP

Station		Starting Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area	09:00	Sunny	203.9	157.0	260.0	Action

 Note:
 Bold Italic means Action Level exceedance

 Bold Italic with underline means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

(a) Statement of exceedance(s)

24-hour TSP monitoring measured at KTD2d on 17 December 2022 exceeded the Action level.

(b) Cause of exceedance(s)

According to the observation of our field staff on 18 December 2022, the major dust source(s) and/or reason(s) for exceedance identified at KTD2d is/are as follow:

1. It observed that a stockpile of excavated dusty material with impervious sheet was not covered thoroughly from the construction site which did not belong to BTP. (See Photo 1 & 2)

2. Dry weather

- Notification of Exceedances

Photo Record (Photo Taken by ET)



- Notification of Exceedances

Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the Action Level exceedance of 24-hour TSP recorded at station KTD2d on 17 December 2022 is due to the construction activities which does not belong to BTP Therefore, the exceedance is considered as **<u>non-project related</u>**.

Part D – Recommendation

The following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

- 1. Watering of the construction areas 12 times per day to reduce dust emissions.
- 2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
- 3. Open stockpiles shall be avoided or covered.
- 4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations
- 5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
- 6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit

Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-451/2013, the follow-up action of this exceedance is/are taken by ET as follow:

- 1. Informed the investigation result to other parties (i.e., IEC and ER).
- 2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

ivity Name	Dur	Start	Finish								2022											
				04	Septem	nber 18	25	02		tober 16 2	3 30	Novemb	er 20	27	[04	Decemt 11	nber 18	25	01	Janu 08		2
ED/2018/04 - Trunk Road T2 Dec-22	1048	30-Dec-20 A	10-Jan-25																			-
COMMENCEMENT & SITE POSSESSION DATE	65	03-Oct-22 A	03-Jan-23					• • • • • • • • • • • • • • • • • • • •		·								{				+ +
SITE POSSESSION DATE	65	03-Oct-22 A	03-Jan-23					•														· + + + + + + + + + + + + + + + + +
SOUTH APRON WEST AREA	0	03-Oct-22 A	03-Oct-22 A					•														·
Portion H2 Possession 01 January 2022 or as directed by SO	0		03-Oct-22 A		- +			; ♦ P	ortion H	2 Possessi	n 01 Ja	nuary 2022 or a	as direct	ed by §	SO							
CHA KWO LING AREA	0	03-Jan-23	03-Jan-23			+ !	+					·····					 	{ }				4
Portion S Possession 30 November 2021 or as directed by SO	0		03-Jan-23*					•								!			🔶 Porti	onSP	ossessi	on 3
Portion T2 & T3 Possession 31 March 2020 or as directed by SO	0		03-Jan-23					•											🔶 Porti			
Portion U Possession 30 November 2021 or as directed by SO	0		03-Jan-23*		- +			•		·									🔶 Porti			
Portion V Possession 30 November 2021 or as directed by SO	0		03-Jan-23*				+	•									·		🔶 Pórti			
Portion AB Possession 01 June 2022 or as directed by SO	0		03-Jan-23*					1											🔶 Porti	on AB	Posses	sior
CONTRACT KEY DATE & SITE HANDOVER DATE	54	03-Jan-23	09-Mar-23			+		• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·					'- : :							
SITE HANDOVER DATE	0	03-Jan-23	03-Jan-23		- +	÷		•														
SOUTH APRON WEST AREA	0	03-Jan-23	03-Jan-23		- +			•														
Portion A1 Handover 01 June 2022 or as directed by SO	0		03-Jan-23*		- +	<u>+</u>		•		+				·	¦-				🔶 Porti	on A'1	Handov	er (
Portion C2 Handover DOC + 796 Cd or as directed by SO	0		03-Jan-23*			<u></u>		• • • • • • • • • • • • • • • • • • • •										l	◆ Porti			
Portion D1 Handover DOC + 796 Cd or as directed by SO	0		03-Jan-23*			+		•											🔶 Porti			
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Portion F3 Handover DOC + 1099 Cd or as directed by SO	0		03-Jan-23*			<u>.</u>		· i											🔶 Pórti			
Portion F4 Handover 01 June 2022 or as directed by SO	0		03-Jan-23*		- +			•											🔶 Porti	·		
Portion H2 Handover DOC + 1099 Cd or as directed by SO	0		03-Jan-23*			+		• • • • • • • • • • • • • • • • • • • •									 		🔶 Porti			
Portion I Handover 30 November 2022 or as directed by SO	0		03-Jan-23																🔶 Porti			
Portion J1 Handover 03 June 2022 or as directed by SO	0		03-Jan-23*			+		• • • • • • • • •											🔶 Porti	on J1 I	Handove	er (
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SOUTH APRON EAST AREA	0	03-Jan-23	03-Jan-23			+																
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KEY DATE - TRUNK ROAD T2	54	03-Jan-23	09-Mar-23			+				·····												
CONTRACT COMPLETION DATES	54	03-Jan-23	09-Mar-23					•														
KD-2 Stage 1B - Depressed Road & South Apron Adit for J1/J2 H/O [DOC+1072cd]	0		03-Jan-23*					•		· · · · · · · · · · · · · · · · · · ·							 		🔶 КD-2	2 Stalae	∋ 1B - D(epr
KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707cd]	0		03-Jan-23*		- +	<u>+</u>		• • • • • • • • •		++							{ !		♦ KD-4			
KD-6 Stage 3B1 - Civil provision between AGR to SUS Tunnel for TCSS	0		07-Feb-23*			<u>.</u>	i	· :					-i i									
KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0		09-Mar-23*		-+			• †											-+			
KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0		09-Mar-23*					• • • • • • • • • • • • • • • • • • • •											-			
PLANNED COMPLETION DATES	0	03-Jan-23	03-Jan-23					•														
KD-1 Stage 1A - Design Approval for Stage 1B [DOC+464cd]	0		03-Jan-23*					•							i-				🔶 KD-1	Stalge	∋ 1A - Dr	esio
KD-3 Stage 2A - Design Approval for Stage 2B [DOC+405cd]	0		03-Jan-23*		- +			• • • • • • • • • • • • • • • • • • • •		+					¦- 			{	🔶 KD-3			
KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707cd]	0		03-Jan-23				+	•		· · · · · · · · · · · · · · · · · · ·									🔶 КФ-4			
KEY DATE - STAGE 5 INFRASTRUCTURE WORKS & JUNCTION IMPR	45	03-Jan-23	16-Feb-23					1							i-			i				
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LANDSCAPE SOFTWORKS	0	03-Jan-23	03-Jan-23		- +	+		•														
KD-23 Section 9A - Road S20 & KFR Landscape Softworks [DOC+796cd]	0		03-Jan-23*		- +			•											♦ KD-2	23 Sect	tion 9A -	R
KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+704cd]	0		03-Jan-23*					·											🔶 КФ-2			
ROAD & DRAIN RELATED WORKS	0	03-Jan-23	03-Jan-23					•														
KD-22A Section 8E - CKLR/WYS/WFS Junction Modification [310ct20]	0		03-Jan-23*					•											♦ KD-2	2A Se	ction 8F	- (
KD-14 Section 6A - Road S20, Drainage, Outfall 1 & CUE for AMAWBC [DOC+796cd]	0		03-Jan-23*		- +			• • • • • • • • • • • • • • • • • • • •										{{ }	◆ KD-1			
KD-15 Section 6B [STE] - DCS for AMAWBC [DOC+734cd]	0		03-Jan-23*			<u>.</u>		· i											🔶 KD-1			
KD-16 Section 6C - Drainage & Outfall 2 within H1/H2 [DOC+1099cd]	0		03-Jan-23*					•											♦ KD-1	·		
KD-22 Section 8D [STE] - HBR/CYS/WCR Junction Modification [DOC+704cd]	0		03-Jan-23*			+		• • • • • • • • • • • • • • • • • • • •											🔶 КĎ-2			
ESTABLISHMENT WORKS	15	03-Jan-23	17-Jan-23	1			+	•														
KD-35 Section 10F [STE] - HBR/CYS/WCR Establishment Works [DOC+1069cd]	0		03-Jan-23*					•											🔶 КD-3	35 Séct	tion 10F	[S
KD-30 Section 10A - Road S20 Establishment Works [DOC+1161cd]	0		17-Jan-23*	+ - 		+		•		+							 	{ }	-+		♦ KD-3	
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PLANNED COMPLETION DATES	45	03-Jan-23 16-Feb-23		
LANDSCAPE SOFTWORKS	0	03-Jan-23 03-Jan-23		
KD-23 Section 9A - Road S20 & KFR Landscape Softworks [DOC+796cd]	0	03-Jan-23	♦ KD-23 Section 9A - Road S20 & KFR Landscape Softworks [DOC+796cc	dl
KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+704cd]	0	03-Jan-23	♦ KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+7]	
ROAD & DRAIN RELATED WORKS	45	03-Jan-23 16-Feb-23		
KD-22A Section 8E - CKLR/WYS/WFS Junction Modification [310ct20]	0	03-Jan-23	◆ KD-22A Section 8E - CKLR/WYS/WFS Junction Modification [31Oct20]	
KD-14 Section 6A - Road S20, Drainage, Outfall 1 & CUE for AMAWBC [DOC+796cd]	0	03-Jan-23	♦ KD-14 Section 6A - Road S20, Drainage, Outfall 1 & ¢UE for AMAWBC	[DOC+796m]
KD-15 Section 6B [STE] - DCS for AMAWBC [DOC+734cd]	0	03-Jan-23	◆ KD-15 Section 6B [STE] -DCS for AMAWBC [DOC+734¢d]	
KD-22 Section 8D [STE] - HBR/CYS/WCR Junction Modification [DOC+704cd]	0	03-Jan-23	♦ KD-22 Section 8D [STE] -HBR/CYS/WCR Junction Modification [DOC+7	704cd1
KD-16 Section 6C - Drainage & Outfall 2 within H1/H2 [DOC+1099cd]	0	16-Feb-23		e & Outfall 2 within H1/H2 [DOC+1099cd
DESIGN SUBMISSION & APPROVAL	566	30-Dec-20 A 29-May-23		
GENERAL	566	30-Dec-20 A 29-May-23		
Ground Investigation Report - Kai Tak Area	24	30-Dec-20 A 14-Jan-23		
			Ground Investigation Report Vol/1 - 2nª Sub Review	
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DDA - Draft - Preparation by Designer DAP - WVB	48	16-Mar-23 16-May-23		
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ACABAS- EVB	48	23-Mar-23 23-May-23		
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ACABAS- Kiosk	48	28-Mar-23 29-May-23		
DDA - Draft - Preparation by Designer	48	28-Mar-23 29-May-23		
DDA Lands cape Design	258	15-Mar-22 A 13-Feb-23		
DDA - Further information required by SO	24	15-Mar-22 A 25-May-22 A		
DDA - 3rd Sub	0	25-May-22 A		
DDA - 3rd Review by SO	35	26-May-22 A 27-Jun-22 A		
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DDA - SO Consent for Construction	0	13-Feb-23	◆ DDA - SQ Consent for Construc	tion
DEPRESSED ROAD [DPR]	89	11-Mar-22 A 04-May-22 A		
DDA DPR - Portal Structure	89	11-Mar-22 A 04-May-22 A		
DDA - 3rd Review by SO	35	11-Mar-22 A 31-Mar-22 A		
DDA - Further information required by SO	12	01-Apr-22 A 06-Apr-22 A		
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WEST VENTILATION BUILDING [WVB]	510	14-May-21 A 22-Mar-23		
DDA WVB - ABWF	427	11-Sep-21 A 22-Mar-23		
DDA - Review by SO	28	11-Sep-21 A 08-Jan-23		
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DDA - 2nd Review by SO	35	20-Jun-21 A 14-Jan-23	DDA- 2nd Review by SO	
Page 2 of 29 Milestone Planned Bar Critical Activity Actual Milestone Actual Work 		fc	Trunk Road T2 and Infrastructure Works r Developments at South Apron Months Rolling Programme (Dec-22)	Checked Approved WYu SPa/LLo SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu
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SOUTH APRON ROAD WORKS	420	11-Nov-21 A	27-Mar-23														
DDA Road L10(S) - Alignment, Traffic Sign, Road Marking and Traffic	i 172	11-Nov-21 A	08-Jun-22 A														
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DDA Road L10(S) - Roadworks and Street Furniture	209	18-Nov-21 A				·											
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DDA-Kiosk	311	16-Feb-22 A				·									·	L	
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[STE] DDA KHR Modification - Permanent Utility Design	176						i i •								·		
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[STE] DDA KHR Modification - Alignment, Traffic Sign, Road Marking	a 108	25-Mar-22 A	16-Jun-22 A						1								
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[STE] DDA KHR Modification - Roadworks and Street Furniture	157	12-Mar-22 A				·		· · · · · · · · · · · · · · · · · · ·					+			}	
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Three Months Rolling Programme (Dec-22)

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DDA - SO Consent for Construction	0		24-Aug-22 A		23
[STE] DDA KHR Modification - Street Lighting	225	31-Mar-22 A	0		
DDA - 2nd Review by SO	35		06-Apr-22 A		
DDA - Further information required by SO	12		06-Jun-22 A		
DDA - 3rd Sub	0	0111012211	06-Jun-22 A		
DDA - 3rd Review by SO	35	07-Jun-22 A	27-Jun-22 A		
DDA - Further information required by SO	12	28-Jun-22 A	07-Sep-22 A	DDA - Further/information required/by SO	
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DDA - SO Consent for Construction	0		22-Dec-22 A	◆ DDA - \$0 Consent for Construction	!
[STE] DDA Road L10 (N) - Perma nent Utility Design	241	24-Mar-22 A	12-Oct-22 A		
DDA - Further information required by SO	12	24-Mar-22 A			
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DDA - 5th Review by SO	35	21-Anr-22 A	28-May-22 A		
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DDA - 7th Review by SO	35	17-Mar-22 A	11-Apr-22 A		
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SUPPORTING UNDERGROUND STRUCTURE [SUS]	132				
DDA SUS - Internal Structure	132	30-Mar-22 A	25-Jul-22 A		
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C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	404	17-Jul-21 A	13-Oct-22 A		
DDA - C& C/LS Permanent Structure (C&C) (SG Scheme)	404	17-Jul-21 A	13-Oct-22 A		
DDA - Further information required by SO	39	17-Jul-21 A	12-May-22 A		
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for Developments at South Apron

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22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

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SUB-SEATBM TUNNEL	309	12-Jan-22 A 13-Feb-23		
FER - Fire Engineering Report (SG Scheme)	309	12-Jan-22 A 13-Feb-23		
FER - Further information required by SO	48	12-Jan-22 A 21-May-22 A		
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Page 5 of 29 Data Date: 03-Jan-23		fo	Trunk Road T2 and Infrastructure Works or Developments at South Apron	DateRevisionCheckedApproved18-Dec-1900V1WYu22-Feb-2001V0SPa/LLoWYu09-Apr-2001V1SPa/LLoWYu17-Jul-2001V2SPa/LLoWYu09-Oct-2001V3SPa/LLoWYu17-Jul-2001V3SPa/LLoWYu
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1.1.42 Monthly Remaining value of this Cost Centre 1 Month 34	0		13-Sep-22 A 13-Oct-22 A		· · · · ·				L ⁻ .			L l l		st Centre 1 Month 35			
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1.1.42 Monthly Remaining value of this Cost Centre 1 Month 36			13-Nov-22 A									· · · · · · · · · · · · · · · · · · ·		♦ 1.1.42 Month)
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 37	0		13-Dec-22 A			+		+						▼ 1.1.42 WOILII		♦ 1.1.42 Mon	+
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 38	0		13-Jan-23*			+										■ 1.1.4 Z IVIOI	
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 39	0		13-Feb-23*						.								
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 40	0		13-Mar-23*			¦		l									
2.1 Geotechnical Instrumentation and Monitoring Works	0	03-Jan-23	03-Jan-23			¦ ¦	-+	ļ									
2.1 .5 Submit Monitoring report	0		03-Jan-23*			¦ !		ļ				ļ				Submit Monitor	17-
2.1 .6 Approval Monitoring report	0		03-Jan-23*					<u> </u>							🔶 2.1 .6 A	Approval Monit	toring
2.1.7 Complete whole activities of this cost centre	0		03-Jan-23*			¦ 		ļ!							◆ 2.1 .7 (Complete who	le ac
3.1 for Trunk Road T2	97	13-Aug-22 A	03-Jan-23			-											
3.1.51 Submit DDA for completion of SUS	0		13-Aug-22 A	DA for	complet	ion of	SUS	E									
3.1.52 Approval DDA for completion of SUS	0		13-Aug-22 A	DDA fo	rcompl	etion c	ofSUS										
3.1 .8 Approval DDA for the At-grade Road Works	0		13-Oct-22 A			+		1.		♦ 3.1	8 Approv	al DDA for the At-g	rade Road	Works			
3.1 .36 Approval DDA for Drill-and-break Tunnel	0		13-Oct-22 A	 	- 	+		†‡ :				val DDA for Drill-a					· -
3.1.53 Submit AIP for remaining works	0		03-Jan-23			+	- +	1:				• - ii			♦ 3.1.53	Submit AIP fo	or rer

Data Date: 03-Jan-23

Milestone
 Planned Bar
 Critical Activity
 Actual Milestone

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

	February	2023)	March				April	
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	¦♦ 1.1¦.42 Mo	nthly	Remain					1 Month 39	
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Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

