Civil Engineering and Development Department

Trunk Road T2

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

February 2023

(Version 1.0)

Approved By	June			
	(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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14 March 2023

Ref.: CEDKTDT2EM00_0_0439L.23

By Post and Email

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 (February 2023) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for February 2023 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 14 March 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.

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 36th 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 February 2023.

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 Sub-sea Crown Fire Board 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 of Key Mitigation Measures Implemented in the Reporting Month				
Contract No. and Project Title	Key Mitigation Measures Implemented			
ED/2018/04 - Trunk Road T2	Air Quality			
and Infrastructure Works for	• Water spraying regularly on construction site area to avoid dust generation.			
Developments at	• Excavated dusty materials were covered by impervious sheets.			
South Apron	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. 			
	Water Quality			
	• 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	N/A			
System (TCSS)				
and Associated 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 (February 2023) and the investigation results and/or follow-up actions:

Air Quality Monitoring

- Two (2) 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.
- One (1) 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

	Event Details		Follow-up/ Remedial Actions	Status/	
Event Number Brief Descr		Brief Description		Remarks	
Complaints Received	1	A Complaint of Noise Nuisance caused by the nighttime construction activities was received.	 Conduct regular maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines. Review the construction schedule. Priorities the work sequence 	Closed	
Notification of Summons and Prosecutions Received	0	-	-	-	
Public Engagement Activities	0	-	-	-	

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

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:

Table IV Summary Table for Site Activities in the next Reporting Period

Contract No. and Project Title	Site Activities (March 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 – Platform removal Launching Shaft / Cut & Cover RC 	
	Structure	

	ž A Ž				
	5) Westbound TBM Tunnelling				
	6) Eastbound TBM Tunnelling				
	7) EB Service Gallery installation				
	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				
	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					
Surveillance System	n N/A				
(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 January 2023 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)	

Table V	Summary	Table for	Review (of Status and	Location	of Monitoring S	Stations
	Summary			JI Status anu	LUCATION		JUALIUIIS

CKL 2 is/are impacted by the construction activities of the Project.	
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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 36th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in February 2023.

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**.

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Cinetash	Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotech		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 Sub-sea Crown Fire Board 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
	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 February 2023.

Status of Environmental Licensing and Permitting

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

 Table 1.3
 Summary of Environmental License and Permi

Contract	Permit / License No.	Valid Period		Statur	
No.	No. Permit / License No.		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.: CEDD01180)	26 Jan 2023	25 Apr 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	Expired on 23 Feb 2023	

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			Line in Report	V
Contract Permit / License No.		Valid Period		Status
No.	No. Permit / License No.		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 1	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	aste Producer License			
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dumping Permit				
ED/2018/04	EP/MD/23-057	31 Dec 2022	28 Feb 2023	Expired on 28 Feb 2023

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	Stations Location	
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)	
KTD2d	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
	11v5 Sampler	1956, 10595, 1316, 5280)	5
Calibrator		TISCH Model: TE-5025A (Serial no. 3864)	1
	Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
	willd Allemonieter	(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 Two (2) 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 two (2) 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 (i.e excavating work, Loading and unloading of C&D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)
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 (February 2023), μg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	55.8
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	128.2
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	135.2
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	173.6
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	253.3

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). Two (2) 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 abit 5.2	5.2 Frequency and Farameters 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	weekdays			$L_{eq}(30 \text{ min.})$	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
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} , L_{90} and L_{10} 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**. One (1) Action and no 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. (i.e excavating work, Loading and unloading of C&D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.) 		
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 3.4Other 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 (February 2023), Leq (30min) dB(A)
KTD 1 - Centre of			
Excellence in Paediatrics	KTD1	74	76.5
(Children's Hospital)			
KTD2d – Next to the SOR			
Office of Trunk Road T2 in	N/A ⁽¹⁾	$N/A^{(1)}$	75.7
Kai Tak Area			
KER 1 – Future Residential			
Development at Kerry	KER1	75	72.7
Godown			
CKL1 - Flat 121 Cha Kwo	CKL4	71	76.5
Ling Village	CKL4	/ 1	70.5
CKL2 - Flat 103 Cha Kwo	CKL5	69	72.3
Ling Village			

 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. One (1) Action and no 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 02, 09, 16 and 23 February 2023 in the reporting month. Site inspection of the IEC was conducted on 16 February 2023. No non-compliance was observed during the site audit.
 - ED/2020/03 Site audit was conducted on 17 February 2023 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
Air Quality	2 Feb 2023	Spraying water is needed when breaking the concrete.	The contractor spraying water when breaking concrete.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	16 Feb 2023	Stagnant water was observed in the west ventilation building.	The contractor has removed the water ponding.
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	2 Feb 2023	Drip Tray should be provided for chemical container to prevent leakage.	The contractor has removed the chemical container.

 Table 10.1
 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
	9 Feb 2023	Drip Tray should be provided for chemical container to prevent leakage.	The contractor has removed the general refuses.
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

• Two (2) Action and no Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

• One (1) Action and no 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**.

Table 10.2 Status of Required Submission under Environmental Permit

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 (Rev. F)	25 November 2022
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	3 November 2020

EP Condition	Submission	Submission Date
Condition 3.4	Monthly EM&A Report (January 2023)	14 February 2023

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 12.1	Summary Table for Site Activities and the Key Environmental Issues in the
	next Reporting Period

Contract No. and Project Title	Site Activities (March 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 – Platform removal Launching Shaft / Cut & Cover RC Structure Westbound TBM Tunnelling Eastbound TBM Tunnelling EB Service Gallery installation WB 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 (March 2023)	Key Environmental Issues
	17) West Ventilation Building- Platform removal	
	18) 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

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 36th 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 Two (2) 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 One (1) Action Level exceedance was recorded in the reporting month.

Site Audit

- 13.5 4 (Four) 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

• Spraying water when conducting the dust generating activities (i.e breaking the concrete).

Water Quality

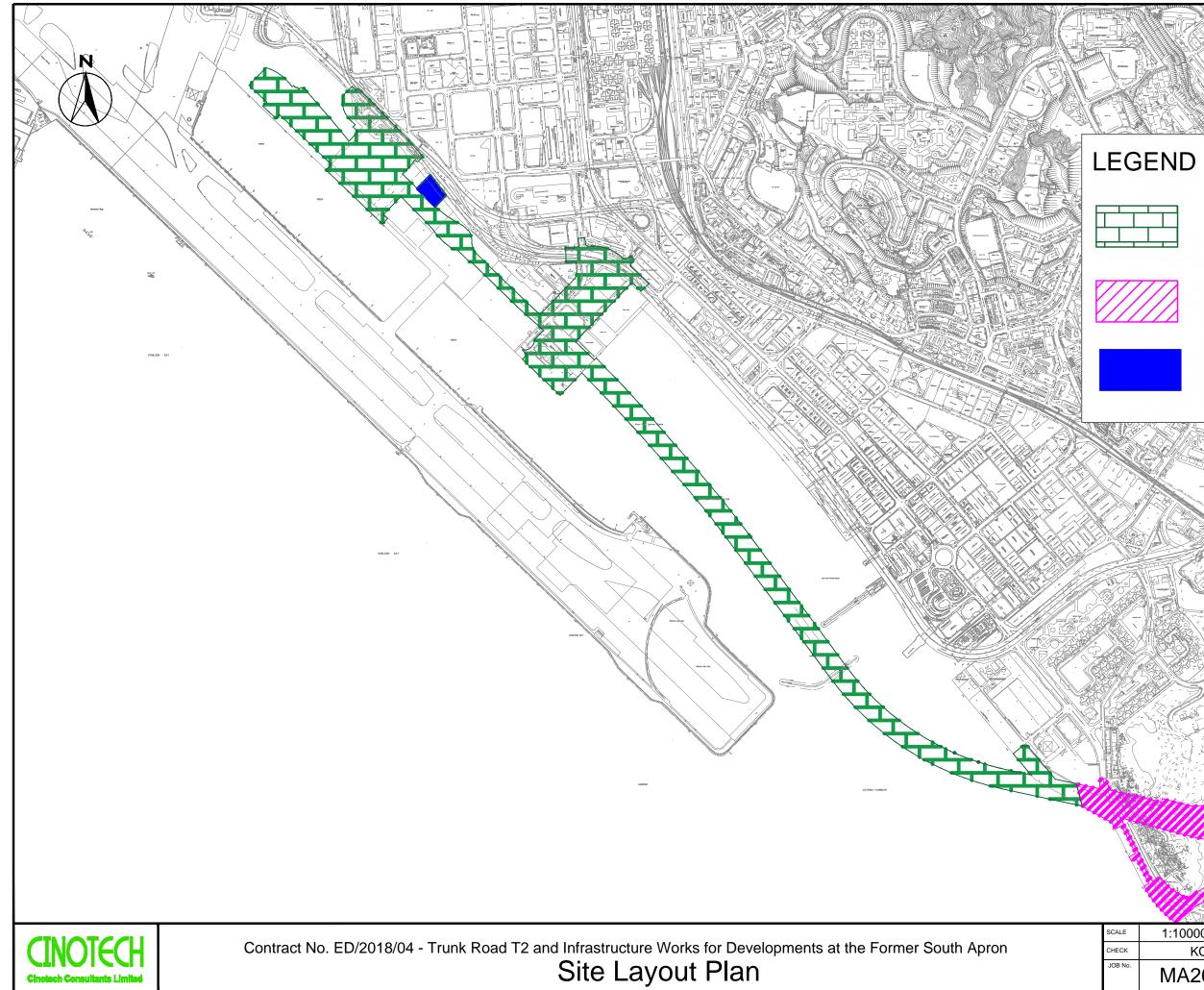
• The drainage system should be well maintenance and avoid water ponding.

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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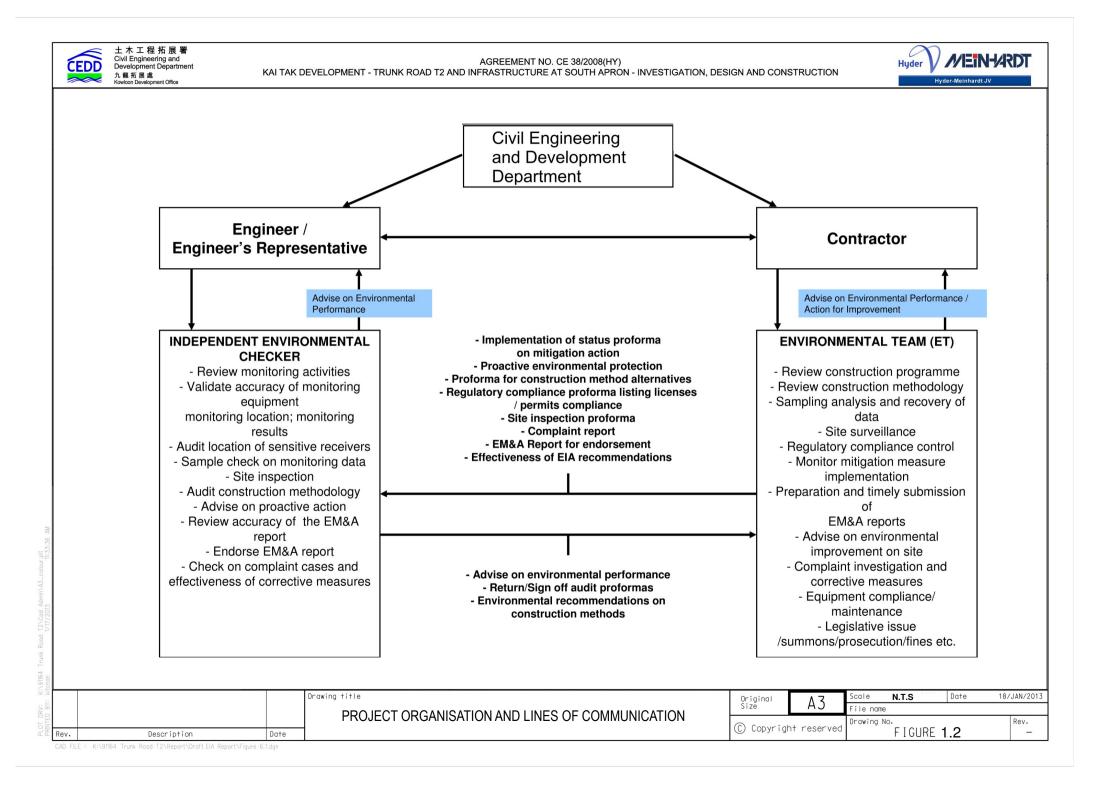
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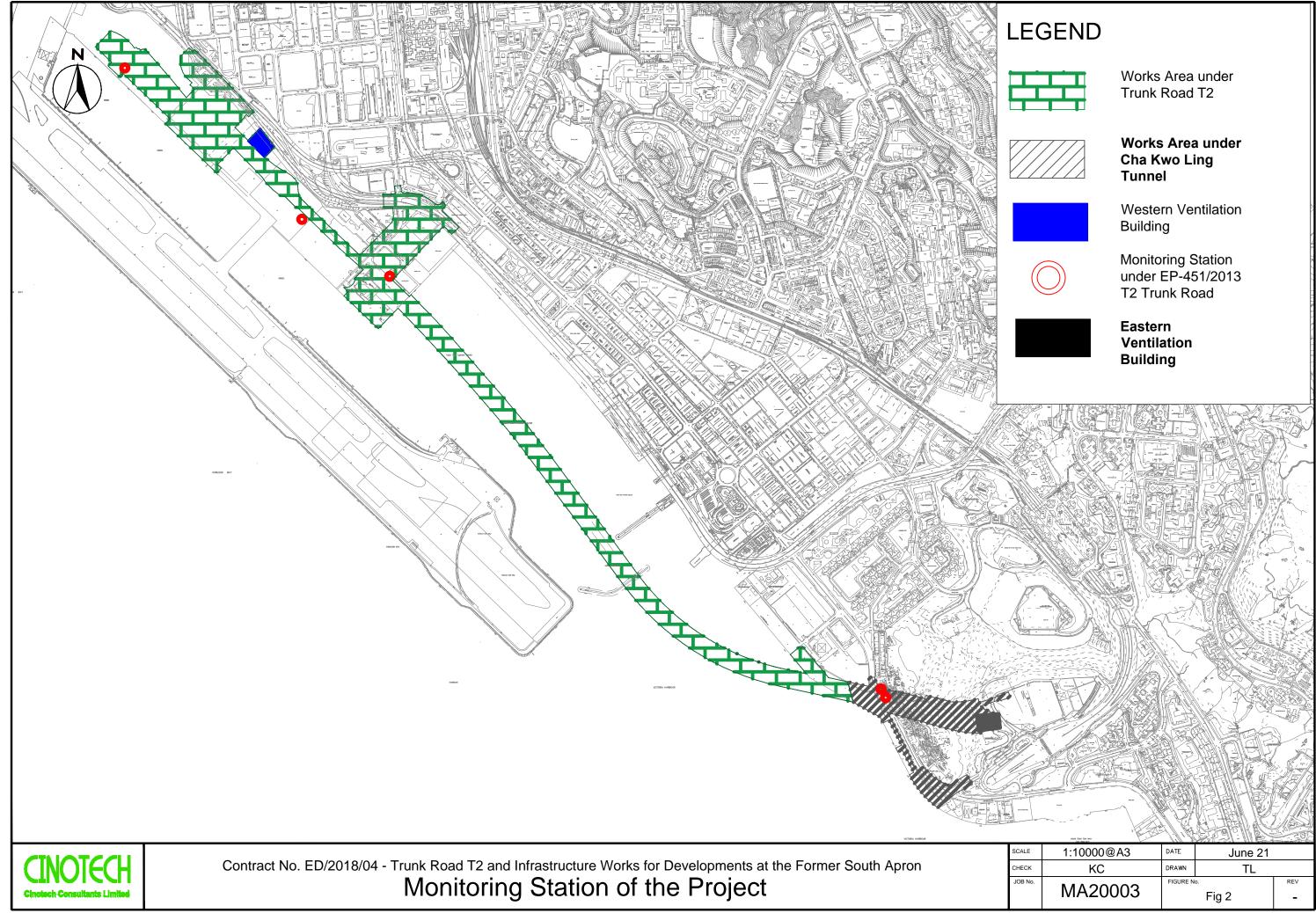
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

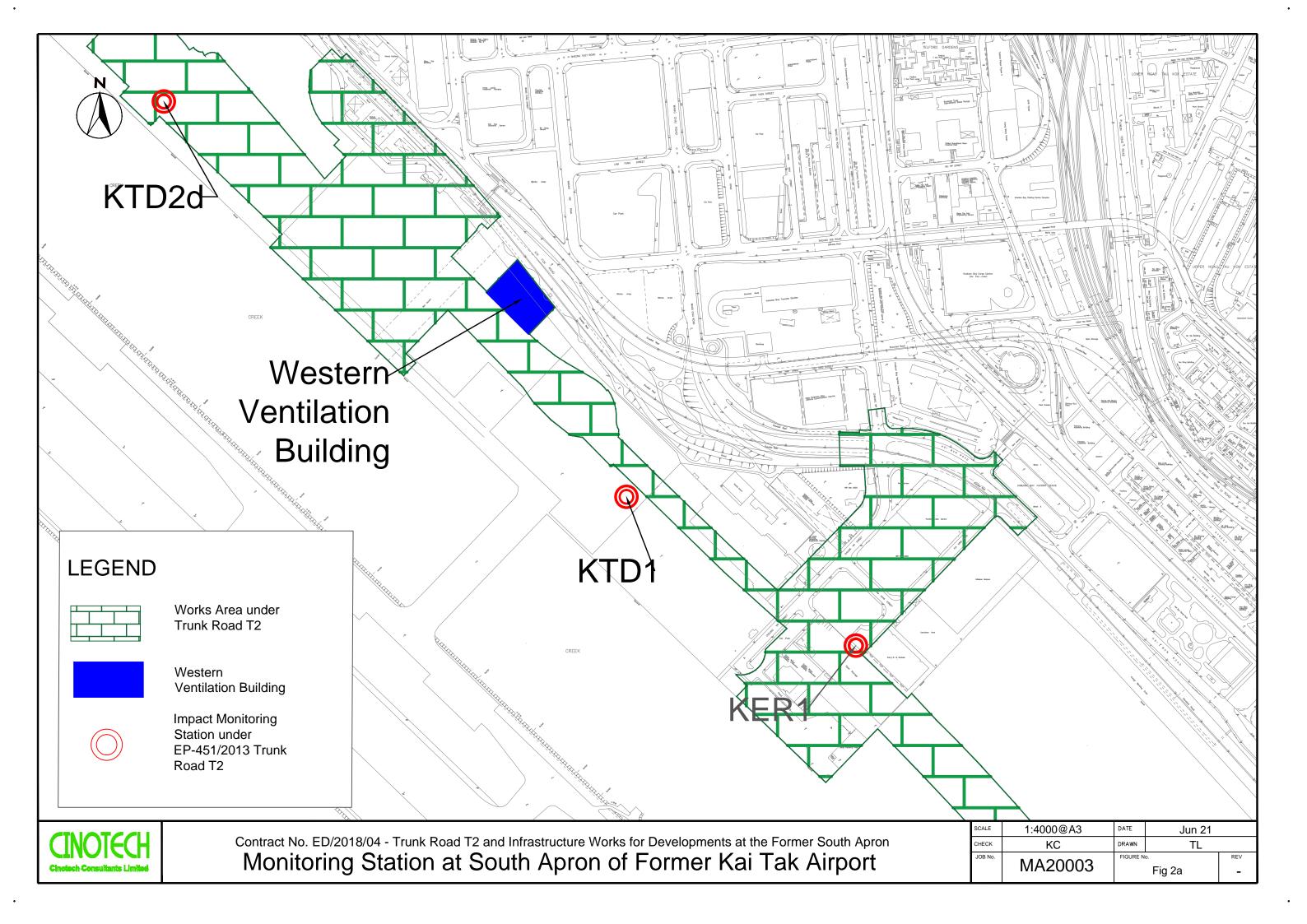
Ventilation Building

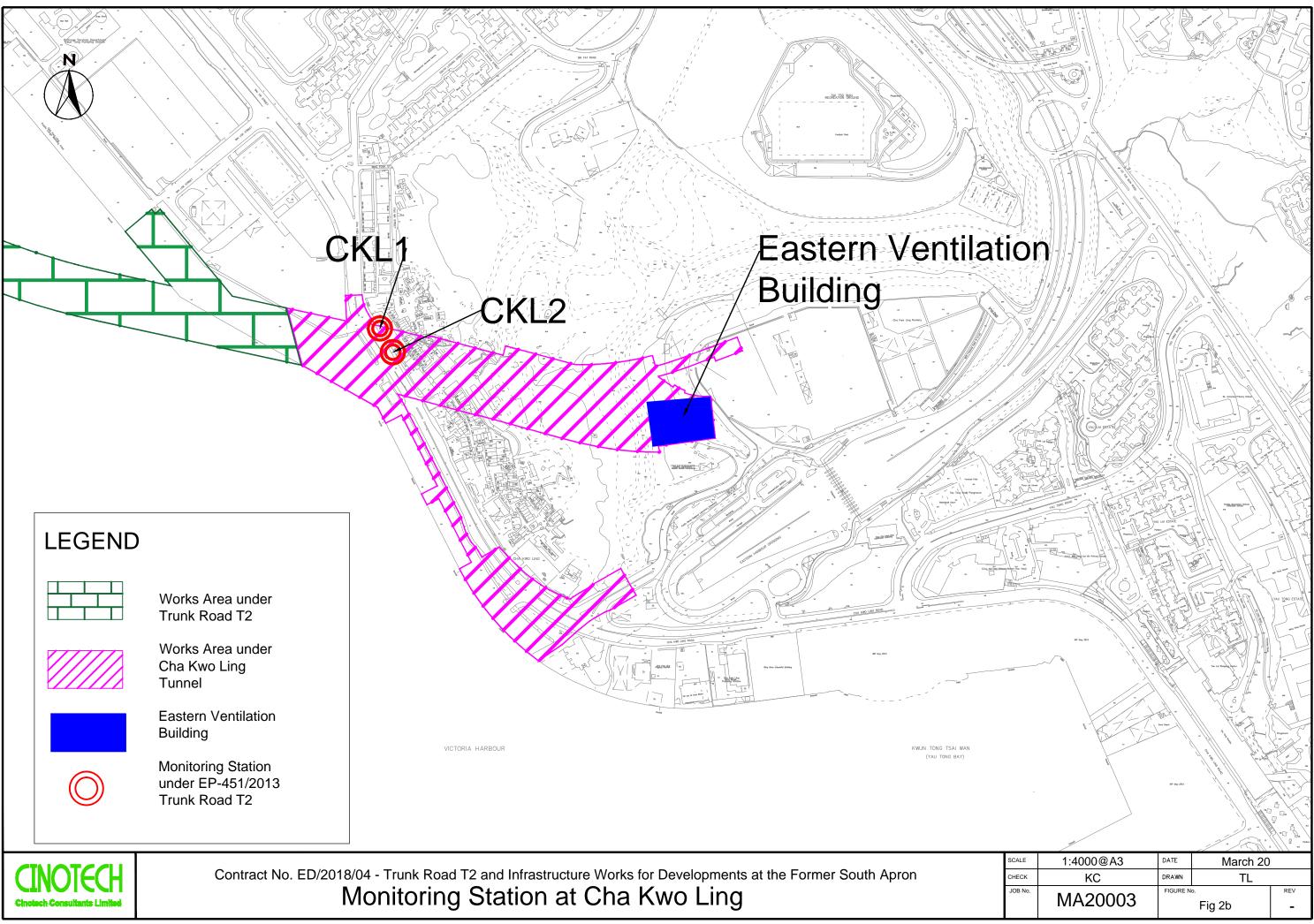
Ante		1192 - 53 1192 - 53		
V)			SUM: "11." L)'.´````
		/6 2		ť ~
	1:10000@A3		March 20	
СК		DATE DRAWN	TL	
LE CK 3 No.	1:10000@A3	DATE	TL	REV











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 (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) **24-hr TSP:24-hr TSP 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) **24-hr TSP:24-hr TSP 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 (April 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Apr
			- · ·			
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	24-hr TSP	Noise		24-hr TSP		
	24-11 151	roise		24-111 1 51		
9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
		24-hr TSP	Noise		24-hr TSP	
16 Ann	17 4	10 4	10 4	20 4	21 4	22. 4
16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
	24-hr TSP	Noise		24-hr TSP	Noise	
	21			21 101		
23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
23-Apr	24-Apr	25-Apr			28-Apr	29-Apr
23-Apr	24-Apr	25-Apr	26-Apr 24-hr TSP	27-Apr Noise	28-Apr	29-Apr
23-Apr	24-Apr	25-Apr			28-Apr	29-Apr
23-Apr	24-Apr	25-Apr			28-Apr	29-Apr
	24-Apr	25-Apr			28-Apr	29-Apr
23-Apr 30-Apr	24-Apr	25-Apr			28-Apr	29-Apr
	24-Apr	25-Apr			28-Apr	29-Apr
	24-Apr	25-Apr			28-Apr	29-Apr
	24-Apr	25-Apr			28-Apr	29-Apr
	24-Apr	25-Apr			28-Apr	29-Apr

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

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)

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

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 (May 2023)

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

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

Noise Monitoring Station

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) **24-hr TSP:24-hr TSP 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. MA20003/18/018

2.36

1.90

1.44

Project No.	CKL 1 - Flat 12	l Cha Kwo Ling	Village			_	
Date:	ate: 5-Jan-23		Next Due Date:	7-N	Iar-23	Operator:	SK
Equipment No.: A-01-18		Model No.:	TE	5170	Serial No.	0723	
			Ambient	Condition			
Temperature, Ta (K) 291.5			Pressure, Pa	(mmHg)		767.6	
		Or	ifice Transfer Sta	andard Inform	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	t, bc	-0.02420
Last Calibra	ation Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration	ation Date:	31-Jan-23	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc				
			Calibration of	TSP Sampler			
Calibration		Or	fice	HVS			
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/7)]$	50) x (298/Ta)] ^{1/2} Y- axis
1	12.6		3.61	61.32	9.6		3.15
2	9.9		3.20	54.40	7.7		2.82

Set Point	Calculation
-----------	-------------

49.54

42.09

31.10

5.4

3.5

2.0

4.10

Intercept, bw : -0.4637

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

*If Correlation Coefficient < 0.990, check and recalibrate.

8.2

5.9

3.2

By Linear Regression of Y on X Slope , mw = _____0.0587

Correlation coefficient* =

3

4

5

mw x Qstd + bw =
$$[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$$

Therefore, Set Point;
$$W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =$$

2.91

2.47

1.82

0.9915

Remarks:			
Conducted by:	Wong Shing Kwai	Signature: Date: 5-Jan-2	23
Checked by:	Henry Leung	Signature: <u>lemy Mong</u> Date: <u>5-Jan-2</u>	23



File No. MA20003/55/018

Project No.	CKL 2 - Flat 10)3 Cha Kwo Ling	Village			. –	
Date:	5-J	an-23	Next Due Date:	- 7-N	Mar-23	Operator:	SK
Equipment No.:	Equipment No.: A-01-55		Model No.:	E TE	E 5170	Serial No.	1956
			Ambient (andition			
Tomporatu	r_{0} T ₀ (K)	291.5				767.6	
Temperatu	ie, 1a (k)	291.5	Pressure, Pa	t (IIIIIIng)		767.6	
		Ori	fice Transfer Sta	ndard Inform	ation		
Serial	l No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ation Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibr	ation Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	(Pa/760) x (298/	Γa)]^{1/2} -bc} / m	10
		•					
		01	Calibration of fice	TSP Sampler		HVS	
Calibration Point	ΔH (orifice), in. of water		0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	60) x (298/Ta)] ^{1/2} Z-axis
1	12.7		3.62	61.56	9.8		3.18
2	10.6		3.31	56.27	7.5		2.78
3	8.5		2.96	50.43	5.6		2.40
4	5.2		2.32	39.54	3.1		1.79
5	2.8		1.70	29.12	1.9		1.40
By Linear Regr Slope , mw =		X		Intercept. bw :	-0.287	1	
	coefficient* =	- 0	0.9926				
*If Correlation C	Coefficient < 0.9	90, check and rec	calibrate.	_			
			Set Point C	alculation			
From the TSP Fi	ield Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acco	ording to				
		0	$\mathbf{bstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	- (D- /7(0) (2)	1/2		
		mw x Q	$std + bw = [\Delta W]$	x (Pa/760) x (2)	98/1a)]		
Therefore, Se	et Point; W = (r	nw x Qstd + bw)	² x (760 / Pa) x (Ta / 298) =	4.15		
Remarks:							
				10			
Conducted by:	Wong S	hing Kwai	Signature:	<u> </u>	<u>ب</u>	Date:	5-Jan-23
Checked by	Henry	v Leung	Signature:	1_0	Non r	Date:	5-Jan-23



						File No. 1	MA20003/04/0016
Project No.	KER 1 - Future	Residential Deve	elopment at Kerry	Godown			
Date:	10-Ja	m-23	Next Due Date:	12-Mar-23		Operator:	SK
Equipment No.:	A-02	1-04	Model No.:	No.: TE 5170		Serial No.	10595
			Ambient C	Condition			
Temperature, Ta (K) 291.2		291.2	Pressure, Pa	(mmHg)		764.1	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	l No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ation Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibration Date: 31-Jan-23				$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	(Pa/760) x (298/2	Γa)] ^{1/2} -bc} / n	nc
	1		Calibration of	TSP Sampler	1		
Calibration		Orfice HVS					
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} X-axis
1	13.7		3.75	63.81	10.1		3.22
2	11.0		3.36	57.22	7.6		2.80
3	8.9	:	3.03	51.51	6.1		2.51
4	5.9		2.46	42.01	3.7		1.95
5	3.6		1.92	32.91	2.2		1.50
By Linear Regr	ession of Y on X	[
Slope, mw =	0.0555	_]	Intercept, bw :	-0.349	9	
Correlation	coefficient* =	0	.9990	-			
*If Correlation C	Coefficient < 0.99	0, check and rec	calibrate.				