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				Septer	mber 18 25	02	October 09 16		November 0 06 13 20 2	Decei 27 04 11		01	Janu 08		22 29	Fe 0 05	ebruary 12	19 2	26 1	Marc 05 12		02	April 09 16 23
3.1 .54 Approval AIP for remaining works	0		03-Jan-23		10 20		00 10	20 0				-		-		maining wa		13 2					00 10 20
3.1.55 Submit DDA for remaining works	0		03-Jan-23													naining wo							
3.1.56 Approval DDA for remaining works	0		03-Jan-23			1										maining w							
3.1.57 Complete whole activities of this cost centre	0		03-Jan-23		$\frac{1}{1}$ $\frac{1}{1}$	+++										ivities of th		centre		!			
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (South	E 127	13-Jul-22 A	03-Jan-23		· + +																		
3.3.8 Approval DDA for roadworks	0	10 001 22 7	13-Jul-22 A		·												·						
	0		03-Jan-23		· -	+++-						22	4 Appr/			norandum	·						
3.3.4 Approval Design memorandum 3.3.6 Approval AIP for roadworks	0			·	· · · · · · · · · · · · · · · · · · ·	- <u>-</u> <u>-</u> <u>-</u>									² for road		<u>-</u>						
3.3 .7 Submit DDA for roadworks	0		03-Jan-23 03-Jan-23		++	++									for roady		·						
	0															ndscapev	worko			. 			
3.3.24 Approval DDA for landscape works	0		03-Jan-23		· • • • • • • • • • • • • • • • • • • •										+	++	+						
3.3.25 Complete activity of this cost centre	0	40 1 1 00 4	03-Jan-23									3.3.	.25 Con	npiete a		this cost o	centre						
3.5 for Lam Chak Street and Kai Hing Road	127	13-Jul-22 A	03-Jan-23		· + +												·			·	·		
3.5 .7 Submit DDA for roadworks	0		13-Jul-22 A			ļ											. 						
3.5 .11 Submit DDA for storm water drainage works	0		13-Jul-22 A	orks	<u> </u>	ļ											·						
3.5 .8 Approval DDA for roadworks	0		13-Sep-22 A		8.5.8 Approva	44											·						
3.5 .12 Approval DDA for storm water drainage works	0		13-Sep-22 A		3.5 .12 Approv	++			works														
3.5 .15 Submit DDA for waterworks	0		13-Sep-22 A		8.5 .15 Submit	++	! !				·					<u>+</u> +	·	 	·	·			
3.5 .19 Submit DDA for sewage works	0		13-Sep-22 A		3.5 .19 Submit	++													<u>.</u>				
3.5 .20 Approval DDA for sewage works	0		13-Sep-22 A		3.5 .20 Approv	++					· · · · · · · · · · · · · · · · · · ·					++	·			·			
3.5 .23 Submit DDA for landscape works	0		13-Sep-22 A		8.5 .23 Submit	+								¦			·		¦	·			
3.5 .24 Approval DDA for landscape works	0		13-Sep-22 A	♦ 3	8.5 .24 Approv	/al DDA fo	or land scape	works	· · · · · · · · · · · · · · · · · · ·							++							
3.5 .16 Approval DDA for waterworks	0		03-Jan-23		· + +	; ; ; ; .		 					!:-			aterworks				·			
3.5 .25 Complete whole activities of this cost centre	0		03-Jan-23		İ	ļi			· · · · · · · · · · · · · · · · · · ·			3.5.	25 Con	nplete w	vhole acti	ivities of th	his cost c	entre				-	
3.6 for Road L10 (Northern Section)	52	18-Nov-22 A	03-Jan-23																	1			
3.6 .8 Approval DDA for Road L10 (northern section)	0		18-Nov-22 A						◆ 3.6 .8 Ap	proval DDA for R	load L10 (norther r	n sectic	on)										
3.6 .9 Complete whole activities of this cost centre	0		03-Jan-23*		· · · · · · · · · · · · · · · · · · ·						4	3.6 .	9 Com	plete wł	nole activ	ities of thi	is costice	entre					
3.9 for the Pipelines for District Cooling System for Commissioning of	. 75	13-Sep-22 A	03-Jan-23																				
3.9.11 Submit O&M manual for DCS pipelines	0		13-Sep-22 A		.9.11 Submit	0&M ma	nual for DCS	pipelines															
3.9.12 Approval O&M manual for DCS pipelines	0		03-Jan-23		+							3.9.1	12 Appr	roval O	&M manu	al for DC	Spipelin	es					
3.9.13 Complete whole activities of this cost centre	0		03-Jan-23		· 1 1											vities of th							
3.10 Remaining Pipelines for District Cooling System Other Than for C	: 0	03-Jan-23	03-Jan-23		· · · · · · · · · · · · · · · · · · ·				Ia					·•							- L L I I I I I		
3.10.11 Submit O&M manual for remaining DCS pipelines	0		03-Jan-23									310) 11 Suł	hmit ິດ&	Mmanua	alforrema	aining D(CS nine	lines				
3.10.12 Approval O&M manual for remaining DCS pipelines	0		03-Jan-23		++	ł					· -jj					ual for rer							
3.10.13 Complete whole activities of this cost centre	0		03-Jan-23			+ ÷ • •				-						tivities of t	·						
3.14 for Common Utilities Enclosure (CUE) under Section 13 and Anci		03-Jan-23	03-Jan-23									0.10											
		03-3411-23			+							214					·						
3.14.8 Approval DDA for CUE	0	00 5 1 00	03-Jan-23									3.14	i.o Appr		DA for CL	JE	·						
4.1 South Apron Adits from Interface with the Depressed Road to the I	r 27	22-Feb-23	25-Mar-23	·	· 	ļ						·											
4.1.1 Complete mobilization of excavation equipment 0.5	0		22-Feb-23			ļ												◆ 4.1.1					quipment 0.5
4.1.3 Complete excavation of South Apron Adist 0.2	0		08-Mar-23		· .	ļ																	South Apron Adist 0
4.1.4 Complete excavation of South Apron Adist 0.4	0		10-Mar-23		· .												·			!			of South Apron Adis
4.1.8 Complete South Apron Adist permanent structure 0.2	0		11-Mar-23	· · · · · · · · · · · · · · · · · · ·	i i 						· · ·								k				on Adist permanent s
4.1.5 Complete excavation of South Apron Adist 0.6	0		13-Mar-23		· 	ļ			· · · · · · · · · · · · · · · · · · ·								·						on of South Apron A
4.1.6 Complete excavation of South Apron Adist 0.8	0		15-Mar-23			ļ																	tion of South Apron
4.1.7 Complete excavation of South Apron Adist 1	0		16-Mar-23		; ; ; ;	ļį											·			•			ation of South Apro
4.1.9 Complete South Apron Adist permanent structure 0.4	0		25-Mar-23			.															• 4.′	.9 Comple	te South Apron Adis
4.2 Depressed Road and Remaining Ventilation Adits at the South Apro	0	03-Jan-23	03-Jan-23		· · · · · · · · · · · · · · · · · · ·																		
4.2 .23 Complete foundation of Depressed Road by length 1	0		03-Jan-23*													n of Depre							
4.2 .31 Complete permanent structure of Depressed Road by length 1	0		03-Jan-23*																Road b	oylength 1			
4.2 .32 Complete whole activities of this cost centre 1	0		03-Jan-23									4.2.	32 Con	nplete w	vhole acti	ivities of th	his cost c	centre 1		- F	· · · · · · · · · · · · · · · · · · ·		
5.1 Cut-and-Cover Tunnel at South Apron	24	13-Sep-22 A	13-Dec-22 A																				
5.1 .27 Complete base slab of Cut-and-cover Tunnel by length 1	0		13-Sep-22 A	♦ {	5.1 .27 Compl	ete base s	slab oʻf Cut-a	nd-cover	Funnel by length 1					 	+				L 				·
5.1 .30 Complete internal wall of Cut-and-cover Tunnel by length 0.3	0		18-Nov-22 A			II				omplete internal	wall of Cut-and-co	overTu	unneliby	y length	0.3		·					-	
5.1 .28 Complete internal wall of Cut-and-cover Tunnel by length 0.1	0		18-Nov-22 A			††					I wall of Cut-and-c			I .			·						
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Page 8 of 29																		ate		Revision		ecked	Approved
Data Date: 03-Jan-23		ED/2	<u>018/0/</u>	Trun	Roa	T h	2 and	1 Inf	rastructure	Marka	s						18-Dec		00		W Yu	1.0	
Critical Activity			_				_	_									22-Feb		01		SPa/L		W Yu
Actual Wilestone			fo	۲ Deve	elopm	nent	s at S	Sout	h Apron								09-Apr		01		SPa/L		W Yu
					•				•								17-Jul-		01		SPa/L		W Yu
		-	Three I	Month	s Rol	lina	Prog	Iram	me (Dec-2	2)							09-Oct		01		SPa/L		W Yu
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iivity Name	Dur	Start	Finish				2022					2023			
				Septen	nber 18 25	October 02 09 16 23	November 30 06 13 20 2	Decen		01	January 08 15 22	February 29 05 12 19 26 05	March	02 0	April)9 16 2
5.1.29 Complete internal wall of Cut-and-cover Tunnel by length 0.2	0		18-Nov-22 A		10 20	02 03 10 23				_	unnel by length 0.2		12 19 20		
5.1.31 Complete internal wall of Cut-and-cover Tunnel by length 0.4	0		18-Nov-22 A							·	unnel by length 0.4		- -		· l
5.1.32 Complete internal wall of Cut-and-cover Tunnel by length 0.5	0		18-Nov-22 A				♦ 5.1.32 C	omplete internal	wall of Cut-ar	nd-cover T	unnel by length 0.5			-	
5.1.33 Complete internal wall of Cut-and-cover Tunnel by length 0.6	0		13-Dec-22 A		++			♦ 5.	1.33 Comple	te internal	wall of Cut and cov	rer Tunnel by length 0.6			·¦'
5.1.34 Complete internal wall of Cut-and-cover Tunnel by length 0.7	0		13-Dec-22 A					♦ 5.	1.34 Comple	te internal	wall of Cut-and-cov	er Tuhnel by length 0.7			·
5.1 .35 Complete internal wall of Cut-and-cover Tunnel by length 0.8	0		13-Dec-22 A					♦ 5.	1.35 Comple	te internal	wall of Cut-and-cov	rer Tunnel by length 0.8			
5.1 .36 Complete internal wall of Cut-and-cover Tunnel by length 0.9	0		13-Dec-22 A					♦ 5.	1.36 Comple	te internal	wall of Cut-and-cov	er Tuhnel by length 0.9			·
5.1.37 Complete internal wall of Cut-and-cover Tunnel by length 1	0		13-Dec-22 A					◆ 5.	1.37 Comple	te internal	wall of Cut and cov	er Tuhnel by length 1			·
5.2 Completion of SUS	23	13-Dec-22 A	03-Jan-23												
5.2 .5 Complete overhead ventilation duct slab by length 0.1	0		13-Dec-22 A		++-			♦ 5.	2.5 Complete	eoverhead	d ventilation duct sla	ıb by length 0.1			· ¹
5.2 .6 Complete overhead ventilation duct slab by length 0.2	0		03-Jan-23							♦ 5.2.	6 Complete overhea	ad ventilation duct slab by length 0.2			
5.2 .7 Complete overhead ventilation duct slab by length 0.3	0		03-Jan-23		· · · · · · · · · · · · · · · · · · ·					♦ 5.2.	7 Complete overhea	ad ventilation duct slab by length 0.3			
5.2 .8 Complete overhead ventilation duct slab by length 0.4	0		03-Jan-23							♦ 5.2.	8 Complete overhea	ad ventilation duct slab by length 0.4			· l
5.2 .9 Complete overhead ventilation duct slab by length 0.5	0		03-Jan-23						1 1	♦ 5.2.	9 Complete overhea	ad ventilation duct slab by length 0.5			
5.2 .25 Complete remaining works in SUS by length 0.1	0		03-Jan-23							♦ 5.2.	25 Complete remain	hing works in SUS by length 0.1			· ¦
5.2 .26 Complete remaining works in SUS by length 0.2	0		03-Jan-23							♦ 5.2.	26 Complete remain	hing works in SUS by length 0.2			
5.2 .27 Complete remaining works in SUS by length 0.3	0		03-Jan-23		††+i					♦ 5.2.	27 Complete remain	hing works in SUS by length 0.3			
5.2 .28 Complete remaining works in SUS by length 0.4	0		03-Jan-23		++ 					♦ 5.2.	28 Complete remain	hing works in SUS by length 0.4	- L L L L L L L L L		·
5.2 .29 Complete remaining works in SUS by length 0.5	0		03-Jan-23		·				-ii ! !	♦ 5.2.	29 Complete remain	hing works in SUS by length 0.5			
6.2 TBM Tunnel	212	13-Jun-22 A	24-Mar-23												· ¹
6.2.2 Complete excavation & installation of TBM Tunnel lining by length 0.1	0		13-Jun-22 A		++										
6.2.21 Complete TBM Tunnel waterproofing 0.1	0		13-Jun-22 A												
6.2.3 Complete excavation & installation of TBM Tunnel lining by length 0.15	0			Tunnel linina	by length 0.15		÷								
6.2.4 Complete excavation & installation of TBM Tunnel lining by length 0.2	0		13-Sep-22 A			excavation & installation of	TBM Tunnel lining by length C				·····				
6.2 .5 Complete excavation & installation of TBM Tunnel lining by length 0.25	0		13-Sep-22 A		**-*		TBM Tunnel lining by length C								·
6.2.22 Complete TBM Tunnel waterproofing 0.2	0		13-Sep-22 A			e TBM Tunnel waterproofin		F							
6.2 .6 Complete excavation & installation of TBM Tunnel lining by length 0.3	0		13-Oct-22 A				te excavation & installation of	TBM Tunnel linin	a by len'ath 0.	3					
6.2.7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		13-Oct-22 A		† <u>†</u>		te excavation & installation of								
6.2.23 Complete TBM Tunnel waterproofing 0.3	0		13-Oct-22 A				lete TBM Tunnel waterproofing								
6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		18-Nov-22 A		++				n & installation	n of TBM 1	Tunnel lining by leng	ath 0.4			
6.2.24 Complete TBM Tunnel waterproofing 0.4	0		18-Nov-22 A		÷			omplete TBM Tu	1 1						
6.2.9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0		13-Dec-22 A								on & installation of]	BM Tunnel lining by length 0,45			
6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5	0		13-Dec-22 A		++		⊧- <mark></mark>					TBM Tunnel lining by length 0.5			
6.2.25 Complete TBM Tunnel waterproofing 0.5	0		13-Dec-22 A								unnel waterproofing				
6.2 .31 Complete TBM Tunnel overhead ventilation duct slab 0.1	0		07-Jan-23									3M Tunnel overhead ventilation duct sla	ы 01		
6.2.11 Complete excavation & installation of TBM Tunnel lining by length 0.55	0		06-Feb-23		++			+				♦ 6.2 11 Complete excavation		1 Tunnel linir	na by lenath 0
6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6	0		13-Feb-23									♦ 6.2 .12 Complete exca	- + +		
6.2.26 Complete TBM Tunnel waterproofing 0.6	0		13-Feb-23		† <u>†</u>			+	<u> </u>			♦ 6.2.26 Complete TBM			
6.2.41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1	0		14-Feb-23									♦ 6.2 .41 Complete TBI			nel lining 0.1
6.2 .32 Complete TBM Tunnel overhead ventilation duct slab 0.2	0		20-Feb-23									◆ 6.2 .32 Comple			
6.2 .13 Complete excavation & installation of TBM Tunnel lining by length 0.65	0		23-Feb-23		++								plete excavation & i		
6.2.14 Complete excavation & installation of TBM Tunnel lining by length 0.7	0		06-Mar-23										2 .14 Complete exc		
6.2.27 Complete TBM Tunnel waterproofing 0.7	0		06-Mar-23		++		¦¦¦¦¦	+					2 .27 Complete TBI		
6.2 .15 Complete excavation & installation of TBM Tunnel lining by length 0.75	0		23-Mar-23												excavation &
6.2.42 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.2	0		24-Mar-23		++										e TBM Tunnel
6.3 Cross Passages for TBM Tunnel	57	03-Jan-23	14-Mar-23		+++			+		+++					
6.3 .4 Complete Ground treatment for all Cross Passages 0.1	0		03-Jan-23		÷		· · · · · · · · ·		÷	• 63	4 Complete Groups	treatment for all Cross Passages 0.1		-	·
6.3 .5 Complete Ground treatment for all Cross Passages 0.1	0		03-Jan-23							·		treatment for all Cross Passages 0.2			·
6.3 .6 Complete Ground treatment for all Cross Passages 0.2	0		03-Jan-23					+	<u> </u>	·		treatment for all Cross Passages 0.2		· [· · · · · · · · · · · · · · · · · ·	
6.3 .14 Complete excavation and support of Cross Passages 0.3	0		03-Jan-23		÷							ation and support of Cross Passages () 1		·
6.3 .15 Complete excavation and support of Cross Passages 0.1	0		03-Jan-23									ation and support of Cross Passages (· <mark>-</mark>
6.3 .7 Complete Ground treatment for all Cross Passages 0.2	0		03-5aii-25 02-Feb-23		+			+				♦ 6.3.7 Complete Ground treatment	_ L L	ages 0.4	
6.3 .16 Complete excavation and support of Cross Passages 0.3	0		02-1 eb-23									◆ 6.3 .16 Complete excavation and		- [3
6.3 .17 Complete excavation and support of Cross Passages 0.3	0		03-Feb-23		++			+					6.3 .17 Complete e	- -	
			00 WUI-20											ecked	Approved
Page 9 of 29												18-Dec-19 00V1	WYu		, ippi uved
Data Date: 03-Jan-23		FD/2	018/04	Trunk	Road	d T2 and Ir	ofrastructure	Works	3			22-Feb-20 01V0			N Yu
Actual Miestone			_			_			-			09-Apr-20 01V0	SPa/L SPa/L		NYu
Actual Work			tor	Deve	elopmo	ents at Sou	ith Apron					17-Jul-20 01V1			NYu
				_	-	_	•	-)				09-Oct-20 01V2			NYu
		-	Three M	lonth	s Roll	ing Program	mme (Dec-2	2)				02-Jul-21 02V0			NYu
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vity Name	Dur	Start	Finish		Cent	har			tak -		-		a				D:	a k -			,		
				04	Septem 11	ber 18 25	02	00 09	tober 16	23	30	N 06	lovemb	er 20	27	04	Decen	nber 18	25	01	Ja 08	anuary 15 22	2
6.3 .8 Complete Ground treatment for all Cross Passages 0.5	0		14-Mar-23		•																		
7.1 Western Ventilation Building	97	13-Jun-22 A	13-Sep-22 A																				
7.1 .5 Complete pile foundation for WVB 0.5	0		13-Jun-22 A		1				· · · · · · ·													JJ 	
7.1 .6 Complete pile foundation for WVB 1	0		18-Jun-22 A																		,		
7.1 .7 Complete concrete works of gross plan area for WVB 0.25	0		13-Sep-22 A		♦ 7.	1.7 Complet	e conci	rėte wo	rks of gro	oss pl	an are	a for W	VΒ 0.	2¦5									
8.1 Eastern Ventilation Building	0	13-Sep-22 A	13-Sep-22 A																				
8.1.3 Complete excavation for EVB 1	0		13-Sep-22 A		♦ 8.	1.3 Complet	e exca	vation f	or EVB	1											 - 		
9.1 Launching Shaft	0	03-Jan-23	03-Jan-23																				
9.1 .18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0		03-Jan-23		÷		÷													• 9.	1 .18 C	omplete pe	ərmai
9.1 .19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0		03-Jan-23		1				· · · · · · · · · · · · · · · · · · ·		·									• 9.	1.190	omplete pe	ərma
9.1 .20 Complete permanent wall & bottom slab for Launching Shaft by length 0.6	0		03-Jan-23						[• 9.	1 .20 C	omplete pe	ərma
9.1.21 Complete permanent wall & bottom slab for Launching Shaft by length 0.8	0		03-Jan-23																	• 9.	1 .21 C	omplete pe	ərmai
9.1 .22 Complete permanent wall & bottom slab for Launching Shaft by length 1	0		03-Jan-23																	• 9.	1 .22 0	omplete pe	ərmaı
9.1 .23 Complete permanent top slab for Launching Shaft by length 0.2	0		03-Jan-23																	• 9.	1 .23 C	omplete pe	ərmaı
9.1 .24 Complete permanent top slab for Launching Shaft by length 0.4	0		03-Jan-23		1			!			[-	1			• 9.	1.24 C	omplete pe	ərmai
11.1 Drill and Break Tunnel	233	13-May-22 A	16-Mar-23		1									1							1		
11.1.2 Complete tunnel excavation 0.4 by length	0		13-May-22 A																				
11.1.2 Complete tunnel excavation 0.5 by length	0		13-Jun-22 A		1																		
11.1.3 Complete tunnel excavation 0.6 by length	0		13-Jul-22 A	pth	+																		+-
11.1.5 Complete tunnel excavation 0.7 by length	0		13-Sep-22 A		♦ 1'	.1.5 Comple	te tunn	el exca	vation 0.	.7 by I	length												
11.1.7 Complete tunnel excavation 0.8 by length	0		18-Nov-22 A		1		-	-						11.1.	Com	pljete tu	nnel ex	cavatio	oņ¦0.8 b	y lengt	h		
11.1.9 Complete tunnel excavation 0.9 by length	0		16-Mar-23]]	
12.1 Drill and Blast Tunnel	0	13-Apr-22 A	13-Apr-22 A		1							-									1		
12.1.11 Complete tunnel excavation 1 by length	0		13-Apr-22 A																				
12.2 Cross Passages for Drill and Blast Tunnel	0	24-Mar-23	24-Mar-23	-																		· · · ·	
12.2.1 Complete cross passages structure by length 0.1	0		24-Mar-23		+																		
13.1 Lam Tin Interchange Works	37	03-Jan-23	18-Feb-23	1	÷																		·
13.1.1 Complete foundation	0		03-Jan-23*		+		+		·		+			÷						• 13	.1.1C	omplete fo	unda
13.1.2 Complete fabrication of structural frame	0		03-Jan-23*		<u>.</u>															13	.1.20	omplete fa	brica
13.1.3 Complete installation of structural frame	0		18-Feb-23*						[
15.0 E&M Design Works	33	03-Jan-23	13-Feb-23		+		+																
15.0 .10 Approval DDA for electrical system (power supply)	0		03-Jan-23		+		+				 									• 15	.0 .10	Approval D)DA fo
15.0 .14 Approval DDA for Tunnel extra low voltage system	0		03-Jan-23		+		+													• 15	.0 .14	Approval D)DA fc
15.0 .42 Approval DDA for APS in WVB	0		03-Jan-23		 ! !															• 15	.0 .42	Approval D)DA fo
15.0.6 Approval DDA for tunnel ventilation system	0		06-Feb-23		1																		
15.0 .26 Approval DDA for Tunnel lighting system	0		06-Feb-23		,																		
15.0 .30 Approval DDA for remaining tunnel and at-grade E&M systems	0		06-Feb-23											-									
15.0 .34 Approval DDA for E&M in WVB	0		06-Feb-23									-											
15.0 .38 Approval DDA for E&M in EVB	0		06-Feb-23					[]					
15.0 .18 Approval DDA for Tunnel fire services system	0		13-Feb-23									{		-		-		1	-				
15.0 .22 Approval DDA for Tunnel plumbing & drainage	0		13-Feb-23											<u>.</u>]		_		<u>.</u>	
15.0 .43 Complete whole activities of this cost centre	0		13-Feb-23		 													 		_		· · ·	
15.2 E&M Works for Western Ventilation Building	225	13-Jul-22 A	13-Dec-22 A					-															
15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0		13-Jul-22 A	ening an	dreces	setc.0.5						-											
15.2.9 Complete UG pipeworks from sumpit to manhole 0.5	0		13-Jul-22 A	hanhol	ė 0.5															_		· · · · · · · · · · · · · · · · · · ·	
15.2 .10 Complete UG pipeworks from sumpit to manhole 1	0		13-Oct-22 A		1 1 1			•	15.2 .10	0 Com	iplete l	UG pip	works	from s	umpit	to man	hole 1					· · ·	
15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1	0		13-Dec-22 A											<u>.</u>			♦ 15	5.2.2	Complet	e termi	nal, m	at, pit, cond	uit, o
15.3 E&M Works for Eastern Ventilation Building	149	13-Sep-22 A	13-Dec-22 A																				
15.3.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0		13-Sep-22 A		♦ 1	5.3.1 Comple	ete terrr	ninal, m	hat, pit, ¢	onduit	t, open	ning and	l reces	s¦etc.)¦.5				-				
15.3.7 Complete pit, cable duct, drawpits and accessories etc 0.5	0		13-Dec-22 A				-	-				-					♦ 15	5.3.7(Complet	epit, c	able du	ict, drawpits	s and
15.4 APS Works for Western Ventilation Building	11	03-Jan-23	16-Jan-23		1																		
15.4 .1 Complete site delivery of DeNO2 filters	0		03-Jan-23*								[15	.4 .1 C	omplete sit	te del
15.4 .3 Complete site delivery of electrostatic precipitation system	0		03-Jan-23*		1							1	1							• 15	.4 .3 C	omplete sit	te del
Page 10 of 29 Data Date: 03-Jan-23		-	018/04 fo Three	r De	eve	lopm	en	ts a	at S	δοι	uth	A	oro	n	-	_	orks	\$					

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			4	13.1	.3 Cor	nplete ir	nstallati	on of s	tructu	alframe			
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for	ele	ctrical	system	(powe	rsupp	ly)		L		·			
		+	ktra low	+		+		 ! !					
for	AP	S in W	/VB							·;;- 			
		15	0 .6 A	proval	DDA	for tunn	el venti	lations	system				
			÷	÷		for Tur							
		15	0.30	Approva	al DDA	for ren	haining	tunnel	and a	t grade E	&M sy	stems	
		15	0.34	\pprova	al DDA	for E&	M in W	VB		· = = = = = = = 			
		• 15	.0 .38 /	Approva	al DDA	for E&	M in E	ИВ					
-			• 15	0 .18 A	\ pprov	al DDA	for Tur	nel fire	servi	es syste	em		
-			15	0 .22 A	Approv	al DDA	for Tur	nel plu	imbing	& drain	age		
-			• 15	0.430	20m ple	te who	le activ	ities of	this co	ost centre	Э		
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tivity Name	Dur	Start	Finish		0 1 1		-		2022		1					2023			A
					Septemb	ber 18 25	5 02	October 09 16 23	Novemb 30 06 13		27 04	December 11 18 25	January 5 01 08 15 22 29 0	February		26 (March	19 26	April 02 09 16 23
15.4.5 Complete site delivery of wash down system	0		03-Jan-23*	04	<u>, '' </u>	10 20		03 10 20		20 2		11 10 23	15.4.5 Complete site delivery of						02 00 10 2
15.4.7 Complete site delivery of support system	0		03-Jan-23*					, L					15.4.7 Complete site delivery of				LL- I I I I		
15.4.2 Complete installation of DeNO2 filters	0		16-Jan-23*				-+				·		◆ 15.4.2 Complete in		· •	filters			
15.4.4 Complete installation of electrostatic precipitation system	0		16-Jan-23*		++								◆ 15.4 4 Complete in	stallation o	t electro	static pre	cipitation sys	stem	
15.4.6 Complete installation of wash down system	0		16-Jan-23*		÷÷								♦ 15.4 6 Complete in		· •				
15.4 .8 Complete installation of support system	0		16-Jan-23*		$\frac{1}{1} \frac{1}{1}$						• • • • • • • • • • • • • • • • • • • •		◆ 15.4 .8 Complete in						
17.1 Works under Sections 6A, 6C and 12 and Associated Landscape	1 222	13-May-22 A			ii	<u>i</u>	-+												
17.1.6 Complete sub-base and roadbase works of at-grade roads 0.5	0		13-May-22 A												+	·			
17.1.9 Complete pavement of at-grade roads 0.25	0		13-May-22 A												+	·		·	
17.1.23 Complete drainage installation 0.8	0		13-May-22 A		++										+	·			
17.1.25 Complete trainage installation 0.6	0		13-May-22 A		; ;;										+				
17.1.36 Complete sewerage installation 1	0		13-May-22 A		++									!	+	·			
17.1.44 Complete watermain installation 0.8	0		13-May-22 A											!!	¦	·			
· · · · ·	0														+				
17.1.48 Complete anchor blocks, thrust block etc for waterworks 0.8	0		13-May-22 A																
17.1.51 Complete chambers of waterworks 0.5	0		13-May-22 A		÷										+				
17.1.10 Complete pavement of at-grade roads 0.5	0		13-Jun-22 A								• • • • • • • • • • • • • • • • • • • •				÷				
17.1.7 Complete sub-base and roadbase works of at-grade roads 0.8	0			s of at-gr	1 i												·		
17.1.8 Complete sub-base and roadbase works of at-grade roads 1	0			s of at-gr	iaue roa	usi					·				÷	·			
17.1.28 Complete manhole for drainage 1	0		13-Jul-22 A	40.000						+						·			
17.1.11 Complete pavement of at-grade roads 0.8	0		13-Aug-22 A		+ +	+	- + +												
17.1.52 Complete chambers of waterworks 0.8	0		13-Aug-22 A	te chamb	÷÷		-+÷			÷	· ·								
17.1.45 Complete watermain installation 1	0		13-Sep-22 A		4 4	#		atermain installation 1									·		
17.1.49 Complete anchor blocks, thrust block etc for waterworks 1	0		13-Sep-22 A		÷÷		- + +	nchor blocks, thrust bloc		KS 1					÷				
17.1.53 Complete chambers of waterworks 1	0		13-Sep-22 A		¦ ◆ 17	.1 .53 Com	plete ch	ambers of waterworks	1										
17.1.4 Complete excavation and disposal of material works 1	0		13-Oct-22 A						lete excavation and		fmaterial	works 1							
17.1.13 Complete footpath 0.25	0		13-Oct-22 A		¦				plete footpath 0.25										
17.1.14 Complete footpath 0.5	0		13-Oct-22 A				. <u> </u> !	◆ 17.1.14 Comp						!					
17.1.15 Complete footpath 0.8	0		13-Oct-22 A		¦			◆ 17.1.15 Comp	lete footpath 0.8								· · · · · · · · · · · · · · · · · · ·		
17.1.17 Complete street furnitures of at-grade roads 0.25	0		13-Dec-22 A		i i i i 1 1							🔶 17.1 .17 Com	plete street furnitures of at-grade roads				· · ·		
17.1.12 Complete pavement of at-grade roads 1	0		03-Jan-23										 17.1.12 Complete pavement of a 	t-grade roa	ads 1				
17.1.16 Complete footpath 1	0		03-Jan-23		 								◆ 17.1.16 Complete footpath 1				· · · ·		
17.1.25 Complete manhole for drainage 0.25	0		03-Jan-23										◆ 17.1.25 Complete manhole for d	rainage 0.	.25				
17.1.32 Complete T&C of drainage system 1	0		03-Jan-23		¦		<u> </u>						17.1.32 Complete T&C of draina	ge system	1				
17.1.41 Complete T&C of sewerage system 1	0		03-Jan-23	1									17.1.41 Complete T&C of sewer	age system	n 1				
17.1.54 Complete T&C of watermains system 1	0		03-Jan-23										 17.1.54 Complete T&C of water 	nains syste	em 1				
17.1 .55 Complete landscaping works 0.25	0		03-Jan-23										17.1.55 Complete landscaping w	/orks 0.25	,				
17.1.18 Complete street furnitures of at-grade roads 0.5	0		10-Jan-23				!						◆ 17.1 .18 Complete street f	urnitures o	of at-grad	eroads	0.5		
17.1.56 Complete landscaping works 0.5	0		17-Jan-23										◆ 17.1.56 Complete						
17.1.19 Complete street furnitures of at-grade roads 0.8	0		07-Feb-23					· · · · · · · · · · · · · · · · · · ·					•	17.1.19	Complet	e street f	urnitures of a	at-grade roads	0.8
17.1.57 Complete landscaping works 0.8	0		10-Feb-23		++									♦ 17.1	57 Comr	olete l'anc	dscaping worl	ks 0.8	
17.1.20 Complete street furnitures of at-grade roads 1	0		02-Mar-23		++	+	-++ !	· · · · · · · · · · · · · · · · · · ·								♦ 17.	.1 .20 Compl	ete street furni	tures of at-grade roads
17.1.58 Complete landscaping works 1	0		02-Mar-23		++ 	; ;	-++							·;	+	♦ 17.	.1 .58 Compl	ete landscapin	g warks 1
17.1.60 Complete whole activities of this cost centre 1	0	_	02-Mar-23				-+												vities of this cost centre
17.2 Irrigation System for Works under Sections 6A, 6C and 12 and A	S: 48	03-Jan-23	02-Mar-23		<u></u>		- ;							;	1				
17.2.1 Complete irrigation system 0.3	0		03-Jan-23		++		-++				·		17.2 .1 Complete irrigation system	m 0.3					
17.2.2 Complete irrigation system 0.6	0		17-Jan-23		+	<u>i</u>		· · · · · · · · · · · · · · · · · · ·			· [· · · · · ·		◆ 17.2.2 Complete in		/stem ก	.6			
17.2.3 Complete irrigation system 1	0		10-Feb-23		÷		-†:				+				+		ition system	1	
17.2.4 Complete whole activities of this cost centre 1	0		02-Mar-23		++		-++	·		+	+			····	+	10			ties of this cost centre
17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated	-	13-Apr-22 A			:¦						+				· · · · · · ·				
17.5.11 Complete concrete works of pile caps 0.5	-	10 Apr-22 A			<u>+</u> +						· - <u> </u>				¦	·		·	
· · ·	0		13-Apr-22 A				-++				·				÷			·	
17.5.16 Complete concrete works of piers 0.25	0		13-May-22 A		++						·					·		·	
17.5.17 Complete concrete works of piers 0.5	0		13-Jun-22 A	ind of to -	+										÷			·	
17.5.14 Complete installation and commissioning of temporary ramp	0			ing of ter	+	'-+									¦¦-	·			
17.5.15 Complete demolition of existing ramp	0	 T	13-Aug-22 A	ie;aemol		existing ran	np:			<u> </u>				<u> </u>	<u></u>		<u></u>		
Page 11 of 29															Date		Revision	Checke	ed Approved
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				September	October 02 09 16	1 22	20 06	November	Dec	cember	January 01 08 15 22	Februa 29 05 12	4	March			April I 16 I 23
17.5.4 Complete pre-drilling 1	0		13-Sep-22 A	04 11 18 25 ◆ 17.5 4 Compl		23		13 20 21	04 1	1 10 20	01 06 15 22	29 00 12	19 26 05		19 20 02	2 09	10 23
17.5.7 Complete piled foundations of FB02 0.8	0		13-Sep-22 A		ete piled foundations	of FB02	0.8										
17.5.18 Complete concrete works of piers 0.8	0		13-Sep-22 A	◆ 17.5 .18 Com	lete concrete works	of piers	0.8										
17.5.29 Complete lift shaft A and B 0.5	0		18-Nov-22 A		+ +	-+	¦¦ ¦	🔶 17.5 29 Cc	omplete lift s	shaft A and B 0.	5						
17.5.8 Complete piled foundations of FB02 1	0		13-Dec-22 A		· · · · · · · · · · · · · · · · · · ·				•	17.5.8 Comple	ete piled found ations of FB02 1						
17.5.9 Complete excavation	0		03-Jan-23	- 	++					·	♦ 17:5.9 Complete excava	tion					
17.5.12 Complete concrete works of pile caps 0.8	0		03-Jan-23		· · · · ·		L		· -!	·	♦ 17.5.12 Complete concre	ete works of pile o	caps 0.8				
17.5.13 Complete concrete works of pile caps 1	0		03-Jan-23								♦ 17.5.13 Complete concre	ete works of pile o	caps 1				
17.5.21 Complete concrete works of deck 0.25	0		03-Jan-23						·	·'	♦ 17:5.21 Complete concre	ete works of deck	0.25				
17.5.25 Complete prestressing works of deck 0.25	0		03-Jan-23								♦ 17.5.25 Complete prestre	essing works of d	leck 0.25				
17.5.19 Complete concrete works of piers 1	0		16-Feb-23									•	17.5.19 Complete	concrete	works of piers 1		
17.5.30 Complete lift shaft A and B 1	0		16-Feb-23	· · · · · · · · · · · · · · · · · · ·					· -!! 	·		•	17.5.30 Complete	lift shaft /	A and B 1		
17.5.31 Complete lift shaft C and D 0.5	0		24-Feb-23										◆ 17.5.31 Co	om ple te l if	ftshaftCandD0	J.5	
17.5.22 Complete concrete works of deck 0.5	0		16-Mar-23							·				•	17.5.22 Complete	e concre'	te works of dec
17.5.23 Complete concrete works of deck 0.8	0		16-Mar-23		*									• 1	17.5.23 Complete	e concre'	te works of dec
17.5.26 Complete prestressing works of deck 0.5	0		16-Mar-23		++					·			-+	• 1	17.5.26 Complete	e prestre	ssing works of
17.5.27 Complete prestressing works of deck 0.8	0		16-Mar-23				<u>-</u>							•	17.5.27 Complete	e prestre	ssing works of
17.5.32 Complete lift shaft C and D 1	0		16-Mar-23		++									• 1	17.5.32 Complete	e lift shaf	ft C and D 1
19.1 Works for Road L10 (Northern Section)	70	03-Jan-23	29-Mar-23		+												
19.4 .1 Complete excavation and disposal of material works 0.25	0		03-Jan-23				<u>-</u>				◆ 19.4 .1 Complete excava	tion and disposal	of material works 0).25			· - I
19.4.31 Complete severage installation 0.25	0		02-Mar-23							·					plete sewerage ins	stallation	ו /0 25
19.4.35 Complete manhole for sewerage 0.25	0		02-Mar-23		+			· • · · · • • • • • • • • • • • • • • •							plete manhole for		!!
19.4 .40 Complete watermain installation 0.25	0		27-Mar-23														lete watermain i
19.4.44 Complete anchor blocks, thrust block etc for waterworks 0.25	0		27-Mar-23														lete anchor bloc
19.4.48 Complete chambers of waterworks 0.25	0		27-Mar-23	• • • • • • • • • • • • • • • • • • • •													lete chambers c
19.4 .21 Complete drainage installation 0.2	0		29-Mar-23														plete drainage
19.4.25 Complete manhole for drainage 0.25	0		29-Mar-23		++					·							plete manhole
21.1 Improvement Works at the Junction of Hoi Bun Road/Cheung Yip \$	U U	13-May-22 A	18-Nov-22 A							·						20,000	
		,			· · · · · · · · · · · · · · · · · · ·										·		$\cdot \stackrel{1}{\underset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset{1}{\overset$
21.1.13 Complete roadside planter 21.1.15 Complete T&C of drainage and waterworks system	0		13-May-22 A	e T&C of drainage and wate									-+				
21.1.15 Complete 1 &C of drainage and waterworks system 21.1.12 Complete road marking, traffic sign and traffic signal installation	0			1 1 1- 1	lete road marking, ti	roffic ciar											
21.1.12 Complete road marking, traine sign and traine signal installation 21.1.16 Complete whole activities of this cost centre	0		13-Sep-22 A 18-Nov-22 A			ianic siyi			n n n n n n n n n n n n n n n n n n n	de activities of th	nic cost contro						· - ·
21.1.16 Complete whole activities of this cost centre 21.3 Establishment Works for Improvement Works at the Junction of F					++			✓ 21.1.10 CC									
· · · · · · · · · · · · · · · · · · ·	-	03-Jan-23	25-Mar-23														
21.3.1 Complete establishment works for 3 mths completion of softworks	0		03-Jan-23								21.3 1 Complete establis	snment works for		DT SOTTWORK			
21.3.2 Complete establishment works for 6 mths completion of softworks	0	10.4.00.4	25-Mar-23												♥ 21.3 2 00	ompiete	establishment
21.5 Establishment Works for Improvement Works at the Junctions of	72	13-Apr-22 A	13-Apr-22 A	· · · · · · · · · · · · · · · · · · ·													
21.5.2 Complete establishment works for 6 mths completion of softworks	0		13-Apr-22 A														
21.5.3 Complete establishment works for 9 mths completion of softworks	0		13-Apr-22 A	· · · · · · · · · · · · · · · · · · ·													
21.5.4 Complete whole activities of this cost centre	0		13-Apr-22 A				 										
22.1 Pipelines for District Cooling System for Commissioning of AMAW	7	13-Jun-22 A	13-Jul-22 A														
22.1.5 Complete T&C of DCS system 1	0		13-Jun-22 A														
22.1.6 Complete whole activities of this cost centre 1	0		13-Jul-22 A e	ntre 1													
22.2 Remaining Pipelines for District Cooling System Other Than for C	34	13-Oct-22 A	20-Jan-23	· · · · · · · · · · · · · · · · · · ·	ļ												· · · · · · · · · · · · · · · · · · ·
22.2.1 Complete DCS installation length 0.2	0		13-Oct-22 A		◆ 22.2	.1 Comp	lete DCS in	stallation length 0.2				ļ					
22.2.2 Complete DCS installation length 0.5	0		20-Jan-23	· · · · · · · · · · · · · · · · · · ·	ļ						◆ 22.2 2 0	Complete DCS in	stallation length 0.5				
34.1 Common Utilities Enclosure (CUE) under Section 6A of the Works	222	13-May-22 A	02-Mar-23							 							
34.1.18 Complete backfill to ground level of CUE 1	0		13-May-22 A														
34.1.15 Complete drainage installation of CUE 1	0		03-Jan-23							· · · · · · · · · · · · · · · · · · ·	♦ 34.1 15 Complete draina	ge installation of	CUE 1				
34.1.16 Complete ventilation installation of CUE 1	0		03-Jan-23								♦ 34.1.16 Complete ventila	ation installation o	of CUE 1				
34.1.17 Complete power supply and lighting installation of CUE 1	0		03-Jan-23								♦ 34.1.17 Complete power	supply and lighti	ng installation of CU	JE 1			,
34.1.19 Complete whole activities of this cost centre 1	0		02-Mar-23										♦ 34.1	.19 Comp	olete whole activiti	ies of thi	s cost centre
34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works	246	13-May-22 A	30-Mar-23														
34.2.7 Complete concrete works of walls of CUE 0.25	0		13-May-22 A							· 							
Page 12 of 29 Data Date: 03-Jan-23			for	Trunk Roa Developm	ents at	Sοι	uth A	pron		s		22-1 09-7 17-5	Date R Dec-19 00V1 Feb-20 01V0 Apr-20 01V2 Jul-20 01V2 Oct-20 01V3	0 1 2	Checked WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo	d A WY WY WY	Yu Yu
		T	hree N	/Ionths Rol	ling Pro	gra	mme	(Dec-22	2)				Jul-21 02V		SPa/LLo	W	

Activity Name	Dur	Start	Finish		20	22						2023			
				September 04 11 18 25	October 02 09 16 23	Nover 30 06 13	nber 3 20 27	December 04 11 18	Janua 25 01 08	· · · · · · · · · · · · · · · · · · ·	February	9 26	March	19 26	April 02 09 16 23
34.2.11 Complete concrete works of top slab of CUE 0.25	0		13-May-22 A	04 11 10 23		30 00 1		04 11 10	25 01 00			9 20	03 12	19 20	02 09 10 23
34.2.4 Complete concrete works of base slab of CUE 0.5	0		13-Aug-22 A	e concrete works of base sla	of CUE 0.5				;;;;;;;;;						
34.2.8 Complete concrete works of walls of CUE 0.5	0		13-Oct-22 A		◆ 34.2.8 Comple	e concrete wor	(s of walls of CUI	E 0.5			++				······
34.2.12 Complete concrete works of top slab of CUE 0.5	0		13-Oct-22 A		◆ 34.2.12 Compl										·
34.2.2 Complete excavation of CUE	0		03-Jan-23						◆ 34.2.2 Com	plete excavation of C	UE				
34.2.9 Complete concrete works of walls of CUE 0.75	0		25-Jan-23		+ + + + + + + + + + + + + + + + + - + + - +					♦ 34.2.9 Cor		te works of	walls of CUE	0.75	······
34.2.5 Complete concrete works of base slab of CUE 0.75	0		17-Feb-23												e slab of CUE 0.75
34.2.6 Complete concrete works of base slab of CUE 1	0		07-Mar-23		+										rete works of base slab of C
34.2.10 Complete concrete works of walls of CUE 1	0		07-Mar-23										♦ 34.2.10	Complete con	crete works of walls of CUE
34.2.13 Complete concrete works of top slab of CUE 0.75	0		07-Mar-23						<u>-</u>						crete works of top slab of C
34.2.14 Complete concrete works of top slab of CUE 1	0		30-Mar-23		+				{						34.2.14 Complete concrete
34.2.15 Complete drainage installation of CUE	0		30-Mar-23										L L	•	34.2.15 Complete drainage
34.2.17 Complete power supply and lighting installation of CUE	0		30-Mar-23												34.2.17 Complete power s
35 Services Gallery	292	13-Apr-22 A	08-Mar-23												
35.16 Complete 20% of total length (measured on plan) of SG structures in Drill-and-Break	0		13-Apr-22 A												
35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basement	0		13-Apr-22 A												
35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basement	0			ower Basement of East Venti	lation Building										
35.18 Complete 60% of total length (measured on plan) of SG structures in Drill-and-Break	0		13-Sep-22 A		te 60% of total length (measure	d on plan) of S(G structures in Dr	ill-and-Break and Dr	Il-and-Blast Tunnel						· · · · · · · · · · · · · · · · · · ·
35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and a	0		13-Sep-22 A		te 10% of total length (measure										
35.34 Complete 100% of total volume (measured on plan) of services Gallery structures and a 35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Basemer	0		13-Sep-22 A		te 100% of total volume (measu				/						
35.35 Complete concreting works of 25% of the total gross plan area for the Lower Basemer	0		13-Oct-22 A		++				for the Lower Basemer	t of East Ventilation	Building				
35.22 Complete 20% of total length (measured on plan) of Services Gallery structures and a	0		13-000-22 A						h (measured on plan) o			ncillaries in	TRM Tunnel		
35.23 Complete 30% of total length (measured on plan) of Services Gallery structures and a	0		13-Dec-22 A						mplete 30% of total leng		4 4			cillarias in TH	M Tunnel
35.36 Complete concreting works of 50% of the total gross plan area for the Lower Basemen	0		13-Dec-22 A		· · · · · · · · · · · · · · · · · · ·				mplete concreting works						
35.24 Complete 40% of total length (measured on plan) of Services Gallery structures and a	0		07-Feb-23		+			• 33.30 00							plan) of Services Gallery st
	0		14-Feb-23												red on plan) of SG excavat
35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Break 35.25 Complete 50% of total length (measured on plan) of Services Gallery structures and a	0		08-Mar-23		+										of total length (measured o
SOUTH APRON EXTERNAL WORKS	050	21-Oct-21 A	10-Jan-25		· · · · · · · · · · · · · · · · · · ·								35.25 00		
Road S20	769		28-May-24												
CUE (Section 6A)	213	28-Dec-21 A	17-Aug-22 A										· · · ·		
CKR Crossing	40	30-May-22 A	05-Jul-22 A												
BS/E&M	40	30-May-22 A	05-Jul-22 A	· · · · · · · · · · · · · · · · · · ·											······
CUE L10(N) Watermain (100m, 30m/wk)	40	30-May-22 A	05-Jul-22 A			l 							·····		
Entrance	164	26-Jan-22 A	17-Aug-22 A												······································
Structure	6	26-Jan-22 A	11-Apr-22 A												
Entrance - Strength & Falsework dismantle	6	26-Jan-22 A	· ·												
BS/E&M		11-Apr-22 A											ii- 		
Entrance - E&M Installation	72	11-Apr-22 A		&M Installation	+				{						
Junction	194	28-Dec-21 A	-			ll l l l							L L I I I I		
Structure	147								·						
Junction - Structure (Wall & Top Slab)		28-Dec-21 A													
Junction - Waterproofing, Backfill & Remove S2	9	20-Apr-22 A	· ·												
Junction - Waterproofing, Backfill & Remove S1	9	30-Apr-22 A			+										
Junction - Strength & Falsework dismantle	6	11-May-22 A	-		+ +										·····
BS/E&M	45	24-May-22 A	23-Jul-22 A	· · · · · · · · · · · · · · · · · · ·	+ i i i i i i i i i								ÈÈ		·····
Junction - E&M 1st Fix Installation	18	24-May-22 A			+ 										/
Junction - E&M Installation	24	15-Jun-22 A													
Junction - Backfill	12	12-Jul-22 A	23-Jul-22 A												
S20 (Section 6A)	769	21-Oct-21 A	28-May-24												
Future Carriageway - Stage 3	280		27-Aug-22 A		<u> </u>										·····
	203				++										
S20 Stage 3 (Drainage & Watermain near CUE)	30	21-Oct-21 A	-		ļ	 									
S20 Stage 3 (Catchpit, Gully)	24	24-May-22 A													
S20 Stage 3 (Watermain)	30	22-Jun-22 A	30-Jui-22 A					· · ·				<u> </u>		<u> </u>	
Page 13 of 29 Milestone											Da		Revision	Chec	ked Approved
Data Date: 03-Jan-23		ED/20	710/0/	Truck Doo	d T2 and Int	rootru	oturo V	Marka			18-Dec		0V1	W Yu	
Critical Activity			J I O/U4		d T2 and Inf	เสรแบ					22-Feb		1V0	SPa/LLc	
Actual Miestone			fo	r Developm	ients at Sout	th Apr	on				09-Apr-		1V1	SPa/LLo	
Actual vy ork			10			··· / ۲					17-Jul-2		1V2	SPa/LLc	
		7	Throo	Monthe Rol	ling Program	חשם /ר	1 - 22)			09-Oct-		1V3	SPa/LLc	
					ing riografi		JUU-22	/			02-Jul-2	21 02	2V0	SPa/LLc	o WYu
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S20 Stage 3 (Roadworks)	24	01-Aug-22 A	27-Aug-22 A			02		10 2		00		20		57	11	10	20		00 10	
Future Amenity Area (Gas Station Side)	123	29-Aug-22 A	02-Mar-23		·····	 						· · · · · · · ·					!			
S20 Stage 2 (Roadworks) (Gas Station Side)	24	29-Aug-22 A	22-Sep-22 A		S20 S	tage 2	(Roadwo	rks) (Gas	Statio	on Side)						-i				
Gas Station Side (Landscape)	48	03-Jan-23	02-Mar-23				· · · · · · · · ·													
Future Footpath	711	18-Mar-22 A	28-May-24			+ + !														
Watermain diversion (Part 1 - CKR side)	24	18-Mar-22 A	06-Aug-22 A	Part 1 - CKI	R side)	<u> </u>	·													
Watermain diversion (Part 2 - AMAWBC side)	24	03-Apr-22 A	04-Jun-22 A			 						 								
CLP 11kV diversion (Part 2 - AMAWBC side)	24	06-Jun-22 A	20-Jul-22 A	side)	· 1 1	<u> </u>	+					¦								
Utilities undertaker for AMAWBC (Part 1 - CKR side)	24	21-Jul-22 A		´`	(Part 1 - CKR sid	: e)														
Utilities undertaker for AMAWBC (Part 2 - AMAWBC side)	24	08-Aug-22 A	-		or AMAWBC (Par	+ +	IAWBC s	ide)												;
Footpath / U channel / planter (Part 1 - CKR side)	36	22-Aug-22 A	24-Sep-22 A				Ų chan ne		r (Part	1 - CKR	side)									
Footpath / U channel / planter (Part 2 - AMAWBC side)	36	12-Sep-22 A	30-Sep-22 A		++	++	path / Uˈc					BC side	5)			-i				
Landscape softwork (Part 1 - CKR side)	48	03-Dec-22 A	02-Mar-23		$\frac{1}{1}\frac{1}{1}$: 	·			·		¦								
Landscape softwork (Part 2 - AMAWBC side)	48	03-Dec-22 A	02-Mar-23			<u> </u>						1 1				-!	!			
Section 9A Completion	0		02-Mar-23		·							; 				-i				
Section 6A Completion	0		02-Mar-23		· 	+ + :														
Road S20 - Establishment Period	365	03-Mar-23	28-May-24		++	1														
MAWBC	265	11-Feb-22 A	03-Jan-23		·	†† :	·					; 						-		
Drainage & Sewerage	265	11-Feb-22 A	03-Jan-23			 	·					¦								;
Section B	169	11-Feb-22 A	26-Jul-22 A		·	 	·													
					· - -		·}													
Section B (Drainage & Sewerage) Sheetpile (180m2, 55m2/d)	29	11-Feb-22 A	01-Apr-22 A			ļ														
Section B (Drainage & Sewerage) Excavation	26	02-Apr-22 A	21-May-22 A			 	·													í
Section B (Drainage & Sewerage) (80m, 30m/wk)	16	13-Apr-22 A	02-Jul-22 A	Dealsfill		ļ.														
Section B (Drainage & Sewerage) Backfill	10	04-Jul-22 A	26-Jul-22 A	Backfill		++	·													
Section D	0	03-Jan-23	03-Jan-23			<u> </u>														
Section 6A Completion	0		03-Jan-23		·	; ;	·					; }						♦ Se	ction 6A Com	plet
Overall	114	30-Mar-22 A	24-Aug-22 A			<u> </u>						¦ }								
L10/L18 (Drainage) (4 manhole) SMH1.6-1.9	24	30-Mar-22 A	20-Jul-22 A	6-1.9		ļ														
L10/L18 (Drainage) Backfill	10	21-Jul-22 A	-	.18 (Draina	ige) Backfill	; 														
Outfall 1	122	28-Mar-22 A	22-Oct-22 A		· · · · · · · · · · · · · · · · · · ·	¦														
Outfall 1 - Sheetpiling (235m2)	4	28-Mar-22 A	10-May-22 A		· · · · · · · · · · · · · · · · · · ·	ļ	l.					ļ				ļ				
Outfall 1 - Excavation to S1 (+4.7 to + 3.7, 78m3)	4	11-May-22 A	14-May-22 A		· · · · · · · · · · · · · · · · · · ·	: 						 								; ;
Outfall 1 - S1 Installation	4	16-May-22 A	14-Jun-22 A		· · · · · · · · · · · · · · · · · · ·	: 	ļļ.									¦				
Outfall 1 - Excavation to S2 (+3.7 to +0.9, 220m3)	8	17-Jun-22 A	25-Jun-22 A			li														
Outfall 1 - S2 Installation	7	27-Jun-22 A	05-Jul-22 A		· · · · · · · · · · · · · · · · · · ·	<u> </u>														
Outfall 1 - Excavation to FEL (+0.9 to -1.4, 180m3)	8	06-Jul-22 A	11-Jul-22 A	3)		. 	l.									j				
Outfall 1 - Ground Improvement Works at FEL	4	12-Jul-22 A	15-Jul-22 A	L		¦						 								
Outfall 1 - Base Slab (16m3)	2	16-Jul-22 A	18-Jul-22 A			ļ: 	ļ													
Outfall 1 - S2 Removal	4	19-Jul-22 A	20-Jul-22 A	i		li										j				
Outfall 1 - Backfill to Pipe Bottom Level	2	21-Jul-22 A	23-Jul-22 A	rel		ļ	ļļ.									¦		.		
Outfall 1 - DCS ELS Cutting	2	23-Jul-22 A	25-Jul-22 A			ļ	ļ													
Outfall 1 - Drainage Pipe Installation (up to seawall block)	2	26-Jul-22 A	27-Jul-22 A	ion (up to s	seawall block)	<u> </u>	ļ													
Outfall 1 - Steel Plate installation	2	27-Jul-22 A	28-Jul-22 A	þ.		: :	ļ					 				¦				
Outfall 1 - Concrete surround installed pipes	3	29-Jul-22 A	29-Jul-22 A			ļ														
Outfall 1 - Core-cut seawall	10	29-Jul-22 A	19-Aug-22 A			¦	ļļ.									¦		.		
Outfall 1 - Remaining drainage pipe installation	2	20-Aug-22 A	22-Aug-22 A		ing drainage pipe	installa	tion									j				
Outfall 1 - Tie Bar Installation	2	23-Aug-22 A	24-Aug-22 A			<u> </u>						 								
Outfall 1 - Tremie Concrete	2	25-Aug-22 A	26-Aug-22 A	tfall 1 - Tre	mie Concrete	¦:						 				<u>.</u>				
Outfall 1 - Backfill	6	27-Aug-22 A	10-Sep-22 A		Outfall 1 - Backfil	[
Section 6A Drainage - T&C	24	12-Sep-22 A	22-Oct-22 A		· · · · · · · · · · · · · · · · · · ·		·	S	ection	6A Drair	age - T&	C								
STE] District Cooling System for AMAWBC Section 6B	79	01-Mar-22 A	18-Jun-22 A			li.					i									
Section 1 - Bay 3	10	24-Mar-22 A	18-Jun-22 A			E			[-											
DCS - Bay 3 Backfill	10	24-Mar-22 A	18-Jun-22 A		·	 						; ; ;				-i ¦		-		
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for Developments at South Apron