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$

4.03

Therefore, Set Point; $W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =$

Remarks: Wong Shing Kwai Conducted by: Signature: Date: 10-Jan-23 D F: Checked by: Steamont Chenry Leungs new MA20003 202301 Signature: Date: 10-Jan-23



File No. MA20003/44/0016

Project No.	KTD1 - Centre	of Excellence in	Paediatrics (Childi	en's Hospital)				
Date:	10-J	an-23	Next Due Date:	12-1	Mar-23	Operator:	SK	
Equipment No.:	A-0)1-44	Model No.:	TE	E-5170	Serial No.	1316	
			Ambient C	Condition				
Temperatu	re, Ta (K)	291.2	Pressure, Pa	(mmHg)		764.2		
			ifice Transfer Sta				0.02.120	
Serial No. Last Calibration Date:		3864	Slope, mc	0.05922	$Interceptc = [\Delta H x (Pa/760)]$		-0.02420	
Next Calibr		31-Jan-22 31-Jan-23			$(Pa/760) \times (298/2)$			
Next Callor	ation Date.			<u> 25ни – [[Дні л</u>	(14/100) A (200)	[u)] [bc]/]		
			Calibration of	TSP Sampler				
Calibration		01	fice			HVS [ΔW x (Pa/760) x (298/Ta)] ^{1/}		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] ^{1/2} Y-axis	
1	13.8		3.77	64.04	10.5		3.29	
2	11.6		3.45	58.75	8.2		2.90	
3	9.3		3.09		6.3		2.55	
4	6.4		2.57	43.74	4.2		2.08	
5	3.9		2.00	34.24	2.7		1.67	
By Linear Regr	ession of Y on 2	X						
Slope, mw =]	Intercept, bw :	-0.233	8		
Correlation	coefficient* =	0	.9958	_				
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.					
			Set Point C	abulation				
From the TSP Fi	ield Calibration (Curve, take Qstd						
		he "Y" value acc						
110111 110 1108100	oron 2quaron, a		-					
		mw x Q	$\mathbf{\hat{D}std} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x ('	Ta / 298) =	4.22			
Remarks:								
				1-				
Conducted by:	Wong Sl	hing Kwai	Signature:	Ŕ	X-	Date:	10-Jan-23	

E: Sinecked up xinst Equipment CHERREY LEUNES Dew/MA20003_202301 Signature: 01-44) - Centry X27

10-Jan-23

Date:



File No. MA20003/41/0016

Project No.	KTD 2D - Nex	t to the SOR Offi	ce of Trunk Road	Г2 in Kai Tak A	Area			
Date:	10-J	an-23	Next Due Date:	12-1	Mar-23	Operator:	SK	
Equipment No.:	Equipment No.: A-01-41		Model No.:	TE	2 5170	Serial No.	5280	
			Ambient C	ondition				
Temperature, Ta (K) 29		291.2	Pressure, Pa	(mmHg)		764.2		
		Ori	ifice Transfer Star	ndard Informa	ation			
Serial	l No.	3864	Slope, mc	0.05922	Intercept	t, bc	-0.02420	
Last Calibra	ation Date:	31-Jan-22	1	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$		2	
Next Calibr	ation Date:	31-Jan-23		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	Γa)]^{1/2} -bc} / m	c	
		•	Calibustian of					
0.1		Or	fice	of TSP Sampler HVS				
Calibration Point	ΔH (orifice), in. of water		50) x $(298/Ta)$] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	50) x (298/Ta)] ^{1/2} '-axis	
1	13.9		3.78	64.27	10.9		3.35	
2	11.1		3.38	57.48	9.2	3.08		
3	9.2		3.08	52.36	6.9	2.66		
4	6.8		2.65	45.08	5.0	2.27		
5	4.0		2.03	34.67	2.7		1.67	
By Linear Regr Slope , mw =		X]	Intercept, bw :	-0.347	/5		
	coefficient* =	0	.9973	• /				
*If Correlation C	Coefficient < 0.9	90, check and rec	calibrate.	•				
			Set Point Ca	alculation				
		Curve, take Qstd he "Y" value acco		· (D9/760) v (30	98/T a)1 ^{1/2}			
Therefore, Se	et Point; W = (n		2 x (760 / Pa) x (7	· · · ·	4.51			
Remarks:								
Conducted by:	Wong Si	hing Kwai	Signature:	K	<u></u> Х.	Date:	10-Jan-23	
Checked by:	Henry	Leung	Signature:	1_0	Xon	Date:	10-Jan-23	



<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 Sp	beed, 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 Di	rection (°)	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

CINGTECH

Certificate of Calibration - Wind Monitoring Station

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>18-Feb-2023</u>
Next Due Date	<u>18-Aug-2023</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.2	1.3	-0.1
2.5	2.5	0.0
3.8	3.9	-0.1

2. Performance check of Wind Direction

Wind Di	rection (°)	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



RECALIBRATION

DUE DATE:

January 16, 2024

Certificate of Calibration

			Calibration					014
Cal. Date:	January 16	, 2023	Roots	meter S/N:	438320	Та:	293	℃К
Operator:	Jim Tisch					Pa: 749.0		mm Hg
Calibration	Model #:	TE-5025A	Calib	prator S/N:	3864			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4440	3.2	2.00	1
	2	3	4	1	1.0220	6.4	4.00	
	3	5	6	1	0.9100	8.0	5.00	
	4	7	8	1	0.8710	8.8	5.50	
	5	9	10	1	0.7210	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9981	0.6912	1.41	59	0.9957	0.6896	0.8845	
	0.9938	0.9724	2.00	24	0.9915	0.9701	1.2509	
	0.9917	1.0898	2.23	88	0.9893	1.0872	1.3985	
	0.9906	1.1373	2.34	80	0.9883	1.1346	1.4668	
	0.9853	1.3665	2.83		0.9829	1.3633	1.7690	
		m=	2.094			m=	1.31155	
	QSTD	b=	-0.034		QA	b=	-0.02182	
		r=	0.999	995		ľ=	0.99995	
				Calculatio				
)/Pstd)(Tstd/Ta	a)		ΔVol((Pa-ΔP)/Pa)		
	Qstd=	Vstd/∆Time			-	Va/∆Time		
			For subsequ	ient flow ra	te calculatio	ns:		
	Qstd=	1/m((√∆H(Pa <u>Tstd</u> Pstd Ta	-))-ь)	Qa=	1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						
Tstd						RECA	LIBRATION	
Pstd		mm Hg			US FPA rec	ommends a	nnual recalibratio	on ner 1999
Key ΔH: calibrator manometer reading (in H2O)							Regulations Part !	
		eter reading					, Reference Meth	
		perature (°K)					ended Particulat	
		ressure (mm				•	ere, 9.2.17, page	
b: intercept						c Autospite	, J.z.z/, page	
m: slope								

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity	Precipitation (mm) ³
		$(\%)^2$	
1-Feb-23	19.9	77	0.0
2-Feb-23	19.4	77	0.0
3-Feb-23	17.9	76	0.0
4-Feb-23	17.4	81	0.4
5-Feb-23	17.9	83	Trace
6-Feb-23	19.2	85	0.1
7-Feb-23	21.0	83	Trace
8-Feb-23	18.5	84	Trace
9-Feb-23	19.5	83	0.1
10-Feb-23	21.2	87	0.1
11-Feb-23	18.7	93	0.9
12-Feb-23	19.9	95	Trace
13-Feb-23	22.3	88	Trace
14-Feb-23	18.5	64	0.0
15-Feb-23	16.3	60	0.0
16-Feb-23	16.8	62	0.0
17-Feb-23	18.7	70	0.0
18-Feb-23	21.0	67	0.0
19-Feb-23	22.8	67	Trace
20-Feb-23	20.1	64	0.0
21-Feb-23	17.8	62	0.0
22-Feb-23	16.9	61	0.0
23-Feb-23	18.2	70	0.0
24-Feb-23	19.8	67	0.0
25-Feb-23	17.1	54	0.0
26-Feb-23	16.8	58	0.0
27-Feb-23	16.4	60	0.0
28-Feb-23	17.8	71	0.0

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month:February 2023)

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 Feb 2023	12:00 AM	ESE	0.4				
1 Feb 2023	1:00 AM	ESE	0.4				
1 Feb 2023	2:00 AM	ESE	1.3				
1 Feb 2023	3:00 AM	Е	1.3				
1 Feb 2023	4:00 AM	Е	1.3				
1 Feb 2023	5:00 AM	ESE	1.8				
1 Feb 2023	6:00 AM	SE	2.7				
1 Feb 2023	7:00 AM	SE	2.2				
1 Feb 2023	8:00 AM	ESE	2.7				
1 Feb 2023	9:00 AM	ESE	1.8				
1 Feb 2023	10:00 AM	ESE	1.3				
1 Feb 2023	11:00 AM	SE	1.3				
1 Feb 2023	12:00 PM	ESE	4.0				
1 Feb 2023	1:00 PM	Е	4.0				
1 Feb 2023	2:00 PM	WNW	1.3				
1 Feb 2023	3:00 PM	SE	0.9				
1 Feb 2023	4:00 PM	ESE	0.9				
1 Feb 2023	5:00 PM	ESE	1.3				
1 Feb 2023	6:00 PM	Е	1.3				
1 Feb 2023	7:00 PM	ESE	0.9				
1 Feb 2023	8:00 PM	ESE	0.9				
1 Feb 2023	9:00 PM	ESE	0.9				
1 Feb 2023	10:00 PM	ESE	0.9				
1 Feb 2023	11:00 PM	ESE	1.3				
2 Feb 2023	12:00 AM	W	0.9				
2 Feb 2023	1:00 AM	NE	0.9				
2 Feb 2023	2:00 AM	NNW	1.3				
2 Feb 2023	3:00 AM	NE	1.3				
2 Feb 2023	4:00 AM	NE	1.3				

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
2 Feb 2023	5:00 AM	NNW	0.9	
2 Feb 2023	6:00 AM	NNW	0.9	
2 Feb 2023	7:00 AM	NNW	0.9	
2 Feb 2023	8:00 AM	NNW	0.9	
2 Feb 2023	9:00 AM	NNW	1.3	
2 Feb 2023	10:00 AM	NNW	1.3	
2 Feb 2023	11:00 AM	NNW	2.7	
2 Feb 2023	12:00 PM	NNW	4.5	
2 Feb 2023	1:00 PM	NNW	5.4	
2 Feb 2023	2:00 PM	NE	4.0	
2 Feb 2023	3:00 PM	ENE	2.2	
2 Feb 2023	4:00 PM	NNE	0.9	
2 Feb 2023	5:00 PM	ENE	1.3	
2 Feb 2023	6:00 PM	NE	1.3	
2 Feb 2023	7:00 PM	NW	1.8	
2 Feb 2023	8:00 PM	NW	1.3	
2 Feb 2023	9:00 PM	NW	1.8	
2 Feb 2023	10:00 PM	W	1.8	
2 Feb 2023	11:00 PM	NW	1.8	
3 Feb 2023	12:00 AM	NW	2.2	
3 Feb 2023	1:00 AM	WNW	1.8	
3 Feb 2023	2:00 AM	NW	1.8	
3 Feb 2023	3:00 AM	NW	1.3	
3 Feb 2023	4:00 AM	NW	1.8	
3 Feb 2023	5:00 AM	NW	1.8	
3 Feb 2023	6:00 AM	Е	1.8	
3 Feb 2023	7:00 AM	ESE	1.8	
3 Feb 2023	8:00 AM	Е	1.8	
3 Feb 2023	9:00 AM	ENE	1.3	

Appendix D - Weather Conditions During Impact Monitoring Period				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
3 Feb 2023	10:00 AM	ENE	0.9	
3 Feb 2023	11:00 AM	Е	2.2	
3 Feb 2023	12:00 PM	ENE	0.9	
3 Feb 2023	1:00 PM	Е	0.9	
3 Feb 2023	2:00 PM	ENE	1.3	
3 Feb 2023	3:00 PM	NW	1.3	
3 Feb 2023	4:00 PM	ENE	1.8	
3 Feb 2023	5:00 PM	WNW	1.8	
3 Feb 2023	6:00 PM	ENE	1.8	
3 Feb 2023	7:00 PM	ESE	1.3	
3 Feb 2023	8:00 PM	NW	1.3	
3 Feb 2023	9:00 PM	NW	1.3	
3 Feb 2023	10:00 PM	NW	1.3	
3 Feb 2023	11:00 PM	NNE	0.9	
4 Feb 2023	12:00 AM	NNW	0.9	
4 Feb 2023	1:00 AM	W	1.3	
4 Feb 2023	2:00 AM	WNW	1.3	
4 Feb 2023	3:00 AM	WSW	1.8	
4 Feb 2023	4:00 AM	WSW	1.3	
4 Feb 2023	5:00 AM	WSW	1.3	
4 Feb 2023	6:00 AM	W	1.8	
4 Feb 2023	7:00 AM	NW	1.3	
4 Feb 2023	8:00 AM	W	0.9	
4 Feb 2023	9:00 AM	W	1.3	
4 Feb 2023	10:00 AM	W	1.8	
4 Feb 2023	11:00 AM	WNW	1.8	
4 Feb 2023	12:00 PM	W	2.2	
4 Feb 2023	1:00 PM	W	1.3	
4 Feb 2023	2:00 PM	W	0.9	

Appendix D - Weather Conditions During Impact Monitoring Period					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
4 Feb 2023	3:00 PM	W	0.9		
4 Feb 2023	4:00 PM	W	0.9		
4 Feb 2023	5:00 PM	WNW	0.9		
4 Feb 2023	6:00 PM	W	0.9		
4 Feb 2023	7:00 PM	W	0.9		
4 Feb 2023	8:00 PM	W	0.4		
4 Feb 2023	9:00 PM	W	0.9		
4 Feb 2023	10:00 PM	W	0.4		
4 Feb 2023	11:00 PM	W	0.4		
5 Feb 2023	12:00 AM	W	0.4		
5 Feb 2023	1:00 AM	W	0.4		
5 Feb 2023	2:00 AM	W	0.4		
5 Feb 2023	3:00 AM	W	0.4		
5 Feb 2023	4:00 AM	W	0.0		
5 Feb 2023	5:00 AM	W	0.4		
5 Feb 2023	6:00 AM	W	0.9		
5 Feb 2023	7:00 AM	W	0.9		
5 Feb 2023	8:00 AM	NW	0.4		
5 Feb 2023	9:00 AM	W	1.3		
5 Feb 2023	10:00 AM	W	1.3		
5 Feb 2023	11:00 AM	WNW	4.0		
5 Feb 2023	12:00 PM	WNW	3.6		
5 Feb 2023	1:00 PM	W	4.9		
5 Feb 2023	2:00 PM	NW	3.6		
5 Feb 2023	3:00 PM	NW	2.2		
5 Feb 2023	4:00 PM	NW	2.2		
5 Feb 2023	5:00 PM	NW	1.8		
5 Feb 2023	6:00 PM	NW	0.0		
5 Feb 2023	7:00 PM	NW	0.4		

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
5 Feb 2023	8:00 PM	NW	0.4	
5 Feb 2023	9:00 PM	NW	0.4	
5 Feb 2023	10:00 PM	NW	0.3	
5 Feb 2023	11:00 PM	NW	0.2	
6 Feb 2023	12:00 AM	NW	0.3	
6 Feb 2023	1:00 AM	NW	0.2	
6 Feb 2023	2:00 AM	NW	0.2	
6 Feb 2023	3:00 AM	NW	0.1	
6 Feb 2023	4:00 AM	NW	0.0	
6 Feb 2023	5:00 AM	NW	0.4	
6 Feb 2023	6:00 AM	NW	1.3	
6 Feb 2023	7:00 AM	NW	1.3	
6 Feb 2023	8:00 AM	NW	2.2	
6 Feb 2023	9:00 AM	NW	1.3	
6 Feb 2023	10:00 AM	NW	1.3	
6 Feb 2023	11:00 AM	NW	1.3	
6 Feb 2023	12:00 PM	NW	1.3	
6 Feb 2023	1:00 PM	NW	1.8	
6 Feb 2023	2:00 PM	NW	1.3	
6 Feb 2023	3:00 PM	NW	0.9	
6 Feb 2023	4:00 PM	ENE	0.9	
6 Feb 2023	5:00 PM	Е	0.9	
6 Feb 2023	6:00 PM	Е	0.9	
6 Feb 2023	7:00 PM	Е	0.9	
6 Feb 2023	8:00 PM	Е	1.3	
6 Feb 2023	9:00 PM	Е	0.9	
6 Feb 2023	10:00 PM	Е	0.9	
6 Feb 2023	11:00 PM	ENE	1.3	
7 Feb 2023	12:00 AM	Е	0.9	

Appendix D - Weather Conditions During Impact Monitoring Period					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
7 Feb 2023	1:00 AM	ENE	0.9		
7 Feb 2023	2:00 AM	Е	0.4		
7 Feb 2023	3:00 AM	Е	0.4		
7 Feb 2023	4:00 AM	ENE	0.4		
7 Feb 2023	5:00 AM	Е	0.9		
7 Feb 2023	6:00 AM	Е	1.3		
7 Feb 2023	7:00 AM	Е	1.3		
7 Feb 2023	8:00 AM	ESE	1.3		
7 Feb 2023	9:00 AM	ESE	1.3		
7 Feb 2023	10:00 AM	NW	1.3		
7 Feb 2023	11:00 AM	Е	1.3		
7 Feb 2023	12:00 PM	Е	1.8		
7 Feb 2023	1:00 PM	Е	1.8		
7 Feb 2023	2:00 PM	Е	1.3		
7 Feb 2023	3:00 PM	ENE	0.9		
7 Feb 2023	4:00 PM	Е	0.9		
7 Feb 2023	5:00 PM	Е	0.4		
7 Feb 2023	6:00 PM	ENE	0.4		
7 Feb 2023	7:00 PM	ENE	0.4		
7 Feb 2023	8:00 PM	ENE	0.4		
7 Feb 2023	9:00 PM	Е	0.4		
7 Feb 2023	10:00 PM	ESE	0.4		
7 Feb 2023	11:00 PM	NW	0.4		
8 Feb 2023	12:00 AM	ENE	0.4		
8 Feb 2023	1:00 AM	ENE	0.4		
8 Feb 2023	2:00 AM	Е	0.4		
8 Feb 2023	3:00 AM	Е	0.4		
8 Feb 2023	4:00 AM	Е	0.9		
8 Feb 2023	5:00 AM	Е	0.4		

Appendix D - Weather Conditions During Impact Monitoring Period					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
8 Feb 2023	6:00 AM	Е	1.8		
8 Feb 2023	7:00 AM	ENE	1.3		
8 Feb 2023	8:00 AM	ESE	1.8		
8 Feb 2023	9:00 AM	Е	1.3		
8 Feb 2023	10:00 AM	Е	1.8		
8 Feb 2023	11:00 AM	Е	3.6		
8 Feb 2023	12:00 PM	ESE	3.6		
8 Feb 2023	1:00 PM	ENE	1.8		
8 Feb 2023	2:00 PM	Е	2.7		
8 Feb 2023	3:00 PM	NW	2.7		
8 Feb 2023	4:00 PM	NW	2.2		
8 Feb 2023	5:00 PM	NW	2.7		
8 Feb 2023	6:00 PM	NW	2.2		
8 Feb 2023	7:00 PM	NW	1.3		
8 Feb 2023	8:00 PM	NW	1.3		
8 Feb 2023	9:00 PM	W	1.3		
8 Feb 2023	10:00 PM	W	0.4		
8 Feb 2023	11:00 PM	WSW	0.4		
9 Feb 2023	12:00 AM	W	0.4		
9 Feb 2023	1:00 AM	ENE	0.4		
9 Feb 2023	2:00 AM	ESE	0.4		
9 Feb 2023	3:00 AM	ENE	0.9		
9 Feb 2023	4:00 AM	ENE	0.4		
9 Feb 2023	5:00 AM	ESE	0.4		
9 Feb 2023	6:00 AM	Е	0.0		
9 Feb 2023	7:00 AM	W	1.3		
9 Feb 2023	8:00 AM	Е	0.9		
9 Feb 2023	9:00 AM	ENE	1.3		
9 Feb 2023	10:00 AM	ENE	1.8		

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
9 Feb 2023	11:00 AM	Е	1.3	
9 Feb 2023	12:00 PM	Ν	0.9	
9 Feb 2023	1:00 PM	ENE	0.4	
9 Feb 2023	2:00 PM	Е	0.9	
9 Feb 2023	3:00 PM	NW	0.9	
9 Feb 2023	4:00 PM	NW	0.9	
9 Feb 2023	5:00 PM	NW	0.4	
9 Feb 2023	6:00 PM	NW	0.9	
9 Feb 2023	7:00 PM	Е	0.9	
9 Feb 2023	8:00 PM	Е	0.9	
9 Feb 2023	9:00 PM	ESE	0.4	
9 Feb 2023	10:00 PM	ESE	0.9	
9 Feb 2023	11:00 PM	ESE	0.9	
10 Feb 2023	12:00 AM	ESE	0.4	
10 Feb 2023	1:00 AM	NNE	0.4	
10 Feb 2023	2:00 AM	Е	0.0	
10 Feb 2023	3:00 AM	NW	0.4	
10 Feb 2023	4:00 AM	NW	0.4	
10 Feb 2023	5:00 AM	NE	0.0	
10 Feb 2023	6:00 AM	NW	0.0	
10 Feb 2023	7:00 AM	NW	0.0	
10 Feb 2023	8:00 AM	NE	0.4	
10 Feb 2023	9:00 AM	NW	0.4	
10 Feb 2023	10:00 AM	NW	0.0	
10 Feb 2023	11:00 AM	NW	0.4	
10 Feb 2023	12:00 PM	NW	0.4	
10 Feb 2023	1:00 PM	NW	0.4	
10 Feb 2023	2:00 PM	NW	0.4	
10 Feb 2023	3:00 PM	NW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period					
	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
10 Feb 2023	4:00 PM	NW	0.4		
10 Feb 2023	5:00 PM	NW	0.4		
10 Feb 2023	6:00 PM	NW	0.4		
10 Feb 2023	7:00 PM	ENE	0.4		
10 Feb 2023	8:00 PM	NW	0.4		
10 Feb 2023	9:00 PM	NW	0.0		
10 Feb 2023	10:00 PM	NW	0.4		
10 Feb 2023	11:00 PM	NW	0.4		
11 Feb 2023	12:00 AM	NW	0.9		
11 Feb 2023	1:00 AM	NW	0.4		
11 Feb 2023	2:00 AM	NW	0.4		
11 Feb 2023	3:00 AM	NW	0.9		
11 Feb 2023	4:00 AM	NW	0.9		
11 Feb 2023	5:00 AM	Ν	0.9		
11 Feb 2023	6:00 AM	NNW	0.9		
11 Feb 2023	7:00 AM	NNW	0.9		
11 Feb 2023	8:00 AM	NW	1.8		
11 Feb 2023	9:00 AM	NNW	0.9		
11 Feb 2023	10:00 AM	NW	2.7		
11 Feb 2023	11:00 AM	NW	2.2		
11 Feb 2023	12:00 PM	NW	1.3		
11 Feb 2023	1:00 PM	NW	0.4		
11 Feb 2023	2:00 PM	NW	0.4		
11 Feb 2023	3:00 PM	NW	0.4		
11 Feb 2023	4:00 PM	NNE	0.4		
11 Feb 2023	5:00 PM	NW	1.8		
11 Feb 2023	6:00 PM	NW	3.1		
11 Feb 2023	7:00 PM	NW	3.1		
11 Feb 2023	8:00 PM	NW	2.2		

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
11 Feb 2023	9:00 PM	NW	1.8	
11 Feb 2023	10:00 PM	NW	1.3	
11 Feb 2023	11:00 PM	NW	1.8	
12 Feb 2023	12:00 AM	NW	1.8	
12 Feb 2023	1:00 AM	NW	2.7	
12 Feb 2023	2:00 AM	NW	2.2	
12 Feb 2023	3:00 AM		1.8	
12 Feb 2023	4:00 AM		1.3	
12 Feb 2023	5:00 AM	NNW	0.9	
12 Feb 2023	6:00 AM	NW	0.4	
12 Feb 2023	7:00 AM	NW	0.4	
12 Feb 2023	8:00 AM	NW	0.4	
12 Feb 2023	9:00 AM	NW	0.4	
12 Feb 2023	10:00 AM	Е	0.4	
12 Feb 2023	11:00 AM	Е	0.9	
12 Feb 2023	12:00 PM	ENE	0.9	
12 Feb 2023	1:00 PM	ESE	0.9	
12 Feb 2023	2:00 PM	NW	0.9	
12 Feb 2023	3:00 PM	NW	1.3	
12 Feb 2023	4:00 PM	NW	0.9	
12 Feb 2023	5:00 PM	NW	1.8	
12 Feb 2023	6:00 PM	NW	1.8	
12 Feb 2023	7:00 PM	NW	1.3	
12 Feb 2023	8:00 PM	NW	1.3	
12 Feb 2023	9:00 PM	NW	1.3	
12 Feb 2023	10:00 PM	NW	0.4	
12 Feb 2023	11:00 PM	NW	0.4	
13 Feb 2023	12:00 AM	NE	0.9	
13 Feb 2023	1:00 AM	NW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
13 Feb 2023	2:00 AM	NNW	0.0	
13 Feb 2023	3:00 AM	NW	0.0	
13 Feb 2023	4:00 AM	NNE	0.0	
13 Feb 2023	5:00 AM	NW	0.0	
13 Feb 2023	6:00 AM	NW	0.4	
13 Feb 2023	7:00 AM	NNE	0.9	
13 Feb 2023	8:00 AM	WNW	0.4	
13 Feb 2023	9:00 AM	NW	0.4	
13 Feb 2023	10:00 AM	ENE	0.9	
13 Feb 2023	11:00 AM	NNE	0.9	
13 Feb 2023	12:00 PM	NW	0.4	
13 Feb 2023	1:00 PM	NW	0.4	
13 Feb 2023	2:00 PM	NW	0.9	
13 Feb 2023	3:00 PM	NW	1.3	
13 Feb 2023	4:00 PM	NW	4.0	
13 Feb 2023	5:00 PM	NW	3.6	
13 Feb 2023	6:00 PM	NW	3.6	
13 Feb 2023	7:00 PM	NW	4.5	
13 Feb 2023	8:00 PM	NW	1.8	
13 Feb 2023	9:00 PM	W	0.4	
13 Feb 2023	10:00 PM	NW	0.4	
13 Feb 2023	11:00 PM	NW	0.0	
14 Feb 2023	12:00 AM	WSW	0.0	
14 Feb 2023	1:00 AM	NW	0.4	
14 Feb 2023	2:00 AM	NW	0.0	
14 Feb 2023	3:00 AM	NW	0.0	
14 Feb 2023	4:00 AM	NW	0.0	
14 Feb 2023	5:00 AM	NW	0.0	
14 Feb 2023	6:00 AM	NW	0.0	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
14 Feb 2023	7:00 AM	NW	0.0	
14 Feb 2023	8:00 AM	NW	0.0	
14 Feb 2023	9:00 AM	W	0.0	
14 Feb 2023	10:00 AM	NW	0.0	
14 Feb 2023	11:00 AM	NW	0.0	
14 Feb 2023	12:00 PM	NE	0.0	
14 Feb 2023	1:00 PM	NE	0.4	
14 Feb 2023	2:00 PM	NW	3.1	
14 Feb 2023	3:00 PM	NW	3.1	
14 Feb 2023	4:00 PM	NW	1.8	
14 Feb 2023	5:00 PM	NW	0.9	
14 Feb 2023	6:00 PM	NW	0.4	
14 Feb 2023	7:00 PM	NNW	0.4	
14 Feb 2023	8:00 PM	NW	0.4	
14 Feb 2023	9:00 PM	NW	0.4	
14 Feb 2023	10:00 PM	NW	0.0	
14 Feb 2023	11:00 PM	NW	0.0	
15 Feb 2023	12:00 AM	NW	0.0	
15 Feb 2023	1:00 AM	ESE	0.0	
15 Feb 2023	2:00 AM	WNW	0.0	
15 Feb 2023	3:00 AM	WNW	0.0	
15 Feb 2023	4:00 AM	Е	0.0	
15 Feb 2023	5:00 AM	ENE	0.0	
15 Feb 2023	6:00 AM	NW	0.0	
15 Feb 2023	7:00 AM	ENE	0.0	
15 Feb 2023	8:00 AM	ENE	0.0	
15 Feb 2023	9:00 AM	NW	0.0	
15 Feb 2023	10:00 AM	NE	0.0	
15 Feb 2023	11:00 AM	NW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
15 Feb 2023	12:00 PM	ENE	0.4	
15 Feb 2023	1:00 PM	Е	0.9	
15 Feb 2023	2:00 PM	Е	1.8	
15 Feb 2023	3:00 PM	Е	1.8	
15 Feb 2023	4:00 PM	Е	1.3	
15 Feb 2023	5:00 PM	Е	0.9	
15 Feb 2023	6:00 PM	Е	0.9	
15 Feb 2023	7:00 PM	ESE	1.3	
15 Feb 2023	8:00 PM	Е	1.8	
15 Feb 2023	9:00 PM	Е	0.9	
15 Feb 2023	10:00 PM	ENE	0.9	
15 Feb 2023	11:00 PM	ESE	1.3	
16 Feb 2023	12:00 AM	ESE	0.9	
16 Feb 2023	1:00 AM	Е	0.9	
16 Feb 2023	2:00 AM	NNW	0.9	
16 Feb 2023	3:00 AM	ENE	0.4	
16 Feb 2023	4:00 AM	Е	0.9	
16 Feb 2023	5:00 AM	Е	0.9	
16 Feb 2023	6:00 AM	ENE	0.9	
16 Feb 2023	7:00 AM	SE	0.9	
16 Feb 2023	8:00 AM	NW	1.3	
16 Feb 2023	9:00 AM	NW	1.3	
16 Feb 2023	10:00 AM	Е	1.3	
16 Feb 2023	11:00 AM	Е	1.3	
16 Feb 2023	12:00 PM	Е	1.3	
16 Feb 2023	1:00 PM	Е	1.8	
16 Feb 2023	2:00 PM	Е	1.3	
16 Feb 2023	3:00 PM	SE	1.3	
16 Feb 2023	4:00 PM	Е	1.3	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
16 Feb 2023	5:00 PM	ESE	0.9	
16 Feb 2023	6:00 PM	ESE	1.8	
16 Feb 2023	7:00 PM	ESE	2.2	
16 Feb 2023	8:00 PM	ESE	2.7	
16 Feb 2023	9:00 PM	ESE	2.7	
16 Feb 2023	10:00 PM	ESE	1.8	
16 Feb 2023	11:00 PM	ESE	1.3	
17 Feb 2023	12:00 AM	ESE	1.3	
17 Feb 2023	1:00 AM	Е	0.9	
17 Feb 2023	2:00 AM	SE	0.9	
17 Feb 2023	3:00 AM	SE	0.9	
17 Feb 2023	4:00 AM	SE	0.4	
17 Feb 2023	5:00 AM	SE	0.4	
17 Feb 2023	6:00 AM	WNW	0.4	
17 Feb 2023	7:00 AM	WNW	0.4	
17 Feb 2023	8:00 AM	WNW	0.9	
17 Feb 2023	9:00 AM	NNW	0.9	
17 Feb 2023	10:00 AM	WNW	0.9	
17 Feb 2023	11:00 AM	WNW	0.4	
17 Feb 2023	12:00 PM	NNW	0.9	
17 Feb 2023	1:00 PM	NNW	0.9	
17 Feb 2023	2:00 PM	WNW	0.9	
17 Feb 2023	3:00 PM	NW	0.9	
17 Feb 2023	4:00 PM	NW	0.4	
17 Feb 2023	5:00 PM	NNW	0.9	
17 Feb 2023	6:00 PM	ESE	0.9	
17 Feb 2023	7:00 PM	NNW	0.9	
17 Feb 2023	8:00 PM	NNW	0.9	
17 Feb 2023	9:00 PM	NNW	0.9	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
17 Feb 2023	10:00 PM	WNW	0.9	
17 Feb 2023	11:00 PM	SE	0.9	
18 Feb 2023	12:00 AM	NNW	0.9	
18 Feb 2023	1:00 AM	NW	0.9	
18 Feb 2023	2:00 AM	NW	0.9	
18 Feb 2023	3:00 AM	NNW	3.1	
18 Feb 2023	4:00 AM	NNW	4.0	
18 Feb 2023	5:00 AM	NNW	4.5	
18 Feb 2023	6:00 AM	NNW	4.9	
18 Feb 2023	7:00 AM	NNW	2.7	
18 Feb 2023	8:00 AM	ESE	1.3	
18 Feb 2023	9:00 AM	ESE	1.3	
18 Feb 2023	10:00 AM	ESE	0.9	
18 Feb 2023	11:00 AM	Е	1.8	
18 Feb 2023	12:00 PM	Е	0.9	
18 Feb 2023	1:00 PM	ESE	0.9	
18 Feb 2023	2:00 PM	SE	0.9	
18 Feb 2023	3:00 PM	SE	0.9	
18 Feb 2023	4:00 PM	ESE	0.4	
18 Feb 2023	5:00 PM	ESE	0.4	
18 Feb 2023	6:00 PM	ESE	0.4	
18 Feb 2023	7:00 PM	SE	0.0	
18 Feb 2023	8:00 PM	ESE	0.0	
18 Feb 2023	9:00 PM	Е	0.0	
18 Feb 2023	10:00 PM	WNW	0.4	
18 Feb 2023	11:00 PM	SE	0.9	
19 Feb 2023	12:00 AM	ESE	1.3	
19 Feb 2023	1:00 AM	ESE	1.3	
19 Feb 2023	2:00 AM	Е	2.2	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
19 Feb 2023	3:00 AM	ESE	4.0	
19 Feb 2023	4:00 AM	ESE	4.0	
19 Feb 2023	5:00 AM	ESE	3.6	
19 Feb 2023	6:00 AM	ESE	3.6	
19 Feb 2023	7:00 AM	ESE	3.6	
19 Feb 2023	8:00 AM	NNW	2.7	
19 Feb 2023	9:00 AM	NW	2.7	
19 Feb 2023	10:00 AM	NNW	0.9	
19 Feb 2023	11:00 AM	NNW	0.9	
19 Feb 2023	12:00 PM	W	0.0	
19 Feb 2023	1:00 PM	NNW	0.4	
19 Feb 2023	2:00 PM	W	0.4	
19 Feb 2023	3:00 PM	W	3.6	
19 Feb 2023	4:00 PM	W	2.7	
19 Feb 2023	5:00 PM	NNW	2.7	
19 Feb 2023	6:00 PM	ENE	0.9	
19 Feb 2023	7:00 PM	Е	0.9	
19 Feb 2023	8:00 PM	ENE	0.0	
19 Feb 2023	9:00 PM	NE	0.4	
19 Feb 2023	10:00 PM	NE	0.4	
19 Feb 2023	11:00 PM	ENE	0.4	
20 Feb 2023	12:00 AM	Е	0.4	
20 Feb 2023	1:00 AM	0	1.3	
20 Feb 2023	2:00 AM	0	1.3	
20 Feb 2023	3:00 AM	Е	1.8	
20 Feb 2023	4:00 AM	Е	1.3	
20 Feb 2023	5:00 AM	ENE	1.8	
20 Feb 2023	6:00 AM	ENE	1.8	
20 Feb 2023	7:00 AM	Ν	1.8	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
20 Feb 2023	8:00 AM	ENE	2.2	
20 Feb 2023	9:00 AM	NE	2.2	
20 Feb 2023	10:00 AM	NNW	1.8	
20 Feb 2023	11:00 AM	W	2.7	
20 Feb 2023	12:00 PM	NNW	2.7	
20 Feb 2023	1:00 PM	NNW	1.8	
20 Feb 2023	2:00 PM	NNW	1.8	
20 Feb 2023	3:00 PM	NNW	1.8	
20 Feb 2023	4:00 PM	NNW	2.2	
20 Feb 2023	5:00 PM	NNW	2.2	
20 Feb 2023	6:00 PM	NE	1.8	
20 Feb 2023	7:00 PM	ENE	1.8	
20 Feb 2023	8:00 PM	Ν	1.8	
20 Feb 2023	9:00 PM	Ν	2.2	
20 Feb 2023	10:00 PM	Е	1.8	
20 Feb 2023	11:00 PM	NE	1.8	
21 Feb 2023	12:00 AM	NE	0.0	
21 Feb 2023	1:00 AM	NE	0.0	
21 Feb 2023	2:00 AM	NNE	0.0	
21 Feb 2023	3:00 AM	NNE	0.0	
21 Feb 2023	4:00 AM	NE	0.0	
21 Feb 2023	5:00 AM	NE	0.0	
21 Feb 2023	6:00 AM	NE	0.0	
21 Feb 2023	7:00 AM	NNW	0.0	
21 Feb 2023	8:00 AM	NE	0.0	
21 Feb 2023	9:00 AM	NE	0.0	
21 Feb 2023	10:00 AM	NNW	0.4	
21 Feb 2023	11:00 AM	NNW	1.3	
21 Feb 2023	12:00 PM	NNW	2.2	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
21 Feb 2023	1:00 PM	NNW	3.6	
21 Feb 2023	2:00 PM	NNW	3.6	
21 Feb 2023	3:00 PM	NNW	3.1	
21 Feb 2023	4:00 PM	NNW	3.1	
21 Feb 2023	5:00 PM	NNW	1.8	
21 Feb 2023	6:00 PM	NNW	1.3	
21 Feb 2023	7:00 PM	NE	0.4	
21 Feb 2023	8:00 PM	ENE	0.9	
21 Feb 2023	9:00 PM	NNE	0.9	
21 Feb 2023	10:00 PM	ENE	0.9	
21 Feb 2023	11:00 PM	NE	0.9	
22 Feb 2023	12:00 AM	WNW	0.4	
22 Feb 2023	1:00 AM	WNW	0.4	
22 Feb 2023	2:00 AM	WNW	0.4	
22 Feb 2023	3:00 AM	NW	0.4	
22 Feb 2023	4:00 AM	W	0.0	
22 Feb 2023	5:00 AM	W	0.0	
22 Feb 2023	6:00 AM	WNW	0.0	
22 Feb 2023	7:00 AM	WNW	0.4	
22 Feb 2023	8:00 AM	W	0.4	
22 Feb 2023	9:00 AM	W	0.9	
22 Feb 2023	10:00 AM	W	0.9	
22 Feb 2023	11:00 AM	SSW	0.9	
22 Feb 2023	12:00 PM	SSW	0.9	
22 Feb 2023	1:00 PM	ESE	1.3	
22 Feb 2023	2:00 PM	ESE	1.3	
22 Feb 2023	3:00 PM	ESE	0.9	
22 Feb 2023	4:00 PM	Е	0.0	
22 Feb 2023	5:00 PM	Е	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
22 Feb 2023	6:00 PM	ESE	1.3	
22 Feb 2023	7:00 PM	SE	0.4	
22 Feb 2023	8:00 PM	SE	0.4	
22 Feb 2023	9:00 PM	ESE	0.4	
22 Feb 2023	10:00 PM	ESE	0.0	
22 Feb 2023	11:00 PM	ESE	0.4	
23 Feb 2023	12:00 AM	SE	0.9	
23 Feb 2023	1:00 AM	ESE	0.0	
23 Feb 2023	2:00 AM	Е	0.4	
23 Feb 2023	3:00 AM	WNW	0.9	
23 Feb 2023	4:00 AM	SE	1.8	
23 Feb 2023	5:00 AM	ESE	1.3	
23 Feb 2023	6:00 AM	ESE	2.2	
23 Feb 2023	7:00 AM	Е	2.7	
23 Feb 2023	8:00 AM	ESE	2.7	
23 Feb 2023	9:00 AM	ESE	1.3	
23 Feb 2023	10:00 AM	ESE	1.8	
23 Feb 2023	11:00 AM	ESE	0.0	
23 Feb 2023	12:00 PM	ESE	0.9	
23 Feb 2023	1:00 PM	SW	1.3	
23 Feb 2023	2:00 PM	ENE	1.3	
23 Feb 2023	3:00 PM	ENE	1.3	
23 Feb 2023	4:00 PM	SW	1.3	
23 Feb 2023	5:00 PM	SW	1.8	
23 Feb 2023	6:00 PM	SSW	0.9	
23 Feb 2023	7:00 PM	SW	1.3	
23 Feb 2023	8:00 PM	ENE	0.9	
23 Feb 2023	9:00 PM	ENE	0.9	
23 Feb 2023	10:00 PM	SW	0.4	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
23 Feb 2023	11:00 PM	ESE	0.9	
24 Feb 2023	12:00 AM	W	0.4	
24 Feb 2023	1:00 AM	NE	0.4	
24 Feb 2023	2:00 AM	NW	0.4	
24 Feb 2023	3:00 AM	WNW	0.0	
24 Feb 2023	4:00 AM	W	0.0	
24 Feb 2023	5:00 AM	W	0.4	
24 Feb 2023	6:00 AM	NW	0.4	
24 Feb 2023	7:00 AM	WNW	0.9	
24 Feb 2023	8:00 AM	WNW	1.3	
24 Feb 2023	9:00 AM	NW	1.3	
24 Feb 2023	10:00 AM	W	0.9	
24 Feb 2023	11:00 AM	WSW	0.9	
24 Feb 2023	12:00 PM	WNW	0.9	
24 Feb 2023	1:00 PM	WNW	2.7	
24 Feb 2023	2:00 PM	ESE	2.2	
24 Feb 2023	3:00 PM	Е	0.9	
24 Feb 2023	4:00 PM	WNW	0.4	
24 Feb 2023	5:00 PM	NW	0.4	
24 Feb 2023	6:00 PM	W	0.4	
24 Feb 2023	7:00 PM	W	0.9	
24 Feb 2023	8:00 PM	NW	0.9	
24 Feb 2023	9:00 PM	WNW	0.9	
24 Feb 2023	10:00 PM	WNW	1.3	
24 Feb 2023	11:00 PM	ESE	1.8	
25 Feb 2023	12:00 AM	Е	2.7	
25 Feb 2023	1:00 AM	WNW	3.6	
25 Feb 2023	2:00 AM	NW	2.2	
25 Feb 2023	3:00 AM	NW	2.2	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
25 Feb 2023	4:00 AM	NNW	1.8	
25 Feb 2023	5:00 AM	NNW	1.3	
25 Feb 2023	6:00 AM	WNW	0.9	
25 Feb 2023	7:00 AM	NW	0.4	
25 Feb 2023	8:00 AM	WNW	0.4	
25 Feb 2023	9:00 AM	WNW	0.4	
25 Feb 2023	10:00 AM	WNW	0.9	
25 Feb 2023	11:00 AM	WNW	0.9	
25 Feb 2023	12:00 PM	WNW	1.3	
25 Feb 2023	1:00 PM	WNW	0.4	
25 Feb 2023	2:00 PM	WNW	0.9	
25 Feb 2023	3:00 PM	WNW	1.8	
25 Feb 2023	4:00 PM	WNW	0.4	
25 Feb 2023	5:00 PM	Е	0.9	
25 Feb 2023	6:00 PM	WNW	0.9	
25 Feb 2023	7:00 PM	WNW	0.9	
25 Feb 2023	8:00 PM	WNW	0.4	
25 Feb 2023	9:00 PM	WNW	0.9	
25 Feb 2023	10:00 PM	NW	0.9	
25 Feb 2023	11:00 PM	NW	0.9	
26 Feb 2023	12:00 AM	NNW	1.3	
26 Feb 2023	1:00 AM	WNW	1.8	
26 Feb 2023	2:00 AM	NNW	2.7	
26 Feb 2023	3:00 AM	NNW	2.1	
26 Feb 2023	4:00 AM	WNW	2.2	
26 Feb 2023	5:00 AM	WNW	2.2	
26 Feb 2023	6:00 AM	WNW	1.8	
26 Feb 2023	7:00 AM	NW	1.3	
26 Feb 2023	8:00 AM	WNW	0.9	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
26 Feb 2023	9:00 AM	NNW	0.4	
26 Feb 2023	10:00 AM	NW	1.3	
26 Feb 2023	11:00 AM	NW	0.9	
26 Feb 2023	12:00 PM	NNW	0.9	
26 Feb 2023	1:00 PM	WNW	0.9	
26 Feb 2023	2:00 PM	WNW	0.9	
26 Feb 2023	3:00 PM	W	0.9	
26 Feb 2023	4:00 PM	WNW	0.9	
26 Feb 2023	5:00 PM	WNW	0.9	
26 Feb 2023	6:00 PM	W	1.3	
26 Feb 2023	7:00 PM	NNW	0.9	
26 Feb 2023	8:00 PM	WNW	1.8	
26 Feb 2023	9:00 PM	NW	0.9	
26 Feb 2023	10:00 PM	NW	0.9	
26 Feb 2023	11:00 PM	W	0.9	
27 Feb 2023	12:00 AM	W	0.9	
27 Feb 2023	1:00 AM	NW	0.9	
27 Feb 2023	2:00 AM	NW	0.4	
27 Feb 2023	3:00 AM	NW	0.9	
27 Feb 2023	4:00 AM	W	0.9	
27 Feb 2023	5:00 AM	WNW	0.9	
27 Feb 2023	6:00 AM	W	1.3	
27 Feb 2023	7:00 AM	WNW	1.8	
27 Feb 2023	8:00 AM	NNE	2.7	
27 Feb 2023	9:00 AM	W	3.6	
27 Feb 2023	10:00 AM	WNW	2.2	
27 Feb 2023	11:00 AM	WNW	2.2	
27 Feb 2023	12:00 PM	WNW	1.8	
27 Feb 2023	1:00 PM	WNW	1.3	

Appendix D - Weather Conditions During Impact Monitoring Period				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
27 Feb 2023	2:00 PM	WNW	0.9	
27 Feb 2023	3:00 PM	WNW	0.4	
27 Feb 2023	4:00 PM	WNW	0.0	
27 Feb 2023	5:00 PM	WNW	0.0	
27 Feb 2023	6:00 PM	WNW	1.3	
27 Feb 2023	7:00 PM	WNW	1.8	
27 Feb 2023	8:00 PM	WSW	0.9	
27 Feb 2023	9:00 PM	WSW	1.3	
27 Feb 2023	10:00 PM	WSW	0.9	
27 Feb 2023	11:00 PM	WSW	1.3	
28 Feb 2023	12:00 AM	W	2.7	
28 Feb 2023	1:00 AM	NE	2.2	
28 Feb 2023	2:00 AM	ENE	2.2	
28 Feb 2023	3:00 AM	NE	0.9	
28 Feb 2023	4:00 AM	NE	0.4	
28 Feb 2023	5:00 AM	WSW	0.4	
28 Feb 2023	6:00 AM	W	0.4	
28 Feb 2023	7:00 AM	WSW	0.9	
28 Feb 2023	8:00 AM	WSW	0.9	
28 Feb 2023	9:00 AM	WSW	0.9	
28 Feb 2023	10:00 AM	WSW	1.3	
28 Feb 2023	11:00 AM	WNW	1.8	
28 Feb 2023	12:00 PM	WNW	2.7	
28 Feb 2023	1:00 PM	WSW	3.6	
28 Feb 2023	2:00 PM	ENE	2.2	

Appendix D - We	Appendix D - Weather Conditions During Impact Monitoring Period								
Wind Speed and Directions									
Date	Time	Direction	Wind Speed m-s						
28 Feb 2023	3:00 PM	SW	2.2						
28 Feb 2023	4:00 PM	ENE	1.8						
28 Feb 2023	5:00 PM	NE	1.3						
28 Feb 2023	6:00 PM	WSW	0.9						
28 Feb 2023	7:00 PM	W	0.4						
28 Feb 2023	8:00 PM	WSW	0.4						
28 Feb 2023	9:00 PM	WSW	0.4						
28 Feb 2023	10:00 PM	WSW	0.9						
28 Feb 2023	11:00 PM	SSW	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

Ctart 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)
1-Feb-23	Sunny	292.7	763.7	3.4066	3.7094	0.3028	5546.6	5570.6	24.0	1.21	1.21	1.21	1743.9	173.6		
7-Feb-23	Cloudy	292.8	763.2	3.3626	3.5938	0.2312	5570.6	5594.6	24.0	1.21	1.21	1.21	1743.9	132.6		
13-Feb-23	Fine	293.4	763.2	3.3665	3.6064	0.2400	5594.6	5618.6	24.0	1.21	1.21	1.21	1741.6	137.8	191.0	260.0
17-Feb-23	Sunny	292.9	765.8	3.3868	3.6173	0.2304	5618.6	5642.6	24.0	1.21	1.21	1.21	1745.4	132.0		i
23-Feb-23	Sunny	292.0	765.1	3.5251	3.7670	0.2419	5642.6	5666.6	24.0	1.21	1.21	1.21	1746.8	138.5		
Note:	Bold Italic means A	ction Level exce	edance										Min	132.0		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	173.6		
													Average	142.9		

Location CKL2 - Flat 103 Cha Kwo Ling Village

Chart 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)
1-Feb-23	Sunny	292.7	763.7	3.3238	3.5509	0.2271	17695.2	17719.2	24.0	1.21	1.21	1.21	1745.9	130.1		
7-Feb-23	Sunny	292.8	763.2	3.3762	3.6524	0.2762	17719.2	17743.2	24.0	1.21	1.21	1.21	1745.2	158.3		
13-Feb-23	Fine	293.4	763.2	3.3697	3.7096	0.3399	17743.2	17767.2	24.0	1.21	1.22	1.21	1743.5	195.0	183.0	260.0
17-Feb-23	Fine	292.9	765.8	3.3027	3.5737	0.2710	17767.2	17791.2	24.0	1.22	1.21	1.21	1747.5	155.1		
23-Feb-23	Sunny	292.0	765.1	3.3527	3.7957	0.4430	17839.2	17863.2	24.0	1.22	1.21	1.21	1749.0	253.3		
Note:	Bold Italic means A	Action Level exce	edance										Min	130.1		
	Bold Italic with une	derline means l	imit Level exceedance										Max	253.3		
													Average	178.3		

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

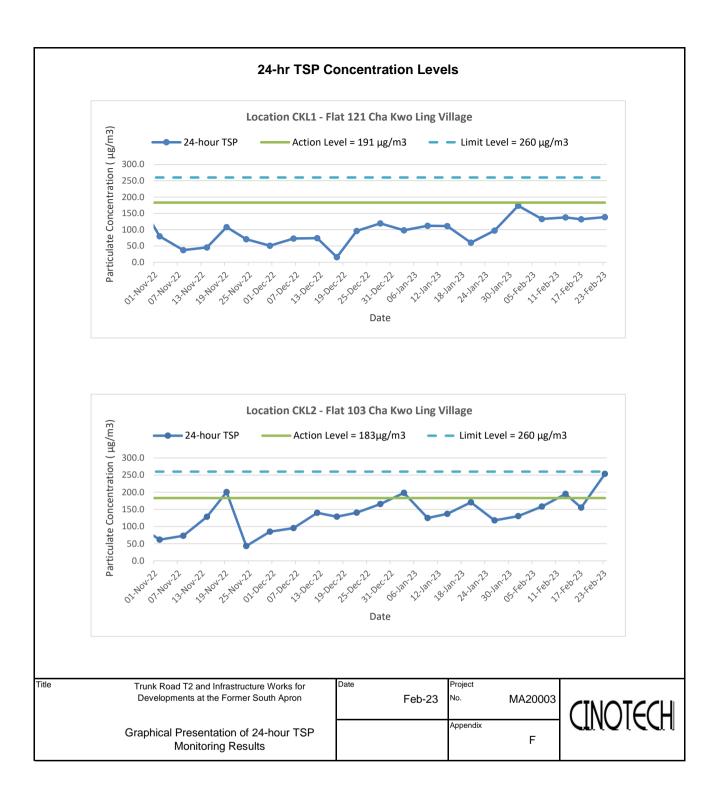
Start Date	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.	Action	Limit Level
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µ g/m3)	(µg/m3)
1-Feb-23	Sunny	292.7	763.7	3.3834	3.4486	0.0653	16955.1	16979.1	24.0	1.21	1.21	1.21	1747.9	37.3		
7-Feb-23	Fine	292.8	763.2	3.3526	3.4038	0.0512	16979.1	17003.1	24.0	1.21	1.22	1.21	1747.1	29.3		
13-Feb-23	Fine	293.4	763.2	3.3717	3.4135	0.0419	17003.1	17027.1	24.0	1.21	1.22	1.21	1745.4	24.0	177.0	260.0
17-Feb-23	Fine	292.9	765.8	3.3831	3.4807	0.0976	17027.1	17051.1	24.0	1.22	1.21	1.21	1749.5	55.8		
23-Feb-23	Sunny	292.0	765.1	3.3306	3.3726	0.0420	17051.1	17075.1	24.0	1.22	1.21	1.22	1750.3	24.0		
Note:	Bold Italic means A	Action Level exce	edance										Min	24.0		
	Bold Italic with une	derline means L	imit Level exceedance										Max	55.8		
													Average	34.1		

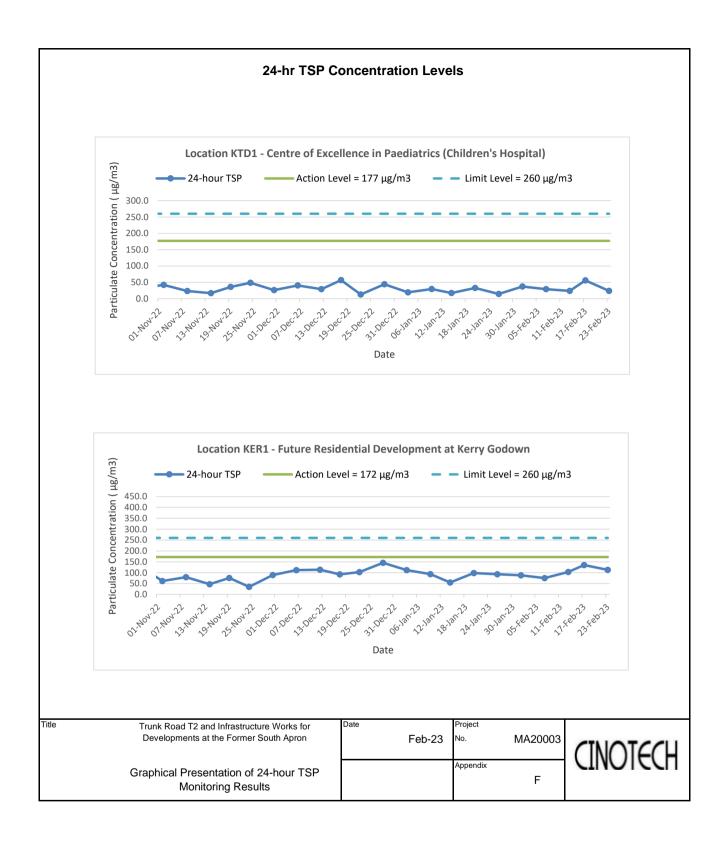
Location KER1 - Future Residential Development at Kerry Godown

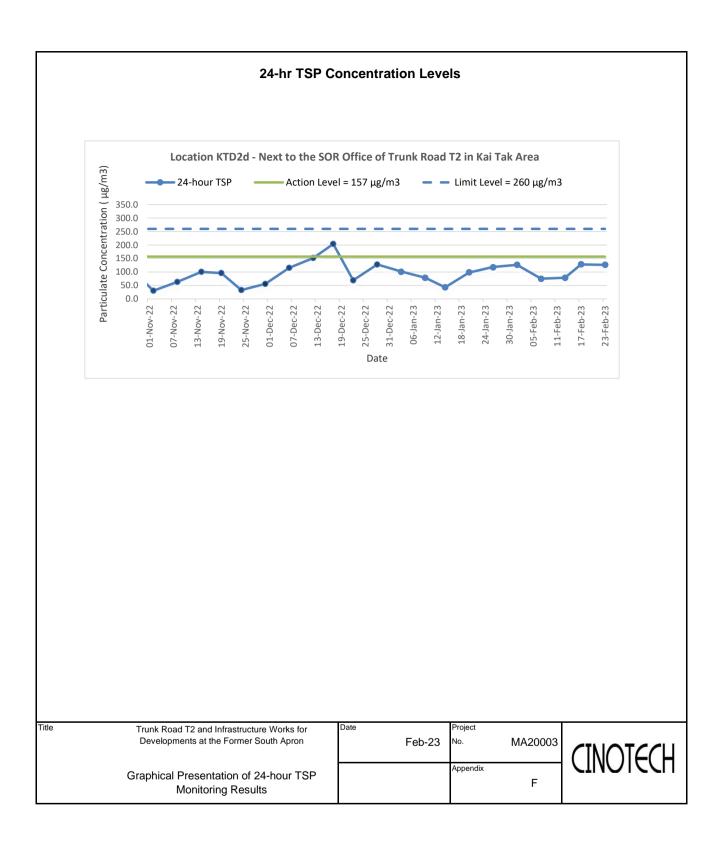
01 / D /	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$	Level (µ g/m3)	Level (µ g/m3)
1-Feb-23	Sunny	292.7	763.7	3.6998	3.8540	0.1542	14735.8	14759.8	24.0	1.21	1.21	1.21	1748.0	88.2		
7-Feb-23	Sunny	292.8	763.2	3.4708	3.6018	0.1310	14759.8	14783.8	24.0	1.21	1.22	1.21	1747.2	75.0		
13-Feb-23	Fine	293.4	763.2	3.5390	3.7197	0.1808	14783.8	14807.8	24.0	1.21	1.22	1.21	1745.6	103.6	172.0	260.0
17-Feb-23	Fine	292.9	765.8	3.3694	3.6060	0.2366	14807.8	14831.8	24.0	1.22	1.21	1.21	1749.5	135.2		
23-Feb-23	Sunny	292.0	765.1	3.3705	3.5681	0.1976	14831.8	14855.8	24.0	1.22	1.21	1.22	1751.0	112.9		
Note:	Bold Italic means A	ction Level exce	edance										Min	75.0		
	Bold Italic with und	<u>ferline</u> means L	imit Level exceedance										Max	135.2		
													Average	103.0		

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 (m³/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)
1-Feb-23	Sunny	292.7	763.7	3.6863	3.9071	0.2207	15377.2	15401.2	24.0	1.21	1.21	1.21	1747.5	126.3		
7-Feb-23	Cloudy	292.8	763.2	3.4708	3.6018	0.1310	15401.2	15425.2	24.0	1.21	1.22	1.21	1746.8	75.0		
13-Feb-23	Fine	293.4	763.2	3.5742	3.7111	0.1370	15425.2	15449.2	24.0	1.21	1.22	1.21	1745.1	78.5	157.0	260.0
17-Feb-23	Fine	292.9	765.8	3.3969	3.6212	0.2242	15449.2	15473.2	24.0	1.22	1.21	1.21	1749.1	128.2		
23-Feb-23	Sunny	292.0	765.1	3.3725	3.5936	0.2211	15473.2	15497.2	24.0	1.22	1.21	1.22	1750.5	126.3		
Note:	Bold Italic means A	Action Level exce	edance										Min	75.0		
	Bold Italic with und	derline means L	imit Level exceedance										Max	128.2		
													Average	106.9		







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

: 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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 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.

- End of report -

Report No.

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

: 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.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 24 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	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	114.1	+0.1	± 1.5

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

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

- End of report -

Report No.

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

: 00288



Issue Date : 10 Nov 2022

Application No. : HP00176 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-03 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001637 : 10 Nov 2022 Date Received Test Period : 10 Nov 2022 to 10 Nov 2022 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 10 Nov 2022

Report No.:00288Application No.:HP00176

<u>Certificate of Calibration</u>

Measuring equipment

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

Test Result

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

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

- End of report -

APPENDIX 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	(A) (30-min)				
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level			
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
2-Feb-23	14:45	Sunny	71.2	73.6	64.5	72.4	71.2 Measured ≦ Baseline		
8-Feb-23	14:44	Cloudy	76.5	80.6	64.5	72.4	74		
14-Feb-23	15:04	Fine	75.1	78.5	62.5	72.4	72		
20-Feb-23	9:00	Sunny	67.5	71.5	55.5	72.4	67.5 Measured \leq Baseline		

Location CKL2 - Flat 103 Cha Kwo Ling Village

				Unit: dB	(A) (30-min)		
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level
Dulo		Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Feb-23	15:35	Sunny	71.1	71.9	65.1	71.4	71.1 Measured ≦ Baseline
8-Feb-23	14:31	Cloudy	72.3	75.3	61.1	71.4	65
14-Feb-23	15:36	Fine	71.7	75.3	58.7	71.4	60
20-Feb-23	16:13	Fine	64.3	65.8	62.3	71.4	64.3 Measured \leq Baseline

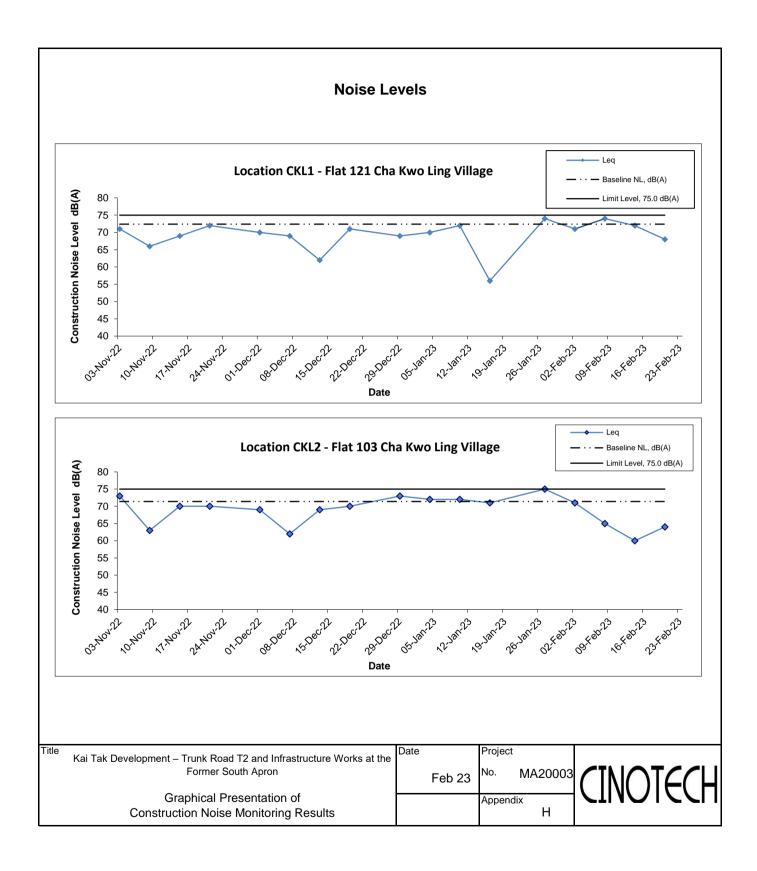
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)

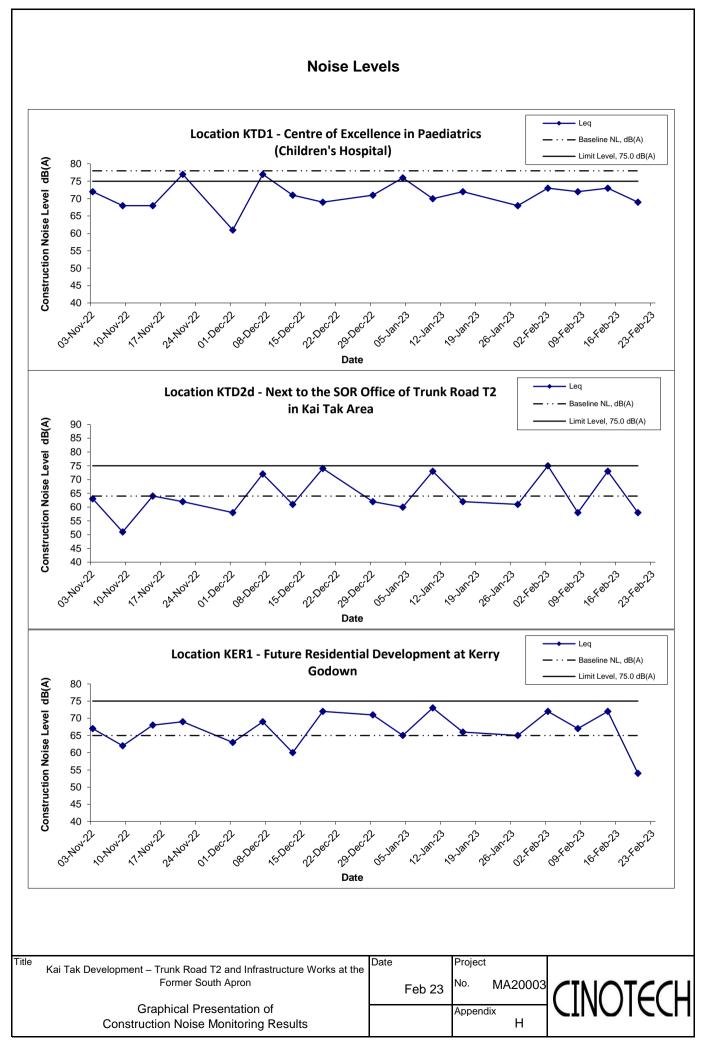
			Unit: dB (A) (30-min)						
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level		
Date	Time	Weather							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
2-Feb-23	13:12	Sunny	73.2	76.7	64.3	78.0	73.2 Measured ≤ Baseline		
8-Feb-23	14:47	Cloudy	71.8	75.6	52.5	78.0	71.8 Measured ≦ Baseline		
14-Feb-23	12:13	Fine	72.8	73.3	70.6	78.0	72.8 Measured ≤ Baseline		
20-Feb-23	17:14	Fine	69.1	70.7	67.0	78.0	69.1 Measured ≦ Baseline		

Location KER1 - Future Residential Development at Kerry Godown

			Unit: dB (A) (30-min)					
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level	
Date	Time	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
2-Feb-23	14:05	Sunny	72.7	76.0	56.9	65.0	72	
8-Feb-23	17:00	Cloudy	69.1	72.2	63.8	65.0	67	
14-Feb-23	13:12	Fine	72.6	74.3	68.7	65.0	72	
20-Feb-23	16:21	Fine	65.3	68.5	59.6	65.0	54	

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 Level			Baseline Level	Construction Noise Level			
Date	Time	Weather								
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
2-Feb-23	11:13	Fine	75.7	79.8	61.1	64.0	75			
8-Feb-23	16:05	Cloudy	65.0	68.2	53.1	64.0	58			
14-Feb-23	13:56	Fine	73.7	75.9	60.3	64.0	73			
20-Feb-23	14:47	Sunny	58.3	60.1	55.4	64.0	58 Measured ≦ Baseline			





APPENDIX I SITE AUDIT SUMMARY

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

Weekly Site Inspection Record Summary Inspection Information Checklist Reference Number 230202

Checklist Reference Number	230202
Date	2 February 2023 (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	
230202- R2	• Spraying water s needed when breaking the concrete.	C15
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
230202- R1		<i>E9</i>
	• Drip Tray should be provided for chemical container to prevent leakage.	
	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.:230126), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Ah	2 February 2023
Checked by	Karina Chan	Julle	3 February 2023

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

Weekly Site Inspection Record Summary Inspection Information Checklist Reference Number 230209 Date 9 February 2023 (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	
230209- R1	• Drip Tray should be provided for chemical container to prevent leakage.	<i>E9</i>
	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.:230202), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Ah	9 February 2023
Checked by	Karina Chan	Julle	10 February 2023

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

Weekly Site Inspection Record Summary Inspection Information

inspection information	
Checklist Reference Number	230216
Date	16 February 2023 (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	
230216- R1	• Stagnant water was observed in the west ventilation building.	B9
	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.:230209), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Ah	16 February 2023
Checked by	Karina Chan	Julle	17 February 2023

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

Weekly Site Inspection Record Summary Inspection Information 230223 Checklist Reference Number 230223 (Thursday) Date 23 February 2023 (Thursday)

Checklist Reference Number	250225
Date	23 February 2023 (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.:230216), all item has been rectified.	