Three Months Rolling Programme (Dec-22)

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Testing & Commissioning	79 01-M	ar-22 A 10-Jun-22 A		• <u> </u>	1 10	2.3 0.	2 09	10	23 30	00	13 20		04 11	10	23		00 13	22	23	00 1	2 13		00 12	19 20 02	09	
Overall DCS - Testing & Commissioning		ar-22 A 10-Jun-22 A					·												+	· · · · · · · · · · · · · · · · · · ·	· ¦	++				
Section 6B completion	0	10-Jun-22 A																	i i		·					
[STE] District Cooling System - Remaining Section 7B	419 31-Ja																			·						
DCS (Pipe Jacking)	419 31-Ja																		+							
DCS - Pipe Jacking Sheet pile (1571m2, 55m2/d)		an -22 A 11 - Apr - 22 A		+	+														+	·		++				
DCS - Receiving Pit Pre-treatment		pr-22 A 19-Apr-22 A			···-		·												÷	·	·					+
DCS - Pipe Jacking Excavation (1772m3, 135m3/d + 6d per layer of strut)		· · ·	6d per	laver	of strut)																					
DCS - Receiving Pit Sheet pile (1276m2, 55m2/d)		pr-22 A 08-Oct-22 A					DC	S - Receiv	ing Pit She	neet pile	e (1276m2,55m2/d	1)							+							
DCS - Pipe Jacking (90m, 2m/d + 31d set up & demob)		ep-22 A 02-Mar-23			<u>.</u>	- <u>.</u>																DC DC	S - Pipe Ja	cking (90m, 2m/d	+ 31d se	et up & dem
DCS - Receiving Pit Excavation (3200m3, 135m3/d + 6d per layer of strut)		ct-22 A 25-Dec-22 A		+			····¦ -···								DCS	- Receiv	ving PitEx	cavation	n (3200r	n3, 135m3	/d + 6d pe	er layer of :	struť)			
DCS - Pipe Jacking Pipe Install (90m, 6m/5d) & Valve Pit (24d)		/ar-23 05-Jul-23																	+							
DCS (L10(S))		ar-22 A 21-Apr-23			+																					
Pre-bored		ay-22 A 29-Jun-22 A																								
DCS - L10(S) 4 Pre-treatment (404m, 36m/d/rig, 2rigs)		ay-22 A 31-May-22 A																								
DCS - L10(S) 5 Pre-treatment (404m, 36m/d/rig, 2rigs)		In-22 A 11-Jun-22 A			···-		·												÷	·	· +					
DCS - L10(S) 6 Pre-treatment (404m, 36m/d/rig, 2rigs)		in-22 A 29-Jun-22 A					·		·					·!								·				
Sheet piles		ar-22 A 22-Sep-22 A																	+			++				
DCS - L10(S) 2 Sheet pile (576m2, 55m2/d)		ar-22 A 09-Apr-22 A				-+++													+							
DCS - L10(S) 2 Sheet pile (370h2, Shi2/d) DCS - L10(S) 3 Sheet pile (830m2, 55m2/d)		pr-22 A 13-May-22 A																	+			+ + +				
DCS - L10(S) 3 Sheet pile (650112, 55112/d) DCS - L10(S) 4 Sheet pile (404m2, 55m2/d)		ay-22 A 11-Jun-22 A	+																							
DCS - L10(S) 5 Sheet pile (404m2, 55m2/d)		In-22 A 18-Jun-22 A																	+	·		++				
DCS - L10(S) 6 Sheet pile (404m2, 55m2/d)		ep-22 A 22-Sep-22 A				DCS L10	(S) 6 Sh	- L L L	04m2 55m	m2/d)																
Excavation		In-22 A 20-Dec-22 A		+															+							
DCS - L10(S) 1 Excavation (1109m3, 40m3/d)		In-22 A 17-Aug-22 A			n (1100	m3, 40m3/d														·						
DCS - L10(S) 1 Excavation (1109m3, 40m3/d) DCS - L10(S) 2 Excavation (1109m3, 40m3/d)		In-22 A 17-Aug-22 A In-22 A 25-Aug-22 A			1	n (1109m3,													+							
DCS - L10(S) 2 Excavation (1109/115, 40/113/d) DCS - L10(S) 3 Excavation (1920m3, 40/113/d)		In-22 A 25-Aug-22 A In-22 A 10-Sep-22 A			+)(S) 3 Excav		20m3 40r	m3/d)										+							
DCS - L10(S) 3 Excavation (1920115, 40115/d) DCS - L10(S) 4 Excavation (564m3, 40m3/d)		ep-22 A 13-Oct-22 A								cavation	n (564m3, 40m3/d	<u>, </u>			÷				÷	·						
DCS - L10(S) 4 Excavation (564m3, 40m3/d)		ct-22 A 01-Nov-22 A			· i						10(S) 5 Excavatio		4m3 40m	3/d)								· · · · · · · · · · · · · · · · · · ·				
DCS - L10(S) 6 Excavation (564m3, 40m3/d)		ec-22 A 20-Dec-22 A					·									10(S) 6 F	xcavation	(564m3	40m3/	d)						
DCS Set up	101 26-Au						·											(00	+							
DCS - L10(S) 1 Pipe Installation - Set up		ug-22 A 30-Sep-22 A					S-1 10(S) 1 Pine	Installation	n - Setu										·						
DCS - L10(S) 2 Pipe Installation - Set up		ct-22 A 17-Oct-22 A		+	+						Installation - Set u	-							+							
DCS - L10(S) 3 Pipe Installation - Pit		ct-22 A 20-Oct-22 A					·				pe Installation - Pit	1-4							+							
DCS - L10(S) 3 Pipe Installation - Set up		ct-22 A 25-Oct-22 A					·				3 Pipe Installation		 .up													
DCS - L10(S) 4 Pipe Installation - Set up		ct-22 A 03-Nov-22 A				-+++					5 - L 10(S);4 Pipe In								+							
DCS - L10(S) 5 Pipe Installation - Set up		ec-22 A 07-Dec-22 A			·		·		· · · · · · · · · · · · · · · · · · ·						5 Pipe	Installatio	on - Set up)	÷	·		·				
DCS - L10(S) 6 Pipe Installation - Set up		an-23 06-Jan-23															DCS - L10		be Insta	lation - Se	¦ tupi					
DCS welding		ct-22 A 11-Jan-23																(0) 0				++				
DCS - L10(S) 1 Pipe Installation - Pipe welding (3nos/d)		ct-22 A 15-Oct-22 A							1 10(S) 1 F	Pine Inc	stallation - Pipe we	oldina ((3nos/d)						+	·		++				
DCS - L10(S) 2 Pipe Installation - Pipe welding (3nos/d)		ct-22 A 30-Dec-22 A								!			(0110010)	!		DCS-1	_10(S) 2 P	ipe Insta	llation -	Pipe weld	lina (3nos	(d)				
DCS - L10(S) 3 Pipe Installation - Pipe welding (3nos/d)		ov-22 A 08-Nov-22 A									DCS - L10(S) 3 Pi	ipe Inist	stallation -	Pibe wel												
DCS - L10(S) 4 Pipe Installation - Pipe welding (3nos/d)		ov-22 A 12-Nov-22 A				-+++					DCS - L10(S)	14-2-4	o Inotalloti	oni Dino			l)		+							
DCS - L10(S) 5 Pipe Installation - Pipe welding (3nos/d)		ec-22 A 19-Dec-22 A													CS - L1	D(S) 5 Pin	pe Installa	tion - Pip	be weldi	ng (3nbs/c	1) ;					
DCS - L10(S) 6 Pipe Installation - Pipe welding (3nos/d)		an-23 11-Jan-23				-+++	·												é a ala a a è			ding (3no	s/d)			
Electrofusion		ct-22 A 20-Jan-23							·					!					†							
DCS - L10(S) 1 Pipe Installation - Electrofusion joint (1.5nos/d)		ct-22 A 08-Nov-22 A			·		·		·		DCS - L10(S) 1 Pi	ipe linist	stallation -	Electrofu	ision ioi	nt (1.5nio	os/d)			·						
DCS - L10(S) 2 Pipe Installation - Electrofusion joint (1.5nos/d)		ov-22 A 11-Jan-23																- L'10(S)	2 Pipe	nstallation	- Electrof	usion idint	(1.5nos/d)			
DCS - L10(S) 3 Pipe Installation - Electrofusion joint (1.5nos/d)		ov-22 A 26-Nov-22 A										DCS-	L 10(S) 3	Pipe Inst	tallation	- Electro	ofusion joir		1				(
DCS - L10(S) 4 Pipe Installation - Electrofusion joint (1.5nos/d)		ov-22 A 06-Dec-22 A		+													n - Electro		+	nos/d)						
DCS - L10(S) 5 Pipe Installation - Electrofusion joint (1.5nos/d)		ec-22 A 28-Dec-22 A			1 1 1												0(S) 5 Pip		1 l		on joint (1.	5nos/d)				$\begin{array}{c} -\frac{1}{1} - \cdots\frac{1}{1} - \cdots \\ 1 & 1 \\ 1 & 1 \end{array}$
DCS - L10(S) 6 Pipe Installation - Electrofusion joint (1.5nos/d)		an-23 20-Jan-23							·										+				sion joint (1	.5nos/d)		
Backfill	116 09-No			+	+				·																	
				!	!	<u>! [!</u>	!	! !	<u>!</u>]	!		1 !	!	<u>'</u>	1		!	1	!		Date	<u>! !</u> 	Revision	Checked	<u>'</u>	
Page 15 of 29																				10	3-Dec-19			W Yu		Approved
Data Date: 03-Jan-23	FI	D/2018/04	4 Tı	rur	nk R	load	T2	and	Infr	ast	tructure	N (Vork	s							2-Feb-20			SPa/LLo	W	
Actual Miestone				-					_					-							9-Apr-20			SPa/LL0	W	
Actual Work		fC	or D	vev	elo/	pmei	ITS	at S	outr	n A	pron										7-Jul-20			SPa/LL0	W	
		<u> </u>			_	.	_				/ P -	· - '									9-Oct-20			SPa/LL0	W	
		Three	Mo	ntl	ns F	≺ollin	g P	roar	ramr	me	e (Dec-2	22)									2-Jul-21	02		SPa/LL0	W	
			-		-	-	J	3	-		۰	/								04	_ uu- <u>~</u> 1	1021	• •		1	10

ctivity Name	Dur	Start Finish	2022	2023
			September October November December January 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 0	February March April 5 12 19 26 05 12 19 26 02 09 16 2
DCS - L10(S) 1 Backfill	12	09-Nov-22 A 16-Jan-23	04 11 18 23 02 09 18 23 30 06 13 20 27 04 11 18 23 01 06 13 22 29 0 DCS-L10(S) 1 Bac	
DCS - L10(S) 2 Backfill	12	23-Nov-22 A 02-Feb-23		S - L10(S) 2 Backfill
DCS - L10(S) 3 Backfill	12	07-Dec-22 A 16-Feb-23		DCS - L10(S) 3 Backfill
DCS - L10(S) 4 Backfill	12	17-Feb-23 02-Mar-23		DCS - L10(S) 4 Backfill
DCS - L10(S) 5 Backfill	12	03-Mar-23 16-Mar-23		DCS - L10(S) 5 Backfill
DCS - L10(S) 6 Backfill	12	17-Mar-23 30-Mar-23		DCS - L10(S) 6 Backfill
Steel platform area	248	08-Apr-22 A 21-Apr-23		
Steel platform	22	08-Apr-22 A 11-May-22 A		
DCS - L10(S) CH228-252 Sheet pile (505m2, 55m2/d)	10	15-Dec-22 A 13-Jan-23	DCS + L10(S) CH228-2	52 Sheet pile (505m 2, 55m2/d)
DCS - L10(S) CH228-252 Excavation (576m3, 40m3/d)	15	28-Dec-22 A 21-Apr-23		D
DCS (Slip Road S5)	36	21-Dec-22 A 25-May-23		
DCS - S5 Pre-bored (1303m, 36m/d)	36	21-Dec-22 A 25-May-23		
Road L10 (Southern)	75	12-Jan-23 17-Apr-23		
Excavation	75	12-Jan-23 17-Apr-23		
L10(S) 1 Excavation (1460m3, 110m3/d)	14	12-Jan-23 31-Jan-23		3) 1;Excavation (1460m3, 110m3/d)
L10(S) 2 Excavation (1620m3, 110m3/d)	15	01-Feb-23 17-Feb-23		110(S) 2 Excavation (1620m3 110m3/d)
L10(S) 3 Excavation (1700m3, 110m3/d)	16	18-Feb-23 08-Mar-23		
L10(S) 4 Excavation (960m3, 110m3/d) & Strutting (6d)	15	09-Mar-23 25-Mar-23		L10(S) 3 Excavation (1700m3, 110m3/d)
L10(S) 5 Excavation (960m3, 110m3/d) & Strutting (6d)	15	27-Mar-23 17-Apr-23		L10(S
Drainage	54	01-Feb-23 04-Apr-23		
L10(S) 1 Drainage & Sewerage (5 manhole, 6d/nos)	30	01-Feb-23 07-Mar-23		L10(S) 1 Drainage & Sewerage (5 manhole, 6 L10(S) 2 Drainage & Sew
L10(S) 2 Drainage & Sewerage (3 manhole, 6d/nos)	18	08-Mar-23 28-Mar-23		L10(S) 2 Drainage & Sew
L10(S) 3 Drainage & Sewerage (1 manhole, 6d/nos)	6	29-Mar-23 04-Apr-23		L10(S) 3 Drainage
Watermain	30	08-Mar-23 15-Apr-23		
L10(S) 1 Watermain (30m/6d)	12	08-Mar-23 21-Mar-23		L10(S) 1 Watermain (30m/6d)
L10(S) 2 Watermain (30m/6d)	12	29-Mar-23 15-Apr-23		L10(\$)
Backfill	12	22-Mar-23 04-Apr-23		
L10(S) 1 Backfill	12	22-Mar-23 04-Apr-23		L10(S) 1 Backfill
Outfall 2 & Branch Drainage	178	17-May-22 A 16-Feb-23		
Portion H1	178	17-May-22 A 16-Feb-23		
Portion H1 Possession	0	17-May-22 A		
Section H1 part 1 Sheet pile (878m2, 55m2/d)	16	17-May-22 A 04-Jun-22 A		
Section H1 part 1 Excavation (1090m3, 110m3/d)	16	17-Jun-22 A 06-Jul-22 A		+
Section H1 part 1 Drainage	12	07-Jul-22 A 20-Jul-22 A		
Section H1 part 1 Backfill	6	21-Jul-22 A 27-Jul-22 A		
Section H1 part 3 Pre-treatment	12	22-Aug-22 A 21-Sep-22 A	Section H1 part 3 Pre-treatment	
Section H1 part 2 Pre-treatment	12	22-Aug-22 A 21-Sep-22 A	Section H1 part 2 Pre-treatment	
Section H1 part 2 Sheet pile (648m2)	12	07-Sep-22 A 08-Oct-22 A	Section H1 part 2 \$heet pile (648m2)	
Section H1 part 3 Sheet pile (504m2)	10	07-Sep-22 A 08-Oct-22 A	Section H1 part 3 Sheet pile (504m2)	
Section H1 part 3 Excavation (660m3)	12	10-Oct-22 A 03-Nov-22 A	Section H1 part 3 Excavation (660m3)	
Section H1 part 2 Excavation (848m3)	14	10-Oct-22 A 03-Nov-22 A	Section H1 part 2 Excavation (848m3)	
Section H1 part 3 Drainage	12	31-Oct-22 A 12-Nov-22 A	Section H1 part 3 Drainage	
Section H1 part 2 Drainage	12	31-Oct-22 A 12-Nov-22 A	Section H1 part 2 Drainage	
Section H1 part 2 Backfill	6	14-Nov-22 A 09-Dec-22 A	Section H1 part 2 Backfill	
Section H1 part 3 Backfill	6	14-Nov-22 A 16-Dec-22 A	Section H1 part 3 Backfill	
Inspection for H/O	24	17-Jan-23 16-Feb-23		Inspection for H/O
Section 6C Completion	0	16-Feb-23		Section 6C Completion
Outfall 2	70	03-Oct-22 A 26-Jan-23		
Outfall 2 - Sheetpiling (528m2, assume half typical)	20	03-Oct-22 A 15-Oct-22 A	Outfall 2 - Sheetpiling (528m2, assume half typical)	
Portion H2 Full Possession	0	03-Oct-22 A	Portion H2 Full Possession	
Outfall 2 - Excavation to S1 (+4.7 to + 3.5, 136m3)	3	17-Oct-22 A 19-Oct-22 A	Outfall 2- Excavation to S1 (+4.7 to + 3 5, 136m3)	
Outfall 2 - S1 Installation	6	19-Oct-22 A 25-Oct-22 A		
Outfall 2 - Excavation to S2 (+3.5 to +1.7, 203m3)	8	26-Oct-22 A 08-Nov-22 A	Outfall 2 + Excavation to S2 (+3.5 to +1.7, 203m3)	
Page 16 of 29 Milestone				Date Revision Checked Approved
Data Date: 03-Jan-23			Frunck Dood TO and Infractory at the Marks	18-Dec-19 00V1 WYu
Critical Activity			Frunk Road T2 and Infrastructure Works	22-Feb-20 01V0 SPa/LLo WYu
Actual Milestone		fo	Developments at South Apron	09-Apr-20 01V1 SPa/LLo WYu
Actual work				17-Jul-20 01V2 SPa/LLo WYu
		Throo	onths Rolling Programme (Dec-22)	09-Oct-20 01V3 SPa/LLo WYu
		IIICC		02-Jul-21 02V0 SPa/LLo WYu