	Name	Signature	Date
Recorded by	Alex NG	Ah	23 February 2023
Checked by	Karina Chan	Julle	24 February 2023

Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

Site Inspection Record Summary Inspection Information

inspection into mation	
Checklist Reference Number	230217
Date	17 February 2023 (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.:230113), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	Alex Ng	Ali	17 February 2023
Checked by	Karina Chan	Zelle	18 February 2023

APPENDIX J EVENT AND ACTION PLANS

.		Construction Dust Monitor Ac	tion	
Event	ET	IEC	ER	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		Α	ction	
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		struction Noise Monitoring		
Event		Act	tion	
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		Act	tion	
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	Implementation Stages		n 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 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;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		Λ
	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 3-sided barriers around the stockpiling areas WA3 and WA4.								N/A(1)
S2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice: Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		*
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs; 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;								٨
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	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;								^
	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;								٨
	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 Relevant Standard Implementation Stage Agent or Requirement Implementation Stage		Implementation Stages		Status	
						D	C	0	
Noise Impact							1	<u> </u>	
\$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 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		٨
\$3.4.1.1	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- contractors	NCO / EIAO		Y		٨
\$3.4.1.1	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.		All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		٨
\$3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.		All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
	Mobile plant, if any, should be sited as far from NSRs as possible;								۸
	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;								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		Status	
						D	C	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.								۸
	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		*
	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	Implementation Stages		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 0.1 m^3 /s, a sedimentation basin of 30m ³ would be required and for a flow rate of 0.5 m^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;								^

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	
	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;								٨
	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers;								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;								^
	Opione roads and dama's of the 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								^
	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		Implementation Agent	Relevant Standard or Requirement	• 0			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 all	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;							-	N/A
	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
	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	Implementation 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	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed;	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		٨
	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 or 20% by volume stored in the area and enclosed with at least 3 sides;								^ N/A(1)
	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);								٨
	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	. 0		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 disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be 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)
	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		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 generated by turbulence from vessel movement or propeller wash;								
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								٨
	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
	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		۸

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	
\$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 or spillage during storage, handling and transport;	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		^
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								N/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	Implementation Agent	Relevant Standard or Requirement	I Implementation Stage		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
Martin Factore	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 S5.3.1.1	Good construction practice measures have been recommended to be implemented	Minimizer encode	Contractor	Work Sites	Construction along of	1	Y		N/A(1)
55.5.1.1	Avoid damage and disturbance to the remaining and surrounding natural habitat;	generation during construction	Contractor	work Siles	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									
\$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							<u> </u>	
\$7.2.1.2	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
\$7.2.1.2	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		^
\$7.2.1.2	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		۸
\$7.2.1.2	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		^
\$7.2.1.2	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		^
S7.2.1.2	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	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	Implementation Stages D C		ent	
						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)		
\$7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed 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		
	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	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										
\$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			n Stages	Status
						D	С	0	
Waste Managem	nent Implication								
\$9.2.1.2	Management on Construction Sites and the other relevant guidelines should be	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			n 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	All areas / throughout construction period	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	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	1 0			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)
\$9.2.1.2	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		۸
\$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
\$9.2.1.2	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
\$9.2.1.2	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	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		ht		n Stages	Status
						D	С	0			
	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	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)		
\$9.2.1.2	1 66 1	materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^		
\$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	0	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	Implementation Stages		n Stages	Status
						D	С	0	
S9.2.1.2	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.	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		A
\$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		٨

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	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	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	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		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
\$9.2.1.2	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	large to warrant collection. Participation in a local collection scheme by the future	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	Objectives of the Recommended Measures & Main Concern to Address	Recommended Measures & Main	Implementation Agent		Implementation 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									
C	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

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

Reporting Month: February 2023

Log Ref.	Location	Received Date	Details of Complaint/war ning/summon and prosecution	Investigation/Mitigation Action	Status
#N10	Launching Shaft and Barging Point	28 February 2023	A Complaint of Noise Nuisance caused by the nighttime construction activities was received.	 Conduct regular maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines. Review the construction schedule. Priorities the work sequence. 	Closed

Remarks:

One (1) environmental complaint was received in the reporting period, No warning/summon and prosecution were received in the reporting period.

APPENDIX M SUMMARY OF EXCEEDANCE

Appendix M – Summary of Exceedance

Reporting Month: February 2023

(A) Exceedance Report for Air Quality

Two (2) 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
CKL2	13 February 2023	195.0	Action Level
CKL2	23 February 2023	253.3	Action Level

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

One (1) 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. 230213_24hrTSP (CKL2) Exceedance Level: Action

Date of Air Quality Monitoring: 13 February 2023

Part A – Exceedance Summary Tables

Table I:Parameter(s) – 24-hour TSP

Station	Location	Starting Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
CKL2	Flat 103 Cha Kwo Ling Village	09:00	Sunny	195.0	183.0	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 CKL2 on 13 February 2023 exceeded the action level.
(1.)	Course of avanadaman(a)

(b) Cause of exceedance(s)

According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at CKL2 is/are as follow:

- 1. Fluctuation of road traffic along the Cha Kwo Ling Road, a numerous of dump trucks and concrete mixer lorries passed by and raise the dust to the surrounding (Photo 1 & 2).
- 2. Steel work was performed at Portion Q (near CKL2), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

- Notification of Exceedances



- 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 CKL2 on 13 February 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that 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.
- 7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

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.
- 3. A remeasurement was carried out on 20 February 2023, a limit level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. $(\mu g/m^3)$	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
CKL2	Flat 103 Cha Kwo Ling Village	0900 (20 Feb 2023) – 0900 (21 Feb 2023)	Sunny	<u>331.6</u>	173.0	260.0	Limit

- Notification of Exceedances

NOE No. 230223_24hrTSP (CKL2) Exceedance Level: Action

Date of Air Quality Monitoring: 23 February 2023

Part A – Exceedance Summary Tables

Table I:Parameter(s) – 24-hour TSP

Station	Location	Starting Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
CKL2	Flat 103 Cha Kwo Ling Village	09:00	Sunny	253.3	183.0	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

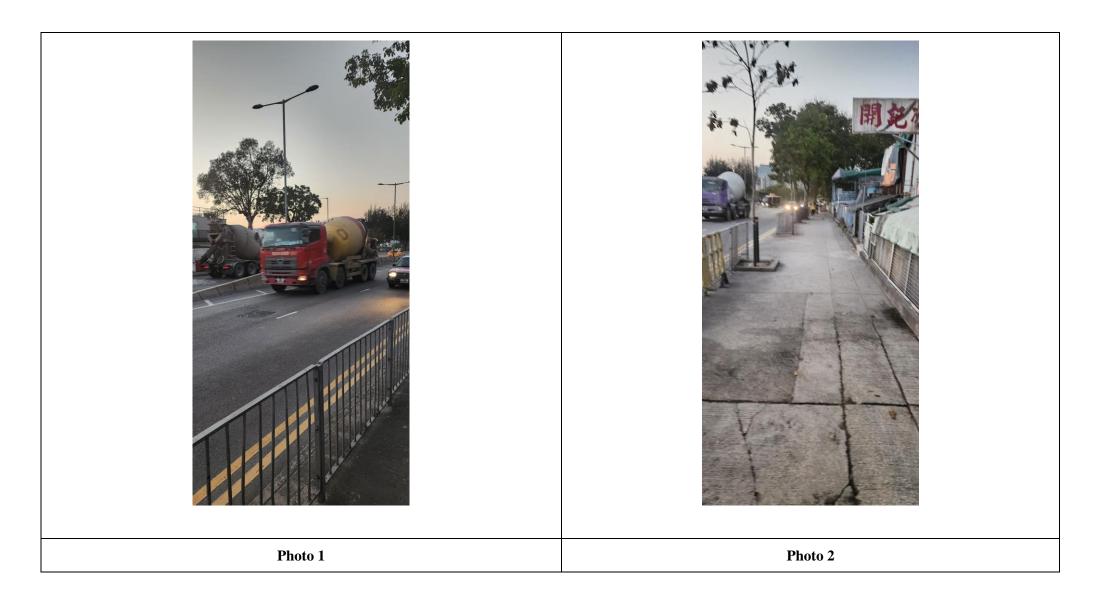
Field Observation(s) and Finding(s)

(a)	Statement of exceedance(s)	
	24-hour TSP monitoring measured at CKL2 on 23 February 2023 exceeded the action level.	
(b)	Cause of exceedance(s)	
	According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at CKL2 is/are as	
	follow:	
	1 Eluctuation of road traffic along the Cha Kwo Ling Road a numerous of dump trucks and concrete mixer lorrise passed by and raise the dust to the surrounding	

- 1. Fluctuation of road traffic along the Cha Kwo Ling Road, a numerous of dump trucks and concrete mixer lorries passed by and raise the dust to the surrounding (Photo 1 & 2).
- 2. Steel work was performed at Portion Q (near CKL2), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

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

- Notification of Exceedances



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

- 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 CKL2 on 23 February 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

Part D – Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that 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.
- 7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

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.
- 3. A remeasurement was carried out on 28 February 2023, a limit level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded	
CKL2	Flat 103 Cha Kwo Ling Village	0900 (28 Feb 2023) – 0900 (1 Mar 2023)	Sunny	<u>278.5</u>	173.0	260.0	Limit	

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

ctivity Name	Dur	Start	Finish	2022											2)23						
					Decem 11			nuary 15 22	29	05	Februa		26 05	March 12	19 26		April 16 23	3 30 0	May)7 14	21 28	3 04	June 11 18 2
ED/2018/04 - Trunk Road T2 Feb-23	1114	30-Dec-20 A	01-Apr-25																			
COMMENCEMENT & SITE POSSESSION DATE	153	03-Oct-22 A	31-Mar-23													+						
SITE POSSESSION DATE	_	03-Oct-22 A	31-Mar-23																			
SOUTH APRON WEST AREA	153	03-Oct-22 A	31-Mar-23																			
Portion H2 Possession 01 January 2022 or as directed by SO	0	03-00F22 A		lanuary 2022 or as directed by SO								- + +										·
Portion K Possession 31 March 2023 or as directed by SO	0		31-Mar-23*				 									Portion K	Possession 3	1 March 202	3 or as dire	ected by SC)	
CHA KWO LING AREA	0	28-Feb-23	28-Feb-23				 															
Portion S Possession 30 November 2021 or as directed by SO	0	2010020	28-Feb-23*										♦ Portion S	Possess	ion 30 No	vember 202	or as directed	d by SO				
Portion T2 & T3 Possession 31 March 2020 or as directed by SO	0		28-Feb-23									- + +				11 1)20 or as direc	P 1				
Portion U Possession 30 November 2021 or as directed by SO	0		28-Feb-23*				·										1 or as directe					
Portion V Possession 30 November 2021 or as directed by SO	0		28-Feb-23*						- - -			· • • •	Portion V	Possess	ion 30 No	vember 202	or as directed	d by SO				
Portion AB Possession 01 June 2022 or as directed by SO	0		28-Feb-23*				() 						Portion A	B Posses	sion 01 J	une 2022 or	as directed by	SO				
CONTRACT KEY DATE & SITE HANDOVER DATE	126	13-Aug-22 A	09-Jun-23				- 															
SITE HANDOVER DATE	73	27-Jan-23 A	31-Mar-23									- + + +				+						
SOUTH APRON WEST AREA	73	27-Jan-23 A	31-Mar-23				{ 					- + +			·	+						
Portion A1 Handover 01 June 2022 or as directed by SO	0		27-Jan-23 A					•	Port	ion A1 F	landov	er 01 Ju	e 2022 or as	directed	by SO	+						
Portion C2 Handover DOC + 796 Cd or as directed by SO	0		28-Feb-23*													796 Cd or a	s directed by	SO				
Portion D1 Handover DOC + 796 Cd or as directed by SO	0		28-Feb-23*				(/					- i i				1	s directed by		·;			
Portion D3 Handover DOC + 796 Cd or as directed by SO	0		28-Feb-23*				··					- <u>+</u> <u>+</u> 	Portion D	3 Han do	ver DOC +	796 Cd or a	s directed by	SØ				
Portion F3 Handover DOC + 1099 Cd or as directed by SO	0		28-Feb-23*				1]			- 				+	as directed by		· · · · · · · · · · · · · · · · · · ·			
Portion F4 Handover 01 June 2022 or as directed by SO	0		28-Feb-23*									· · · · ·					directed by S			· · · · · · · · · · · · · · · · · · ·		
Portion H2 Handover DOC + 1099 Cd or as directed by SO	0		28-Feb-23*										Portion H2	2 Hando	ver DOC +	1099 Cd or	as directed by	/ SØ				
Portion I Handover 30 November 2022 or as directed by SO	0		28-Feb-23													+	r as directed b					
Portion J1 Handover 03 June 2022 or as directed by SO	0		28-Feb-23*									-++				+	directed by S					
Portion J2 Handover 03 June 2022 or as directed by SO	0		28-Feb-23*													+	directed by S	0				
Portion H1 Handover (subject to coordination)	0		28-Feb-23										Portion H ²	1 Hando		+						
Portion C1 Handover 31 March 2023 or as directed by SO	0		31-Mar-23*				¦									1	1 Handover 31		'			·
Portion C3 Handover 31 March 2023 or as directed by SO	0		31-Mar-23*			·	 						+			+	3 Handover 31					·
Portion C4 Handover 31 March 2023 or as directed by SO	0		31-Mar-23*														4 Handover 31	I March 2023	or as dire	ected by SO		
SOUTH APRON EAST AREA	0	28-Feb-23	28-Feb-23									- -										
Portion W Handover DOC + 704 Cd or as directed by SO	0	00 5 1 00	28-Feb-23*				; {{					- - +	Portion W +	Handov	er DOC +	/104 Cd or a	s directed by S	50¦				
KEY DATE - TRUNK ROAD T2	81	28-Feb-23	09-Jun-23				¦									 						·
CONTRACT COMPLETION DATES	38	28-Feb-23	18-Apr-23				¦					- 										
KD-2 Stage 1B - Depressed Road & South Apron Adit for J1/J2 H/O [DOC+1072cd]	0		28-Feb-23*				 									+	th Apron Adit					
KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707cd]	0		28-Feb-23*									- 					& LS for TBM					
KD-6 Stage 3B1 - Civil provision between AGR to SUS Tunnel for TCSS	0		28-Feb-23*									- + +				+	n AGR to SUS					·
KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0		09-Mar-23*												_.	+	al for Stage 3					
KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0		09-Mar-23*										· · · · · · · · · · · · · · · · · · ·	ND-7 31a	ge 4A - D		al for Stage 4			A dit botwoo		DPR for I H/Q [[
KD-9 Stage 5 - South Apron Adit between WVB & DPR for I H/O [DOC+1252cd] PLANNED COMPLETION DATES	102	28-Feb-23	18-Apr-23* 09-Jun-23														▼ KD-9 €	Slaye 5 - 50				
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KD-1 Stage 1A - Design Approval for Stage 1B [DOC+464cd] KD-3 Stage 2A - Design Approval for Stage 2B [DOC+405cd]	0		28-Feb-23*									- + + +			7)	+	ige 1B [DOC+ ige 2B [DOC+	· [-] [[
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KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+704cd]	0		28-Feb-23*				 						+			+	R Landscape			d1		
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Page 4 of 30 Data Date: 28-Feb-23 Milestone
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Feb-23)

BOUYGUES TRAVAUX PUBLICS

	Date	Revision	Checked	Approved
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	22-Feb-20	01V0	SPa/LLo	W Yu
	09-Apr-20	01V1	SPa/LLo	WYu
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Three Months Rolling Programme (Feb-23)

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AIP - Draft - Preparation by Designer	22	17-Oct-22 A	10-Nov-22 A		AIP - Dra	aft - Prep	aration b	yDesigner																		
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AIP - SO Consent for DDA Submission	0		03-Apr-23																♦ AIP - S	SO Consent fo	or DDA Su	lomission				
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DDA - Draft - Preparation by Designer	33	04-Apr-23*	17-May-23																	·			DDA - D	raft - Pre	epara¦tion b	y Desigr
DDA - Draft - Final Review and prepare for 1st Sub	24	18-May-23	15-Jun-23		 						,					· · · · · · · · · · · · · · · · · · ·			 	· · · · · · · · · · · · · · · · · · ·						DDA -
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1.1 Preliminaries and General Requirements	202	13-Jun-22 A	13-May-23				†							 	· 	$-\frac{1}{1}$ $-\frac{1}{1}$ $\frac{1}{1}$			+							
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2.1 Geotechnical Instrumentation and Monitoring Works	0	28-Feb-23	28-Feb-23				+							+								····
2.1.5 Submit Monitoring report	0		28-Feb-23*				+						🔶 2.1 .5 Su	ubmit Monitoring	a report				}}-			
2.1.6 Approval Monitoring report	0		28-Feb-23*		·····		+							proval Monitori		 rt						
2.1.7 Complete whole activities of this cost centre	0		28-Feb-23*				+							mplete whole a			costicentr	re				
3.1 for Trunk Road T2	142	13-Aug-22 A		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·		+															
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3.1 .51 Submit DDA for completion of SUS 3.1 .52 Approval DDA for completion of SUS	0		13-Aug-22 A		·····																	
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3.1.53 Submit AIP for remaining works	0		28-Feb-23				<u>-</u>							pproval AIP for r								
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3.1.55 Submit DDA for remaining works	0		28-Feb-23	· · · ·	····									ubmit DDA for					}}-			
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3.1.57 Complete whole activities of this cost centre	0		28-Feb-23		·····-								• 3.1 .57 C	omplete whole	activitie	softhis	cost cen	itre				
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (Southe	172	13-Jul-22 A	28-Feb-23											ļļ								
3.3 .8 Approval DDA for roadworks	0		13-Jul-22 A					ļ						 					ļ			
3.3 .4 Approval Design memorandum	0		28-Feb-23											proval Design r								
3.3 .6 Approval AIP for roadworks	0		28-Feb-23											proval AIP for r								
3.3 .7 Submit DDA for roadworks	0		28-Feb-23											bmit DDA for r								
3.3 .24 Approval DDA for landscape works	0		28-Feb-23					· · · · · · · · · · · · · · · · · · ·						pproval DDA fo	+							
3.3 .25 Complete activity of this cost centre	0		28-Feb-23										🔶 3.3 .25 C	complete activity	y of this	cost cer	ntre					
3.5 for Lam Chak Street and Kai Hing Road	172	13-Jul-22 A	28-Feb-23																			
3.5 .7 Submit DDA for roadworks	0		13-Jul-22 A]						l.							
3.5.11 Submit DDA for stormwater drainage works	0		13-Jul-22 A							-												
3.5 .8 Approval DDA for roadworks	0		13-Sep-22 A																			
3.5 .12 Approval DDA for storm water drain age works	0		13-Sep-22 A	e works		·		 														
3.5 .15 Submit DDA for waterworks	0		13-Sep-22 A											· · · · ·								
3.5 .19 Submit DDA for sewage works	0		13-Sep-22 A																			
3.5 .20 Approval DDA for sewage works	0		13-Sep-22 A					 						· · · · · · · · · · · · · · · · · · ·								
3.5.23 Submit DDA for landscape works	0		13-Sep-22 A		· · · · · · · · ·														;;- ;			
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3.5.25 Complete whole activities of this cost centre	0		13-Jan-23 A	[†			;-	♦ 3.5 .25 Com	nplete whole activities of this co	st centre						[j			
3.5 .16 Approval DDA for waterworks	0		28-Feb-23				+			'-			🔶 3.5 .16 A	pproval DDA to	or waterv	works			- 			
3.6 for Road L10 (Northern Section)	62	18-Nov-22 A	13-Jan-23 A				†															
3.6.8 Approval DDA for Road L10 (northern section)	0		18-Nov-22 A		♦ 3	.6 .8 App	roval DDA	for Road	L10 (northe	ern secti	ion)			·								
3.6 .9 Complete whole activities of this cost centre	0		13-Jan-23 A									nplete whole activities of this co	st centre	+								
3.9 for the Pipelines for District Cooling System for Commissioning of	0	13-Sep-22 A	28-Feb-23		· · · · · · · ·	· ·	+							· · · · · · · · · · · · · · · · · · ·								
3.9.11 Submit O&M manual for DCS pipelines	0	10 00p 22 A	13-Sep-22 A		· · · · · · · · ·			 				·		·····		!				!		
3.9.11 Submit O&M manual for DCS pipelines 3.9.12 Approval O&M manual for DCS pipelines	0		13-Sep-22 A 28-Feb-23	[·				3 0 12 Arr	pproval:O&M m	nanualifo	י פיירו זי	inelines					
3.9.12 Approval Oxivi manual for DCS pipelines 3.9.13 Complete whole activities of this cost centre	0		28-Feb-23 28-Feb-23										· <mark>- </mark>	omplete whole				! !				
3.10 Remaining Pipelines for District Cooling System Other Than for C	0	28-Feb-23	28-Feb-23 28-Feb-23		· · · · · · · ·								- 0.9.13 00		activities							
	0	20-F6D-23						 														· · · · · · · · · · · · · · · · · · ·
3.10.11 Submit O&M manual for remaining DCS pipelines	0		28-Feb-23		· · · · · · · · · ·									Submit O&M m					'	 		
3.10.12 Approval O&M manual for remaining DCS pipelines	0		28-Feb-23		1	1							• 3.10.12 A	Approval O&M	manual f	tor rema	Ining DC	Spipelin	les			
Access 7 of 20																		Date		Revision	Checked	Approve
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ata Date: 28-Feb-23		ED/20	U18/04	l rui	nk F	коа		2 an	d Int	Iras	structur	e Works 🖊						eb-20	01V		SPa/LLo	WYu
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Actual Work			10	י חפי	VEIC	μΠ		o al	Soul		Apron		TRA	VAUX PUB	LICS			ul-20	010		SPa/LLo	WYu
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Three Months Rolling Programme (Feb-23)

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09-Oct-20 02-Jul-21

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02V0

		Start	Finish		Novem	nber		December		January		February		Marc	h		Apri				May			June	
				30 (06 13	3 20	27	04 11 18	25	01 08 15	22 29 0	5 12 1		05 12		6 02	09	16 23	30	07	14	21 2	28 04	11	18
3.10.13 Complete whole activities of this cost centre	0		28-Feb-23										🔶 3.10.1	13 Comple	ete whole a	ctivities o	f this cost	centre							
3.14 for Common Utilities Enclosure (CUE) under Section 13 and Ancill	0	13-Jan-23 A	13-Jan-23 A																				_		
3.14.8 Approval DDA for CUE	0		13-Jan-23 A							♦ 3.14	8 Approval DDA fo	rCUE													
4.1 South Apr on Adits from Interface with the Depressed Road to the Ir	72	11-Mar-23	09-Jun-23																						
4.1.1 Complete mobilization of excavation equipment 0.5	0		11-Mar-23]					4 .1.1	Complete	mobiliza	tion of exc	avation eo	quipment	0.5					
4.1.3 Complete excavation of South Apron Adist 0.2	0		25-Mar-23												♦ 4.	1.3 Com	olete exca	vation of S	South Apr	on Adi	st 0.2				
4.1.4 Complete excavation of South Apron Adist 0.4	0		28-Mar-23												•	4 1.4 Co	omplete ex	cavation o	of South /	Apron /	Adist 0.4				
4.1.8 Complete South Apron Adist permanent structure 0.2	0		29-Mar-23]						•	• 4.1.8 C	amplete S	South Apro	n Adist p	erman	ent struc	ture 0.2			
4.1.5 Complete excavation of South Apron Adist 0.6	0		30-Mar-23													♦ 4.1.5	Complete	excavatio	n þf Sout	h Apro	n Adist (.6			
4.1.6 Complete excavation of South Apron Adist 0.8	0		01-Apr-23													🔶 4.1.	6 Complet	e excavat	ion of So	uth Ap	on Adist	. 0.8			
4.1.7 Complete excavation of South Apron Adist 1	0		03-Apr-23													♦ 4	1.7 Comp	lete excav	ation of \$	South A	pron Ac	ist 1			
4.1.9 Complete South Apron Adist permanent structure 0.4	0		17-Apr-23														•	• 4.1.9 Co	mplete S	outh A	pron Ad	st perm:	anent struc	cture 0.4	
4.1.13 Complete backfill at South Apron Adist 0.2	0		22-Apr-23							1 1								🔶 4.1	.13 Com	olete ba	ackfill at	South A	pron Adist	t 0.2	
4.1.10 Complete South Apron Adist permanent structure 0.6	0		02-May-23																♦ 4.	1.10 C	pmplete	South Ar	pron Adist	t permanen	nt struc
4.1.14 Complete backfill at South Apron Adist 0.4	0		05-May-23																•	4.1.14	Comple	te backf	ill at South	h Apron Ad	dist 0.4
4.1.11 Complete South Apron Adist permanent structure 0.8	0		16-May-23										· :								• 4.1	11 Com	plete Sout	th Apron A	Adist pe
4.1.15 Complete backfill at South Apron Adist 0.6	0		17-May-23																!- !		• 4.1	.15 Con	nplete bac	ckfill at Sou	uth Apr
4.1.16 Complete backfill at South Apron Adist 0.8	0		30-May-23										· ; - <mark>+ </mark> ;		· · · · · · · · · · · · · · · · · · ·							•	4.1.16 C	Complete b	backfill
4.1.12 Complete South Apron Adist permanent structure 1	0		30-May-23			 		· - la			44			±				·	- -			•••••	4.1.12 0	Complete S	South /
4.1.17 Complete backfill at South Apron Adist 1	0		09-Jun-23											+										♦ 4.1.17 C	Comple
4.1.18 Complete whole activities of this cost centre 1	0		09-Jun-23																				•	♦ 4.1.18 C	Comple
4.2 Depressed Road and Remaining Ventilation Adits at the South Apro	0	28-Feb-23	28-Feb-23										+		· · · · · · · · · · · · · · · · · · ·										
4.2 .23 Complete foundation of Depressed Road by length 1	0		28-Feb-23*					· -					♦ 4.2.2	3 C'omple	te foundatio	on of Der	oressed Ro	ad by len	ath 1						
4.2.31 Complete permanent structure of Depressed Road by length 1	0		28-Feb-23*	·											te permane					nath 1					
4.2.32 Complete whole activities of this cost centre 1	0		28-Feb-23	·											te whole ac					.9					
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	Tunnel	by long	 th 1									·										
5.1 .30 Complete internal wall of Cut-and-cover Tunnel by length 0.3	0		18-Nov-22 A				30 Com	plete internal wall o	f.Cut and	cover Tunneli by lev	ath 0.3														
5.1.28 Complete internal wall of Cut-and-cover Tunnel by length 0.3	0		18-Nov-22 A					nplete internal wall o																	
5.1.29 Complete internal wall of Cut-and-cover Tunnel by length 0.2	0		18-Nov-22 A					nplete internal wall o							·										
5.1.31 Complete internal wall of Cut-and-cover Tunnel by length 0.2	0		18-Nov-22 A	<u>.</u>				nplete internal wall o																	
5.1.32 Complete internal wall of Cut-and-cover Tunnel by length 0.5	0		18-Nov-22 A				+-	nplete internal wall o			i i				·										
5.1.33 Complete internal wall of Cut-and-cover Tunnel by length 0.5	0		13-Dec-22 A			• J.1	.52.00			e internal wall of Cu	4	by longth 0.6													
5.1.34 Complete internal wall of Cut-and-cover Tunnel by length 0.5	0		13-Dec-22 A							e internal wall of Cu					÷		- -	· ·							
5.1.35 Complete internal wall of Cut-and-cover Tunnel by length 0.8	0		13-Dec-22 A	·						e internal wall of Cu	4				·										
5.1.36 Complete internal wall of Cut-and-cover Tunnel by length 0.9	0		13-Dec-22 A							e internal wall of Cu			i												
5.1.37 Complete internal wall of Cut-and-cover Tunnel by length 1	0		13-Dec-22 A							e internal wall of Cu	44														
5.2 Completion of SUS	164	13-Dec-22 A	28-Jun-23					▼ 5.1.57							· · · · · · · · · · · · · · · · · · ·										
•	104	IS-DEG-ZZ A													·										
5.2.5 Complete overhead ventilation duct slab by length 0.1	0		13-Dec-22 A					▼ 5.2.5 (ompiete	overhead ventilation		+						·	-						
5.2.6 Complete overhead ventilation duct slab by length 0.2	0		13-Jan-23 A							◆ 5.2.0	6 Complete overhe	4 4													
5.2.7 Complete overhead ventilation duct slab by length 0.3	0		13-Feb-23 A		·						·····	♥ 5.2./	Complete ove												
5.2.8 Complete overhead ventilation duct slab by length 0.4	0		28-Feb-23												e overhead	+			;-] ;						
5.2.9 Complete overhead ventilation duct slab by length 0.5	0		28-Feb-23												e overhead				10.5						
5.2.25 Complete remaining works in SUS by length 0.1	0		28-Feb-23										+		te remainin										
5.2 .26 Complete remaining works in SUS by length 0.2	0		28-Feb-23	·									· + - - +		te remainin										
5.2 .27 Complete remaining works in SUS by length 0.3	0		28-Feb-23					· · · · · · · · · · · · · · · · · · ·			·				te remainin				; 						
5.2 .28 Complete remaining works in SUS by length 0.4	0		28-Feb-23	ļ											te remainin										
5.2 .29 Complete remaining works in SUS by length 0.5	0		28-Feb-23	·									• 5.2.2	9 Comple	te remainin	g works i	n SUS by	length 0.5) !						
5.2 .15 Complete Thermal barrier by length 0.1	0		28-Jun-23														-+								
6.2 TBM Tunnel	273	13-Jun-22 A	10-Jun-23																						
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																						
0.2.2.1 Complete TBM Turner waterproving 0.1	•							alson and the second		de e e e e e e e e e e e					h a h		- h		a a la	·					

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

Three Months Rolling Programme (Feb-23)

	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
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BOUYGUES	09-Apr-20	01V1	SPa/LLo	W Yu
TRAVAUX PUBLICS	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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6.2 .4 Complete excavation & installation of TBM Tunnel lining by length 0.2	0		13-Sep-22 A		-													T				1
6.2 .5 Complete excavation & installation of TBM Tunnel lining by length 0.25	0		13-Sep-22 A	BM Tunnel	l lining b	y length 0.	25					!! ! !										-
6.2 .22 Complete TBM Tunnel waterproofing 0.2	0		13-Sep-22 A	0.2																		-
6.2 .6 Complete excavation & installation of TBM Tunnel lining by length 0.3	0		13-Oct-22 A	excavation	n & insta	llation of T	₫вм	Tunnel lir	ing by lei	ngth 0.3	3	 										-
6.2 .7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		13-Oct-22 A	excavation	n & insta	llation of T	ТВМ	Tunnel lir	ing by le	ngth 0.3	5											-
6.2.23 Complete TBM Tunnel waterproofing 0.3	0		13-Oct-22 A	e TBM Tur	nnel wate	erproofing	0.3										- + +					-
6.2.8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		18-Nov-22 A				1 1-		ion & ins	tallation	of TBN	/I Tunnel li	ning b	y lengt	th 0.4							-
6.2.24 Complete TBM Tunnel waterproofing 0.4	0		18-Nov-22 A				+ i-	lete TBM					· • ·				-++		-++			-
6.2.9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0		13-Dec-22 A				1-5					!	tallatio	n of TE	3M Ti	unnel lining	by length	0.45	· · · · · · · · · · · · · · · · · · ·			-
6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5	0		13-Dec-22 A				+					1				Funnel linin		• - <mark>-</mark>	- + +			1
6.2.25 Complete TBM Tunnel waterproofing 0.5	0		13-Dec-22 A		·;;		$\uparrow \uparrow \uparrow$					Tunnelwa							-+			-
6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55	0		13-Jan-23 A		· · · · · · · · · · ·		+									cavation &	installatio	on of	TBM Tunnel li	nina b	v lenc	r.
6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6	0		13-Jan-23 A				+												TBM Tunnel li			-
6.2 .26 Complete TBM Tunnel waterproofing 0.6	0		13-Jan-23 A				$\uparrow \neg \dot{\uparrow}$					'				3M Tunnel v						2
6.2.31 Complete TBM Tunnel overhead ventilation duct slab 0.1	0		28-Feb-23				+											• - -	6.2 .31 Compl	_¦ ⊳ť⊳ TR	M: Tur	r
6.2 .31 Complete TBM Tunnel overhead ventilation duct slab 0.1 6.2 .32 Complete TBM Tunnel overhead ventilation duct slab 0.2	0		28-Feb-23	+			+								+		- + + +		6.2.32 Compl			-
	0		28-Feb-23 28-Feb-23									 						۰ <u>- </u>	6.2 .41 Compl			-
6.2.41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1			28-Feb-23 16-Mar-23									. 					-++			6.2.1		
6.2.13 Complete excavation & installation of TBM Tunnel lining by length 0.65	0				·		$\left\{ \cdot, \cdot \right\}$								·							
6.2.42 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.2	0		21-Mar-23				+														6.2.4	-
6.2 .14 Complete excavation & installation of TBM Tunnel lining by length 0.7	0		27-Mar-23				+										+				•	-
6.2 .27 Complete TBM Tunnel waterproofing 0.7	0		27-Mar-23		· · · · · · · · ·		+														•	-
6.2.33 Complete TBM Tunnel overhead ventilation duct slab 0.3	0		28-Mar-23																		•	-
6.2 .15 Complete excavation & installation of TBM Tunnel lining by length 0.75	0		18-Apr-23																			
6.2 .43 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.3	0		04-May-23									 					-++					
6.2 .34 Complete TBM Tunnel overhead ventilation duct slab 0.4	0		12-May-23		·		ļ										-++					_
6.2 .16 Complete excavation & installation of TBM Tunnel lining by length 0.8	0		16-May-23				ļ.					i i I I I I I I I I I I I I I I I I I I										-
6.2 .28 Complete TBM Tunnel waterproofing 0.8	0		16-May-23							¦							-++		-++			-
6.2 .17 Complete excavation & installation of TBM Tunnel lining by length 0.85	0		10-Jun-23							J									· · · · · · · · · · · · · · · · · · ·			_
6.3 Cross Passages for TBM Tunnel	101	13-Jan-23 A	22-May-23							-												
6.3.4 Complete Ground treatment for all Cross Passages 0.1	0		13-Jan-23 A							}		♦ 6.	3 .4 Co	omplet	e Gro	und treatm	ent for all	Cros	s Passages	J.¦1		-
6.3 .5 Complete Ground treatment for all Cross Passages 0.2	0		13-Jan-23 A						1			♦ 6.	3 .5 Co	omplet	e Gro	und treatm	ent for all	Cros	s Passages	J.2		
6.3 .6 Complete Ground treatment for all Cross Passages 0.3	0		13-Feb-23 A							}						♦ 6	6.3 .6 Cor	mplet	e Ground trea	tment '	or all	1
6.3 .14 Complete excavation and support of Cross Passages 0.1	0		13-Feb-23 A									!! ! !				♦ 6	5.3 .14 C¢	pmple	etę excavation	and si	ippor	t
6.3 .7 Complete Ground treatment for all Cross Passages 0.4	0		28-Feb-23											1				•	6.3 .7 Comple	te Groi	ın'd tr	e
6.3 .15 Complete excavation and support of Cross Passages 0.2	0		28-Feb-23	T														•	6.3 .15 Compl	ete exc	avati	
6.3 .16 Complete excavation and support of Cross Passages 0.3	0		28-Feb-23	1			1					 						•	6.3 .16 Compl	ete exc	avati	
6.3 .17 Complete excavation and support of Cross Passages 0.4	0		09-Mar-23	+			1	·		-i							- + + + + + + + + + + + + + + +		♦ 6.3.1			-
6.3.8 Complete Ground treatment for all Cross Passages 0.5	0		14-Mar-23				1					 							- + +	6.3.80		
6.3 .18 Complete excavation and support of Cross Passages 0.5	0		17-Apr-23	····			+					 					- + +		-++			-
6.3.9 Complete Ground treatment for all Cross Passages 0.6	0		27-Apr-23				† <u> </u> -										- + + +		- 1 1			-
6.3.24 Complete structural works of Cross Passages 0.1	0		28-Apr-23	····			1			-i		 			+		-++					-
6.3 .25 Complete structural works of Cross Passages 0.2	0		13-May-23				1								+		- + + +		- + +			-
6.3 .19 Complete excavation and support of Cross Passages 0.6	0		22-May-23		- L L 		+								+							-
7.1 Western Ventilation Building	249	13-Jun-22 A	13-Jan-23 A				+								+;							-
		10-Jun-22 A					+										+					-
7.1.5 Complete pile foundation for WVB 0.5	0		13-Jun-22 A				+															-
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	area for W	IVB 0.2)																
7.1.8 Complete concrete works of gross plan area for WVB 0.5	0		13-Jan-23 A				+					; • ;/.1	.8 Co	mplete		crete works	ot gross	pian	area for WVB	U.5		
8.1 Eastern Ventilation Building	189	13-Sep-22 A	24-May-23		İ		1								. i		- <u></u>			-		
8.1.3 Complete excavation for EVB 1	0		13-Sep-22 A	ļ	·												-++					
8.1 .4 Complete concrete works of gross plan area for EVB 0.25	0		24-May-23							¦ 		 										
9.1 Launching Shaft	0	28-Feb-23	28-Feb-23																			
9.1 .18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0		28-Feb-23							;								•	9.1.18 Compl	etje per	mane	ē

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

Three Months Rolling Programme (Feb-23)

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9.1 .19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0		28-Feb-23	30	06	13	20	0 2	7 04	4 1	1 18	25	01	08	15 2	2 29	05	12	19	26 ♦ 9.1	05 12 1,19 Compl	19 26 ete permanent
9.1.20 Complete permanent wall & bottom slab for Launching Shaft by length 0.6	0		28-Feb-23	i	i																	ete permanent
9.1.21 Complete permanent wall & bottom slab for Launching Shaft by length 0.8	0		28-Feb-23		· ;									,								ete permanent
9.1.22 Complete permanent wall & bottom slab for Launching Shaft by length 1	0		28-Feb-23						+					 								ete permanent
9.1.23 Complete permanent top slab for Launching Shaft by length 0.2	0		28-Feb-23											 !								ete permanent l
9.1.24 Complete permanent top slab for Launching Shaft by length 0.4	0		28-Feb-23																			ete permanent i
11.1 Drill and Break Tunnel	189	13-Jun-22 A	31-Mar-23						+			/		! ! !							LL	
11.1.2 Complete tunnel excavation 0.5 by length	0		13-Jun-22 A					!				 !		 	 					;		
11.1.3 Complete tunnel excavation 0.6 by length	0		13-Jul-22 A		;				+					, ,					+-	+		
11.1.5 Complete tunnel excavation 0.7 by length	0		13-Sep-22 A	gth	!				+			/		! ! !							 	
11.1.7 Complete tunnel excavation 0.8 by length	0		18-Nov-22 A				11.	1.7 Cor	n plete t	tuninel	exclavatio	; h 0.8 b	v len at	 h								
11.1.9 Complete tunnel excavation 0.9 by length	0		13-Feb-23 A										· · ·					11	1.9 Can	nplete	tunnel¦exca	vation 0.9 by le
11.1.11 Complete tunnel excavation 1 by length	0		31-Mar-23																			
11.2 Cross Passages for Drill and Break Tunnel	0	03-May-23	03-May-23		·									,							,	
11.2.1 Complete cross passages structure 0.1 by length	0		03-May-23		·																	
12.1 Drill and Blast Tunnel	0	13-Jan-23 A	13-Jan-23 A																	i		
	0	10-0dil-20 A	13-Jan-23 A												12.1.12 Co	omploto		intural		1 by	longth	
12.1.12 Complete tunnel structural lining 0.1 by length 12.2 Cross Passages for Drill and Blast Tunnel	0	00 May 02			· ;									· · · · ·	12.1.12.00					. I Dy i		
	-	22-May-23	22-May-23									 									· · · · · · · · · · · · · · · · · · ·	
12.2.1 Complete cross passages structure by length 0.1	0		22-May-23																	!		
13.1 Lam Tin Interchange Works	37	28-Feb-23	17-Apr-23												¦						¦	
13.1.1 Complete foundation	0		28-Feb-23*												 							ete foundation
13.1 .2 Complete fabrication of structural frame	0		28-Feb-23*		,									, , ,					;·			ete fabrication o
13.1.3 Complete installation of structural frame	0		28-Feb-23*									¦ 								• 13	.1.3 Compl	ete installation
13.1 .4 Complete remaining works	0		17-Apr-23*																+-			
13.1 .5 Complete whole activities of this cost centre	0		17-Apr-23*		·				¦												, , , , , , , , , , , , , , , , , , ,	
14.2 At-grade Roadworks for Trunk Road T2 (including Depressed Roa	0	17-May-23	17-May-23									 		 					· · · · · · · · · · · · · · · · · · ·	;	 	
14.2.7 Complete drainage installation 0.5	0		17-May-23											; 					<u></u>			
14.5 Provisions for GOFS	0	18-Apr-23	18-Apr-23									1 1 1		1 1 1			_					
14.5.1 Complete provision for GOFS 0.2	0		18-Apr-23*		1			1		1	1	1								;		
15.0 E&M Design Works	42	13-Feb-23 A	03-Apr-23									1		, , ,								
15.0 .10 Approval DDA for electrical system (power supply)	0		13-Feb-23 A											, , ,								lectrical system
15.0 .22 Approval DDA for Tunnel plumbing & drainage	0		13-Feb-23 A									; ;						15,0) .22 Ar	prova	DDA for T	unnel plumbing
15.0 .26 Approval DDA for Tunnel lighting system	0		13-Feb-23 A									 		 			<	15 0) .26 Ar	prove	al DDA for T	unnel lighting s
15.0 .6 Approval DDA for tunnel ventilation system	0		28-Feb-23																	• 15	.0 .6 Approv	/al DDA for tunr
15.0 .14 Approval DDA for Tunnel extra low voltage system	0		28-Feb-23									 								• 15	.0 .14 Appro	oval DDA for Tu
15.0 .30 Approval DDA for remaining tunnel and at-grade E&M systems	0		28-Feb-23																	• 15	.0 .30 Appro	oval DDA for rer
15.0 .34 Approval DDA for E&M in WVB	0		28-Feb-23									 		 	· · · ·					• 15	.0 .34 Appro	oval DDA for E8
15.0 .38 Approval DDA for E&M in EVB	0		28-Feb-23									 		 						• 15	.0 .38 Appro	oval DDA for E8
15.0 .42 Approval DDA for APS in WVB	0		28-Feb-23																	• 15	.0 .42 Appro	oval DDA for AF
15.0 .18 Approval DDA for Tunnel fire services system	0		03-Apr-23									 										
15.0 .43 Complete whole activities of this cost centre	0		03-Apr-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											' '						·	++ 	
15.2.9 Complete UG pipeworks from sumpit to manhole 0.5	0		13-Jul-22 A									 - 		 							· · · · · · · · · · · · · · · · · · ·	
15.2 .10 Complete UG pipeworks from sumpit to manhole 1	0		13-Oct-22 A	te U	Gpipe	works	from	n sumpi	it to mar	nhole	1	 		; ;	;; ; ; ;			÷		·	;; !	
15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1	0		13-Dec-22 A		L I I					♦	15 2 .2 C	omplete	e termi	hal, ma	t, pit, cond	uit, open	ing and re	cess	etc. 1		L L	
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	penir	ng and	reces	setc	0.5	+					;						·		
15.3.7 Complete pit, cable duct, drawpits and accessories etc 0.5	0		13-Dec-22 A						+	•	15 3 .7 C	omplete	e pit, ca	ble du	ct, drawpits	s and aco	cessories e	etc 0.	5		 	
15.4 APS Works for Western Ventilation Building	0	28-Feb-23	28-Feb-23						+			;: }		i						·		
15.4.1 Complete site delivery of DeNO2 filters	0		28-Feb-23*									 		, , , ,						• 15	.4.1 Compl	ete site delivery
15.4.2 Complete installation of DeNO2 filters	0		28-Feb-23*						+		· }											ete installation
15.4.3 Complete site delivery of electrostatic precipitation system	0		28-Feb-23*	i	i																	ete site deliver
Page 10 of 30 Milestone Planned Bar Critical Ac tivity Actual Milestone Actual Work 		ED/2	018/04 fo		_	_	_				and at S		_	_		re V	Vork	٢S			BOU	YGUES IX PUBLICS
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15.4 4 Complete installation of electrostatic precipitation system 0 28-Feb23* 15.4 5 Complete installation of electrostatic precipitation system 0 28-Feb23* 15.4 6 Complete installation of support system 0 28-Feb23* 15.4 Complete installation of support system 0 28-Feb23* 15.4 Complete installation of support system 0 28-Feb23* 17.1 10 Complete parement of al-grade roads 0.5 0 13-Jul-22A 17.1 2.7 Works tunder Sections 65.6 Q cand 12 and Associated Landscaper 1 0 13-Jul-22A 17.1 10 Complete parement of al-grade roads 0.8 0 13-Jul-22A 17.1 12 Complete is sub-base and roadbase works of al-grade roads 1 0 13-Jul-22A 17.1 13 Complete barbaes of waterworks 0.8 0 13-Jul-22A 17.1 4 Scomplete installation 1 0 13-Sep22 17.1 4 Scomplete indepte barbaes of waterworks 0.8 0 13-Jul-22A 17.1 4 Complete indepte 10.8 0 13-Jul-22A 17.1 4 Complete indepte 10.8 0 13-Jul-22A 17.1 4 Scomplete indepte 10.8 0 13-Jul-22A 17.1 4 Complete indepte1 objet 0.5 0		November	December	January		oruary	March April		May		June
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15.4 & Complete installation of weak down system 0 28-Feb-23 15.4 & Complete site delivery of support system 0 28-Feb-23 15.4 & Complete installation of support system 0 156 15.4 & Complete installation of support system 0 13-Jun-22 A 17.1 Complete sub-base and radebase works of al-grade reads 0.5 0 13-Jun-22 A 17.1 Complete sub-base and radebase works of al-grade reads 0.8 0 13-Jun-22 A 17.1 S Complete sub-base and radebase works of al-grade reads 0.8 0 13-Jun-22 A 17.1 S Complete parement of al-grade reads 0.8 0 13-Jun-22 A 17.1 S Complete parement of al-grade reads 0.8 0 13-Jun-22 A 17.1 S Complete barben of waterworks 0.8 0 13-Jun-22 A 17.1 AS Complete chambers of waterworks 0.8 0 13-Jun-22 A 17.1 A Complete chambers of waterworks 1 0 13-Sep-22 J 17.1 A Complete chambers of waterworks 1 0 13-Sep-22 J 17.1 A Complete chambers of waterworks 1 0 13-Oct 22 J 17.1 A Complete chamber of waterworks 1 0 13-Oct 22 J 17.1 A Complete footpath 0.5 0 13-Oct 22 J 17.1 A Complete footpat		·					15.4 4 Complete installation of electrostatic precipita				
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17.1.56 Complete landscaping works 0.5 0 28-Feb-23 17.1.57 Complete landscaping works 0.8 0 28-Feb-23 17.1.58 Complete landscaping works 1 0 28-Feb-23 17.1.58 Complete landscaping works 1 0 28-Feb-23 17.1.58 Complete whole activities of this cost centre 1 0 28-Feb-23 17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As: 0 28-Feb-23 17.2.1 Complete irrigation system 0.3 0 28-Feb-23 17.2.2 Complete irrigation system 0.6 0 28-Feb-23 17.2.3 Complete irrigation system 1 0 28-Feb-23 17.2.4 Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4 A 0 Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4 A0 Complete watermain installation 0.25 0 13-Jan-23 A 17.4 A0 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4 A2 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A							 17.1.55 Complete Landscaping works 0.25 				
17.1 57 Complete landscaping works 0.8 0 28-Feb-23 17.1 58 Complete landscaping works 1 0 28-Feb-23 17.1 50 Complete whole activities of this cost centre 1 0 28-Feb-23 17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As: 0 28-Feb-23 17.2 Irrigation system 0.3 0 28-Feb-23 28-Feb-23 17.2 Complete irrigation system 0.3 0 28-Feb-23 28-Feb-23 17.2 Complete irrigation system 0.6 0 28-Feb-23 28-Feb-23 17.2 Complete whole activities of this cost centre 1 0 28-Feb-23 17.2 A Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 1 Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4 31 Complete sewerage installation 0.25 0 13-Jan-23 A 17.4 40 Complete watermain installation 0.25 0 10-Jun-23 A 17.4 3 Complete excavation and disposal of material works 0.5 0 10-Jun-23 A 17.4 3 Complete excavation and disposal of material works 0.8 0 23-Jun-23 A 17.5 A Complete excavation and disposal of materia		·				+	· • • • • • • • • • • • • • • • • • • •				
17.1 58 Complete landscaping works 1 0 28-Feb-23 17.1 60 Complete whole activities of this cost centre 1 0 28-Feb-23 17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As: 0 28-Feb-23 17.2.1 Complete irrigation system 0.3 0 28-Feb-23 17.2.2 Complete irrigation system 0.6 0 28-Feb-23 17.2.3 Complete irrigation system 1 0 28-Feb-23 17.2.4 Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4 A Ocomplete watermain installation 0.25 0 13-Jan-23 A 17.4 A0 Complete watermain installation 0.25 0 13-Jan-23 A 17.4 A0 Complete watermain installation 0.25 0 13-Jan-23 A 17.4 A0 Complete watermain installation 0.25 0 13-Jan-23 A 17.4 2 Complete excavation and disposal of material works 0.5 0 10-Jun-23 17.4 A0 Complete excavation and disposal of material works 0.5 0 10-Jun-23 17.4 A0 Complete excavation and disposal of material works 0.8 0 23-Jun-23							◆ 17.1 .56 Com plete landscaping works 0.5				
17.1.60 Complete whole activities of this cost centre 1 0 28-Feb-23 17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As: 0 28-Feb-23 17.2.1 Complete irrigation system 0.3 0 28-Feb-23 17.2.2 Complete irrigation system 0.6 0 28-Feb-23 17.2.3 Complete irrigation system 1 0 28-Feb-23 17.2.4 Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 A Complete whole activities of this cost centre 1 0 28-Feb-23 17.4.1 Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4.31 Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 17.4.40 Complete watermain installation 0.25 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.5 0 10-Jun-23 A 17.4.2 Complete excavation and disposal of material works 0.5 0 10-Jun-23 A 17.5.17 Complete excavation and disposal of material works 0.8 0 23-Jun-23 A 17.5.14 Complete installatio						# # .	♦ 17.1.57 Com plete landscaping works 0.8				
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17.2 2 Complete irrigation system 0.6 0 28-Feb-23 17.2 3 Complete irrigation system 1 0 28-Feb-23 17.2 4 Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se 143 13-Jan-23 A 23-Jun-23 17.4 A Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 23-Jun-23 A 17.4 .1 Complete sewerage installation 0.25 0 13-Jan-23 A 13-Jan-23 A 17.4 .40 Complete watermain installation 0.25 0 13-Jan-23 A 13-Jan-23 A 17.4 .30 Complete watermain installation 0.25 0 13-Jan-23 A 13-Jan-23 A 17.4 .30 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4 .2 Complete excavation and disposal of material works 0.5 0 10-Jun-23 17.4 .3 Complete excavation and disposal of material works 0.8 0 23-Jun-23 17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V 232 13-Jun-22 A 17.5 .17 Complete concrete works of piers 0.5 0 13-Jun-22 A 17.5 .14 Complete installation and commissioning of temporary ramp 0 13-Jun-22 A 17.5 .14 Complete installatio											
17.2.3 Complete irrigation system 1 0 28-Feb-23 17.2.4 Complete whole activities of this cost centre 1 0 28-Feb-23 17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se 143 13-Jan-23 A 23-Jun-23 17.4.1 Complete excavation and disposal of material works 0.25 0 13-Jan-23 A 23-Jun-23 A 17.4.31 Complete sewerage installation 0.25 0 13-Jan-23 A 13-Jan-23 A 17.4.40 Complete watermain installation 0.25 0 13-Jan-23 A 17.4.35 Complete manhole for sewerage 0.25 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.5 0 13-Jan-23 A 17.4.3 Complete excavation and disposal of material works 0.8 0 23-Jun-23 17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V 232 13-Jun-22 A 17.5.17 Complete concrete works of piers 0.5 0 13-Jun-22 A 17.5.14 Complete installation and commissioning of temporary ramp 0 13-Jul-22 A 17.5.15 Complete demolition of existing ramp 0 13-Jul-22 A 17.5.4 Complete pre-drilling 1 0 13-Sep-22 A							17.2.1 Complete irrigation system 0.3				
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17.4.1 Complete excavation and disposal of material works 0.25013-Jan-23 A17.4.31 Complete sewerage installation 0.25013-Jan-23 A17.4.40 Complete watermain installation 0.25013-Jan-23 A17.4.35 Complete manhole for sewerage 0.25013-Jan-23 A17.4.2 Complete excavation and disposal of material works 0.5010-Jun-2317.4.3 Complete excavation and disposal of material works 0.8023-Jun-23 A17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V23213-Jun-22 A17.5.17 Complete installation and commissioning of temporary ramp013-Jun-22 A17.5.15 Complete pre-drilling 1013-Jun-22 A17.5.7 Complete piled foundations of FB02 0.8013-Sep-22 A											
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age 11 of 30 ata Date: 28-Feb-23 Planned Bar Planned Bar Planned Bar FD/2018/0	. —	. –		frastructure			18-Dec-			WYu	

Actual Milestone

Actual Work

for Developments at South Apron

Three Months Rolling Programme (Feb-23)

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

Activity Name	Dur	Start	Finish		Me	vombo	r			Decer	hor			lanuary			Februar	1	_	140	arch	
				30	06	vembe 13	r 20	27	04	Decer 11	10er	5 01		lanuary 15	22	29 05	Februar	/	26	05 12		9
17.5.29 Complete lift shaft A and B 0.5	0		18-Nov-22 A								t A and B											
17.5.8 Complete piled foundations of FB02 1	0		13-Dec-22 A							♦ 17	5 .8 Com	olete pile										
17.5.9 Complete excavation	0		13-Jan-23 A											17.5.9	Comple	te excava	ation	,				
17.5.12 Complete concrete works of pile caps 0.8	0		13-Jan-23 A							-			•	17.5.1	2 Compl	ete concr	ete works	of pile c	caps 0	.8		
17.5.13 Complete concrete works of pile caps 1	0		13-Jan-23 A							-			•	17.5.1	3 Compl	ete concr	ete works					
17.5.19 Complete concrete works of piers 1	0		28-Feb-23																• 17.	5 .19 Com	plete co	oncr
17.5.21 Complete concrete works of deck 0.25	0		28-Feb-23																🔶 17.	5 .21 Com	nplęte co	on¢r
17.5.25 Complete prestressing works of deck 0.25	0		28-Feb-23															· · · · · · · ·	🔶 17.	5 .25 Com	ıplete pr	reștr
17.5.31 Complete lift shaft C and D 0.5	0		21-Mar-23																		•	17.5
17.5.30 Complete lift shaft A and B 1	0		14-Apr-23						1	-												
17.5.32 Complete lift shaft C and D 1	0		14-Apr-23						-	-												
17.5.22 Complete concrete works of deck 0.5	0		13-May-23		-				1					-		-				 ! !		
17.5.23 Complete concrete works of deck 0.8	0		13-May-23		[]					
17.5.26 Complete prestressing works of deck 0.5	0		13-May-23																			
17.5.27 Complete prestressing works of deck 0.8	0		13-May-23															• • - • - • - • - • • • • • •				
19.1 Works for Road L10 (Northern Section)	46	28-Feb-23	26-Apr-23																			
19.4 .1 Complete excavation and disposal of material works 0.25	0		28-Feb-23						 !									<u>+</u> <u>+</u> -	• 19	4.1 Comp	olete exc	cava
19.4 .31 Complete sewerage installation 0.25	0		28-Feb-23		· L		L - 		-l	· ·			!	!	 			± ± - ! ! !	• 19.	4 .31 Com	ıplęte se	ewjer
19.4 .35 Complete manhole for severage 0.25	0		28-Feb-23						-j !		;; !		j							4 .35 Com		
19.4 .40 Complete watermain installation 0.25	0		23-Mar-23		·					·	. <u></u> 		!					+ + - 		<u> </u> 		↓19
19.4.44 Complete anchor blocks, thrust block etc for waterworks 0.25	0		23-Mar-23		·													++-				► 19
19.4 .48 Complete chambers of waterworks 0.25	0		23-Mar-23		·				 	 								; ; -	+			19
19.4 .21 Complete drainage installation 0.2	0		25-Mar-23						-	- I			!									•
19.4 .25 Complete manhole for drainage 0.25	0		25-Mar-23															+ + - !	+			•
19.4.41 Complete watermain installation 0.5	0		19-Apr-23		·				·	·	·····		!					++-				
19.4.45 Complete anchor blocks, thrust block etc for waterworks 0.5	0		19-Apr-23															+ + - ! ! !				
19.4.49 Complete chambers of waterworks 0.5	0		19-Apr-23		·													+ + - 				
19.4.2 Complete excavation and disposal of material works 0.5	0		26-Apr-23		·										·			+ !				
19.4 .3 Complete excavation and disposal of material works 0.8	0		26-Apr-23		·													+ + - ! ! !				
19.4.22 Complete drainage installation 0.5	0		26-Apr-23		·					·	·							++-				
19.4.26 Complete manhole for drainage 0.5	0		26-Apr-23																			
21.1 Improvement Works at the Junction of Hoi Bun Road/Cheung Yip {	47	13-Aug-22 A	· ·						-¦	·	·							++- 				
21.1.1.5 Complete T&C of drainage and waterworks system	47	TU Aug-22 A	13-Aug-22 A															$\frac{1}{1}$ $\frac{1}{1}$ -				
21.1.15 Complete r act of drainage and waterworks system 21.1.12 Complete road marking, traffic sign and traffic signal installation	0		13-Aug-22 A 13-Sep-22 A	nd trof	fficein	nal in	stallation								 			¦¦-				
21.1.12 Complete road marking, trainc sign and trainc signal installation 21.1.16 Complete whole activities of this cost centre	0		13-Sep-22 A 18-Nov-22 A		inc sig			+	n nle te	whole	activities of	this co	st centre					÷÷-				
21.1 .16 Complete whole activities of this cost centre 21.3 Establishment Works for Improvement Works at the Junction of F	0 67	28-Feb-23	23-May-23			~~~~~	<u> </u>	υ ψ0Ι	hiele	will()		uns CO										
· · · · · · · · · · · · · · · · · · ·		20-F00-23	-		·					<u>.</u>	Ļ									2 1 0		
21.3.1 Complete establishment works for 3 mths completion of softworks	0		28-Feb-23								 								• 21.	3 .1 Comp	nete est	apli
21.3.2 Complete establishment works for 6 mths completion of softworks	0	40.1.00.4	23-May-23		·													<u>+</u> + -				
22.1 Pipelines for District Cooling System for Commissioning of AMAN	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																			
22.2 Remaining Pipelines for District Cooling System Other Than for C	34	13-Oct-22 A	13-Jan-23 A															, , , , , , , , , , , , , , , , , , ,				
22.2 .1 Complete DCS installation length 0.2	0		13-Oct-22 A	e DCS	instal	llation	length (0.2										¦				
22.2.2 Complete DCS installation length 0.5	0		13-Jan-23 A											22.2.2	Comple	te DÇS ir	nstall ation	length (0.5			
34.1 Common Utilities Enclosure (CUE) under Section 6A of the Works	0	28-Feb-23	28-Feb-23						1	-			1									
34.1.15 Complete drainage installation of CUE 1	0		28-Feb-23							-				-					♦ 34.	1 .15 Com	ıplete dr	raina
34.1.16 Complete ventilation installation of CUE 1	0		28-Feb-23															4 4 -		1 .16 Com		
34.1.17 Complete power supply and lighting installation of CUE 1	0		28-Feb-23																• 34.	1 .17 Com	ı plęte po	owe
34.1.19 Complete whole activities of this cost centre 1	0		28-Feb-23		;													+ + - 	• 34.	1 .19 Com	ıplete w	hole
34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works	174	13-Aug-22 A	24-Apr-23															+-		 		
34.2.4 Complete concrete works of base slab of CUE 0.5	0		13-Aug-22 A		·				·¦	·	·							+ + - !				
34.2.8 Complete concrete works of walls of CUE 0.5	0		-	e conc	crete w	vorkso	fwalls	of ¢U	E 0.5									++-				
34.2 .12 Complete concrete works of top slab of CUE 0.5	0			te con						· ·	·				-			÷+-	-++			