ctivity Name	Dur	Start	Finish						2022							202	23				
·				Septer		25 02	Octob			November	Decem 7 04 11	ber 18 25	January 01 08 15		Februa 05 12		6 05	March 12	19 26		April 16 23
Outfall 2 - S2 Installation	6	09-Nov-22 A	15-Nov-22 A			20 02	00			Outfall 2 + S2	Installation				12				10 20		
Outfall 2 - Excavation to FEL (+1.7 to -1.4, 350m3)	14	16-Nov-22 A	22-Nov-22 A						L L I I I I I I I I	Outfall	2 - Excavation to	FEL (+1.7 to	-1.4, 350m3)							······	
Outfall 2 - Ground Improvement Works for FEL	4	23-Nov-22 A	28-Nov-22 A		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		Outfall 2 - Ground										
Outfall 2 - Base Slab (12m3)	2	29-Nov-22 A	30-Nov-22 A		· 						Outfall 2 - Base	Slab (12m3)								() 	
Outfall 2 - Backfill to Pipe Bottom Level	2	01-Dec-22 A	03-Dec-22 A								🗖 Outfall 2 - Ba	ackfill to Pipe	Bottom Level								
Outfall 2 - Steel Plate Installation	2	05-Dec-22 A			· + +						Outfall 2	- Steel Plate I	nstallation								
Outfall 2 - Concrete surround installed pipes	3				· 1 1 1				<u>L</u>		🗖 Outfal	l 2 - Concrete	surround installed	pipes				L			
Outfall 2 - Core-cut seawall	10	10-Dec-22 A										Outfall 2	Core-cut seawal							,	
Outfall 2 - Remaining pipes installation	2											Uutfa	I 2 - Remaining pip	esinstallation				·		·	
Outfall 2 - Tie Bar Installation	2												Dutfall 2 - Tie Bar Ir	stallation				·		·····	
Outfall 2 - Tremie Concrete	2	29-Dec-22 A	30-Dec-22 A										Outfall 2 - Tremie					·		·}} []	
Outfall 2 - Pipe Installation up to seawall block	12	03-Jan-23	16-Jan-23		· • • • • • • • • • • • • • • • • • • •									utfall 2 - Pipe In	stallation u	n to seawall t	oločk				
Outfall 2 - Backfill	6	17-Jan-23	26-Jan-23											Outfall				·		¦	
Foot Bridge FB-02	405	05-Feb-22 A	13-Jun-23															• • • • • • • • • • •			
	400				$-\frac{1}{1} \frac{1}{1}$															<u> </u>	
Temp Ramp	196	05-Feb-22 A	-		-++-															¦	
Temporary Ramp Construction	24	05-Feb-22 A																			
Existing Footbridge Disable Ramp - Demolition	36		0	ootbridge Disa	ble Ramp	- Demolitic	2h													; ;;	
Foundation	66	22-Aug-22 A																			
FB-02 Pre-drilling - LC&D	6		24-Aug-22 A	2 Pre-drilling - L	_C&D																
Lift C&D	9	25-Aug-22 A	09-Dec-22 A																		
FB-02 H-pile Drilling	6	25-Aug-22 A	30-Aug-22 A	FB-02 H-pile D	Drilling		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·												
FB-02 H-pile Installation & Grouting	3	31-Aug-22 A				····			· · · · · · · · · · · · · · · · · · ·		FB-02	H-pile Install	ation & Grouting								
P1	9	25-Aug-22 A									†									·	
FB-02 H-pile Drilling	6	-		FB-02 H-pile D	Drillina										i 			·			
FB-02 H-pile Installation & Grouting	3		17-Nov-22 A		· + +				<u>+</u>	FB-02 H-n	e Installation & (Groutina				-+		·			
Structure	405	17-Mar-22 A	13-Jun-23												<u>-</u>			·			
Pile Cap	276	11-Apr-22 A	02-Feb-23																		
FB-02 Pipe Cap - P4	24								· · · · · · · · · · · · · · · · · · ·											·	
FB-02 Pipe Cap - Abutment	24	· · ·																			
FB-02 Pipe Cap - LC&D	24	17-Dec-22 A	02-Feb-23								_				FB-02 Pipe	Cap - LC&D				 	
FB-02 Pipe Cap - P1	24	20-Dec-22 A	02-Feb-23												FB-02 Pipe	Cap - P1					
Pier	321	17-Mar-22 A	16-Feb-23					1													
FB-02 Pier - P2	36	17-Mar-22 A	07-Apr-22 A																		
FB-02 Pier - P3	36	04-Apr-22 A	14-Apr-22 A																		
FB-02 Pier - P4	36	13-Jun-22 A	29-Jun-22 A										1 1								
FB-02 Pier - P5	54	01-Aug-22 A	17-Sep-22 A	· · · ·	📕 FB-02 '	Pier - P5															
FB-02 Pier - P1	12	03-Feb-23	16-Feb-23	·												FB-02 Pier	-P1			·	
Bridge Deck / Staircase	247	27-Jun-22 A	01-Jun-23																		
FB-02 Bridge deck construction Bay 1 (P3 - P4)	60	27-Jun-22 A	24-Sep-22 A			FB-02 Bric	de deck c	constructio	on Bay 1 (P3 -	P4)											
FB-02 Staircase A	48	28-Oct-22 A	18-Apr-23				y									-+		<u> </u>		<u> </u>	FB-02
FB-02 Bridge deck construction Bay 2 (P4 - P5)	60	31-Oct-22 A	16-Mar-23											- ·· · · · · · · · · · · · · · · · ·	i			F	B-02 Brida	deck constru	
FB-02 Bridge deck construction Bay 3 (P2 - P3)	60	03-Dec-22 A	16-Mar-23											+ +	+	-+				deck constru	
FB-02 Bridge deck construction Bay 3 (F2 - P3) FB-02 Bridge deck construction Bay 4 (P1 - P2)	60	17-Mar-23	01-Jun-23	·	$-\frac{1}{1}$ $-\frac{1}{1}$ - ·											- 1 1		· · · · · · · · · ·			- ston buy 0
Lift Shaft	159	15-Sep-22 A	13-Jun-23																		
				· · · · · · · · · · · · · · · · ·	<u></u>	<u></u>										ED 001 :44	Ch64 1 4	۸'9 D			
FB-02 Lift Shaft - LA&B	36	15-Sep-22 A	16-Feb-23	·	- + + -											FB-02 Lift	Snait - LA	NOXED		<u></u>	
Lift Procurement	130	03-Dec-22 A	13-Jun-23	·	- <u>+</u> <u>+</u>										i	- <u>.</u>			D 001 17 0		
FB-02 Lift Shaft - LC&D	36	03-Feb-23	16-Mar-23																B-02 Lift Sh	aπ - LC&D	
Road L10 / Road L18	94	01-Dec-22 A	10-May-23	· · · · · · · · · · · · · · · · · · ·	-++-						<u> </u>										
L18 Roundabout Drainage (3 manhole)	18	01-Dec-22 A	29-Dec-22 A							ļļ			L18 Roundabout D	rainage (3 manh	nole)						
L10 Roundabout Drainage (7 manhole)	42	14-Dec-22 A	10-May-23	· · · · · · · · · · · · · · · · · · ·								· · · · · · · · · · · · · · · · · · ·								+	
[STE] Kai Hing Road / Lam Chak Street Modification	785	19-Apr-22 A	10-Jan-25																		
TMLG for XP validation	0		19-Apr-22 A	· · · · · · · · · · · · · · · · · · ·																	· -
XP validated	0		19-May-22 A	·	· · · · · · · · · · · · · · · · · · ·																
Page 17 of 29 Milestone															<u> </u>	Date	Re	vision	Cheo	ked	Approved
					_	•									18-	Dec-19	00V1		WYu		
Data Date: 03-Jan-23		ED/20	018/04	Trun	k Ro	bad 7	12 a	and I	Infras	ructure	Works	5				Feb-20	01V0		SPa/LL	.o. W	Yu
Actual Milestone				_							-					Apr-20	01V1		SPa/LL		
Actual Work			101	r Deve	JUDI	men	is a	11 20	Juin A	pron						Jul-20	01V2		SPa/LL		/Yu
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		-	Three N	Month	s Ro	ollinc	ן Pro	ogra	amme	(Dec-2	2)					Oct-20 Jul-21	01V3 02V0		SPa/LL SPa/LL		/Yu /Yu

vity Name	Dur	Start	Finish					-		2022			-									2023						
				04	September	r 18 25	02	Octob 09		30 0	Nover		27 04	Decem 4 1 11		25 01	Janua 1 08 1	<u> </u>	2 29		ruary 12 1	9 26	05	March 12	19 26	02	April	16 2
TMLG to TD for Approval	0		25-May-22 A						10 20															12	10 20			<u> </u>
TMLG Approved	0		30-Jul-22 A						 														- L L I I I I I I I				 	
Roadworks advice from RMO for TTA Implementation	0		20-Aug-22 A	ks advice	from RM	O for TT/	Almplemer	ntation																				
LCS / KHR - Public Road TTMS stages	600	03-Jan-23	10-Jan-25																	++-						·//-		
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road Junction	334	07-Mar-22 A	31-Aug-22 A																									
Stage 5 (Gas Station & HBR)		07-Mar-22 A																										
Stage 5D (HBR Left Turn Lane 2)			-																	++-								
EMSD inspection & control box construction		07-Mar-22 A	-	sportion	e control k										· · · · · · · · · ·					+						· · · · · · ·		
-	9		20-Aug-22 A 31-Aug-22 A				t traffic sig			+					····-					++-						÷÷		
Change over to permanent traffic signal Section 8D [STE] - Completion	0	ZZ-AUY-ZZ A	31-Aug-22 A 31-Aug-22 A		8D [STE]										· · · · · · · · ·					<u>+</u> +-			- L L					
	0		-		9F [STE]		- + +								· · · ·					÷								
Section 9F [STE] - Completion Kai Hing Road and Lam Chak Street Re-routing	-	02 14-1 00 4	31-Aug-22 A		9F [S I E]	- Compi									····					÷						÷		
		03-May-22 A	-		+	+	·								·											÷		
TTA - HBR eastbound slow lane		03-May-22 A	•																									
TTA - HBR eastbound fast lane		11-May-22 A	•		+	· ·	·								····-					÷+-						÷		
TTA - HBR westbound slow lane	12	17-May-22 A	-																				- L L					
TTA - HBR westbound fast lane		22-May-22 A			+	· ·									· · · · · · ·													
TTA - KHR fast lane	12	28-May-22 A				+																				ŀ		
TTA - KHR slow lane	12	07-Jun-22 A	15-Jun-22 A																									
TTA - KHR Junction Footpath	72	15-Jun-22 A					-																			.		
CLP & HKT Administration Process	96		<u> </u>	CLP&	HKT Adm	inistration	h Process																					
[STE] Road L10 (Northern)	366	29-Mar-22 A	29-Apr-23																	ļļ.								
CUE L10(N) Phase 1	266	29-Mar-22 A	15-Dec-22 A																				- L L					
CUE L10(N) Part 1 Backfill & Strut S3 Removal	7	29-Mar-22 A	19-Apr-22 A																	<u> </u>								!
CUE L10(N) Travelling Formwork Setup	4	07-Apr-22 A	23-Apr-22 A																	İİ.						l l		
CUE L10(N) Part 1 Wall & Top Slab Bay 1 (CH220 - 200)	32	26-Apr-22 A	09-May-22 A																									
CUE L10(N) Part 1 Wall & Top Slab Bay 2 (CH200 - 180)	10	10-May-22 A	20-May-22 A						1																1			
CUE L10(N) Part 1 Wall & Top Slab Bay 3 (CH180 - 160)	10	20-May-22 A	11-Jun-22 A																									
CUE L10(N) Part 1 Wall & Top Slab Bay 4 (CH160 - 140)	10	13-Jun-22 A	29-Jun-22 A									I I I I I I											· · ·					
CUE L10(N) Part 1 Backfill & Remove S2 (80m, 10d/20m)	32	10-Oct-22 A	15-Nov-22 A				1					CUE L10(N)	Part 1 I	Backfill & F	Remove S	52 (80m,	10d/20m)											
CUE L10(N) Part 1 Backfill & Remove S1 (80m, 10d/20m)	32	16-Nov-22 A	15-Dec-22 A						1						CUE L'10	(N) Part	1 Backfill & F	Remove	S1 (80m	, 10d/20m								
CUE L10(N) Phase 2	224	28-Apr-22 A	11-Feb-23																									
CUE L10(N) Part 2 Excavation to S1 (6800m3, 110m3/d & 2 strut layer @ 8d)	12	28-Apr-22 A	13-May-22 A		+							!							+									
CUE L10(N) Part 2 S1 Strutting (8d)	8	14-May-22 A	23-May-22 A			· † ·	-+												· i	÷÷								
CUE L10(N) Part 2 Excavation to S2 (6800m3, 110m3/d & 2 strut layer @ 8d)	30	24-May-22 A		strut layer	@ 8d)				 !						!													
CUE L10(N) Part 2 S2 Strutting (8d)	8	29-Jun-22 A	05-Jul-22 A																	<u>.</u>								
CUE L10(N) Part 2 Excavation to FEL (6800m3, 110m3/d & 2 strut layer @ 8d)	20	06-Jul-22 A	23-Jul-22 A	L (6800 m	3, 110m3	/d & 2 str	ut layer @	8d)												++-								
CUE L10(N) Part 2 DL, Blinding, Waterproofing, BS (80m)	21	25-Jul-22 A	12-Sep-22 A	·			- + + + -		, Waterproo	ofing, BS (8	30m)																	
CUE L10(N) Part 2 Backfill & Strut S2 Removal	7	13-Sep-22 A	19-Sep-22 A				- + +		ill & Strut S2										+	++-						++ 		
CUE L10(N) Part 2 Wall & Top Slab Bay 1 (CH140 - 120)	8	20-Sep-22 A	28-Sep-22 A				CUE L 10	(N) Par	rt 2 Wall & T	Top Slab B	Bay 1 (Cl	H140 - 120)			!													
CUE L10(N) Part 2 Wall & Top Slab Bay 2 (CH120 - 100)	10	29-Sep-22 A	08-Oct-22 A			1	- + + + -					Bay 2 (CH12	0 - 100))				i		÷-								
CUE L10(N) Part 2 Wall & Top Slab Bay 3 (CH100 - 80)	10	10-Oct-22 A	22-Oct-22 A								'	all & Top Slab	· +!	!	30)					++-						· · · · · · · · · · ·		
CUE L10(N) Part 2 Wall & Top Slab Bay 4 (CH80 - 64)	10	24-Oct-22 A	31-Oct-22 A							- H		art 2 Wall & 1		b Bav 4 (C	H80 - 64))				+								
CUE L10(N) Part 2 Backfill & Remove S2 (80m, 10d/20m)	32	12-Nov-22 A	15-Dec-22 A				-+				_				CUE L'10	(N) Part	2 Backfill & F	Remove	S2 (80m	, 10d/20m						· · · · · · ·		
CUE L10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)	32	16-Dec-22 A	11-Feb-23						 		l · · · · · · · · · · · · ·			!	!				+			0(N) Part	2 Backfi	II& Rem	nove \$1 (80	m, 10d/2	0m)	
CUE L10(N) Phase 3	199	18-Jul-22 A	30-Mar-23		+	·+	- 		 ¦				+							++ 						- 		
CUE L10(N) Part 3 ELS (Sheet pile) (5857m2, ass. 92m2/d)	64	18-Jul-22 A	22-Oct-22 A		+					EL10(N) P	Part 3 EL	S (Sheet pile)(5857r	n2.ass.92	2m2/d)					++-								
CUE L10(N) Part 3 Excavation to S1 (5500m3, 110m3/d & 2 strut layer @ 8d)	9	24-Oct-22 A	05-Nov-22 A)(N) Part 3 Ex	/ P			10m3/d	& 2 strut lave	er @ 8d))	++-						h		
CUE L10(N) Part 3 S1 Strutting (8d)	8	07-Nov-22 A	15-Nov-22 A									CUE L10(N)																
CUE L10(N) Part 3 Excavation to S2 5500m3, 110m3/d & 2 strut layer @ 8d)	25	16-Nov-22 A	01-Dec-22 A							++						avation	to S2 5500m	3. 110m	n3/d&2 <	trut laver	(h8 @					¦}}		
CUE L10(N) Part 3 S2 Strutting (8d)	20 8	02-Dec-22 A	12-Dec-22 A						 								62 Strutting (8						- L L I I I I I I			- -		
CUE L10(N) Part 3 Excavation to FEL (5500m3, 110m3/d & 2 strut layer @ 8d)	16	13-Dec-22 A	20-Jan-23											00	\~ (\ 1)				JE I 10/N)	Part 3 F	cavation	n to: FFI	(5500m3	. 110m3	/d & 2 strut	laver @	8d)	
CUE L10(N) Part 3 DL, Blinding, Waterproofing, BS (60m)	21	25-Jan-23	17-Feb-23			·	-+													,. un o ∟/ ∔∔-			11		ding, Water			1)
CUE L10(N) Part 3 Backfill & Strut S2 Removal	7	17-Feb-23	25-Feb-23																						Backfill & St			<u></u>
	/	II-FED-23	20-160-20						<u> </u>			<u> </u>		i i						i							un ovai	
Page 18 of 29																					Da	ate		<i>l</i> ision	Che	cked	App	proved
Data Date: 03-Jan-23			040/04	┳	۔ ا م	D		h -		-1	\	ہ ۔ ابر م							8-Dec		00V1		WYu			
Critical Activity		ED/2	018/04	ITU	IUK	K05		∠ a	ina Ir	mas	stru	cture	VV	OLKS						2	2-Feb		01V0		SPa/LL		WYu	
Actual Miestone			fo	r De	امررد	nn	nente	ະລ	t Sou	uth /	Anr	on								(9-Apr-		01V1		SPa/LL		WYu	
Actual Work			10			opii	GIR	Ja			γμι									1	7-Jul-2	20	01V2		SPa/LL	.0	W Yu	
		-	Three	1.	tha		line	D			~ /r		2							(9-Oct-	-20	01V3		SPa/LL	.0	WYu	
			i nree l	vior	IUNS	K 0	DITI	r (oura	mme	ย (L	Jec-2	<u>(</u>)							6	2-Jul-2	24	02V0		SPa/LL	~	W Yu	