Page 12 of 30 Data Date: 28-Feb-23

Milestone
 Planned Bar
 Critical Activity
 Actual Milestone

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

Three Months Rolling Programme (Feb-23)

BOUYGUES TRAVAUX PUBLICS

102 09 16 23 30 07 14 21 28 04 11 18 25 works of pers 1	T	23	Α	pril		<u> </u>		May					June	•	
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	18-Dec-19	00V1	WYu	
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	09-Apr-20	01V1	SPa/LLo	WYu
S	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	Start	Finish	20 November	22	December		10	anuary			Februa	arv		March	h	20
				30 06 13 20 27	04		25 01	08	15	22	29			26	05 12	19	26
34.2.2 Complete excavation of CUE	0		13-Jan-23 A						34.2.2			xcavation of					
34.2.6 Complete concrete works of base slab of CUE 1	0		13-Jan-23 A		-			•	34.2.6	Comp	lete c	oncrete work	s of base	slab of	CUE 1		-
34.2.5 Complete concrete works of base slab of CUE 0.75	0		13-Jan-23 A						34.2.	5 Com	plete o	concrete wor	ks of base	slab of	CUE 0.75		
34.2.9 Complete concrete works of walls of CUE 0.75	0		13-Feb-23 A									♦ 3	4.2.9 Cor	mplete c	concrete wor	ks of w	alls of
34.2.10 Complete concrete works of walls of CUE 1	0		13-Feb-23 A									♦ :	34 2 .10 C	om pletr	e concrete w	orks of	walls
34.2.13 Complete concrete works of top slab of CUE 0.75	0		13-Feb-23 A									♦ :	34.2.13 C	om pletr	e concrete w	orks of	top sl
34.2.14 Complete concrete works of top slab of CUE 1	0		13-Feb-23 A									•	34¦2 .14 Ç	; om ple tr	e concrete w	orks of	top sl
34.2.15 Complete drainage installation of CUE	0		10-Mar-23]				♦ 34.2.	15 Con	nplete
34.2.17 Complete power supply and lighting installation of CUE	0		10-Mar-23												♦ 34.2	17 Con	nplete
34.2.18 Complete backfill to ground level of CUE	0		24-Apr-23														
35 Services Gallery	229	13-Jun-22 A	23-Jun-23]					[
35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basement	0		13-Jun-22 A									- i i 	· - i i		; ;	;	
35.18 Complete 60% of total length (measured on plan) of SG structures in Drill-and-Break	0		13-Sep-22 A	d on plan) of SG structures in	Drill-and-	Break and Drill-a	and-Blast T	unnel									
35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and a	0		13-Sep-22 A	d on plan) of Services Gallery	structure	s and ancillaries	in TBM Tu	unnel			1						
35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Basemer	0		13-Sep-22 A	ired on plan) of excavation fo	Lower Ba	asement of East	Ventilation	Buildir	Ŋ							}} }	
35.35 Complete concreting works of 25% of the total gross plan area for the Lower Basemer	0		13-Oct-22 A	concreting works of 25% of t	ne total gr	oss plain area for	the Lower	Baser	hentof	East V	entilat	tion Building				!	
35.22 Complete 20% of total length (measured on plan) of Services Gallery structures and a	0		18-Nov-22 A			of total length (and ancilla	aries in	TBM Tunnel	;;	
35.23 Complete 30% of total length (measured on plan) of Services Gallery structures and a	0		13-Dec-22 A	kkkkkk		◆ 35 23 Comp	lete 30% c	f total I	ength (i	measu	red on	plan) of Ser	vices Gall	lery stru	ctures and a	ncillari	ės in T
35.36 Complete concreting works of 50% of the total gross plan area for the Lower Baseme	0		13-Dec-22 A			◆ 35:36 Comp											
35.24 Complete 40% of total length (measured on plan) of Services Gallery structures and a	0		13-Jan-23 A					♦	35.24	Compl	ete 40	% of total ler	igth (mea	sured or	n plan) of Se	rvices	Galler
35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Break	0		13-Feb-23 A									•	35.14 Con	nplete 8	30% of total le	ėngth (measu
35.25 Complete 50% of total length (measured on plan) of Services Gallery structures and ε	0		25-Mar-23										- + +				35.2
35.15 Complete 100% of total length (measured on plan) of SG excavation in Drill-and-Brea	0		31-Mar-23			L L L J											•
35.26 Complete 60% of total length (measured on plan) of Services Gallery structures and ε	0		28-Apr-23													;	
35.38 Complete concreting works of 100% of the total gross plan area for the Lower Basem	0		24-May-23												!!	}}	
35.37 Complete concreting works of 75% of the total gross plan area for the Lower Basemer	0		23-Jun-23														
SOUTH APRON EXTERNAL WORKS	945	05-Feb-22 A	07-Mar-25	·····									- + +			÷;	
Road S20	756	18-Mar-22 A	22-Jul-24										-++				
CUE (Section 6A)	97	11-Apr-22 A	17-Aug-22 A													ļ	
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					ļ			ļ	ļļ			<u>-</u>	ļ	
Entrance	72	11-Apr-22 A	17-Aug-22 A														
BS/E&M	72	11-Apr-22 A	17-Aug-22 A														
Entrance - E&M Installation	72	11-Apr-22 A	17-Aug-22 A	· · · · · · · · · · · · · · · · · · ·				ļ				ļ				ļ!	ļ
Junction	45	24-May-22 A	23-Jul-22 A														
BS/E&M	45	24-May-22 A	23-Jul-22 A														
Junction - E&M 1st Fix Installation	18	24-May-22 A	14-Jun-22 A														-
Junction - E&M Installation	24	15-Jun-22 A	12-Jul-22 A														
Junction - Backfill	12	12-Jul-22 A	23-Jul-22 A													;	
S20 (Section 6A)	756	18-Mar-22 A	22-Jul-24] []						
Future Carriageway - Stage 3	84	24-May-22 A	27-Aug-22 A					-j			1				i	!	
S20 Stage 3 (Catchpit, Gully)	24	24-May-22 A	21-Jun-22 A													!	
S20 Stage 3 (Watermain)	36	22-Jun-22 A	30-Jul-22 A													!	
S20 Stage 3 (Roadworks)	24	01-Aug-22 A	27-Aug-22 A													i	
Future Amenity Area (Gas Station Side)	168	29-Aug-22 A	28-Apr-23												'		
S20 Stage 2 (Roadworks) (Gas Station Side)	24	29-Aug-22 A	22-Sep-22 A	on Side)									· - + +			!	
Gas Station Side (Landscape)	48	29-Aug-22 A 28-Feb-23	22-3ep-22 A 28-Apr-23			·										<u></u>	
Future Footpath	756	18-Mar-22 A	22-Jul-24	·····													
-														+			
Watermain diversion (Part 1 - CKR side)	24	18-Mar-22 A	06-Aug-22 A														
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	+													
Utilities undertaker for AMAWBC (Part 1 - CKR side)	24	21-Jul-22 A	07-Aug-22 A					i I									<u> </u>
Page 13 of 30 Milestone Planned Bar Critical Activity Actual Milestone Actual Work 		ED/20		1 Trunk Roa or Developm		_					϶V	Vorks	\$		BOUY TRAVAUX		

Three Months Rolling Programme (Feb-23)

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Utilities undertaker for AMAWBC (Part 2 - AMAWBC side)	24	08-Aug-22 A	20-Aug-22 A													
Section 6A Completion	0		13-Aug-22 A													
Footpath / U channel / planter (Part 1 - CKR side)	36	22-Aug-22 A	24-Sep-22 A	t 1 - CKR side)]]
Footpath / U channel / planter (Part 2 - AMAWBC side)	36	12-Sep-22 A	30-Sep-22 A	r (Part 2 - AMAWBC side)												
Landscape softwork (Part 1 - CKR side)	48	03-Dec-22 A	14-Feb-23 A					🗖 Landscap	e softwork (Part 1 -	- CKR side)						
Landscape softwork (Part 2 - AMAWBC side)	48	03-Dec-22 A	14-Feb-23 A					🗖 Landscap	e softwork (Part 2 -	AMAWBC sid	e)					
Section 9A Completion	0		28-Apr-23									•	Section 9/	A Çomplet	ion	
Road S20 - Establishment Period	365	29-Apr-23	22-Jul-24													
AMAWBC	225	30-Mar-22 A	22-Oct-22 A													
Drainage & Sewerage	225	30-Mar-22 A	24-Aug-22 A													
Section B	118	13-Apr-22 A	26-Jul-22 A													
Section B (Drainage & Sewerage) (80m, 30m/wk)	16	13-Apr-22 A	02-Jul-22 A				{				·					
Section B (Drainage & Sewerage) Backfill	10	04-Jul-22 A	26-Jul-22 A													
Section D	0	13-Aug-22 A									·					
Section 6A Completion	0		13-Aug-22 A					++			· · · · · · · · · · · · · · · · · · ·					·
Overall	-	30-Mar-22 A	-								· · · · · · · · · · · · · · · · · · ·					
L10/L18 (Drainage) (4 manhole) SMH1.6-1.9	24	30-Mar-22 A														
L10/L18 (Drainage) (4 mannole) SMH 1.0-1.9 L10/L18 (Drainage) Backfill	10		20-Jui-22 A 24-Aug-22 A													
Outfall 1	122		24-Aug-22 A 22-Oct-22 A					$\frac{1}{1}$			· · · · · · · · · · · · · · · · · · ·					
		-														
Outfall 1 - S1 Installation	4	16-May-22 A														
Outfall 1 - Excavation to S2 (+3.7 to +0.9, 220m3) Outfall 1 - S2 Installation	8		25-Jun-22 A					$\frac{1}{1}$								
	/	27-Jun-22 A	05-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - Excavation to FEL (+0.9 to -1.4, 180m3)	8	06-Jul-22 A	11-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - Ground Improvement Works at FEL	4	12-Jul-22 A	15-Jul-22 A								; ; ; ;		·····			. { { { {
Outfall 1 - Base Slab (16m3)	2	16-Jul-22 A	18-Jul-22 A					+			· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - S2 Removal	4	19-Jul-22 A	20-Jul-22 A													. -
Outfall 1 - Backfill to Pipe Bottom Level	2	21-Jul-22 A	23-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - DCS ELS Cutting	2	23-Jul-22 A	25-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - Drainage Pipe Installation (up to seawall block)	2	26-Jul-22 A	27-Jul-22 A					 								
Outfall 1 - Steel Plate installation	2	27-Jul-22 A	28-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - Concrete surround installed pipes	3	29-Jul-22 A	29-Jul-22 A								· · · · · · · · · · · · · · · · · · ·					
Outfall 1 - Core-cut seawall	10	29-Jul-22 A	19-Aug-22 A								1 1 1 					
Outfall 1 - Remaining drainage pipe installation	2		-													
Outfall 1 - Tie Bar Installation	2		24-Aug-22 A								·					
Outfall 1 - Tremie Concrete Outfall 1 - Backfill	2		26-Aug-22 A								· · · · · · · · · · · · · · · · · · ·					
Section 6A Drainage - T&C	0	27-Aug-22 A 12-Sep-22 A		6A Drainage - T&C							· · · · · · · · · · · · · · · · · · ·					
[STE] District Cooling System for AMAWBC Section 6B	24	01-Mar-22 A		TOA Dialilage - T&C							 					
	19										· · · · · · · · · · · · · · · · · · ·					
Section 1 - Bay 3	10	24-Mar-22 A	18-Jun-22 A					·			· · · · · · · · · · · · · · · · · · ·					
DCS - Bay 3 Backfill	10	24-Mar-22 A	18-Jun-22 A								·					
Testing & Commissioning	79	01-Mar-22 A	10-Jun-22 A								·					
Overall DCS - Testing & Commissioning	48	01-Mar-22 A	10-Jun-22 A				¦	 								
Section 6B completion	0		10-Jun-22 A					· · · · · · · · · · · · · · · · · · ·								
[STE] District Cooling System - Remaining Section 7B	359	12-Apr-22 A	30-Jun-23											 		
DCS (Pipe Jacking)	359	12-Apr-22 A	30-Jun-23													
DCS - Pipe Jacking Excavation (1772m3, 135m3/d + 6d per layer of strut)	37	12-Apr-22 A	06-Jul-22 A					· · · · · · · · · · · · · · · · · · ·								
DCS - Receiving Pit Sheet pile (1276m2, 55m2/d)	24	20-Apr-22 A	08-Oct-22 A	Sheet pile (1276m2, 55m2/d)				· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·					
DCS - Pipe Jacking (90m, 2m/d + 31d set up & demob)	76	12-Sep-22 A	18-Jan-23 A			DCS - P	ipe Jacking (9)0m, 2m/d + 31	ld set up & demob))			1			
DCS - Receiving Pit Excavation (3200m3, 135m3/d + 6d per layer of strut)	48	10-Oct-22 A	25-Dec-22 A		DCS - Re	ceiving Pit Excavation	(3200m3, 135	5m3/d + 6d per	r layer of strut)			 				
DCS - Pipe Jacking Pipe Install (90m, 6m/5d) & Valve Pit (24d)	99	28-Feb-23	30-Jun-23													
DCS (L10(S))	254	24-May-22 A	14-Apr-23													
Pre-bored	18	24-May-22 A	29-Jun-22 A													
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Page 14 of 30												Date		vision	Checked	Approved
Data Date: 28-Feb-23		ED/2	018/04	Trunk Road T2	and Infra	astructure	e Wor	ks 🖊				8-Dec-19	00V1		W Yu	14/14:
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Three Months Rolling Programme (Feb-23)

18-Dec-19	00V1	WYu	
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09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
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DCS - L10(S) 4 Pre-treatment (404m, 36m/d/rig, 2rigs)	6	24-May-22 A	31-Mav-22 A		20 4		1 10	20	0.00		23	12			12 13	20	02	10 20		 		
DCS - L10(S) 5 Pre-treatment (404m, 36m/d/rig, 2rigs)	6	06-Jun-22 A	-			-+											 !					
DCS - L10(S) 6 Pre-treatment (404m, 36m/d/rig, 2rigs)	6	20-Jun-22 A				-+								++								
Sheet piles	78	31-May-22 A				-+			 i i													
-	0	-	· ·																			
DCS - L10(S) 4 Sheet pile (404m2, 55m2/d)	8	31-May-22 A		+																		
DCS - L10(S) 5 Sheet pile (404m2, 55m2/d)	8	13-Jun-22 A		5.00																		
DCS - L10(S) 6 Sheet pile (404m2, 55m2/d)	8			5m2/d)						 				++								
Excavation	143		20-Dec-22 A							i i I I 											i i i i i .	
DCS - L10(S) 1 Excavation (1109m3, 40m3/d)	28	13-Jun-22 A	17-Aug-22 A							, , , , , , , , , , , , , , , , , , ,												
DCS - L10(S) 2 Excavation (1109m3, 40m3/d)	28	13-Jun-22 A	25-Aug-22 A																	jj.		
DCS - L10(S) 3 Excavation (1920m3, 40m3/d)	48	13-Jun-22 A	10-Sep-22 A																			
DCS - L10(S) 4 Excavation (564m 3, 40m 3/d)	15	12-Sep-22 A	13-Oct-22 A	xcavation (564m	3, 40m 3/d))																
DCS - L10(S) 5 Excavation (564m3, 40m3/d)	15	13-Oct-22 A	01-Nov-22 A	DCS - L10(S) 5	Excavatio	on (564m3	3, 40m 3/d)					·							-;; 			
DCS - L10(S) 6 Excavation (564m3, 40m3/d)	15				- L	-+`		DCS-L10)(S) 6 ⁻ Excav	ation (564m3	3. 40m	3/d)		<u>+</u> <u>+</u> <u>+</u> <u>+</u> <u>+</u>				-l	- L L	-l		
DCS Set up	101					-+								++-								
-	101	-	30-Sep-22 A	ion - Set up										++								
DCS - L10(S) 1 Pipe Installation - Set up	4		· · ·	b) 2 Pipe Installat	ion Colum															44		
DCS - L10(S) 2 Pipe Installation - Set up	4	08-Oct-22 A				- + +								++								
DCS - L10(S) 3 Pipe Installation - Pit	12	14-Oct-22 A	20-Oct-22 A	0(S) 3 Pipe Insta		- +														44		
DCS - L10(S) 3 Pipe Installation - Set up	4	20-Oct-22 A	25-Oct-22 A	- L10(S) 3 Pipe		- + 1				, , , , , , , , , , , , , , , , , , ,		·										
DCS - L10(S) 4 Pipe Installation - Set up	4	31-Oct-22 A		DCS - L10(S	i)¦4 Pipe In	- +																
DCS - L10(S) 5 Pipe Installation - Set up	4		07-Dec-22 A	ļ			DCS - L10(S							<u>+</u> +					 			·
DCS - L10(S) 6 Pipe Installation - Set up	4		06-Jan-23 A	l	· · · · · · · · · · · · · · · · · · ·				DCS	- L10(S) 6 Pi	ipie linis	tallation - Set up		++				· · · · · · · · · · · · · · · · · · ·				
DCS welding	60	03-Oct-22 A	11-Jan-23 A							1 I 1 I 1 I												
DCS - L10(S) 1 Pipe Installation - Pipe welding (3nos/d)	4	03-Oct-22 A	15-Oct-22 A	1 Pipe Installatio	n - Pipe we	elding (3nc	os/d)															
DCS - L10(S) 2 Pipe Installation - Pipe welding (3nos/d)	4	24-Oct-22 A	30-Dec-22 A			- +			DCS + L10(S) 2 Pipe Insta	allatior	n - Pipe welding:	(3nos/d)						-;; 			
DCS - L10(S) 3 Pipe Installation - Pipe welding (3nos/d)	4		08-Nov-22 A	DCS-L	10(S) 3 Pi	ipe Installa	ation - Pibe w	eldina (3no	os/d)				·	±± ! !	 ! !		 	-l		-l		
DCS - L10(S) 4 Pipe Installation - Pipe welding (3nos/d)	4		12-Nov-22 A			- + j	stallation - Pip							++								
DCS - L10(S) 5 Pipe Installation - Pipe welding (3nos/d)	т /	15-Dec-22 A						·	2	etallation - Pi	ino wo	lding (3nos/d)						+	·}	44		
	4	07-Jan-23 A										e Installation - Pi		a (3poc/d)								
DCS - L10(S) 6 Pipe Installation - Pipe welding (3nos/d)	4									шСЗ - Ц IU(З)				ig (Shosu)				+	·}			
Electrofusion	68		08-Feb-23 A																	4		
DCS - L10(S) 1 Pipe Installation - Electrofusion joint (1.5nos/d)	8			DCS-L	10(S) 1 Pi	ipe Installa	ation - Electro	ofu¦sion joint	t (1.5nos/d)													
DCS - L10(S) 2 Pipe Installation - Electrofusion joint (1.5nos/d)	8	09-Nov-22 A	08-Feb-23 A									DCS-L	10(S) 2 Pi	ipe Installați	on - Electro	ofusion joi	int (1.5nos/c	d)				
DCS - L10(S) 3 Pipe Installation - Electrofusion joint (1.5nos/d)	8	18-Nov-22 A	26-Nov-22 A				0(\$) 3 Pipe In							· · · · · ·						J		
DCS - L10(S) 4 Pipe Installation - Electrofusion joint (1.5nos/d)	8	28-Nov-22 A	06-Dec-22 A				DCS - L10(S)) 4 Pipe Ins	stallation - E	lectrofusion jo	oint (1.	.5nos/d)										
DCS - L10(S) 5 Pipe Installation - Electrofusion joint (1.5nos/d)	8	17-Dec-22 A	28-Dec-22 A					pc	CS - L'10(S)	5 Pipe Installa	lation -	Electrofusion joi	int (1.5nos	s/d)								
DCS - L10(S) 6 Pipe Installation - Electrofusion joint (1.5nos/d)	8	12-Jan-23 A	20-Jan-23 A							DCS	S÷L10	(S) 6 Pipe Install	ation - Ele	ectrofusion	oint (1.5nos	s/d)		· · ·				
Backfill	125	09-Nov-22 A	14-Apr-23																		·	
DCS - L10(S) 1 Backfill	12	09-Nov-22 A									- <u>-</u> <u>-</u> -		S-110(S)) 1 Backfill								
DCS - L10(S) / Backfill	12	23-Nov-22 A											+	DCS - L10	(S) 2 Backf	-+++						
		07-Dec-22 A								4				DCS - L 10	· · · · · · · · · · · · · · · · · · ·							
DCS - L10(S) 3 Backfill	12		28-Feb-23 A										+-	uuo - L IV		+	ookfiil					
DCS - L10(S) 4 Backfill	12	17-Jan-23 A	13-Mar-23												DCS-L			Deel City				
DCS - L10(S) 5 Backfill	12	26-Jan-23 A	27-Mar-23										+				S - L10(S) 5					
DCS - L10(S) 6 Backfill	12	28-Mar-23	14-Apr-23															DCS - L10(8	5) 6 Backfill			
Steel platform area	116	15-Dec-22 A	28-Feb-23 A													l. li						
DCS - L10(S) CH228-252 Sheet pile (505m2, 55m2/d)	10	15-Dec-22 A	13-Jan-23 A							DCS - L10(S) CH	228-252 Sheet p	ile (505m	2, 55m2/d)								
DCS - L10(S) CH228-252 Excavation (576m3, 40m3/d)	15	28-Dec-22 A	31-Jan-23 A								— (D¢S - L10(S) CH	1228-252	Excavation	(576ṁ3,40	m3/d)						
DCS - L10(S) CH228-252 Pipe Installation - Set up (DN900 24m)	4	01-Feb-23 A										DCS - L10(S) CH228	3-252 Pipe I	nstal lation	Set up (I	DN900 24m))				
DCS - L10(S) CH228-252 Pipe Installation - Pipe welding (3nos/d)	4	07-Feb-23 A											`- <i>-</i>				Pipe welding					
DCS - L10(S) CH228-252 Pipe Installation - Electrofusion joint (12nos, 1.5nos/d)	8	15-Feb-23 A		L L														Electrofusion	joint (12nos.	,1.5nos/d)		
DCS (Slip Road S5)	87	21-Dec-22 A																				
										bored (1303m	26-	/d/)										
DCS - S5 Pre-bored (1303m, 36m/d)	36	21-Dec-22 A	28-Dec-22 A													- <u>+</u>				44		
DCS - S5 Sheet pile (666m2, 55m2/d)	12	09-Jan-23 A	12-Jan-23 A							ლია - ჯ5 She		e (666m2, 55m2)	+-									
DCS - S5 Excavation (623m3, 40m3/d)	18	13-Jan-23 A	02-Feb-23 A					1		1 1		DCS - \$5 Exca	vation (62	∠3m3,40m3	5/d)				1 1			
e 15 of 30																		Date	Revi	ision	Checked	Appr
							-											18-Dec-19	00V1		WYu	
a Date: 28-Feb-23		ED/2(U18/04	l Trunk	Koa	ad I	2 and	d Inti	rastr	ucture	e٧	/Vorks						22-Feb-20	01V0		SPa/LLo	W Yu
 ♦ Actual Milestone 														BO	UYGI	JES		09-Apr-20	01V0		SPa/LLO	WYu
Actual Work			10	r Deve	iopri	ient	s at s	SOUL	п ар	1011				TRAV	AUX PU	BLICS			01V1			W Yu
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		1					_										1	00_0ct_20	011/3	10	SPa/LLA	W/Mi

Three Months Rolling Programme (Feb-23)

SPa/LLo SPa/LLo

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09-Oct-20 02-Jul-21

01V3

02V0

			May	/ember		Decemb	or		January			Febru	arv		Ν	<i>N</i> a rch			۸-	oril			Mav			June
				13	20 27 04			01	January 08 15	22	29 05			26	05		19 26	5 02	Ap 09		23	30 07	14 May	21 28	04	June 11 18
Road L10 (Southern)	98 28-Feb-23	29-Jun-23								-																
Excavation	92 28-Feb-23	21-Jun-23							4					++	+ + !											
L10(S) 1 Excavation (1460m3, 110m3/d)	14 28-Feb-23	15-Mar-23											+ + + + + + + + + + + + + +	+ + -	++	L1()(S) 1 E>	cavation	(1460m	i3, 110r	n3/d)					
L10(S) 2 Excavation (1620m3, 110m3/d)	15 16-Mar-23	01-Apr-23	ÈÈ						ii 				ii					L10	(S) 2 E>	cavatio	n (1620m	13, 1¦10m3	3/d)			·ii.
L10(S) 3 Excavation (1700m3, 110m3/d)	16 03-Apr-23	25-Apr-23													++			-			L10(S)3 Exca	vation (1	700m 3, 110r	m3/d)	
L10(S) 4 Excavation (960m3, 110m3/d) & Strutting (6d)	15 26-Apr-23	13-May-23												+	++ !											m3, 11,0m3/d)
L10(S) 5 Excavation (960m3, 110m3/d) & Strutting (6d)	15 15-May-23	01-Jun-23																							L10(S) 5	5 Excavation (
L10(S) 6 Excavation (1200m3, 110m3/d) & Struttin (6d)	17 02-Jun-23	21-Jun-23												++	<u> </u> - ·										4	·····
Drainage	78 16-Mar-23	21-Jun-23													<u>.</u>											
L10(S) 1 Drainage & Sewerage (5 manhole, 6d/nos)	30 16-Mar-23	24-Apr-23																			110(5	S) 1 Draina	ade & Se	werage (5 m	anhole f	6d/nos)
L10(S) 2 Drainage & Sewerage (3 manhole, 6d/nos)	18 25-Apr-23	16-May-23													++								11	D(S) 2 Drain	age & Se	ewerage (3 ma
L10(S) 3 Drainage & Sewerage (1 manhole, 6d/nos)	6 17-May-23	23-May-23											<u>-</u>	÷	<u>.</u>											ge & Sewerag
L10(S) 4 Drainage & Sewerage (3 manhole, 6d/nos)	18 24-May-23	14-Jun-23													• • • - •					- 						L10(S) 4
L10(S) 5 Drainage & Sewerage (1 manhole, 6d/nos)	6 15-Jun-23	21-Jun-23											+ + +	+	$\frac{1}{1} \frac{1}{1}$								·			
Watermain	54 25-Apr-23	29-Jun-23																								
L10(S) 1 Watermain (30m/6d)		09-May-23	· · · · · · · · · · · · · · · · · · ·											<u>.</u>									10(2) 1	Natormain (30m/6d)	
	· · ·	31-May-23																						Natermain (110(2)2	2 Watermain (3
L10(S) 2 Watermain (30m/6d)	12 17-May-23	14-Jun-23																							_10(3) 2	L 10(S) 3
L10(S) 3 Watermain (30m/6d) L10(S) 4 Watermain (30m/6d)	12 01-Jun-23	29-Jun-23																			·					;
Backfill	12 15-Jun-23														,		· · · ·									
	42 10-May-23	29-Jun-23													÷+							····				
L10(S) 1 Backfill	12 10-May-23	23-May-23													++									L10(S)	Backfill	
L10(S) 2 Backfill	12 01-Jun-23	14-Jun-23																								📕 Ļ10(S) 2
L10(S) 3 Backfill	12 15-Jun-23	29-Jun-23												; ; ;	; ; ; - ·		· · · · .								44-	
Outfall 2 & Branch Drainage	187 17-May-22 A	28-Feb-23													¦ ++											
Portion H1	187 17-May-22 A	28-Feb-23																					.jj		JJ.	
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																			l.					
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 2 Pre-treatment	12 22-Aug-22 A	21-Sep-22 A																								
Section H1 part 2 Sheet pile (648m2)	12 07-Sep-22 A	08-Oct-22 A	eet pile (648	m2)																						
Section H1 part 3 Sheet pile (504m2)	10 07-Sep-22 A	08-Oct-22 A	et pile (504 r	n2)																						
Section H1 part 3 Excavation (660m3)	12 10-Oct-22 A	03-Nov-22 A	Şection I	H1 part 3	3 Excavation (660	Dm3)																				
Section H1 part 2 Excavation (848m3)	14 10-Oct-22 A	03-Nov-22 A	Section I	H1 part2	2 Excavation (848	3m3)]	
Section H1 part 3 Drainage	12 31-Oct-22 A	12-Nov-22 A			H1 part 3 Draina	- In																				
Section H1 part 2 Drainage	12 31-Oct-22 A	12-Nov-22 A		Section	n H1 part 2 Draina	age																				
Section H1 part 2 Backfill	6 14-Nov-22 A	09-Dec-22 A					n H1 part 2 E																			
Section H1 part 3 Backfill	6 14-Nov-22 A	16-Dec-22 A					Section H1	part 3 Bac													1					
Inspection for H/O	24 17-Dec-22 A	17-Jan-23 A							ln:	spection	or H/O]	
Section 6C Completion	0	28-Feb-23												🔶 Se	ection 6C	Compl	etion									
Outfall 2	70 03-Oct-22 A	26-Jan-23 A		1			1												-		1	1				
Outfall 2 - Sheetpiling (528m2, assume half typical)	20 03-Oct-22 A	15-Oct-22 A	etpiling (528	m2, ass	ume hal typical)								++		+ + + + + + + + - + + - +					- 						
Portion H2 Full Possession	0	03-Oct-22 A	n												;;;;; ; ;											
Outfall 2 - Excavation to S1 (+4.7 to + 3.5, 136m3)	3 17-Oct-22 A	19-Oct-22 A	Excavation to	o S1 (+4	.7 to + 3 5, 136m	3)																				
Outfall 2 - S1 Installation	6 19-Oct-22 A	25-Oct-22 A	ill 2 - S1 Inst	allation														- [[
Outfall 2 - Excavation to S2 (+3.5 to +1.7, 203m3)	8 26-Oct-22 A	08-Nov-22 A	Out		xcavation to S2 (
Outfall 2 - S2 Installation	6 09-Nov-22 A	15-Nov-22 A		Outfa	all 2 - S2 Installati	io'n																				
Outfall 2 - Excavation to FEL (+1.7 to -1.4, 350m3)	14 16-Nov-22 A	22-Nov-22 A		;	all 2 - S2 Installati Outfall 2 - Exca	vation to	FEL (+1.7 to	o -1.4, 350	m3)				·i		i					[
Outfall 2 - Ground Improvement Works for FEL		28-Nov-22 A			Dutfall 2										• • • • • • • • • • • • • • • • • • •								· -!!- 		al	·
Outfall 2 - Base Slab (12m3)	2 29-Nov-22 A				Cutfall	2 - Base	Slab (12m3)						·	[-				-					i			
Outfall 2 - Backfill to Pipe Bottom Level	2 01-Dec-22 A	03-Dec-22 A			🗖 Outi	fa¦ll 2 - Ba	ckfill to Pipe	Bottom Le	evel					+	+++ 											
			+				Steel Plate						++	;- <u> </u>	+ <u>+</u>			-+								
Outfall 2 - Steel Plate Installation	2 05-Dec-22 A	06-Dec-22 A	1 1		· · · · · · · · · · · · · · · · · · ·			motanation										- 11	1							

Page 16 of 30 Data Date: 28-Feb-23 Milestone
 Planned Bar
 Critical Ac tivity
 Actual Milestri

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

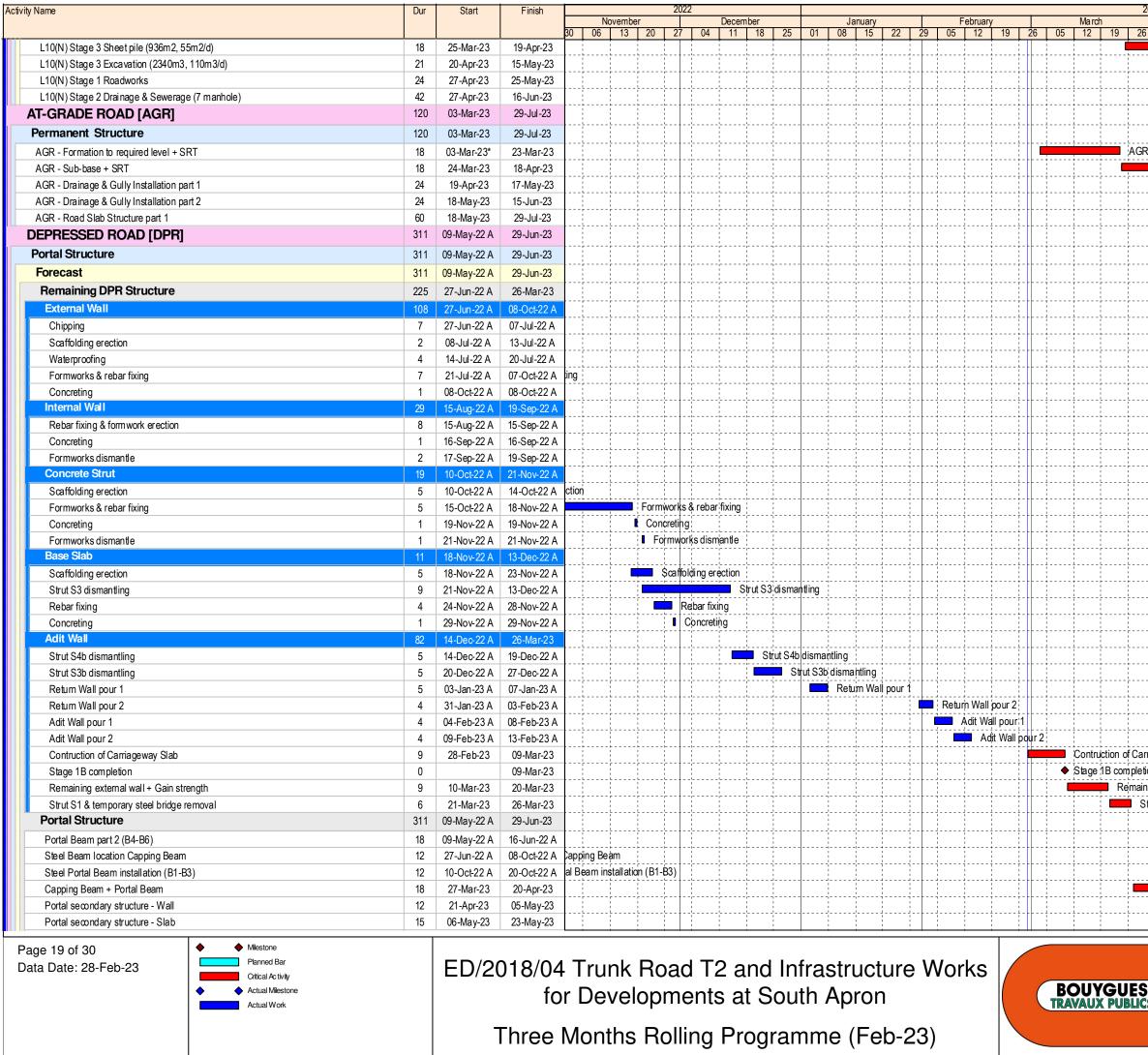
Three Months Rolling Programme (Feb-23)

BOUYGUES TRAVAUX PUBLICS



Activity Name	Dur Start	Finish	1		2022								2023	3					
			Nove		07 04	Dece		05 0	January	Febru		March		00 1 00	April		May	04 00 04	June
Outfall 2 - Concrete surround installed pipes	3 07-Dec-22 A	09-Dec-22 A	30 06	13 20	27 04	1 11		25 (01 08 15 22 rround installed pipes	29 05 12	2 19 26	6 05 12	19 26	02 09	9 16 23	30 07	14	21 28 04	11 18 25
Outrali 2 - Concrete sui round installed pipes		21-Dec-22 A	· L L L L L L L L						Core-cut seawall					·					
Outfall 2 - Remaining pipes installation		23-Dec-22 A							- Remaining pipes installa	tion									
Outfall 2 - Tie Bar Installation	2 24-Dec-22 A								fall 2 - Tie Bar Installation										
Outfall 2 - Tremie Concrete	2 29-Dec-22 A								utfall 2 - Tremie Concrete										
Outfall 2 - Pipe Installation up to seawall block	12 03-Jan-23 A								Outfall 2 - F	Pipe Installation ι	up to seawall I	block							
Outfall 2 - Backfill	6 17-Jan-23 A									utfall 2 - Backfill									
Foot Bridge FB-02	404 05-Feb-22 A																		
Temp Ramp	196 05-Feb-22 A	-									++-+++++								
Temporary Ramp Construction		24-Jun-22 A	·																
Existing Footbridge Disable Ramp - Demolition		24-5uii-22 A 20-Aug-22 A												·					
Foundation		09-Dec-22 A																	
FB-02 Pre-drilling - LC&D	-	24-Aug-22 A																	
Lift C&D		09-Dec-22 A															·		
FB-02 H-pile Drilling	-	30-Aug-22 A							on & Grouting				· · · · · · · · · · · · · · · · · · ·	·					
FB-02 H-pile Installation & Grouting P1	-	09-Dec-22 A	·					ISIAIIAUC	on a Grouting										
		17-Nov-22 A																	
FB-02 H-pile Drilling		30-Aug-22 A					& Grouting						·····				 		
FB-02 H-pile Installation & Grouting		17-Nov-22 A		B-02 H	i-pile insta	allanon &	s Grouting												
Structure	247 13-Jun-22 A	-																	
Pile Cap		05-Jan-23 A																	
FB-02 Pipe Cap - LC&D	24 17-Dec-22 A								I FB-02 Pipe Cap - LC&D								 		
FB-02 Pipe Cap - P1	24 20-Dec-22 A								FB-02 Pipe Cap - P1	ļ									
Pier	142 13-Jun-22 A	19-Jan-23 A	· · · · · · · · · · · · · · · · · · ·																
FB-02 Pier - P4	36 13-Jun-22 A	29-Jun-22 A																	
FB-02 Pier - P5	54 01-Aug-22 A	17-Sep-22 A															.jj.		
FB-02 Pier - P1	12 06-Jan-23 A								FB-02 P	ier - P1									
Bridge Deck / Staircase	247 27-Jun-22 A	26-Jul-23																	
FB-02 Bridge deck construction Bay 1 (P3 - P4)	60 27-Jun-22 A	24-Sep-22 A	y 1 (P3 - P4)																
FB-02 Staircase A	48 28-Oct-22 A																		Staircase A
FB-02 Bridge deck construction Bay 2 (P4 - P5)	60 31-Oct-22 A	13-May-23									++-+					-;;			struction Bay 2 (P4 - I
FB-02 Bridge deck construction Bay 3 (P2 - P3)	60 03-Dec-22 A	13-May-23															FB-02	2 Bridge deck con	struction Bay 3 (P2 - I
FB-02 Bridge deck construction Bay 4 (P1 - P2)	60 01-Feb-23 A	26-Jul-23									++-	+							
Lift Shaft	159 15-Sep-22 A	07-Aug-23																	
FB-02 Lift Shaft - LA&B	36 15-Sep-22 A	14-Apr-23		· · ·			· ·								FB-02 Lift S	Shaft - LA&B	<u> </u>		
Lift Procurement	130 03-Dec-22 A	07-Aug-23									ii								
FB-02 Lift Shaft - LC&D	36 28-Feb-23	14-Apr-23											· · · · · · · · · · · · · · · · · · ·		FB-02 Lift S	Shaft - LÇ&D			
Road L10 / Road L18	94 01-Dec-22 A	05-Jul-23																	
L18 Roundabout Drainage (3 manhole)	18 01-Dec-22 A	29-Dec-22 A				1		🗖 L1	8 Roundabout Drainage (3	manhole)									
L10 Roundabout Drainage (7 manhole)	42 14-Dec-22 A	05-Jul-23																	
[STE] Kai Hing Road / Lam Chak Street Modification	772 30-Jul-22 A	07-Mar-25																	
TMLG Approved	0	30-Jul-22 A				· 								·	 				
Roadworks advice from RMO for TTA Implementation	0	20-Aug-22 A															·····		
LCS / KHR - Public Road TTMS stages	600 28-Feb-23	07-Mar-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)	139 07-Mar-22 A	31-Aug-22 A																	
Stage 5D (HBR Left Turn Lane 2)	139 07-Mar-22 A	31-Aug-22 A												·					
EMSD inspection & control box construction	9 07-Mar-22 A											· + +		·					
Change over to permanent traffic signal		31-Aug-22 A	LL 										·····	·	 I I I I I I				
Section 8D [STE] - Completion	0	31-Aug-22 A			+									·					
Section 9F [STE] - Completion	0	31-Aug-22 A				·¦								·					
Kai Hing Road and Lam Chak Street Re-routing	192 28-May-22 A	-						· ·					·····	·					
			L i	i		1	i i			1 I I			i li	i	i		i		
Page 17 of 30 Milestone															Date		ision	Checked	Approved
Data Date: 28-Feb-23		018/04	Trun	k Ro	ad T	2 2	and I	Infr	astructure	Works	s 🦯				18-Dec-19			W Yu	
Critical Ac tivity											- /	POIN	GIIEe		22-Feb-20	01V0		SPa/LLo	W Yu
Actual Milestone		fo	r Dev	elopr	nent	ts a	at So	outh	ו Apron				GUES)	09-Apr-20	01V1		SPa/LLo	W Yu
				1					•						17-Jul-20	01V2		SPa/LLo	W Yu
		Three	Month	ns Ro	llino	י Pr	roars	ami	me (Feb-2	3)					09-Oct-20	01V3		SPa/LLo	W Yu
					''''''''''	יינ	Jane			J					02-Jul-21	02V0		SPa/LLo	W Yu

Activity Name	Dur Start	Finish	2022 2023
			November December January February March April May June
TTA - KHR fast lane	12 28-May-22 A	()7lun-22 ∆	30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 02 09 16 23 30 07 14 21 28 04 11 18
TTA - KHR slow lane	12 07-Jun-22 A		+
TTA - KHR Junction Footpath		29-Jun-22 A	
CLP & HKT Administration Process		31-Aug-22 A	
[STE] Road L10 (Northern)	385 20-May-22 A		+ + + + + + + + + + + + + + + + + +
CUE L10(N) Phase 1	180 20-May-22 A	· ·	
CUE L10(N) Part 1 Wall & Top Slab Bay 3 (CH180 - 160)	10 20-May-22 A		
CUE L10(N) Part 1 Wall & Top Slab Bay 4 (CH160 - 140)	10 13-Jun-22 A	29-Jun-22 A	
CUE L10(N) Part 1 Backfill & Remove S2 (80m, 10d/20m)	32 10-Oct-22 A	15-Nov-22 A	
CUE L10(N) Part 1 Backfill & Remove S1 (80m, 10d/20m)	32 16-Nov-22 A	15-Dec-22 A	
CUE L10(N) Phase 2	171 24-May-22 A	19-Jan-23 A	
CUE L10(N) Part 2 Excavation to S2 (6800m3, 110m3/d & 2 strut layer @ 8d)	30 24-May-22 A	28-Jun-22 A	A
CUE L10(N) Part 2 S2 Strutting (8d)	8 29-Jun-22 A	05-Jul-22 A	
CUE L10(N) Part 2 Excavation to FEL (6800m3, 110m3/d & 2 strut layer @ 8d)	20 06-Jul-22 A	23-Jul-22 A	
CUE L10(N) Part 2 DL, Blinding, Waterproofing, BS (80m)	21 25-Jul-22 A	12-Sep-22 A	A g, B\$ (80m)
CUE L10(N) Part 2 Backfill & Strut S2 Removal	7 13-Sep-22 A	19-Sep-22 A	A emoval
CUE L10(N) Part 2 Wall & Top Slab Bay 1 (CH140 - 120)	8 20-Sep-22 A	28-Sep-22 A	A Slab Bay 1 (CH140 - 120)
CUE L10(N) Part 2 Wall & Top Slab Bay 2 (CH120 - 100)	10 29-Sep-22 A	08-Oct-22 A	A Vall & Top Slab Bay 2 (CH120 - 100)
CUE L10(N) Part 2 Wall & Top Slab Bay 3 (CH100 - 80)	10 10-Oct-22 A	22-Oct-22 A	A 10(N) Part 2 Wall & Top Slab Bay 3 (CH100 - 80)
CUE L10(N) Part 2 Wall & Top Slab Bay 4 (CH80 - 64)	10 24-Oct-22 A	31-Oct-22 A	A CUE L 10(N) Part 2 Wal (& Top Slab Bay 4 (GH80 - 64)
CUE L10(N) Part 2 Backfill & Remove S2 (80m, 10d/20m)	32 12-Nov-22 A	15-Dec-22 A	
CUE L10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)	32 16-Dec-22 A	19-Jan-23 A	A CUE L/10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)
CUE L10(N) Phase 3	216 18-Jul-22 A	24-Apr-23	3
CUE L10(N) Part 3 ELS (Sheet pile) (5857m2, ass. 92m2/d)	64 18-Jul-22 A	22-Oct-22 A	A 10(N) Part 3 ELS (Sheet pile) (5857m2; ass. 92m2/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	A CUE:L10(N) Part 3 Excavation to S1 (5500m3, 110m3/d & 2 strut layer @ 8d)
CUE L10(N) Part 3 S1 Strutting (8d)	8 07-Nov-22 A	15-Nov-22 A	A CUE L10(N) Part 3 S1 Strutting (8d)
CUE L10(N) Part 3 Excavation to S2 5500m3, 110m3/d & 2 strut layer @ 8d)	25 16-Nov-22 A	01-Dec-22 A	A CUE L10(N) Part 3 Excavation to \$2 5500m 3, 110m3/d & 2 strut layer @ 8d)
CUE L10(N) Part 3 S2 Strutting (8d)	8 02-Dec-22 A	12-Dec-22 A	A CUE L 10(N) Part 3 S2 \$trutting (8d)
CUE L10(N) Part 3 Excavation to FEL (5500m3, 110m3/d & 2 strut layer @ 8d)	16 13-Dec-22 A	05-Jan-23 A	
CUE L10(N) Part 3 DL, Blinding, Waterproofing, BS (60m)	21 06-Jan-23 A	19-Jan-23 A	A CUE L10(N) Part 3 DL, Blinding, Waterproofing, BS (60m)
CUE L10(N) Part 3 Backfill & Strut S2 Removal	18 12-Jan-23 A	13-Feb-23 A	A CUE L 10 (N) Part 3 Backfill & Strut S2 Removal
CUE L10(N) Part 3 Wall & Top Slab Bay 1 (CH64 - 40)	8 14-Feb-23 A	21-Feb-23 A	
CUE L10(N) Part 3 Wall & Top Slab Bay 2 (CH40 - 20)	10 22-Feb-23 A	28-Feb-23 A	A CUE L10(N) Part 3 Wall & Top Slab Bay 2 (CH40 - 20)
CUE L10(N) Part 3 Wall & Top Slab Bay 3 (CH20 - 0)	10 28-Feb-23	10-Mar-23	
CUE L10(N) Part 3 Backfill & Remove S2 (60m, 10d/20m)	24 11-Mar-23	12-Apr-23	
CUE L10(N) Part 3 Backfill & Remove S1 (60m, 10d/20m)	24 22-Mar-23	24-Apr-23	
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	16-Jul-22 A	
CUE L10(N) remain Excavation (2100m3, 110m2/d)	20 18-Jul-22 A	24-Sep-22 A	
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 L10(N) remain Backfill & Remove S1	10 15-Dec-22 A	28-Dec-22 A	A CUE L 10(N) remain Backfill & Remove S1
CUE L10(N) E&M	144 11-Mar-23	04-Sep-23	3
CUE L10(N) Watermain (200m, 30m/wk)	80 11-Mar-23	19-Jun-23	3
CUE L10(N) E&M and FSI	144 11-Mar-23	04-Sep-23	3
L10(N) Utilities	174 17-Sep-22 A	16-Jun-23	
L10(N) Stage 1 Sheet pile (1900m2, 55m2/d)	36 17-Sep-22 A	11-Nov-22 A	
L10(N) Stage 1 Excavation (2000m3, 110m3/d)	18 12-Nov-22 A	02-Dec-22 A	
L10(N) Stage 1 Drainage & Sewerage (8 manhole)	48 03-Dec-22 A	27-Feb-23 A	
L10(N) Stage 1 Drainage (34 Gully & 2 Catchpit)	46 28-Feb-23	26-Apr-23	
L10(N) Stage 1 Watermain (100m, 30m/wk)	40 28-Feb-23	19-Apr-23	
L10(N) Stage 2 Sheet pile (1179m2, 55m2/d)	22 28-Feb-23	24-Mar-23	
L10(N) Stage 2 Excavation (2610m3, 110m3/d)	24 25-Mar-23	26-Apr-23	3 L10(N) Stage 2 Excavation (2610m3, 110m3/d)
Page 18 of 30 Data Date: 28-Feb-23		fc	04 Trunk Road T2 and Infrastructure Works For Developments at South Apron Months Bolling Programme (Eeb-23)
		Inree	e Months Rolling Programme (Feb-23)



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Waterproofing & drainage	6 24-May-23	31-May-23			20 2			00 10						20	02 03	10 20	30 01		erproofing:& drainage
Landscape Soil Filling	24 01-Jun-23	-									+				· L I I I I I I I I				
WEST VENTILATION BUILDING [WVB]	679 19-May-22	A 10-Oct-24																	
Building Structure	316 19-May-22	A 22-Jul-23										·			·				
WVB - Base Slab	20 19-May-22																		
Base Slab construction Bay 1, 3 & 4	20 19-May-22		·									<u></u>							
Tower Crane Erection		30-Jun-22 A	·								+	+++							
Tower Crane Operation	0	30-Jun-22 A										++ 							
Basement Structure	271 20-Jun-22	01-Jun-23													· 				
WVB - Strut S4 Removal	18 20-Jun-22 /	15-Jul-22 A																	
WVB - Basement 2 Extenal Wall	21 05-Jul-22 A	02-Aug-22 A										÷÷							
WVB - Basement 2 External wall waterproofng & Mass Fill	18 18-Jul-22 A	16-Aug-22 A			 i i		1												
WVB - Strut S3 Removal	18 17-Aug-22	A 20-Sep-22 A																	
WVB - Basement 2 Wall/Slab	36 29-Aug-22	A 26-Nov-22 A			– V	VB - Basement 2 Wall/Slat	b	· · · · · · · · · · · · · · · · · · ·											
WVB - Strut S2 Removal	18 15-Dec-22								WVB-Str	ut S2 Removal	l :	¦¦							
WVB - Basement 1a Wall	30 13-Jan-23 /											nt 1a Wall							
WVB - Platform removal	12 31-Jan-23 /									WVB -	Plåtform	removal		<u></u>					
WVB - Basement 1 External wall waterproofing & Mass Fill	24 17-Feb-23										+	+ +		WVB	- Basement	1 External w	all waterproofr	ng & Mass Fill	
WVB - Strut S1 Removal	24 28-Mar-23											 			· +		WVB - Strut S		
WVB - Basement 1b Wall/Slab	45 04-Apr-23	01-Jun-23										÷						VVV	B - Basement 1b Wa
Superstructure	42 02-Jun-23	22-Jul-23																·····	
WVB - GF Wall + Column ABWF / E&M	42 02-Jun-23	22-Jul-23	·									÷+			·				
	0 10-Oct-24	10-Oct-24					·					++			·		·		
E&M	0 10-Oct-24																		
WVB - FSI Forms submission to FSD	0	10-Oct-24										<u> </u>							
SOUTH APRON ADIT	204 20-Jan-23 /																		
South Apron Adit - ELS & Pump Test & Strut Installation	30 20-Jan-23 /	· ·	·								+	++			South Apro			& Strut Installation	
South Apron Adit - Base Slab & Wall Kicker	11 04-Apr-23	-	·				· · · · · · · · · · · · · ·						·		·	South #	pron Adit - Ba	ase Slab & Wall Kicker	
South Apron Adit - Strut S2 Removal	11 21-Apr-23	-													·		South A	pron Adit - Strut S2 Rei	
South Apron Adit - Wall Construction	12 05-May-23		·									÷						South Apron Adit	- Wall Construction
South Apron Adit - Slab	9 19-May-23	-																South	South Apron Adi
South Apron Adit - Strut 1 Removal, Sheet Pile Cutting, Backfilling & reinstatement South Apron Adit - Utilities Installation to WVB	9 31-May-23 102 31-May-23		· · · ·									÷÷			·			·····	- South Apron Au
Stage 5 Completion - South Apron Adit between WVB & DPR for I H/O	102 31-Way-23	09-Jun-23										+++							◆ Stage 5 Comple
SUPPORTING UNDERGROUND STRUCTURE [SUS]	364 25-Jul-22 A														·		·		
Permanent Structure																			
	221 25-Jul-22 A	· ·																	
SUS - WB Partition Wall part 1	24 25-Jul-22 A											<u>.</u>			- WB Partitio				
SUS - WB Partition Wall part 2 SUS - EB Partition Wall part 1	24 19-Oct-22 / 25 28-Mar-23											$\frac{1}{1} \frac{1}{1}$					SUS - FR P	artition Wall part 1	
Tunnel Internal Structure & Finishing	315 27-Jul-22 A	· ·					ا اســـــــــــــــــــــــــــــــــــ								· L L I I I				
Westbound	235 27-Jul-22 A											<u> </u>			·				
SUS - WB - OHVD Formworks Assembly	18 27-Jul-22 A											<u> </u>			·				
SUS - WB - OHVD I oniworks Assembly SUS - WB - OHVD In-situ 320m	96 29-Aug-22		0m :									<u>+</u> +							
SUS - WB - OHVD In-situ 320m	84 10-Nov-22					ļ						·		- <u></u>			·····	·····	SUS-WB-C
SUS - WB - Fire Board - Tunnel crown	28 13-Jun-23	17-Jul-23	·																
Eastbound	108 13-Jun-23	20-Oct-23				+					+-	++++ ++++++ +++++++							
SUS - Formworks transfer to EB	12 13-Jun-23	27-Jun-23					···				+-	++							
SUS - EB - OHVD In-situ	96 28-Jun-23	20-Oct-23									+								
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	195 15-Oct-22	29-Jun-23																	
Tunnel Permanent Works	195 15-Oct-22 /																		
Cut & Cover	21 15-Oct-22						· · · ·					· · · · · · · · · · · · · · · · · · ·							
C&C - Wall Stage 1	9 15-Oct-22 /		·	C&C - Wa	all Stage							· · · · · · · · · · · · · · · · · · ·			·				
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C&C - Wall Stage 2	12	10-Nov-22 A	29-Nov-22 A		C&C - Wall Stage 2		
Carraigeway Slab	156	15-Dec-22 A	29-Jun-23				
Middle Carraigeway Slab (Pour 1)	12	18-Mar-23	01-Apr-23				· · · · · · · · · · · · · · · · · · ·
	12						Road S
Road Slab Falsework erection	4	18-Mar-23	22-Mar-23				-
Road Slab Rebar Fixing	4	23-Mar-23	27-Mar-23				R
Road Slab Concrete	1	28-Mar-23	28-Mar-23				
Road Slab Gainstrength	3	29-Mar-23	31-Mar-23				· · · · · · · · · · · · · · · · · · ·
Change Access to Middle	0	01-Apr-23					
External Carraigeway Slab (EB Pour 2 + WB Pour 3)	12	15-May-23	30-May-23	iiii			
Road Slab Falsework erection	4	15-May-23	18-May-23				
Road Slab Rebar Fixing	4	19-May-23	23-May-23				
Road Slab Concrete	1	24-May-23	24-May-23				
Road Slab Gainstrength	3	25-May-23	29-May-23				
Change Access to EB & WB	0	30-May-23					- ; ; ;
Cell 1/2	118	15-Dec-22 A	13-May-23				
Below Road Level	118	15-Dec-22 A	13-May-23				· · · · · · · · · · · · · · · · · · ·
BRL Middle Wall (Pour 1)	74	15-Dec-22 A	17-Mar-23				
Preparation works / Postdrilling	6	15-Dec-22 A			Prenarati	on works / Postdrilling	
				$ \frac{1}{p} - \cdots - \cdots - \frac{1}{p} - \cdots - \cdots - \frac{1}{p} - \cdots - \cdots - \frac{1}{p} - \cdots - \cdots - \frac{1}{p} - \cdots - \cdots - \cdots - \cdots - \cdots - \cdots - \cdots - \cdots - \cdots - $		BRL \$caffolding Erection	
BRL Scaffolding Erection	6	22-Dec-22 A	30-Dec-22 A			BRL CJ Tripping & Coupler Exposure	
BRL CJ Tripping & Coupler Exposure	1	31-Dec-22 A	10-Jan-23 A				
BRL Waterproofing & Falsework erection	6	11-Jan-23 A	06-Mar-23				BRL Waterproofing &
BRL Steel Fixing & Formworks	6	07-Mar-23	13-Mar-23				BRL Steel Fixir
BRL Wall Concrete	1	14-Mar-23	14-Mar-23	i i i i I I I I 			BRL Wall Cor
BRL Wall Gainstrength + Formworks removal	3	15-Mar-23	17-Mar-23				📕 BRL Wall
BRL External (EB Pour 2 + WB Pour 3)	32		13-May-23				
Preparation works / Postdrilling	6	01-Apr-23	12-Apr-23				
BRL Scaffolding Erection	3	13-Apr-23	15-Apr-23				
BRL CJ Tripping & Coupler Exposure	7	17-Apr-23	24-Apr-23				
BRL Waterproofing & Falsework erection	6	25-Apr-23	02-May-23				
BRL Steel Fixing & Formworks	6	03-May-23	09-May-23				
BRL Wall Concrete	1	10-May-23	10-May-23				· i - i i i i i i i
BRL Wall Gainstrength + Formworks removal	3	11-May-23	13-May-23				-++
Road Level Wall	18	30-May-23	19-Jun-23				
RL Middle Wall + External Wall	-	-					
	18	30-May-23	19-Jun-23				
Scaffolding Erection	4	30-May-23	02-Jun-23				
Steel Fixing	6	03-Jun-23	09-Jun-23				
Formworks	4	10-Jun-23	14-Jun-23				· · · · · · · · · · · · · · · · · · ·
Concreting	1	15-Jun-23	15-Jun-23				
Gainstrength + Formworks removal	3	16-Jun-23	19-Jun-23				
Above Road Level Wall	8	20-Jun-23	29-Jun-23				
ARL Middle + External Wall	8	20-Jun-23	29-Jun-23				
Scaffolding Erection	3	20-Jun-23	23-Jun-23		+		
Steel Fixing	5	24-Jun-23	29-Jun-23				- 1 - 1 - 1 L L
SUB-SEA TBM TUNNEL - WESTBOUND	429	01-Feb-22 A	08-Aug-23				
Precast Fabrication	392	01-Feb-22 A	27-Jun-23	i i i i I I I I			i i i i i I I I I I I
TBM Precast Segments	273	28-Feb-22 A	14-Apr-23				
Precast TBM Segment - 80%	36	28-Feb-22 A	05-Oct-22 A 8	0%			
Precast TBM Segment - 90%	36	06-Oct-22 A	20-Jan-23 A		+	Precast TBM Segment - 90%	
Precast TBM Segment - 100%	36	25-Jan-23 A	14-Apr-23		+		- <u>-</u>
Service Gallery	285	16-May-22 A	29-May-23		+		
Precast Service Gallery - 20%	200	16-May-22 A	18-Jul-22 A				
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Precast Service Gallery - 30%	24	19-Jul-22 A	14-Sep-22 A				
Precast Service Gallery - 40%	24	15-Sep-22 A	20-0ct-22 A ei	rvice Gallery - 40%			
ge 21 of 30 tta Date: 28-Feb-23			for	Developm	ents at Soutl		BOUYGUES TRAVAUX PUBLIC
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Precast Service Gallery - 50%	34 21-Oct-22 A			Precast Service Gallery - 50%									
Precast Service Gallery - 60%	24 30-Nov-22 A				Precast Service Gallery - 60%								
Precast Service Gallery - 70%	24 31-Dec-22 A				· · · · · · · · · · · · · · · · · · ·	Precast Service Galle	ery - 70%		i i i i				
Precast Service Gallery - 80%	24 11-Feb-23 /	27-Mar-23						Precast S	ervice Gallery -	80%			· · · · · · · · · · · · · · · · · · ·
Precast Service Gallery - 90%	24 28-Mar-23	28-Apr-23								Precast Se	ervice Gallery -	90%	<u> </u>
Precast Service Gallery - 100%	24 29-Apr-23	29-May-23							· · ·			📕 Precast S	Service Gall
OHVD Slab	392 01-Feb-22 /	27-Jun-23											
Precast OHVD Slab - Mould Fabrication & Setup	72 01-Feb-22	1-Sep-22 A	on & Setup										
Precast OHVD Slab - Inspection	12 22-Sep-22	13-Dec-22 A	·	Precast OHVD	Slab - Inspection								
Precast OHVD Slab - Mass Production Start	0 14-Dec-22 /	\		Precast OH VD	Slab - Mass Production Start				· · · · · · · · · · · · · · · · · · ·				
Precast OHVD Slab - 3%	24 14-Dec-22 /	31-Jan-23 A			Pr	ecast OH VD Slab - 3%			· · · · · · · · · · · · · · · · · · ·				
Precast OHVD Slab - 6%	24 31-Jan-23 A	27-Feb-23 A		·····		Prec	ast OHVD \$lab - 6%	0					
Precast OHVD Slab - 10%	24 28-Feb-23							Precast O	HVD \$lab - 10%	6			
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Precast OHVD Slab - 30%	24 29-Apr-23	· ·										Precast (HVD Slab -
Precast OHVD Slab - 40%	24 30-May-23	-		·									4
Site Establishment	48 10-Jun-23	08-Aug-23											
Gantry Crane Setup for TBM Assembly	48 10-Jun-23	08-Aug-23											
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Gantry Crane - Dismantling	48 10-Jun-23	08-Aug-23	····	·								·	
TBM Tunnelling	372 24-May-22 A												ļļ
WB TBM Stoppage due to Maind Drive issue	7 24-May-22 A												
WB TBM Tunnelling CH6752-6756 ALL/CDG 114m	1 18-Jul-22 A												ļ
WB TBM Tunnelling CH6756-6777 CDG/Boulder 135m	4 23-Jul-22 A	31-Jul-22 A											
WB TBM Tunnelling CH6777-6789 CDG/Boulder 147m	3 01-Aug-22 A	06-Aug-22 A					· · · · ·	!					ļ
WB TBM Tunnelling CH6789-6797 ALL/CDG 155m	38 07-Aug-22 A	12-Aug-22 A											
WB TBM Stoppage for ISIG 1 Installation	9 13-Aug-22 /	A 26-Aug-22 A											<u> </u>
WB TBM Tunnelling CH6797-7098 ALL/CDG 456m	37 27-Aug-22 A	28-Sep-22 A	098 ALL/CDG 456m										jj
WB TBM Tunnelling CH7098-7198 ALL/CDG 556m	11 29-Sep-22	06-Oct-22 A	H7098-7198 ALL/CDG 556m										}
WB TBM Tunnelling CH7198-7218 ALL/CDG 576m	2 07-Oct-22 A	07-Oct-22 A	H7198-7218 ALL/CDG 576m										
WB TBM Tunnelling CH7218-7240 CDG/Boulder 598m	3 08-Oct-22 A	09-Oct-22 A	CH7218-7240 CDG/Boulder	598m									
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WB TBM Tunnelling CH7391-7434 Boulder 792m	7 29-Oct-22 A	13-Nov-22 A	WB TBM Tunn	elling CH7391-7434 Boulder 7	/92m	+-							
WB TBM Tunnelling CH7434-7466 CDG/Boulder 824m	4 14-Nov-22 A	27-Nov-22 A	V	VB TBM Tunnelling CH7434-7	466 CDG/Boulder 824m			;					;; ; ;
WB TBM Tunnelling CH7466-7623 ALL/CDG 981m	15 28-Nov-22 A			·	WB TBM Tunne	lling CH7466-7623 ALL/CDG	981m						
WB TBM Tunnelling CH7623-7650 CDG/Boulder 1008m	4 18-Jan-23 A				🔲 🖬 WB TBM Tu	Innelling CH7/623-76/50 CDG	Boulder 1008m						ii
WB TBM Tunnelling CH7650-7722 ALL/CDG 1080m	7 22-Jan-23 A					WB TBM Tunnelling CH7	650-7722 ALL/CDG	1080m					
WB TBM Tunnelling CH7722-7792 CDG/Boulder 1150m	9 07-Feb-23 /					WB TBM Tunne		+++	1150m				
WB TBM Tunnelling CH7792-8445 ALL/CDG 1803m	53 16-Feb-23 /								V	VB TBM Tunnelli	ina CH7792-84	45 ALL/CDG	1803m
WB TBM Tunnelling CH8445-8532 CDG/Boulder 1890m	12 22-Apr-23			ii							BM Tunnelling		
WB TBM Tunnelling CH8532-8730 Boulder/Granite 2088m	39 04-May-23	-		·							-1		
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ISIG Assembly at Cell 2	12 15-Aug-22 /				· · · · · · · · · · · · · · · · · · ·					·····			
WB TBM Tunnel - Gallery B CH6642-6705 63m CP7	6 15-Sep-22	· ·	642-6705 63m CP7										
WB Sub-sea Galery B Installation started	0 15-Sep-22			······································									¦
WB TBM Tunnel - Gallery B CH6705-6803 100m CP8	11 27-Sep-22 /		ery B CH6705-6803 100m CF										
WB TBM Tunnel - Gallery B CH6803-6904 100m CP9	10 07-Oct-22 A		TBM Tunnel - Gallery B CH6										
WB TBM Tunnel - Gallery B CH6904-7004 100m CP10	8 26-Oct-22 A		WB TBM Tunnel - Gal										
WB TBM Tunnel - Gallery B CH7004-7103 100m CP11	10 07-Nov-22 /			unnel - Gallery B CH7004-710									ļļ
WB TBM Tunnel - Gallery B CH7103-7203 100m CP12	10 18-Nov-22 /			WB TBM Tunnel - Gallery B									
WB TBM Tunnel - Gallery B CH7203-7303 100m CP13	7 01-Dec-22 /			WB TBM Tunnel -	Gallery B CH7203-7303 100m CP								
WB TBM Tunnel - Gallery B CH7303-7403 100m CP14	7 12-Dec-22	10-Jan-23 A	1 1 1 1		WD TDM Tuppel Coll	ery B CH7303-7403 100m Cl	D1/I I I	- [i i	1 I I I		1	1.1.1	1 1