Activity Name	Dur	Start	Finish	2022		2023		
				September October November December January 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 0	February	March 26 05 12	19 26 02	April 09 16 23
CUE L10(N) Part 3 Wall & Top Slab Bay 1 (CH64 - 40)	8	27-Feb-23	07-Mar-23				(N) Part 3 Wall & Top	
CUE L10(N) Part 3 Wall & Top Slab Bay 2 (CH40 - 20)	10	08-Mar-23	18-Mar-23				CUE L10(N) Part 3	
CUE L10(N) Part 3 Wall & Top Slab Bay 3 (CH20 - 0)	10	20-Mar-23	30-Mar-23			·;··		0(N) Part 3 Wall & T
CUE L10(N) Remaining	148	22-Jun-22 A	28-Dec-22 A					
CUE L10(N) remain ELS (Sheet pile) (1800m2, ass. 75m2/d)	24	22-Jun-22 A		ass. 75m2/d)				
CUE L10(N) remain Excavation (2100m3, 110m2/d)	20	18-Jul-22 A	24-Sep-22 A	CUEL 10(N) remain Excelusion (2100ch3, 110m2/d)				
CUE L10(N) remain Structure (1 Bay, 36d/bay)	36	26-Sep-22 A	16-Nov-22 A					
CUE L10(N) remain Backfill & Remove S2	10	17-Nov-22 A	14-Dec-22 A	CUE L I0(N) remain Structure (1 Bay, 360/bay) CUE L 10(N) remain Backfill & Remove S2		·····		
CUE L10(N) remain Backfill & Remove S1	10	15-Dec-22 A	28-Dec-22 A	CUE L 10(N) remain Backfill & Remove	e S1			
L10(N) Utilities	135	17-Sep-22 A	29-Apr-23					
L10(N) Stage 1 Sheet pile (1900m2, 55m2/d)	36	17-Sep-22 A	· ·	L10(N) Stage 1 \$heet pile (1900m2, 55m2/d)				
L10(N) Stage 1 Excavation (2000m3, 110m3/d)	18	12-Nov-22 A	02-Dec-22 A	L10(N) Stage 1 Exclavation (2000m3, 110m3/d)				
L10(N) Stage 1 Drainage & Sewerage (8 manhole)	48	03-Dec-22 A	02-Dec 2277			110(N) Stage 1	I Drainage & Sewera	ge (8 manhole)
L10(N) Stage 1 Drainage (34 Gully & 2 Catchpit)	46	03-Mar-23	29-Apr-23					Jo (o mannaio)
L10(N) Stage 1 Dranage (34 Guily & 2 Gathpit) L10(N) Stage 1 Watermain (100m, 30m/wk)	40	03-Mar-23	23-Apr-23					110(
L10(N) Stage 1 Waterman (100m, 00m/wk) L10(N) Stage 2 Sheet pile (1179m2, 55m2/d)	22	03-Mar-23	28-Mar-23	╶╍╴┋╴╴┋╴╴┋╴╴╞╴╴╞╴╴╶┋╴╴╶┊╴╴╶┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴╴┊╴╴┊╴╴╴┊╴			110(N) St	age 2 Sheet pile (11
L10(N) Stage 2 Sites (11/31/2, 331/20) L10(N) Stage 2 Excavation (2610m3, 110m3/d)	22	29-Mar-23	20-Mar-23					
	36	03-Mar-23	18-Apr-23	╶╍╴┊╴╴╶┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╶┊╴╴╶┊				
AT-GRADE ROAD [AGR]								
Permanent Structure	36	03-Mar-23	18-Apr-23					
AGR - Formation to required level + SRT	18	03-Mar-23*	23-Mar-23				AGR Formati	on to required level
AGR - Sub-base + SRT	18	24-Mar-23	18-Apr-23					AGR - Su
DEPRESSED ROAD [DPR]	309	28-Mar-22 A	19-Apr-23					
Portal Structure	309	28-Mar-22 A	19-Apr-23					
Forecast	309	28-Mar-22 A	19-Apr-23					
Remaining DPR Structure	197	27-Jun-22 A	21-Feb-23					
External Wall		27-Jun-22 A	08-Oct-22 A	╶╌╴┊╴╴╶┊╴╴┊╴╴┊╴╴╶┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╴┊╴╴╶┊╴╴┊╴╴				
Chipping	7	27-Jun-22 A	07-Jul-22 A					
Scaffolding erection	2	08-Jul-22 A	13-Jul-22 A					
Waterproofing	1	14-Jul-22 A	20-Jul-22 A	╶╌╴┊╶╴╶┊╴╴┊╴╴╎╞╴╴╶╞╶╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╎╶┊╴╴╶┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴				
Formworks & rebar fixing	7	21-Jul-22 A	07-Oct-22 A	Formworks & rebar/fixing				
Concreting	1		08-Oct-22 A	L Concreting	<u>i</u>	· · · · · · · · · · · · · · · · · · ·		
Internal Wall	29	15-Aug-22 A	19-Sep-22 A					
Rebar fixing & form work erection	8	15-Aug-22 A	15-Sep-22 A	Rebar fixing & formwork erection				
Concreting	1		16-Sep-22 A			· · · · · · · · · · · · · · · · · · ·	·····	
Formworks dismantle	2	17-Sep-22 A		Formworks dismantle				
Concrete Strut	19	10-Oct-22 A	· ·					
Scaffolding erection	5	10-Oct-22 A	14-Oct-22 A	Scaffølding erection		·····		
Formworks & rebar fixing	5	15-Oct-22 A	18-Nov-22 A	Formworks & rebar fixing				
Concreting	1	19-Nov-22 A		li Con¢reting				
Formworks dismantle	1		21-Nov-22 A	I Formworks dismantle				
Base Slab	11							
Scaffolding erection	5		23-Nov-22 A	Şcaffolding erection	i			
Strut S3 dismantling	9	21-Nov-22 A		Strut S3 dismantling		·;··		
Rebar fixing	4		28-Nov-22 A	Rebar fixing				
Concreting	1	29-Nov-22 A		I Concreting				
Adit Wall	54	14-Dec-22 A						
Strut S4b dismantling	5	14-Dec-22 A		Strut S4b dismantling				
Strut S3b dismantling	5	20-Dec-22 A	27-Dec-22 A	Strut S3b/dismantling				
Return Wall pour 1	5	03-Jan-23	07-Jan-23	Return Walk pour 1			·····	
Return Wall pour 2	4	09-Jan-23	12-Jan-23	Returni Wall pour 2				
Adit Wall pour 1	4	13-Jan-23	17-Jan-23	Adit Wall pour 1	<u>+</u> <u>+</u> <u>+</u> 			
Adit Wall pour 2	4	18-Jan-23	25-Jan-23	Adit Wall p				
Contruction of Carriageway Slab	9	26-Jan-23	04-Feb-23		Contruction of Car	rtiageway Slab		
					Date	· · · · ·	Checked	Approved
Page 19 of 29					18-Dec-19		WYu	
Data Date: 03-Jan-23		ED/2	018/04	Frunk Road T2 and Infrastructure Works	22-Feb-20			WYu
Actual Miestone			_		09-Apr-20			WYu
Actual Work			TO	Developments at South Apron	17-Jul-20			W Yu
		_	 .		09-Oct-20			WYu
			I hree	onths Rolling Programme (Dec-22)	02-Jul-21			WYu
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Activity Name	Dur	Start	Finish			1		022			_	-							2023			
				04	September	5 02	October 09 16 23	Novembe 30 06 13		27 04	Decem	ber 18 25	01	Janu 08	uary 15 22	29		ebruary	$\frac{1}{26}$	March 05 12	19 26 02	April 09 16 23
Stage 1B completion	0		04-Feb-23									10 20			10 22		_	ge 1B comple				
Remaining external wall + Gain strength	9	06-Feb-23	15-Feb-23		- + + + + + + +				 		! 							Rema	ain ing ex	ternal wall + Ga	ain strength	
Strut S1 & temporary steel bridge removal	6	16-Feb-23	21-Feb-23																Strut S1	& temporary st	eel bridge removal	
Portal Structure	306	28-Mar-22 A	19-Apr-23																			
West side Capping Beam (B4-B9)	18	28-Mar-22 A	02-Apr-22 A															++				
East side Capping Beam (B4-B9)	18	31-Mar-22 A	07-Apr-22 A																			
Portal Beam part 1 (B7-B9)	18	08-Apr-22 A	18-May-22 A																			
Portal Beam part 2 (B4-B6)	18	09-May-22 A	16-Jun-22 A						 													
Steel Beam location Capping Beam	12	27-Jun-22 A	08-Oct-22 A				Steel Beam location	Capping Beam			· · · · · · · · · · · · · · · · · · ·										· · · · ·	
Steel Portal Beam installation (B1-B3)	12	10-Oct-22 A	20-Oct-22 A				Steel Po	rtal Beam installatio	n (B1-₿3)												
Capping Beam + Portal Beam	18	22-Feb-23	14-Mar-23																	Ca	pping Beam + Por	al Beam
Portal secondary structure - Wall	12	15-Mar-23	28-Mar-23																		Portal s	econdary structure - V
Portal secondary structure - Slab	15	29-Mar-23	19-Apr-23																			Portal se
WEST VENTILATION BUILDING [WVB]	300	19-Mar-22 A	06-May-23																			
Excavation & Strutting	20	19-Mar-22 A	04-Apr-22 A																			
Excavation to FEL 9,230m ³	20	19-Mar-22 A	04-Apr-22 A						 		! 						- 4					
Building Structure	300	05-Apr-22 A	06-May-23															· · · · · · · · · · · · · · · · · · ·				
WVB - Base Slab	67	05-Apr-22 A	30-Jun-22 A										- -					· · · · · · · · · · · · · · · · · · ·		·		
WVB - Earth Mat Installation	24	05-Apr-22 A															- +	· · · · · · · · · · · · · · · · · · ·				
Base Slab construction Bay 2 & 4	20		24-May-22 A		- <u>1</u> <u>1</u> <u>1</u> 1 I I I 1 I I 1 I I												- +	· · · · · · · · · · · · · · · · · · ·				
Base Slab construction Bay 1, 3 & 4	20	19-May-22 A	-						 							-+	- +					
Tower Crane Erection	7	20-Jun-22 A	30-Jun-22 A		- -													÷				
Tower Crane Operation	0		30-Jun-22 A						 													
Basement Structure	250	20-Jun-22 A	06-May-23																			
WVB - Strut S4 Removal	18	20-Jun-22 A	15-Jul-22 A			1												1		· · · · · · · · · · · · · · · · · · ·		
WVB - Basement 2 Extenal Wall	21	05-Jul-22 A	02-Aug-22 A	l Wall														· + +				
WVB - Basement 2 External wall waterproofng & Mass Fill	18	18-Jul-22 A	16-Aug-22 A	nent 2 Ex	xternal wall waterpr	oofng & M	lass Fill		 							-+	- +					
WVB - Strut S3 Removal	18	17-Aug-22 A	20-Sep-22 A	\	WVB-	- Strut S3 I	Removal															
WVB - Basement 2 Wall/Slab	36	29-Aug-22 A	26-Nov-22 A							WVŖ - Bas	sement 2	2 Wall/Şlab										
WVB - Strut S2 Removal	18	15-Dec-22 A	26-Jan-23													WVB	- Strut	S2 Removal				
	20	13-Jan-23	20-Feb-23	1		1 1			: :									· · · · · · · · · · · · · · · · · · ·	WVB-B	asement 1a Wal	M	
WVB - Basement 1a Wall	30	10-0411-20	20-1 60-20		- + +				, , , , , , , , , , , , , , , , , , ,							- +	- +	· • •		·		
WVB - Platform removal	12	27-Jan-23	09-Feb-23						 							- +	- +	WVB - Plati	form rem			
WVB - Platform removal WVB - Basement 1 External wall waterproofng & Mass Fill	12 24																- +	WVB - Plati	form rem			waterproofng & Mass
WVB - Platform removal WVB - Basement 1 External wall waterproofng & Mass Fill WVB - Strut S1 Removal		27-Jan-23 03-Feb-23 03-Mar-23	09-Feb-23 02-Mar-23 30-Mar-23														- +	WVB - Plati	form rem	WVB - Baseme	ent 1 External wall	waterproofng & Mass Strut S1 Removal
WVB - Platform removal WVB - Basement 1 External wall waterproofing & Mass Fill WVB - Strut S1 Removal WVB - Basement 1b Wall/Slab	24	27-Jan-23 03-Feb-23 03-Mar-23 10-Mar-23	09-Feb-23 02-Mar-23 30-Mar-23 06-May-23															WVB - Plati	form rem	WVB - Baseme	ent 1 External wall	waterproofng & Mass
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Activity Name		Dur	Start	Finish									2022												
		Dui	otart	i inori		ptemb			00	-	tober				ovembe						25	01		nuary	20
C&C - Wall Stage 1		9	15-Oct-22 A	09-Nov-22 A	04	11	18	25	02	09	16	23	30	06 C	13 &C - W	20 all Sta	27 ne 1	04	11	18	25	01	08	15	22
C&C - Wall Stage 2		12	10-Nov-22 A	29-Nov-22 A					+		L	 					G = = + = = =	C-Wal	l Stao	e 2			، د ـ ـ ـ ـ ـ ـ		
Carraigeway Slab		88	15-Dec-22 A	03-Apr-23		+-	+		+																· + - + + - +
Middle Carraigeway Slab (Po	our 1)	12	02-Feb-23	16-Feb-23					+																
Road Slab Falsework erection	.,	1	02-Feb-23	06-Feb-23					+																
Road Slab Rebar Fixing		4	02-Feb-23	10-Feb-23					+																
Road Slab Concrete		4	11-Feb-23	10-Feb-23					+																
Road Slab Gainstrength		3	13-Feb-23	15-Feb-23					+																·
Change Access to Middle		0	16-Feb-23	10-1 60-20	·					 		 		 									، د ـ ـ ـ ـ ـ ـ		
External Carraigeway Slab (I	EB Pour 2 + WB Pour 3)	8	25-Mar-23	03-Apr-23			+		+																
Road Slab Falsework erection		4	25-Mar-23	29-Mar-23					+																
Road Slab Rebar Fixing		4	30-Mar-23	03-Apr-23					+																·
Cell 1 / 2		80	15-Dec-22 A	24-Mar-23					+					 				!-							+
Below Road Level		80	15-Dec-22 A	24-Mar-23																					
BRL Middle Wall (Pour 1)		36	15-Dec-22 A	01-Feb-23					+																
Preparation works / Postdrilling		6	15-Dec-22 A							L	L	 		 						!	repara	tion wo	rks/Pi	stdrilli	
BRL Scaffolding Erection		6	22-Dec-22 A	30-Dec-22 A					+															ing Ere	•
BRL CJ Tripping & Coupler Expos		7	31-Dec-22 A	10-Jan-23					+			 													ripping 8
BRL Waterproofing & Falsework e		6	11-Jan-23	10-Jan-23					+															4	RL Water
BRL Steel Fixing & Formworks		6	18-Jan-23	27-Jan-23		<u>-</u>			+																
BRL Wall Concrete		1	28-Jan-23	28-Jan-23			+		+	 		L													
BRL Wall Gainstrength + Formwo	rks removal	3	30-Jan-23	01-Feb-23					÷																
BRL External (EB Pour 2 + Wi		32	16-Feb-23	24-Mar-23					+																
Preparation works / Postdrilling	2 : 04: 0,	6	16-Feb-23	22-Feb-23			+		+			 		 											
BRL Scaffolding Erection		3	23-Feb-23	25-Feb-23					+																
BRL CJ Tripping & Coupler Expos		7	27-Feb-23	06-Mar-23					+			 													
BRL Waterproofing & Falsework e		6	07-Mar-23	13-Mar-23		+-	+		+																
BRL Steel Fixing & Formworks		6	14-Mar-23	20-Mar-23					+																
BRL Wall Concrete		1	21-Mar-23	21-Mar-23					+	 		 		 											
BRL Wall Gainstrength + Formwor	rks removal	3	22-Mar-23	24-Mar-23					+		}														·
SUB-SEA TBM TUNNEL - V		328	01-Feb-22 A	31-Mar-23										i i									 	i	
Precast Fabrication	LOTBOOND	323	01-Feb-22 A	30-Mar-23			+		+																
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TBM Precast Segments		293	28-Feb-22 A	30-Mar-23			+		<u>.</u>					; ;				·							<u>+</u>
Precast TBM Segment - 80%		36	28-Feb-22 A	05-Oct-22 A					+	recast	TBM S	egmen	[-80%	 						 			י ו ע		
Precast TBM Segment - 90%		36	06-Oct-22 A	16-Feb-23		+-	+		÷					, , ,											+
Precast TBM Segment - 100%		36	17-Feb-23	30-Mar-23					+					}											
Service Gallery		277	02-Mar-22 A	30-Mar-23		+-	+		+					 									4		+
Precast Service Gallery - 6%		24	02-Mar-22 A	02-Apr-22 A																					
Precast Service Gallery - 10%		24	03-Apr-22 A	14-May-22 A					+					; ;											
Precast Service Gallery - 20%		24	16-May-22 A	18-Jul-22 A		_ <u></u>		<u>.</u>				, , 													
Precast Service Gallery - 30%		24	19-Jul-22 A	14-Sep-22 A		Pr	ecast	Servic	ce Gall	əry - 30					40										+
Precast Service Gallery - 40%		24	15-Sep-22 A	20-Oct-22 A		+ -	+		+			Precasi	Servic	e Galle	ery - 40	% 				0					
Precast Service Gallery - 50%		34	21-Oct-22 A	29-Nov-22 A					+									ecast S	ervice	Galler					CO0
Precast Service Gallery - 60%		24	30-Nov-22 A	30-Dec-22 A					+													Preca	st Serv	ce Gai	ery - 60%
Precast Service Gallery - 70%		24	31-Dec-22 A	02-Feb-23	·		i																		<u>-</u>
Precast Service Gallery - 80%		24	03-Feb-23	02-Mar-23		+-	+		+																+
Precast Service Gallery - 90% OHVD Slab		24	03-Mar-23	30-Mar-23					÷		¦														
		323	01-Feb-22 A	30-Mar-23		+ -	+		+		¦ 		; ;	; ;									; 	4	
Concrete Mix - Plant Trial		72	01-Feb-22 A	12-May-22 A		+-	<u> </u>																		
Precast OHVD Slab - Mould Fabrication	on & Setup	72	01-Feb-22 A	21-Sep-22 A		+ -	ч 	recas	t _i OH VL	Slab -	Mould	Fabric	ation &	Setup											
Precast OHVD Slab - Inspection		12	22-Sep-22 A	13-Dec-22 A																					
Precast OHVD Slab - Mass Productio	n Start	0	14-Dec-22 A						÷										• Р	recast	OHVD	Slab - I	Vlass H	roducti	on Start
Precast OHVD Slab - 3%		24	14-Dec-22 A	02-Feb-23		i					1												I		
Page 21 of 29 Data Date: 03-Jan-23	 Milestone Planned Bar Critical Activity Actual Milestone Actual Work 		ED/2	018/04 fo	Trui Tor Dev												e V	Vor	ks						
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Precast OHVD Slab - 6%	24	03-Feb-23	02-Mar-23	11 10 25		13 20 21 04	11 10 23			Precast OHVI			10
Precast OHVD Slab - 0%	24	03-Mar-23	30-Mar-23		+						L	ast OHVD S	Slah
TBM Tunnelling	24	14-Mar-22 A	31-Mar-23		<u> </u>			<u> </u>					
WB TBM Tunnelling CH6725-6732 ALL/CDG 90m	/	14-Mar-22 A	04-Apr-22 A		++++++++								
WB Stoppage due to Disc Cutter Issue	/		06-May-22 A										
WB TBM Tunnelling CH6732-6752 ALL/CDG 110m	7		23-May-22 A										
WB TBM Stoppage due to Maind Drive issue	7	24-May-22 A		ue;							L		
WB TBM Tunnelling CH6752-6756 ALL/CDG 114m	1	18-Jul-22 A	22-Jul-22 A	L/CDG 114m									
WB TBM Tunnelling CH6756-6777 CDG/Boulder 135m	4	23-Jul-22 A	31-Jul-22 A	-6777 CDG/Boulder 135m							ļ		
WB TBM Tunnelling CH6777-6789 CDG/Boulder 147m	3	01-Aug-22 A		H6 777-67 89 CDG/Boulder 1									
WB TBM Tunnelling CH6789-6797 ALL/CDG 155m	38	07-Aug-22 A		ing CH6789-6797 ALL/CDG			<u> </u>						
WB TBM Stoppage for ISIG 1 Installation	9	13-Aug-22 A	26-Aug-22 A	TBM Stoppage for ISIG 1 I									
WB TBM Tunnelling CH6797-7098 ALL/CDG 456m	37	27-Aug-22 A	28-Sep-22 A		WB TBM Tunnelling CH6797-7098 ALL/CDC	3 456m							
WB TBM Tunnelling CH7098-7198 ALL/CDG 556m	11	29-Sep-22 A	06-Oct-22 A		WB TBM Tunnelling CH7098-7198 A	LL/CDG 556m							
WB TBM Tunnelling CH7198-7218 ALL/CDG 576m	2	07-Oct-22 A	07-Oct-22 A		WB TBM Tunnelling CH7198-7218	ALL/CDG 576m							
WB TBM Tunnelling CH7218-7240 CDG/Boulder 598m	3	08-Oct-22 A	09-Oct-22 A		WB TBM Tunnelling CH7218-724	0 CDG/Boulder 598m							
WB TBM Tunnelling CH7240-7284 ALL/CDG 642m	4	10-Oct-22 A	12-Oct-22 A		WB TBM Tunnelling CH7240-7	/284 ALL/CDG 642m							
WB TBM Tunnelling CH7284-7379 ALL/CDG 737m	9	13-Oct-22 A	23-Oct-22 A		WB TBM Tunnelling	g CH7284-7379 ALL/CD	G 737m				L		
WB TBM Tunnelling CH7379-7391 CDG/Boulder 749m	2	24-Oct-22 A	28-Oct-22 A			nelling CH7379-7391 CD							
WB TBM Tunnelling CH7391-7434 Boulder 792m	7	29-Oct-22 A	13-Nov-22 A			WB TBM Tunnelling Cl		792m			·		
WB TBM Tunnelling CH7434-7466 CDG/Boulder 824m	<u>ا</u>	14-Nov-22 A	27-Nov-22 A			ii . i. ⁷		7466 CDG/Boulder 824m					
WB TBM Tunnelling CH7466-7623 ALL/CDG 98 1m	15	28-Nov-22 A	17-Jan-23	<u> </u>	<u> </u>			4 - •	Tunnelling CH7466+7623 Al	L/CDG 981m	}		
WB TBM Tunnelling CH7623-7650 CDG/Boulder 1008m	15	18-Jan-23	21-Jan-23		+++++-++-++-++			4-4	3M Tunnelling CH7623-765		18m		
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WB TBM Tunnelling CH7650-7722 ALL/CDG 1080m	1									ng CH7722-7792 C			
WB TBM Tunnelling CH7722-7792 CDG/Boulder 1150m	9	29-Jan-23	06-Feb-23		++++++-++-++-+					ng CH1722-1192 C	+ i i	TBM Tunne	
WB TBM Tunnelling CH7792-8445 ALL/CDG 1803m	53	07-Feb-23	31-Mar-23										enin
Gallery B Installation	168	- 5											
ISIG Assembly at Cell 2	12	15-Aug-22 A	14-Sep-22 A	ISIG Assemt									
WB TBM Tunnel - Gallery B CH6642-6705 63m CP7	6		26-Sep-22 A		VB TBM Tunnel - Gallery B CH6642-6705 63r	n CP7							
WB Sub-sea Galery B Installation started	0	15-Sep-22 A		◆ WB Sub-se	a Galery B Installation started						· · · · · · · · · · · · · · · · · · ·		
WB TBM Tunnel - Gallery B CH6705-6803 100m CP8	11	27-Sep-22 A	06-Oct-22 A		WB TBM Tunnel - Gallery B CH6705								
WB TBM Tunnel - Gallery B CH6803-6904 100m CP9	10	07-Oct-22 A	25-Oct-22 A		WB TBM Tunnel	- Gallery B CH6803-690	4 100m CP9						
WB TBM Tunnel - Gallery B CH6904-7004 100m CP10	8	26-Oct-22 A	05-Nov-22 A		WB TB	3M Tunnel - Gallery B Cl	16904-7004 100m CP	P10					
WB TBM Tunnel - Gallery B CH7004-7103 100m CP11	10	07-Nov-22 A	17-Nov-22 A			WB TBM Tunnel - (Gallery B CH7004-710	03 100m CP11					
WB TBM Tunnel - Gallery B CH7103-7203 100m CP12	10	18-Nov-22 A	30-Nov-22 A			WB T	BM Tunnel - Gallery P	3 CH7103-7203 100m CP12					
WB TBM Tunnel - Gallery B CH7203-7303 100m CP13	7	01-Dec-22 A	10-Dec-22 A				B WB TBM Tunnel	Gallery B CH7203-7303 100					
WB TBM Tunnel - Gallery B CH7303-7403 100m CP14	7	12-Dec-22 A	10-Jan-23					WB TBM Tunnel	- Gallery B CH7303-7403 1	00m CP14			
WB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	11-Jan-23	18-Jan-23						Tunnel - Gallery B CH7403				
WB TBM Tunnel - Gallery B CH7503-7603 100m CP16	8	25-Jan-23	02-Feb-23		· · · · · · · · · · · · · · · · · · ·		·				h		
WB TBM Tunnel - Gallery B CH7603-7703 100m CP17	7	07-Feb-23	14-Feb-23						W/R TRM	Tunnal - Callany B (ՐH76ՈՉ₋77ՈՉ՝1ՈՈr	n CP17	
WB TBM Tunnel - Gallery B CH7703-7803 100m CP18	7	15-Feb-23	22-Feb-23		++				₩В ТЫМ	B TBM Tunnel - Ga	llerv B CH7703-78	303 100m CF	P18
WB TBM Tunnel - Gallery B CH7803-7903 100m CP19	7	23-Feb-23	02-Mar-23							WR TBM Tun	hel - Gallery B CH	7803-7903 1	100r
WB TBM Tunnel - Gallery B CH7903-8001 100m CP20	7	03-Mar-23	10-Mar-23	l-iiiiiiii	+						BM Tunnel - Galler		
WB TBM Tunnel - Gallery B CH8001-8099 100m CP21	7	11-Mar-23	10-Mar-23		+						WB TBM Tunnel		
WB TBM Tunnel - Gallery B CH8001-8099-8196 100m CP21	/ 0	20-Mar-23	28-Mar-23		<u> </u>							3M Tunnel -	Gal
-	0				+								
Forecast	46	14-Aug-22 A	18-Oct-22 A	- Dh-#									
Lower ISIG into Shaft	3	14-Aug-22 A	15-Aug-22 A		L								
Gallery G-W1 to W4 by crawler crane @ 1 no/d	2	16-Aug-22 A	-	1 to W4 by crawler crane @	1 no/d								
Thrust Frame Removal	6	18-Aug-22 A		ame Removal	<u> </u>			-					
Install abd Assembly of Spreader Beam	6	18-Aug-22 A	-	abd Assembly of Spreader	*******								
Gallery EMVD installation by crawler crane	1	22-Aug-22 A	-	EMVD installation by crawl	crane						ļļ		
ISIG Commissioning	6	24-Aug-22 A	30-Aug-22 A		to G-W11 installation by ISIG				i i i i		i i li	· · ·	
Gallery G-W5 to G-W11 installation by ISIG	3	31-Aug-22 A	12-Sep-22 A	· · · · · · · · · · · · · · · · · · ·									
WB ISIG Gallery B Installation start	0	31-Aug-22 A		WB ISIG Gallery B Installa	ion start								
age 22 of 29						,	· · · · · · · · · · · · · · · · · · ·		Date	Revision	Checked	App	pro
Disposed Par			• • • · -	· - · -			.		18-Dec-19	00V1	WYu		
ata Date: 03-Jan-23		ED/20	U18/04	I I runk Roa	ad T2 and Infrastru	Jcture Wc	orks		22-Feb-20	01V0	SPa/LLo	WYu	
Actual Milestone			_						09-Apr-20	01V1	SPa/LLo	WYu	
Actual Work			IC	n nevelopu	nents at South Apr				17-Jul-20	01V2	SPa/LLo	WYu	
		_							09-Oct-20	01V2	SPa/LLo	WYu	
		-	Ihree	Months Rol	ling Programme (Dec-22)			02-Jul-21	01V3 02V0	SPa/LL0	WYu	
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Activity Name	Dur	Start	Finish						2022										
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Gallery B installation FTR-11 to FTR-7	3	13-Sep-22 A	13-Sep-22 A	Gallery Binst							1	20			11 10	- 20		00 10	
Steel Bridge Installation	1	14-Sep-22 A	14-Sep-22 A	I Steel Bridge	e Ins	tallation								!					
WB Sub-sea Galery B Installation started	0	15-Sep-22 A	· · ·	♦ WB Sub-se	aĠ	alery B Inst	allation	started											
WB Gallery B CH6642-6742 100m @4nos/day	11	15-Sep-22 A	29-Sep-22 A			VB Gallery	B CH66	642-6742	2 100n	n @4n	os/day	·//							
WB Gallery B CH6742-6855 80m @6nos/day	6	30-Sep-22 A	18-Oct-22 A				۱	VB Galle	ery B (CH674	2-6855	80m @6n	os/day	y					
SUB-SEA TBM TUNNEL - EASTBOUND	297	26-Mar-22 A	17-Apr-23	·															
TBM Tunnelling	364	26-Mar-22 A	17-Apr-23																
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m	15	26-Mar-22 A	02-Apr-22 A		- -									i					
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	7	03-Apr-22 A	27-Apr-22 A		- + + -							·}							
EB TBM Tunnelling CH6756-6775 CDG/Boulder 135m	4	28-Apr-22 A	04-May-22 A		- 11-							· · · · · · · · · · · · · · · · · · ·		!			[- -	·····	
WB TBM Stoppage for ISIG 1 Installation	9	06-May-22 A	12-May-22 A		- -												-+;		
EB TBM Tunnelling CH6775-6789 CDG/Boulder 149m	3	13-May-22 A	-		- + + -							·					-+		
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m	38	22-May-22 A			- -														
EB TBM Tunnelling CH7098-7198 ALL/CDG 558m	11	22-Jun-22 A	28-Jun-22 A		- + + -														
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m	2	29-Jun-22 A	05-Jul-22 A		- + + -	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·		!			;	د ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	+-
EB TBM Tunnelling CH7218-7240 CDG/Boulder 600m	3	06-Jul-22 A	12-Jul-22 A	r 600 m	- -														+-
EB TBM Tunnelling CH7240-7284 ALL/CDG 644m	4	13-Jul-22 A		84 ALL/CDG 644m	- + + -							·		!					
EB TBM Tunnelling CH7284-7379 ALL/CDG 739m		29-Jul-22 A		elling CH7284-7379 ALL/CI	DG	739m													
EB TBM Tunnelling CH7379-7391 CDG/Boulder 751m	2	16-Aug-22 A	-	nnelling CH7379-7391 CDG															
EB TBM Tunnelling CH7391-7434 Boulder 794m	7	18-Aug-22 A	06-Sep-22 A					r 794m									-+;		
EB TBM Tunnelling CH7434-7466 CDG/Boulder 826m	4	07-Sep-22 A	11-Sep-22 A	EB TBM Tunne	- + + -				der 82	26m									
EB TBM Tunnelling CH7466-7623 ALL/CDG 983m	15	12-Sep-22 A	05-Oct-22 A		- + +							DG 983m							
EB TBM Tunnelling CH7623-7650 CDG/Boulder 1010m	15	06-Oct-22 A	11-Oct-22 A							- i		DG/Boul	der 10	10m					
EB TBM Tunnelling CH7650-8445 ALL/CDG 1805m	67	12-Oct-22 A	05-Feb-23		- + + -	····										4	<u> </u>		<u>-</u>
EB TBM Tunnelling CH8445-8510 CDG/Boulder 1870m	9	06-Feb-23	14-Feb-23																
EB TBM Tunnelling CH8510-8522 ALL/CDG 1882m	1	15-Feb-23	15-Feb-23		- + + -														
EB TBM Tunnelling CH8522-8532 CDG/Boulder 1892m	1	16-Feb-23	16-Feb-23																
EB TBM Tunnelling CH8532-8730 Boulder/Granite 2090m	39	17-Feb-23	27-Mar-23		-++-														
EB TBM Tunnelling CH8730-8834 Granite 2194m	21	28-Mar-23	17-Apr-23														;		
Gallery B Installation	281	11-Apr-22 A	11-Apr-23			· · · · · · · · · · · · · · · · · · ·						 							
ISIG Assembly at Cell 2	12	23-May-22 A	18-Jun-22 A											!					
EB Sub-sea Galery B Installation started	0	31-May-22 A	10-5011-22 A		- + + -														
EB TBM Tunnel - Gallery B CH6642-6705 63m CP7	8	20-Jun-22 A	28-Jun-22 A									÷							
EB TBM Tunnel - Gallery B CH6705-6803 100m CP8	10	29-Jun-22 A	15-Jul-22 A	0m CP8	-++-														
EB TBM Tunnel - Gallery B CH6803-6904 100m CP9	9	16-Jul-22 A		6803-6904 100m CP9															
EB TBM Tunnel - Gallery B CH6904-7004 100m CP10	3	30-Jul-22 A		nel - Gallery B CH6904-70	04:1	00m CP10												۱ د د	
EB TBM Tunnel - Gallery B CH7004-7103 100m CP11	9	18-Aug-22 A	-	EB TBM Tunnel - Galle	- + + -			0m CP1	1										
EB TBM Tunnel - Gallery B CH7103-7203 100m CP12	9	02-Sep-22 A	12-Oct-22 A		- 					l Nerv B	CH710	3-7203 10)0 m (C	P12					
EB TBM Tunnel - Gallery B CH7203-7303 100m CP13	8	13-Oct-22 A	24-Oct-22 A				-+								0m CP13				
EB TBM Tunnel - Gallery B CH7303-7403 100m CP14	8	25-Oct-22 A	05-Nov-22 A			·····		·;				(*)			303-7403 10	0 m CP1	4		
EB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	07-Nov-22 A													llery B CH74		4	CP15	
EB TBM Tunnel - Gallery B CH7503-7603 100m CP16	7	18-Nov-22 A	26-Nov-22 A		- + -					+							4- -	03 100m CP1	6
EB TBM Tunnel - Gallery B CH7603-7703 100m CP17	8	28-Nov-22 A	13-Dec-22 A									·····			!		4	ry B CH7603	
EB TBM Tunnel - Gallery B CH7703-7803 100m CP18	7	13-Dec-22 A	20-Dec-22 A		-+													- Gallery B C	
EB TBM Tunnel - Gallery B CH7803-7903 100m CP19	7	21-Dec-22 A	30-Dec-22 A														4 - 4	3M Tunnel - G	
EB TBM Tunnel - Gallery B CH7903-8001 100m CP20	7	31-Dec-22 A	10-Jan-23														!	EB TBM	
EB TBM Tunnel - Gallery B CH8001-8099 100m CP21	8	03-Feb-23	11-Feb-23		- + -	· · · · · · · · · · · · · · · · · · ·											[i		
EB TBM Tunnel - Gallery B CH8099-8196 100m CP21 EB TBM Tunnel - Gallery B CH8099-8196 100m CP22	8	13-Feb-23	21-Feb-23										-						
EB TBM Tunnel - Gallery B CH8099-8196 100m CP22 EB TBM Tunnel - Gallery B CH8196-8299 100m CP23	0 14	03-Mar-23	18-Mar-23									 							
EB TBM Tunnel - Gallery B CH8299-8392 100m CP23	14	20-Mar-23	10-ivia1-23																
Forecast	99	20-iviar-23	20-Jul-22 A		- -	· · · · · · · · · · · · · · · · · · ·								!					
Ramp pre-assembly at surface	24	11-Apr-22 A	25-Apr-22 A	· · · · · · · · · · · · · · · · · · ·										!					
Shifting way curve shape extension & Footing	6	25-Apr-22 A	· ·		- - - - - - - - - -														
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Page 23 of 29																			

Page 23 of 29 Data Date: 03-Jan-23

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Dec-22)

		F	ebruary	1	2023		March				Ap	ril	
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				September	25	02	Oct 09	ober 16 2	3 30	Nov	/ember 13 2	20	27		ecembe	er 18 2	5 01		anuary 15	22 29
Loader pre-asembly	10	26-Apr-22 A	04-May-22 A			1														
Construction of Notch/Mass Fill to C&C Road Level	9	05-May-22 A	12-May-22 A		+		L	L L 												
Lower ISIG into Shaft	3	05-May-22 A	12-May-22 A]
Thrust Frame Removal (TBC)	6	13-May-22 A	19-May-22 A		+ !	+ +														
Install and Assembly of Spreader beam etc	6	13-May-22 A	23-May-22 A		+		+ 													
ISIG Commissioning	6	13-May-22 A	30-May-22 A																	
Gallery G-E1 to E4 by crawler crane @ 1 no/d	2	23-May-22 A	25-May-22 A		+ 	+ +	L 	L L											J	J
Gallery EMVD installation by crawler	1	26-May-22 A	27-May-22 A																	
EB ISIG Gallery B Installation start	0	31-May-22 A																		
Gallery G-E5 to G-E11 installation by ISIG	3	31-May-22 A	13-Jun-22 A		+ 		 - -													
Steel Bridge Installation	1	14-Jun-22 A	15-Jun-22 A																	
Gallery B installation inside FTR-1 to FTR-7	3	16-Jun-22 A	18-Jun-22 A				· · · · · · · · · · · · · · · · · · ·													
EB Gallery B CH6642-6742 100m @4nos/day	11	20-Jun-22 A	07-Jul-22 A																	
EB Gallery B CH6742-6855 80m @6nos/day	6	08-Jul-22 A	20-Jul-22 A	s/day]	
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a/b)	328	31-Mar-22 A	29-May-23			-														
CP Precast Lining Fabrication	257	31-Mar-22 A	02-Mar-23		+ !	 														
CP Precast Lining Segment - 30%	5	31-Mar-22 A	26-Apr-22 A		+	++	 	L L												
CP Precast Lining Segment - 40%	24	27-Apr-22 A	23-May-22 A			•														
CP Precast Lining Segment - 50%	24	24-May-22 A		CP Precast Lining	Segn	ient - 50)%													ii
CP Precast Lining Segment- 60%	24	05-Sep-22 A	08-Oct-22 A			+ <u>+</u>	CP F	recast Lini	ing Segn	n ent- 60 %										4
CP Precast Lining Segment - 70%	24	10-Oct-22 A	02-Nov-22 A			;		<u>-</u>		CP Preca	astLining	g Seign	nent - 7	/0%					1	
CP Precast Lining Segment - 80%	24	03-Nov-22 A	30-Nov-22 A		+	+ +									st Linir	ng Segm	ent - 80°	6		
CP Precast Lining Segment - 90%	24	01-Dec-22 A	02-Feb-23		+															
CP Precast Lining Segment - 100%	24	03-Feb-23	02-Mar-23	·	÷	; ;	 													
WB CP Tympanum Structure	124	15-Oct-22 A	30-Mar-23		±	++	L	LL											J	
CP7 - WB - Tympanum Civil works CH6705	24	15-Oct-22 A	10-Nov-22 A	· · · · · · · · · · · · · · · · · · ·		 		L			P7 - WE	3 - Tyn	npan'un	n Civil v	works	CH6705				
CP8 - WB - Tympanum Civil works CH6803	24	24-Oct-22 A	12-Nov-22 A		+	++				; ;						CH6803	;			
CP9 - WB - Tympanum Civil works CH6904	24	14-Nov-22 A	15-Dec-22 A		+	++		L L				· ¦- *				'		inum Cir	vil work	s CH6904
CP10 - WB - Tympanum Civil works CH7004	24	21-Nov-22 A	30-Dec-22 A			;					i [<u></u>			anum Civil w
CP11 - WB - Tympanum Civil works CH7103	24	16-Dec-22 A	02-Feb-23		+	++														
CP12 - WB - Tympanum Civil works CH7203	24	31-Dec-22 A	02-Feb-23			 		L L												
CP13 - WB - Tympanum Civil works CH7303	24	03-Feb-23	02-Mar-23			 														
CP14 - WB - Tympanum Civil works CH7403	24	03-Feb-23	02-Mar-23		+	+ + !														
CP15 - WB - Tympanum Civil works Ch7503	24	03-Mar-23	30-Mar-23			;														
CP16 - WB - Tympanum Civil works CH7603	24	03-Mar-23	30-Mar-23		+	+ +														
EB CP Tympanum Structure	147	05-Sep-22 A	30-Mar-23		+ !	+	L	L											J	4
CP7 - EB - Tympanum Civil works CH6705	24	05-Sep-22 A	17-Oct-22 A	·		. <u>.</u>	L	CP7 -	EB - Tvr	n panum C	ivil work	s CH6	705							
CP8 - EB - Tympanum Civil works CH6803	24	15-Oct-22 A	04-Nov-22 A		+	++				CP8-E				vorks C	CH680	3				
CP9 - EB - Tympanum Civil works CH6904	24	31-Oct-22 A	26-Nov-22 A		+	+			 ! 							um Civil v	works Cl	-16904		
CP10 - EB - Tympanum Civil works CH7004	24	07-Nov-22 A	15-Dec-22 A			;													ivil work	ks CH7004
CP11 - EB - Tympanum Civil works CH7103	24	28-Nov-22 A	30-Dec-22 A		+	++														anum Civil w
CP12 - EB - Tympanum Civil works CH7203	24	03-Dec-22 A	02-Feb-23		+	1	L	L												·····
CP13 - EB - Tympanum Civil works CH7303	24	03-Jan-23	02-Feb-23			++ -														<u> </u>
CP14 - EB - Tympanum Civil works CH7403	24	03-Feb-23	02-Mar-23			+ +														
CP15 - EB - Tympanum Civil works Ch7503	24	03-Feb-23	02-Mar-23																	
CP16 - EB - Tympanum Civil worksCH7603	24	03-Mar-23	30-Mar-23			+ +														
CP17-EB - Tympanum Civil works CH7703	24	03-Mar-23	30-Mar-23		+	+	L												J	4
CP TBM Pipe Jacking	149	21-Oct-22 A	10-Apr-23			1													1	
CP7 to CP8	79	21-Oct-22 A	30-Jan-23		+	++														
CP7 - CP TBM cyde - Learning Curve	42	21-Oct-22 A	19-Dec-22 A			 				¦¦						CP7-	CP TBN	i dvde -	Learnir	ng Curve
CP8 - CP TBM cyde - Learning Curve	28	03-Jan-23	30-Jan-23			+ ;														
CP9 to CP24	70	31-Jan-23	10-Apr-23		+	 														
CP9 - CP TBM cyde	14	31-Jan-23	13-Feb-23																	
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Page 24 of 29 Data Date: 03-Jan-23			fo	Trunk R r Develop Months R	om	ien	ts a	at So	outh	n Ap	ron				ks					

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CP10 - CP TBM cycle	14	14-Feb-23	27-Feb-23	04 11	18 2	5 02	09 1	6 23	30 06 13	20 2		18	25 01	1 08	15 22	29 05 12 19	CP10 - CP T	2 19 26 02 BM cycle	09 16
CP11 - CP TBM cycle	14	28-Feb-23	13-Mar-23	· · · · · · · · · · · · · · · · · · ·	·		L											CP11 - CP TBM cycle	
CP12 - CP TBM cycle	14	14-Mar-23	27-Mar-23		++														CP TBM cycle
CP13 - CP TBM cycle	14	28-Mar-23	10-Apr-23		++														
CP Internal & Collar Structure	14		29-May-23	· · · · · · · · · · · · · · · · · · ·															
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CP7 - Internal & Collar Structure	48	03-Jan-23	02-Mar-23													+ + +			
CP8 - Internal & Collar Structure	48	31-Jan-23	27-Mar-23	· · · · · · · · · · · · · · · · · · ·			L									·			
CP9 - Internal & Collar Structure	48	14-Feb-23	14-Apr-23		÷												· - <u>- </u>		CP9 - I
CP10 - Internal & Collar Structure	48	28-Feb-23	28-Apr-23	·														· ŀ ŀ ŀ ŀ	
CP11 - Internal & Collar Structure	48	14-Mar-23	13-May-23	· · · · · · · · · · · · · · · · · · ·	++														-
CP12 - Internal & Collar Structure	48	28-Mar-23	29-May-23	; 	; ;;;				kk										
SUB-SEA TUNNEL INTERNAL & FINISHING	123	14-Nov-22 A	17-Apr-23		· · · · · · · · · · · · · · · · · · ·														
Corbel	123	14-Nov-22 A	17-Apr-23																
Westbound	102	14-Nov-22 A	18-Mar-23	· · · · · · · · · · · · · · · · · · ·															
WB - TBM Tunnel - Corbel Structure up to CP7	9	14-Nov-22 A	13-Dec-22 A		+					-		WB - TBM	Tunnel -	- Corbel S	Structure up to C	P7		· · · · · · · · · · · · · · · · · · ·	
WB - TBM Tunnel - Corbel Structure up to CP8	14	03-Dec-22 A			++						· +,',','				WB - TBI	M Tunnel - Corbel Structu			
WB - TBM Tunnel - Corbel Structure up to CP10	14	03-Jan-23	18-Jan-23	· - j i	1 1 		L L 					!!			WB - TBI	M Tunnel - Corbel Structu M Tunnel - Corbel Structu	e up to CP10		
WB - TBM Tunnel - Corbel Structure up to CP9	14	04-Jan-23 A	18-Jan-23	·	++											· -			
WB - TBM Tunnel - Corbel Structure up to CP11	14	03-Feb-23	18-Feb-23	·	<u>+</u> <u>+</u>						1 1 1					M Tunnel - Corbel Structu	TBM Tunnel - C	orbel Structure up to (CP11
WB - TBM Tunnel - Corbel Structure up to CP11 WB - TBM Tunnel - Corbel Structure up to CP12	14	03-Feb-23	18-Feb-23		++											· · · · · · · · · · · · · · · · · · ·		orbel Structure up to C	-
WB - TBM Tunnel - Corbel Structure up to CP12 WB - TBM Tunnel - Corbel Structure up to CP13	14	03-Mar-23	18-Mar-23		÷					÷								Bibei Officiate dip to C	el - Corbel Structu
WB - TBM Tunnel - Corbel Structure up to CP13 WB - TBM Tunnel - Corbel Structure up to CP14	14	03-Mar-23	18-Mar-23		+													WB - TBM Tunn	
Eastbound	14				÷												· -		
	83	03-Jan-23	17-Apr-23		÷														
EB - TBM Tunnel - Corbel Structure up to CP7	9	03-Jan-23	12-Jan-23												EB-IBM luhr	nel - Corbel Structure up t	CP7		
EB - TBM Tunnel - Corbel Structure up to CP8	14	31-Jan-23	15-Feb-23													EB-TE			
EB - TBM Tunnel - Corbel Structure up to CP9	14	14-Feb-23	01-Mar-23		¦ +		¦										EB-TBM	unnel - Corbel Structi	ure up to CP9
EB - TBM Tunnel - Corbel Structure up to CP10	14	28-Feb-23	15-Mar-23		!												_ _ _ _ _	EB-TBM Tunnel-	
EB - TBM Tunnel - Corbel Structure up to CP11	14	14-Mar-23	29-Mar-23		¦													EB -	TBM Tunnel - Cor
EB - TBM Tunnel - Corbel Structure up to CP12	14	28-Mar-23	17-Apr-23		 				 										EB -
Fire Board - Tunnel Crown	69	13-Jan-23	11-Apr-23																
Westbound	55	19-Jan-23	27-Mar-23	1 I 1 I 1 I										-					
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP10	7	19-Jan-23	30-Jan-23		++						+					WB - TBM Tunnel - Fir	board - Tunnel (Crown up to CP10	
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP11	7	20-Feb-23	27-Feb-23		+													ınnel - Fire board - Tu	innel Crown up to
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP12	7	20-Feb-23	27-Feb-23		++						+							ınnel - Fire board - Tu	innel Crown up to
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP13	. 7	20-Mar-23	27-Mar-23	· - j i	÷		L												BM Tunnel - Fire I
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP14	. 7	20-Mar-23	27-Mar-23	·	++													WB-T	BM Tunnel - Fire I
Eastbound	69	13-Jan-23	11-Apr-23		÷														
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP7	00	13-Jan-23	17-Jan-23		++											Tunnel - Fire board - Tun			
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP7	4	16-Feb-23	23-Feb-23	· · · · · · · · · · · · · · · · · · ·	÷														
					++													TDM Turnel Time h	
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP9		02-Mar-23	09-Mar-23	·	÷												EB	- TBM Tunnel - Fire b	and a second second second second second second second second second second second second second second second
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP10		16-Mar-23	23-Mar-23		++													ЕВ - ТВМ Т	j j
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP11	/	30-Mar-23	11-Apr-23																EB - TBM
DRILL & BREAK TUNNEL [D&BR]	375				¦														
Tunnel Excavation	375	23-Dec-21 A	12-Apr-23																
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	23-Dec-21 A	27-Aug-22 A	8 - D&Br Tunnel	I - CH9055-	9020 Type	e D - Exca	vation Benc	& SG										
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39	24-Jan-22 A	-					LL- 											
Probe hole at CH8995	1		04-May-22 A	· · ·	++					-									
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	50	-	-	Excavation Top	, i)¦	·													
EB - D&Br Tunnel - CH9055-9030 Type D - Excavation SG	55	27-Aug-22 A			+		L			-!	EB - D&Br Tun	nel - CH905	55-9030	Type D -	Excavation SG				
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench	60	29-Aug-22 A			т́т	·-+÷	rŕ	;; E	B - D&Br Tunnel	-j j	990 Type D - F	xcavation B	ench						
EB - D&Br Tunnel - CH9030-9010 Type D - Excavation SG	30	29-Nov-22 A			++			<u>-</u> <u>-</u>				!!				📕 🛱 - D&Br Tunnel - C	H9030-9010 Tvp	D - Excavation SG	
EB - D&Br Tunnel - CH9010-8990 Type D - Excavation SG	38	02-Feb-23	11-Mar-23		++												·	B - D&Br Tunnel - CH	9010-8990 Tvpe I
EB - D&Br Tunnel - CH8990-8976 Type D - Excavation Bench	32	12-Mar-23	12-Apr-23	- 1 1	$\frac{1}{1}$ $\frac{1}{1}$						+						·		EB - D&E
	02		12/10/20													Date	Revisi	on Checked	i
Page 25 of 29																		WYu	
Data Date: 03-Jan-23		FD/2	018/0/	Trunk	Ro	T he	-7 ar	nd In	frastruc	turo	W/nrk	<u>م</u>				18-Dec-19			14/14 -
Critical Activity				-				-			VVUIN	U				22-Feb-20		SPa/LLo	W Yu
Actual Work			fo	r Deve	elopn	nent	ts at	Sou	th Apro	n						09-Apr-20		SPa/LLo	W Yu
					· I · · ·				1							17-Jul-20	01V2	SPa/LLo	W Yu
		· ·	Throo	Month	s Ro	llino		naran	nme (D	er_?	2)					09-Oct-20 02-Jul-21	01V3 02V0	SPa/LLo SPa/LLo	W Yu W Yu

tivity Name	Dur	Start Finish	2022 2023 September October November December January February March	April
				19 26 02 09 16 23
DRILL & BLAST TUNNEL [D&BL]	550	02-Mar-22 A 10-Jun-23		
Tunnel Excavation	534	02-Mar-22 A 23-Nov-22 A		
Eastbound	135	02-Mar-22 A 26-Apr-22 A		
EB - Noise Door Removal	24	02-Mar-22 A 31-Mar-22 A		
WB - Blast Door Removal	24	04-Apr-22 A 26-Apr-22 A		
Westbound	36	01-Aug-22 A 23-Nov-22 A		
Full Face Drill & Blast	36	01-Aug-22 A 23-Nov-22 A		
WB - D&BI Tunnel - 80 Extension Excavation	36	01-Aug-22 A 23-Nov-22 A	WB - D&BI Tunnel - 80 Extension Excavation	
Tunnel Structure WB Type A	30	28-Nov-22 A 03-May-23		
SUS - EB OHVD TBM Dismantling Preparation	96	03-Jan-23 03-May-23		
	54	28-Nov-22 A 04-Feb-23	WB - TBM Dismantling - Dismantling Cavern Enlargement	
WB - TBM Dismantling - Dismantling Cavem Enlargement	12	28-Nov-22 A 10-Dec-22 A		
WB - TBM Dismantling - Dismantling Gantry Installation	26	03-Jan-23 04-Feb-23	WB + TBM Dismartting - Dismartting Gan	
SG Preparation	56	09-Jan-23 17-Mar-23		
WB - Bay 11 - CH9251-9258 - Kicker (SG side)	5	09-Jan-23 13-Jan-23	WB - Bay 11 - CH9251-9258 - Kicker (SG side)	
WB - Bay 10 - CH9239-9251 - Kicker (SG side)	5	14-Jan-23 19-Jan-23	WB - Bay 10 - CH92(39-9251 - Kicker (SG side)	
WB - Bay 9 - CH9227-9239 - Kicker (SG side)	5	06-Feb-23* 10-Feb-23	WB - Bay 9 + CH9227-9239 - Kicker	
WB - Bay 8 - CH9215-9227 - Kicker (SG side)	5	11-Feb-23 16-Feb-23	WB - Bay 8 - CH9215-9227 - P	
WB - Bay 7 - CH9203-9215 - Kicker (SG side)	5	17-Feb-23 22-Feb-23	WB - Bay 7 - CH9203-9	
WB - Bay 6 - CH9191-9203 - Kicker (SG side)	5	23-Feb-23 28-Feb-23)191-9203 - Kicker (SG side)
WB - Bay 5 - CH9179-9191 - Kicker (SG side)	5	01-Mar-23 06-Mar-23		- CH9179-9191 - Kicker (SG side)
WB - Bay 4 - CH9172-9179 - Kicker (SG side)	5	07-Mar-23 11-Mar-23		3ay 4 - CH9172-9179 - Kicker (SG sid
WB - Bay 3 - CH9160-9172 - Kicker (SG side)	5	13-Mar-23 17-Mar-23		VB - Bay 3 - CH9160-9172 - Kicker (
SG Installation	5	03-Jan-23 07-Jan-23		
WB - Bay 11 - CH9251-9258 - SG Installation	2	03-Jan-23 04-Jan-23	🗖 WB - Bay 11 - CH9251-9258 - SG Ihstallation	
WB - Bay 10 - CH9239-9251 - SG Installation	3	05-Jan-23 07-Jan-23	□ □ □ □ WB ÷ Bay 10 - CH92 39-9251 - SG Installation	
Kicker	46	20-Jan-23 17-Mar-23		
WB - Bay 11 - CH9251-9258 - Kicker (non SG side)	5	20-Jan-23 28-Jan-23	WB - Bay 1/1 - CH9251-9258 - Kicker (non SG sid	
WB - Bay 10 - CH9239-9251 - Kicker (non SG side)	5	30-Jan-23 03-Feb-23	WB - Bay 10 - CH9239-9251 - Kicker (non	SG side)
WB - Bay 9 - CH9227-9239 - Kicker (non SG side)	5	06-Feb-23 10-Feb-23	WB - Bay 9 - CH9227-9239 - Kicker	(non SG side)
WB - Bay 8 - CH9215-9227 - Kicker (non SG side)	5	11-Feb-23 16-Feb-23	WB - Bay 8 - CH9215-9227 - K	Kicker (non SG side)
WB - Bay 7 - CH9203-9215 - Kicker (non SG side)	5	17-Feb-23 22-Feb-23	│	215 - Kicker (non \$G side)
WB - Bay 6 - CH9191-9203 - Kicker (non SG side)	5	23-Feb-23 28-Feb-23	Щарана и страна	191-9203 Kicker (non SG side)
WB - Bay 5 - CH9179-9191 - Kicker (non SG side)	5	01-Mar-23 06-Mar-23		- CH9179-9191 - Kicker (non SG sid
WB - Bay 4 - CH9172-9179 - Kicker (non SG side)	5	07-Mar-23 11-Mar-23	WB+B	3ay 4 - CH9172-9179 - Kicker (non S
WB - Bay 3 - CH9160-9172 - Kicker (non SG side)	5	13-Mar-23 17-Mar-23		VB - Bay 3 - CH9160-9172 - Kicker (
Base Slab	48	04-Feb-23 31-Mar-23		
WB - Bay 11 - CH9251-9258 - Base Slab	3	04-Feb-23 07-Feb-23	└────────────────────────────────────	ab
WB - Bay 10 - CH9239-9251 - Base Slab	3	08-Feb-23 10-Feb-23	🗖 WB - Bay 10 - CH9239-9251 - Ba'se	∍Slab
WB - Bay 9 - CH9227-9239 - Base Slab	6	18-Mar-23 24-Mar-23		🔲 WB - Bay 9 - CH9227-9239 - E
WB - Bay 8 - CH9215-9227 - Base Slab	6	25-Mar-23 31-Mar-23		WB - Bay 8 - CH9215-9
Waterproofing Rebar	6	11-Feb-23 17-Feb-23		
WB - Bay 10-11 Waterproofing	6	11-Feb-23 17-Feb-23	WB - Bay 10-11 Water proofin	19
Tunnel Structure EB Type A	311	08-Mar-22 A 25-Mar-23		
Removal of old Blast Door	22	08-Mar-22 A 13-Apr-22 A		·····
EB - Overbreak Concreting	26	09-Mar-22 A 09-Apr-22 A		
SG Preparation	131	09-Apr-22 A 19-Aug-22 A		
EB - Bay 1-4 SG Preparation	19	09-Apr-22 A 06-May-22 A		·····
EB - Bay 5-8 SG Preparation	19	06-May-22 A 19-Jul-22 A		
EB - Bay 6 - CH9201-9213 - Kicker (SG side)	5	20-Jun-22 A 27-Jun-22 A		
EB - Bay 4 - CH9177-9189 - Kicker (SG side)	5	24-Jun-22 A 29-Jun-22 A		
EB - Bay 5 - CH9189-9201 - Kicker (SG side)	5	30-Jun-22 A 05-Jul-22 A		
Page 26 of 29 Milestone			Date Revision	Checked Approved
Data Date: 03-Jan-23			18 - Dec - 19 00 V1	WYu
Critical Activity		ED/2018/04	4 Trunk Road T2 and Infrastructure Works	SPa/LLo WYu
Actual Milestone		fo fo	or Developments at South Apron	SPa/LLo WYu
Actual Work			17-Jul-20 01V2	SPa/LLo WYu
			00 Oct 20 Oll 32	

Three Months Rolling Programme (Dec-22)

09-Oct-20 02-Jul-21

01V3

02V0

SPa/LLo SPa/LLo

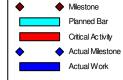
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ctivity Name	Dur	Start	Finish						2022	N									2023					1
				Septem		25 02		tober 16 23	 30 06	November	20 27		ecember	25 01		uary 15 22	29	Februar			arch 2 19	26	Apr 02 09	
EB - Bay 2.2 - CH9159-9165 - Kicker (SG side)	5	12-Jul-22 A	16-Jul-22 A	ide)		20 02								20 01									02 00	10 20
EB - Bay 3 - CH9165-9177 - Kicker (SG side)	5	13-Jul-22 A	18-Jul-22 A	ide)	+ + ! !			· · · · · · · · · · · · · · · · · · ·	L								• • • • • • • • •							
EB - Bay 2.1 - CH9147-9159 - Kicker (SG side)	5	16-Jul-22 A		SG side)	;;												· · · · · ·	<u>;</u> ;	· • • • • • • • • • • • • • • • • • • •					
EB - Bay 1 - CH9135-9147 - Kicker (SG side)	5	09-Aug-22 A		9135-9147 - Kicl	ker (SG	side)		+									• +	++	+					
EB - Bay 7 - CH9213-9225 - Kicker (SG side)	5	15-Aug-22 A	0	7-CH9213-9225	+ +			+									• • • • • • • • •		+					
SG Installation	86	21-Apr-22 A	-		++			·									• +	++	+					
EB - Bay 1 - CH9135-9147 - SG Installation	2	21-Apr-22 A			÷+			+									• • • • • • • •	÷	· • •			·		
EB - Bay 2.1 - CH9147-9159 - SG Installation	2	25-Apr-22 A						· · · · · · · · · · · · · · · · · · ·										+	·	·				
	2				; ;			·									· ·	÷	+					
EB - Bay 2.2 - CH9159-9165 - SG Installation	3	28-Apr-22 A	-															÷	·			·		
EB - Bay 3 - CH9165-9177 - SG Installation	3		-					· · · · · · · · · · · · · · · · · · ·											+					
EB - Bay 4 - CH9177-9189 - SG Installation	3	06-May-22 A	-		¦¦	<u>+</u>											· 		÷					
EB - Bay 5 - CH9189-9201 - SG Installation	3	16-May-22 A	-		+													÷	·					
EB - Bay 6 - CH9201-9213 - SG Installation	3	19-May-22 A	-		++	·····		·										÷		·				
EB - Bay 7 - CH9213-9225 - SG Installation	3	06-Jun-22 A			¦ 			·										¦				k		
Kicker	103	11-May-22 A	16-Sep-22 A																					
EB - Bay 1 - CH9135-9147 - Kicker (non SG side)	5	11-May-22 A	17-May-22 A																					
EB - Bay 2.1 - CH9147-9159 - Kicker (non SG side)	5	17-May-22 A	23-May-22 A																					
EB - Bay 5 - CH9189-9201 - Kicker (non SG side)	5	01-Jun-22 A	07-Jun-22 A		÷				[]															
EB - Bay 6 - CH9201-9213 - Kicker (non SG side)	5	06-Jun-22 A			·			· •				!! 				· J		· · · · · · · · · · · · · · · · · · ·	* 					
EB - Bay 2.2 - CH9159-9165 - Kicker (non SG side)	5	17-Jun-22 A	l		;†			· · · · · · · · · · · · · · · · · · ·								·								·
EB - Bay 3 - CH9165-9177 - Kicker (non SG side)	5	06-Jul-22 A		•)	<u>+</u> <u>+</u> <u>+</u>												• + • • • • •	++ 	+	- <mark>-</mark>			!!-	
EB - Bay 7 - CH9213-9225 - Kicker (non SG side)	5	18-Jul-22 A	l	noh SG side)	÷÷												• • • • • • • • •	+	+					
EB - Bay 4 - CH9177-9189 - Kicker (non SG side)	5	17-Aug-22 A			FB-B	av 4 - CH91	77-918	9 - Kicker (non	(SG side)							·	- +	++	++					
Base Slab	40	01-Aug-22 A															• • • • • • • • •	+	· • • •					
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EB - Bay 1 - CH9135-9147 - Base Slab	5	01-Aug-22 A		47 - Base Slab				·										÷	+					
EB - Bay 2.1 - CH9147-9159 - Base Slab	5			147-9159 - Base				· • • • • • • • • • • • • • • •									. <u>.</u>							
EB - Bay 2.2 - CH9159-9165 - Base Slab	5			H9159-9165 - B				· · · · · · · · · · · · · · · · · · ·											·					
EB - Bay 3 - CH9165-9177 - Base Slab	5			CH9165-9177 -																		k		
EB - Bay 4 - CH9177-9189 - Base Slab	5			4 - CH9177-918					L									l						
EB - Bay 5 - CH9189-9201 - Base Slab	5	22-Aug-22 A	24-Aug-22 A	Bay 5 - CH9189	9201 -	Base Şlab																		
EB - Bay 6 - CH9201-9213 - Base Slab		25-Aug-22 A						· · · · · · · · · · · · · · · · · · ·										i i 1						
EB - Bay 7 - CH9213-9225 - Base Slab	5	29-Aug-22 A	31-Aug-22 A	ЁВ - Bay7 - С	H9213-9	225 Base	\$lab											<u> </u>						
Waterproofing Rebar	86	08-Aug-22 A	22-Sep-22 A																					
EB - Bay 1-4 UU rearrange	12	08-Aug-22 A	17-Aug-22 A	UU reartange	++			·										+						
EB - Bay 1 Waterproofing	9	08-Aug-22 A	13-Aug-22 A	erproofing	;; ;	† ¦		· · · · · · · · · · · · · · · · · · ·					ii			i 		÷÷	++					·i
EB - Bay 2.1 Waterproofing	9	11-Aug-22 A	-		1 1 1 1 1 1		- L	· · · · · · · · · · · · · · · · · · ·				!!			- 4 4-				· · · · · · · · · · · · · · · · · · ·	- - -				
EB - Bay 2.2 Waterproofing	9			2.2 Water proofin	nq			·									• • • • • • • • •	+	+					
EB - Bay 3 Waterproofing	9	22-Aug-22 A	26-Aug-22 A	- Bay 3 Waterpr	+ - +													++	+	- - -				·
EB - Bay 4 Waterproofing	9	-	-	EB-Bay4 Wate	+ +	 n		· • • •										++	+					
EB - Bay 5-8 UU rearrange	12	30-Aug-22 A	22-Sep-22 A		÷ ÷	в-Вау 5-8	S III rea	arrange'									· !	$\frac{1}{1}$ $\frac{1}{1}$	++	$-\frac{1}{\Gamma}$ $-\frac{1}{\Gamma}$				·
EB - Bay 5 Waterproofing	۲ <u>۲</u>	31-Aug-22 A		EB-Bay5V	4 4												• • • • • • • •	÷	· • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·				
EB - Bay 6 Waterproofing	9	01-Sep-22 A	· ·	EB-Bay 6				·									· · ·		· • • • • • • • • • • • • • • • • • • •					
Lining	9	· ·						· · · · · · · · · · · · · · · · · · ·									·	÷	+					
	108	10-Aug-22 A	25-Mar-23						<u></u>				A			·						÷		
EB - Lining Fwk Type A Assembly	30	10-Aug-22 A	16-Nov-22 A							<u></u>	- Lining F	үк туре А	Assembly								0110000			
EB - D&BI Tunnel - CH9225-9135 Type A&B - Lining Structure	40	17-Nov-22 A	21-Feb-23		¦¦			·										++	EB-D8				e A&B - Linir	
EB - D&BI Tunnel - CH9225-9240 Type A&B - Lining Structure	16	22-Feb-23	11-Mar-23													·		¦		E	B-¦D&BI		H9225-924	
EB - Lining Fwk Type A Dismantling (Portal)	12	13-Mar-23	25-Mar-23		, , , , , , , , , , , , , , , , , , ,	···· :		· · · · · · · · · · · · · · · · · · ·										÷				EB L	ning Fwk Ty	pe A Dism
Tunnel Structure EB Type C	340	19-Apr-22 A	10-Jun-23													1								
EB - Earth Mat 9-11 Drilling	8	19-Apr-22 A	27-Apr-22 A				[]									
EB - Earth Mat 9-11 Drilling, Installation and Testing	11	22-Apr-22 A												[-				 						
EB - Earth Mat 9-11 Installation	6	27-Apr-22 A	-		++													++	+					
EB - Earth Mat 9-11 Testing	1	05-May-22 A	-		, ,											·	· †	++ 	· · · · · · · · · · · · · · · · · · · 					
EB - D&BI Tunnel - CH9135-9100 Type A - SG Preparation	12	-	-		+ 			L	L								• • • • • • • • • •	+ 	· +	- L L L L L L L L				·
Page 27 of 29 Data Date: 03-Jan-23			fo	Trunk r Deve	elop	men	ts a	at Sou	uth A	pron			KS					22-F 09-7 17-5 09-0	Feb-20 Apr-20 Jul-20 Dct-20	Revisi 00V1 01V0 01V1 01V2 01V3	W S S S S	Check /Yu Pa/LLo Pa/LLo Pa/LLo Pa/LLo		u u u
			hree	Monthe	s R	olling	jΡ	rograr	mme	e (De	c-22	<u>(</u>)								02V0		Pa/LLo	WY	

Activity Name	Dur Start	Finish 2022 2023 September October November December January February March April
	0. 00 Marc 00 A	04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 05 12 19 26 02 09 16 23
EB - D&BI Tunnel - CH9135-9100 Type A - SG Installation	8 23-May-22 A	
EB - D&BI Tunnel - CH9135-9100 Type A - Kicker	20 04-Sep-22 A	3-Sep-22 A EB - D&BI Tunnel - CH9135-9100 Type A - Kicker
EB - D&BI Tunnel - CH9135-9100 Type A - Base slab EB - Earth Mat 12-17 Installation	12 06-Oct-22 A	5-Oct-22 A EB - D&BI Turinel - CH9135-9100 Type A - Base slab 6-Dec-22 A EB - D&BI Turinel - CH9135-9100 Type A - Base slab EB - Earth Mat 12-17 Insta∦ation
EB - Earth Mat 12-17 Installation EB - Earth Mat 12-17 Drilling, Installation and Testing	12 06-OCI-22 A	4-Dec-22 A EB - Earth Mat 12-17 Instantation EB - Earth Mat 12-17 Drilling, Installation and Testing
EB - D&BI Tunnel - CH9100-9050 Type A - SG Preparation	49 18-Oct-22 A	3-Dec-22 A EB - D&BI Tunnel - CH9100-9050 Type A - SG Preparation
EB - D&BI Tunnel - CH9100-9050 Type A - SG Preparation EB - D&BI Tunnel - CH9100-9050 Type A - SG Installation	58 19-Oct-22 A	4-Dec-22 A EB - D&BT funnel - CH9100-9050 Type A - SG Installation
EB - Earth Mat 12-17 Drilling	15 25-Nov-22 A	0-Dec-22 A EB - Earth Mat 12-17 Drilling
EB - D&BI Tunnel - CH9100-9050 Type A - Kicker	25 07-Dec-22 A	03-Feb-23 EB - CHI 91 100-9050 Type A - Kicker
EB - Earth Mat 12-17 Testing	1 17-Dec-22 A	7-Dec-22 A
EB - D&BI Tunnel - CH9100-9050 Type A - Base slab	28 20-Dec-22 A	08-Mar-23 EB - D&BI Turnel - CH9100÷9050 Type A - Bas
EB - D&BI Tunnel - CH9135-9050 Type C - Wall (6m bay, 15bay, 5d/bay)	75 09-Mar-23	10-Jun-23
EB - D&BI Tunnel - A/C/E Junction End Wall	52 29-Mar-23	03-Jun-23
Tunnel Structure S01 Branch Tunnel	197 11-Jul-22 A	28-Mar-23
EB - D&BI Tunnel - S01 Branch Tunnel - Drainage Installation	40 11-Jul-22 A	5-Nov-22 A
EB - D&BI Tunnel - S01 Branch Tunnel - Base Slab & Kicker (3d/bay)	21 20-Jul-22 A	9-Nov-22 A EB -D&BI Tunnel - S01 Branch Tunnel - Base Slab & Kicker (3d/bay)
EB - Lining Fwk S01 Branch Tunnel Assembly	30 14-Jan-23	
EB - D&BI Tunnel - S01 Branch Tunnel - Lining Structure (5d/bay, 145 - 215)	30 22-Feb-23	21-Feb-23 EB - Lining Fwk S01 Branch Tunnel Assembly 28-Mar-23 EB - Lining Fwk S01 Branch Tunnel Assembly
Cross Passage	334 11-Apr-22 A	30-May-23
CP33	· ·	
		30-May-23
EB - D&BI Tunnel - CP33 48m (37 blasts)	47 11-Apr-22 A	20-Jun-22 A 1 16-Feb-23 EB - D&Br Tunnel - CP33 (5m plug)
EB - D&Br Tunnel - CP33 (5m plug)	36 12-Dec-22 A	16-Feb-23 EB - D&Br Tunnel - CP33 (5m plug) 09-Mar-23 CP33 - Exc. for Drainage
CP33 - Exc. for Drainage	18 17-Feb-23	
CP33 - Base slab / Kicker	12 10-Mar-23	
	52 24-Mar-23 314 05-Mar-22 A	30-May-23
EAST VENTILATION BUILDING [EVB]		28-Apr-23
Excavation	143 05-Mar-22 A	
Eastbound	143 05-Mar-22 A	J-Aug-22 A
Eastbound Excavation	143 05-Mar-22 A	0-Aug-22 A d Excavation
Foundation / Portal Structure	314 28-Mar-22 A	28-Apr-23
Westbound	314 28-Mar-22 A	28-Apr-23
EVB - WB Earth Mat Installation	12 28-Mar-22 A	10-Apr-22 A
EVB - WB Drainage & Blinding	18 21-Apr-22 A	19-Jul-22 A
EVB - WB Foundation & SG Level Walls & Slab	91 20-Jul-22 A	02-Feb-23
EVB - WB Tunnel & Plenum Level Wall & Column	48 03-Feb-23	30-Mar-23 EVB - WB Tunnel & Plenu
EVB - WB Tunnel & Plenum Level Beam & Slab	36 14-Mar-23	28-Apr-23
Eastbound	151 22-Aug-22 A	28-Apr-23
Trench Excavation	18 22-Aug-22 A	0-Sep-22 A Trench Excavation
EVB - EB Earth Mat Installation	12 03-Oct-22 A	8-Oct-22 A EVB- EB Earth Mat Installation
EVB - EB Drainage & Blinding	18 10-Oct-22 A	22-Oct-22 A EVB- EB Drainage & Blinding
EVB - EB Foundation & SG Level Walls & Slab	60 24-Oct-22 A	02-Feb-23 EVB - EB Foundation & SG Level Walls & Slab
EVB - EB Tunnel & Plenum Level Wall & Column	48 03-Feb-23	30-Mar-23 EVB - EB Tunnel & Plenur
EVB - EB Tunnel & Plenum Level Beam & Slab	36 14-Mar-23	28-Apr-23
TUNNEL E&M INSTALLATION & COMMISSIONING	50 03-Feb-23	01-Apr-23
TKO-LTT Admin Building	50 03-Feb-23	01-Apr-23
Material Delivery	6 03-Feb-23*	09-Feb-23 Material Delivery
Cable Trunking and Tray Installation	36 10-Feb-23	23-Mar-23 Cable Trunking and Tray Install a
Submain Power Supply Installation	12 10-Feb-23	23-Feb-23 Submain Power Supply Installation
Conduit Installation	24 24-Feb-23	23-Mar-23 Conduit Installation
Cable Pulling	24 24-Feb-23	23-Mar-23 Cable Pulling
Final Circuit Installation	8 24-Mar-23	01-Apr-23 Final Circuit Installation
EXECUTIVE SUMMARY	0 09-Mar-23	09-Mar-23
Page 28 of 29 Data Date: 03-Jan-23		Date Revision Checked Approved 18/04 Trunk Road T2 and Infrastructure Works 18-Dec-19 00V1 WYu 22-Feb-20 01V0 SPa/LLo WYu 09-Apr-20 01V1 SPa/LLo WYu 17-Jul-20 01V2 SPa/LLo WYu 09-Oct-20 01V3 SPa/LLo WYu 02-Jul-21 02V0 SPa/LLo WYu

/	ctivity Name	Dur	Start	Finish	2022								2023																			
					September			October			November				De	ecember		January			February				March				Ap	pril		
					04	11	18	25	02	09 16	23	30	06	13 20	27	04	11 1	8 25	01	08	15	22	29 0	5 12	2 1	9 26	6 05	5 12	19	26 02	09	16 2
	General	0	09-Mar-23	09-Mar-23			-	1								1												1		1		
	KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0		09-Mar-23*							[[]								🕨 KD-5 S	tage 3A	- Design	Approval	for Stage 3
	KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0		09-Mar-23*				-		1			1	1			1	1		-							•	KD-7 S	Stage 4A	- Deşign	Approval	for Stage 4

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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2022 (KT)

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Contract No. ED/2018/04

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	f C&D Waste	s Generated I	Monthly
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	10.929	2.331	0.000	10.914	0.015	0.000	94.890	0.460	0.000	11.000	0.068
February	7.698	0.114	0.000	7.601	0.097	0.000	81.020	0.280	0.000	0.000	0.087
March	19.029	1.628	0.000	19.019	0.010	0.000	164.830	0.000	0.000	0.000	0.086
April	11.801	0.247	0.000	11.774	0.027	0.000	316.700	0.700	0.000	0.000	0.120
May	20.116	0.240	0.000	20.107	0.009	0.000	203.900	0.000	0.000	8.000	0.070
June	62.161	0.310	0.000	25.999	36.162	0.000	242.800	0.260	0.000	4.800	0.069
Sub-total	131.734	4.871	0.000	95.413	36.320	0.000	1104.140	1.700	0.000	23.800	0.500
July	23.738	0.000	0.000	0.883	22.855	0.000	0.000	0.700	0.000	7.000	0.060
August	30.429	0.225	0.000	4.037	26.392	0.000	21.660	0.000	0.000	6.000	0.070
September	80.500	0.035	0.000	52.715	27.784	0.000	64.260	0.760	0.000	9.800	0.071
October	77.663	0.259	0.000	30.658	47.006	0.000	0.000	0.000	0.000	0.000	0.080
November	50.404	0.084	0.000	41.934	8.471	0.000	0.000	0.000	0.000	0.000	0.065
December	90.359	0.392	0.000	77.223	13.136	0.000	0.000	0.000	0.000	0.000	0.069
Total	484.827	5.865	0.000	302.862	181.965	0.000	1190.060	3.160	0.000	46.600	0.914

Monthly Summary Waste Flow Table

Notes:

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

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

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

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ER Part 8 Clause 8.8.5 (d) (ii) refers).