Page 22 of 30 Data Date: 28-Feb-23 Milestone
Planned B
Critical Act

Actual Milestone

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

Three Months Rolling Programme (Feb-23)

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

stivity Name	Dur	Start F	inish 2022			2023				
			November December 30 06 13 20 27 04 11 18 25	January 01 08 15 22	February 29 05 12 19	March 26 05 12 19 26 02	April 09 16 23 30	May 07 14	21 28 04	June 11 18 2
WB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	11-Jan-23 A 18-J	an-23 A	📕 🗖 🗰 WB ТВ	M Tunnel - Gallery B CH7403					
WB TBM Tunnel - Gallery B CH7503-7603 100m CP16	8	25-Jan-23 A 08-F	eb-23 A		WB TBM Tunniel	- Gallery B CH7503-7603 100m CP16)			
WB TBM Tunnel - Gallery B CH7603-7703 100m CP17	7	16-Feb-23 A 23-F	eb-23 A			B TBM Tunnel - Gallery B CH7603-77	'03 100m CP17		jj	
WB TBM Tunnel - Gallery B CH7703-7803 100m CP18	7	24-Feb-23 A 07-	Mar-23			WB TBM Tunnel - Gallery B	CH7703-7803 100m CP18	· · · · · ·		
WB TBM Tunnel - Gallery B CH7803-7903 100m CP19	7	08-Mar-23 15-	Mar-23			WB TBM Tunnel - G	allery B CH7803-7903 100m	CP19		
WB TBM Tunnel - Gallery B CH7903-8001 100m CP20	7		Mar-23		· · · · · · · · · · · · · · · · · · ·	4 4	nnel - Gallery BCH7903-800			
WB TBM Tunnel - Gallery B CH8001-8099 100m CP21	7	24-Mar-23 31-	Mar-23			WB	TBM Tunnel - Gallery B CH8			
WB TBM Tunnel - Gallery B CH8099-8196 100m CP22	8	01-Apr-23 14-	Apr-23				WB TBM Tunnel - (- J J J
WB TBM Tunnel - Gallery B CH8196-8299 100m CP23	14	22-Apr-23 09-I	May-23					📕 WB TBM	/ Tunnel - Gallery B	
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WB TBM Tunnel - Gallery B CH8392-8489 100m CP25	17	31-May-23 19-	Jun-23			ļiiiļi	· · · · · ·		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; 	WB 1
Forecast	46	14-Aug-22 A 18-C	Dct-22 A							
Lower ISIG into Shaft	3	14-Aug-22 A 15-A	.ug-22 A							
Gallery G-W1 to W4 by crawler crane @ 1 no/d	2	16-Aug-22 A 17-A	.ug-22 A							
Thrust Frame Removal	6	18-Aug-22 A 20-A	.ug-22 A							
Install abd Assembly of Spreader Beam	6	18-Aug-22 A 23-A	.ug-22 A							
Gallery EMVD installation by crawler crane	1	22-Aug-22 A 22-A	.ug-22 A							
ISIG Commissioning	6	24-Aug-22 A 30-A	.ug-22 A							
Gallery G-W5 to G-W11 installation by ISIG		31-Aug-22 A 12-S						·		
WB ISIG Gallery B Installation start	0	31-Aug-22 A								
Gallery B installation FTR-11 to FTR-7	3	13-Sep-22 A 13-S	ep-22 A							
Steel Bridge Installation	1	14-Sep-22 A 14-S	ep-22 A							
WB Sub-sea Galery B Installation started	0	15-Sep-22 A								
WB Gallery B CH6642-6742 100m @4nos/day	11	15-Sep-22 A 29-S	ep-22 A 00m @4nos/day							
WB Gallery B CH6742-6855 80m @6nos/day	6	30-Sep-22 A 18-C	Dct-22 A YB CH6742-6855 80m @6nos/day							
SUB-SEA TBM TUNNEL - EASTBOUND	364	22-May-22 A 26-	Aug-23							
TBM Tunnelling	359	22-May-22 A 01-	Jun-23					·····		
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m		22-May-22 A 21-J								
EB TBM Tunnelling CH 7098-7198 ALL/CDG 558m			un-22 A							
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m			lul-22 A					}		
EB TBM Tunnelling CH7218-7240 CDG/Boulder 600m			lul-22 A		······································			· · · · · · · · · · · · · · · · · · ·		
EB TBM Tunnelling CH7240-7284 ALL/CDG 644m			ul-22 A							
EB TBM Tunnelling CH7284-7379 ALL/CDG 739m			ug-22 A							
EB TBM Tunnelling CH7379-7391 CDG/Boulder 751m			ug-22 A							
EB TBM Tunnelling CH7391-7434 Boulder 794m		18-Aug-22 A 06-S								
EB TBM Tunnelling CH7434-7466 CDG/Boulder 826m		-	ep-22 A r 826m		······································			 		
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EB TBM Tunnelling CH7623-7650 CDG/Boulder 1010m			Dct-22 A g CH 7623-7650 CDG/Boulder 1010m							
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EB TBM Tunnelling CH8445-8510 CDG/Boulder 1870m			an-23 A		EB TBM Tunnelling CH8445-					
EB TBM Tunnelling CH8510-8522 ALL/CDG 1882m			an-23 A		EB TBM Tunnelling CH8510			· · · · · · · · · · · · · · · · · · ·		
EB TBM Tunnelling CH8522-8532 CDG/Boulder 1892m			an-23 A			2-8532 CDG/Boulder 1892m				
EB TBM Tunnelling CH8532-8730 Boulder/Granite 2090m			Apr-23		4		EB TBM Tunnelling CH85	32-8730 Bould	ler/Granite 2090m	
EB TBM Tunnelling CH8730-8834 Granite 2194m	21		Apr-23						2 CH8730-8834 Gra	
EB TBM Tunnelling CH8834-8979 Granite 2339m	34	· ·	Jun-23					·		BM Tunnelling CH
TBM Dismantling & Remaining Structure	72	· ·	Aug-23		iiiiiii			· · · · · · · · · · · · · · · · · · ·		
EB TBM - Dismantling - Back-up Gantries 3&4	24		Jun-23					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
EB TBM - Dismanting - Back-up Gantries 1&2	48		Jul-23							
EB TBM - Dismantling - TBM Cutterhead & Shield	72		Aug-23					·	·····	-444
Gallery B Installation			Jun-23					 		
ISIG Assembly at Cell 2		-	un-22 A							
EB Sub-sea Galery B Installation started		31-May-22 A 10-5								
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Page 23 of 30			0/01 Trunde Dead TO and Let	fracture	- \//		18-Dec-19 00	/ / /	WYu	
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CP18 - WB - Tympanum Civil works CH7803 24 01-Apr-23 04-May-23 CP19 - WB - Tympanum Civil works CH7903 24 29-Apr-23 29-May-23 CP20 - WB - Tympanum Civil works CH8001 24 05-May-23 02-Jun-23 CP21 - WB - Tympanum Civil works CH8009 24 30-May-23 27-Jun-23 EB CP Tympanum Structure 216 05-Sep-22 A 27-Jun-23 CP7 - EB - Tympanum Civil works CH6705 24 05-Sep-22 A 17-Oct-22 A								· • • • • • • • • • • • • • • • • • • •				
CP19 - WB - Tympanum Civil works CH7903 24 29-Apr-23 29-May-23 27-Jun-23 29-May-23 29-May-23 27-Jun-23 29-May-23 29-May-23 27-Jun-23 29-May-23						·		·			· · · · · · · · · · · ·	
CP20 - WB - Tympanum Civil works CH8001 24 05-May-23 02-Jun-23 CP21 - WB - Tympanum Civil works CH8099 24 30-May-23 27-Jun-23 EB CP Tympanum Structure 216 05-Sep-22 A 27-Jun-23 CP7 - EB - Tympanum Civil works CH6705 24 05-Sep-22 A 17-Oct-22 A			· · ·	-		·		· · · · · · · · · · · · · · · · · · ·			+	
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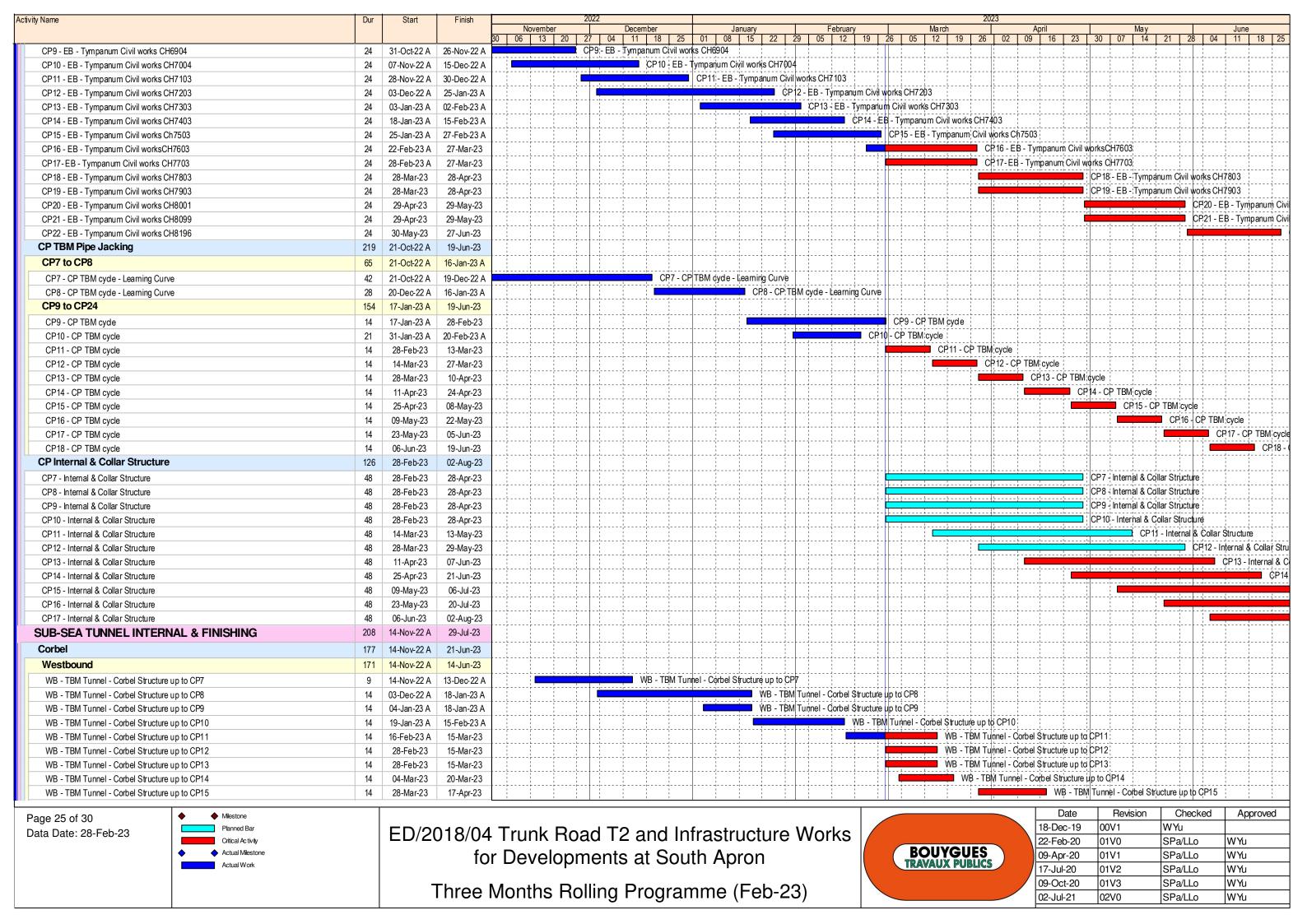
Page 24 of 30 Data Date: 28-Feb-23 Milestone
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Feb-23)

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Activity Name	Dur	Start	Finish	r		2	022								2023					
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WB - TBM Tunnel - Corbel Structure up to CP16	14	01-Apr-23	21-Apr-23	50 00	13	20 2	/ 04		20		00 13 22 29	05 12 18	9 20 05	12 19	20 02		<u>.</u>	_	Structure up to CF	
WB - TBM Tunnel - Corbel Structure up to CP17	14	29-Apr-23	16-May-23				+							· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		a al a la la la la la la la la		Corbel Structure up
WB - TBM Tunnel - Corbel Structure up to CP18	14	05-May-23	20-May-23										· 							el - Corbel Structure
WB - TBM Tunnel - Corbel Structure up to CP19	14	30-May-23	14-Jun-23		+		+						· ! - <mark>-</mark> !						·····	🧰 ŴВ - Т₿М Т
Eastbound	137	04-Jan-23 A	21-Jun-23																	
EB - TBM Tunnel - Corbel Structure up to CP9	14	04-Jan-23 A	19-Jan-23 A				+				EB - TBM Tu	innel - Corbel Struc	cture up to CP9							
EB - TBM Tunnel - Corbel Structure up to CP10	14	20-Jan-23 A	15-Mar-23				+				ii	<u> </u>		ĖB - TBM	Tunnel - Co	orbel Structure up to	0CP10			
EB - TBM Tunnel - Corbel Structure up to CP7	9	31-Jan-23 A	09-Mar-23					 				·····		EB - TBM Tunn	el - Corbel S	Structure up to CP7				
EB - TBM Tunnel - Corbel Structure up to CP8	14	31-Jan-23 A	15-Mar-23					 					· + +		-		0CP8			
EB - TBM Tunnel - Corbel Structure up to CP12	14	21-Feb-23 A	17-Apr-23				+	L						· · · · · · · · · · · · · · · · · · ·		EB - TBN	/Tunnel-Co	orbel Struc	ture up to CP12	
EB - TBM Tunnel - Corbel Structure up to CP11	14	22-Feb-23 A	29-Mar-23				+							· • • • - • - • - • -		M Tunnel - Corbel S				
EB - TBM Tunnel - Corbel Structure up to CP13	14	11-Apr-23	26-Apr-23				+	 	·				· + +						bel Structure up t	o CP13
EB - TBM Tunnel - Corbel Structure up to CP14	14	25-Apr-23	11-May-23				+							· · · · · · · · · · · · · · · · · · ·					Tunnol Corbo	l Ŝtruoturo un to CD
EB - TBM Tunnel - Corbel Structure up to CP15	14	09-May-23	24-May-23				+												ЕВ-ТВМ Т.	Inhel - Corbel Struct
EB - TBM Tunnel - Corbel Structure up to CP16	14	23-May-23	08-Jun-23																	EB - TBM Tunnel
EB - TBM Tunnel - Corbel Structure up to CP17	14	06-Jun-23	21-Jun-23				+													EB-
Fire Board - Tunnel Crown	76	28-Feb-23	02-Jun-23				+		·				· + - <mark>-</mark> +							
Westbound	69	28-Feb-23	24-May-23				<u> </u>						· .	· 			·}			
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WB - TBM Tunnel - Fire board - Tunnel Crown up to CP10		28-Feb-23	07-Mar-23										· + +		+				1	
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP11		16-Mar-23	23-Mar-23				¦								+	nnel - Fire board - T nnel - Fire board - T				
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP12	/	16-Mar-23	23-Mar-23		·											nnel - Fire board - T	unnel Crown		2	
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP13	/	16-Mar-23	23-Mar-23					 				4+		VV		nnei - Fire board - i Vi Tunnel - Fire boa	_			
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP14	/	21-Mar-23	28-Mar-23											· · · · · · · · · · · · · · · · · · ·					'	rown up to CP1;5
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP15	/	18-Apr-23	25-Apr-23											·		·····				
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP16	7	22-Apr-23	29-Apr-23											·				I Iunnel -	i <u>-</u> i	el Crown up to CP1
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP17	/	17-May-23	24-May-23					; 					· 	·						uninel - Fire boaird -
Eastbound	/6	28-Feb-23	02-Jun-23		·			· · · · · · · · · · · · · · · · · · ·												
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP9	7	28-Feb-23	07-Mar-23													- Tunnel Crown up				
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP7	4	10-Mar-23	14-Mar-23													board - Tunnel Cro				
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP8	7	16-Mar-23	23-Mar-23												+	nnel - Fire board - Ti				
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP10	7	16-Mar-23	23-Mar-23												B - IBM Tur	nnel - Fire board - Ti	-i-li		ii	
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP11	7	30-Mar-23	11-Apr-23		+													e al a a a a a al al a i	I Crown up to CP	
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP12	7	18-Apr-23	25-Apr-23					 								E	-			rown up to CP12
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP13	7	27-Apr-23	05-May-23										·	· + + + -						Tunnel Crown up to
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP14	7	12-May-23	19-May-23					 				· · · · · · · · · · · · · · · · · · ·	· + +	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				- Fire board - Tunne
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP15	1	25-May-23	02-Jun-23																EB	- TBM Tunnel - Fire
Fire Board - Road Level Wall	133	16-Feb-23 A	29-Jul-23																	
Eastbound	133	16-Feb-23 A	29-Jul-23					 				· · · · · · · · · · · · · · · · · · ·	· + +			 	· · · · · · · · · · · · · · · · · · ·			
EB - TBM Tunnel - Fire Board - Wall CPS up to CP9	18	16-Feb-23 A	23-Jun-23					ļ					· !	· +						EB
EB - TBM Tunnel - Utilities Dismantling & Removal	48	02-Jun-23	29-Jul-23					 								· · · · · · · · · · · · · · · · · · ·				
EB - TBM Tunnel - Fire Board - Wall NCPS up to CP9	18	02-Jun-23	23-Jun-23					 				· · · · · · · · · · · · · · · · · · ·								EB
EB - TBM Tunnel - Fire Board - Wall CPS up to CP12	20	24-Jun-23	18-Jul-23																	
EB - TBM Tunnel - Fire Board - Wall NCPS up to CP12	20	24-Jun-23	18-Jul-23					, , , , , , , , , , , , , , , , , , ,												
Road Barrier, Parapet & Utility Trough	18	24-Jun-23	15-Jul-23																	
Eastbound	18	24-Jun-23	15-Jul-23																	
EB - TBM Tunnel - Road Barrier, Parapet & Utility Trough CPS up to CP9	18	24-Jun-23	15-Jul-23																	
EB - TBM Tunnel - Road Barrier, Parapet & Utility Trough NCPS up to CP9	18	24-Jun-23	15-Jul-23																	
DRILL & BREAK TUNNEL [D&BR]	368	23-Dec-21 A	30-Jun-23							1										
Tunnel Excavation	363	23-Dec-21 A	31-Mar-23				+	L												
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	23-Dec-21 A		& SG	+		+													
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	50	05-May-22 A	16-Jul-22 A				+					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·						
EB - D&Br Tunnel - CH9055-9030 Type D - Excavation SG	55	27-Aug-22 A		· · · · · · · · · · · · · · · · · · ·	·		EB - D&B	Tunnel - Cl	19055-90	030 Tvpe	D - Excavation SG		·	· † 			-}			
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench	60	29-Aug-22 A		B - D&Br T	unnel -		+ 1													
										<u> </u>		<u>: </u>	<u> </u>		!! !	Date	Rev	ision	Checked	Approved
Page 26 of 30			• • • • •	. —		_	·	_								18-Dec-19	00V1		WYu	
Data Date: 28-Feb-23		ED/2	018/04	I Tru	nk	Roa	d T	2 and	d Int	tras	tructure W	Vorks 🛛				22-Feb-20	01V0		SPa/LLo	WYu
Actual Milestone													B	OUYGUE	S	09-Apr-20	01V0		SPa/LLO SPa/LLo	W Yu
Actual Work			10		vel	ohu	ents	े वा ट	bou	$\mathbf{u} \in \mathcal{F}$	pron		TRA	VAUX PUBL	ičs	17-Jul-20	01V1		SPa/LLO SPa/LLo	W Yu W Yu
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Activity Name	Dur	Start	Finish					2022										_							20
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EB - D&Br Tunnel - CH9030-9010 Type D - Excavation SG	30	29-Nov-22 A	31-Jan-23 A				20				, 20	01			LL						0-901			xcavatio	
EB - D&Br Tunnel - CH9010-8990 Type D - Excavation SG	38	01-Feb-23 A	27-Feb-23 A										-! ! !				J		- 4		EB - C	&Br Tu	nn¦el -	CH901	0-
EB - D&Br Tunnel - CH8990-8976 Type D - Excavation Bench	32	28-Feb-23 A	31-Mar-23										-,]					· Ŧ			
Cross Passage	71	01-Apr-23	30-Jun-23																	• •		· 			
CP28	24	02-Jun-23	30-Jun-23										-¦ 							·		· 			
CP28 - Grouting from WB TBM Tunnel	18	02-Jun-23	23-Jun-23										 							• +		· 			
CP28 - Open WB TBM Segment	6	24-Jun-23	30-Jun-23										-! !				1								
CP30	42	01-Apr-23	25-May-23										-; 							•		·+			
CP30 - Excavation - Drill & break	30	01-Apr-23	11-May-23										 							• +		·			
CP30 - Base Slab & Kicker	12	12-May-23	25-May-23		·									// 											
DRILL & BLAST TUNNEL [D&BL]	633	11-Apr-22 A	18-Sep-23										-,												
Tunnel Excavation	36	01-Aug-22 A	23-Nov-22 A		L									· · · · · · · · · · · · · · · · · · ·						• • • • • • • •	+				
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Full Face Drill & Blast	36	01-Aug-22 A		i																					
WB - D&BI Tunnel - 80 Extension Excavation	36	01-Aug-22 A	23-Nov-22 A	i		k.	WB	- D&BI 1	 Funinel -	80 Ext	en'sion F	- 	 ທີ່ກ												
Tunnel Structure WB Type A	305	02-Jul-22 A	12-Jul-23																	• • • • • • •		· ¦			
SUS - EB OHVD	96	28-Feb-23	27-Jun-23																		+	· +			
SUS - OHVD Formwork Relocation (EB to Branch)	12	28-Jun-23	12-Jul-23		·															•		· <u>+</u>			
TBM Dismantling Preparation	99	28-Nov-22 A	29-Mar-23																	• • • • • • •					
	12	28-Nov-22 A	10-Dec-22 A								M Disma	ntling	Diemar	tling Ca	worn		dmont								
WB - TBM Dismantling - Dismantling Cavern Enlargement WB - TBM Dismantling - Dismantling Gantry Installation	26	28-Feb-23	29-Mar-23						v v											·		· 			ī
SG Preparation	233	02-Jul-22 A	14-Apr-23		·															• • • • • • •		· 4			
· · ·		02-Jul-22 A	07-Jul-22 A																						
WB - Bay 4 - CH9172-9179 - Kicker (SG side)	5		07-Jul-22 A 09-Jul-22 A																			·			
WB - Bay 5 - CH9179-9191 - Kicker (SG side) WB - Bay 6 - CH9191-9203 - Kicker (SG side)	5	05-Jul-22 A 03-Feb-23 A	09-Jui-22 A 09-Feb-23 A																Bay 6	сна	101_0	203 - KI	ckor (SG side	
WB - Bay 11 - CH9251-9258 - Kicker (SG side)	5	05-Feb-23 A	10-Mar-23 A																uay 0 -		+			y 11 - C	
WB - Bay 10 - CH9239-9251 - Kicker (SG side)	5	11-Mar-23	16-Mar-23																	•				B-Bay	
WB - Bay 9 - CH9227-9239 - Kicker (SG side)	5	30-Mar-23*	04-Apr-23		·								, 							• • • • • • •					
WB - Bay 3 - CH9160-9172 - Kicker (SG side)	5	06-Apr-23	14-Apr-23																- +	• • • • • • •		· ¦			
SG Installation	5	28-Feb-23	04-Mar-23																						
WB - Bay 11 - CH9251-9258 - SG Installation	2	28-Feb-23	01-Mar-23																	· · · · · · · · ·	WB	- Bay 1	1 - 'C⊦	19251-9	12!
WB - Bay 10 - CH9239-9251 - SG Installation	3	02-Mar-23	04-Mar-23										-							• +	+			CH923	
Kicker	68	29-Dec-22 A	22-Mar-23											{						· +					
WB - Bay 9 - CH9227-9239 - Kicker (non SG side)	5	29-Dec-22 A										,	WB - B	av 9 - C	H9227	-9239	- Kick	er (non	SG sid	le)					
WB - Bay 8 - CH9215-9227 - Kicker (non SG side)	5	03-Jan-23 A	07-Jan-23 A		·								.i	- Bay 8			4								
WB - Bay 7 - CH9203-9215 - Kicker (non SG side)	5	06-Jan-23 A	11-Jan-23 A										-i	NB-Ba					- +	· +	÷	·+			
WB - Bay 6 - CH9191-9203 - Kicker (non SG side)	5	10-Jan-23 A	14-Jan-23 A											WB -	5		1		_ 1 _^	· ·	1^)			
WB - Bay 5 - CH9179-9191 - Kicker (non SG side)	5	13-Jan-23 A	18-Jan-23 A										-i	 W			4			· •					
WB - Bay 4 - CH9172-9179 - Kicker (non SG side)	5	16-Jan-23 A	20-Jan-23 A										-{ 	(4			· ÷		G side)			
WB - Bay 3 - CH9160-9172 - Kicker (non SG side)	5	18-Jan-23 A	26-Jan-23 A													WΒ -	Bay 3	- CH91	60-917	2 - Ki	cker (non¦SG	side)		
WB - Bay 10 - CH9239-9251 - Kicker (non SG side)	5	13-Feb-23 A	17-Feb-23 A																WB	Bay	10 - C	H9239-	9251	- Kicker	r (
WB - Bay 11 - CH9251-9258 - Kicker (non SG side)	5	17-Mar-23	22-Mar-23										 									· i		∎ ŴB	- 1
Base Slab	101	03-Jan-23 A	09-May-23										- 												
WB - Bay 5 - CH9179-9191 - Base Slab	3	03-Jan-23 A	05-Jan-23 A								·		WB - E	Bay 5 - C	CH917	9-919	1¦- Ba	se Slab	- +		+				
WB - Bay 11 - CH9251-9258 - Base Slab	3	23-Mar-23	25-Mar-23														 							🗖 🛛	/E
WB - Bay 10 - CH9239-9251 - Base Slab	3	27-Mar-23	29-Mar-23																						l
WB - Bay 9 - CH9227-9239 - Base Slab	6	30-Mar-23	06-Apr-23																						
WB - Bay 8 - CH9215-9227 - Base Slab	6	11-Apr-23	17-Apr-23										 	· · ·											
WB - Bay 7 - CH9203-9215 - Base Slab	6	18-Apr-23	24-Apr-23										¦	 			¦								
WB - Bay 6 - CH9191-9203 - Base Slab	6	25-Apr-23	02-May-23	l										ļ			¦								
WB - Bay 4 - CH9172-9179 - Base Slab	3	03-May-23	05-May-23														; 				+				
WB - Bay 3 - CH9160-9172 - Base Slab	3	06-May-23	09-May-23										-				1		-						

Page 27 of 30 Data Date: 28-Feb-23 Milestone
 Planned Bar
 Critical Activity
 Actual Mileston

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

Three Months Rolling Programme (Feb-23)

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20

02-Jul-21

01V1

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Waterproofing Rebar	6 3	30-Mar-23	06-Apr-23	00 00	13	20 2	/ 04		23			12 19	20 03	12 13	20 02	09 10	23 30			
WB - Bay 10-11 Waterproofing		30-Mar-23	06-Apr-23				+							+		WB - Bay 10)-11 Waterpro	ofina		
Tunnel Structure EB Type A		6-May-22 A	29-Jun-23				+							÷						
SG Preparation		-	19-Aug-22 A																	
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EB - Bay 5-8 SG Preparation		6-May-22 A	19-Jul-22 A																	
EB - Bay 6 - CH9201-9213 - Kicker (SG side)			27-Jun-22 A					 						¦				÷		
EB - Bay 4 - CH9177-9189 - Kicker (SG side)			29-Jun-22 A					 												
EB - Bay 5 - CH9189-9201 - Kicker (SG side)		0-Jun-22 A	05-Jul-22 A					 												
EB - Bay 2.2 - CH9159-9165 - Kicker (SG side)		2-Jul-22 A	16-Jul-22 A											ļ						
EB - Bay 3 - CH9165-9177 - Kicker (SG side)		3-Jul-22 A	18-Jul-22 A																	
EB - Bay 2.1 - CH9147-9159 - Kicker (SG side)		6-Jul-22 A	21-Jul-22 A					 						¦						
EB - Bay 1 - CH9135-9147 - Kicker (SG side)	5 09	9-Aug-22 A	13-Aug-22 A					, , , , , , , , , , , , , , , , , , , ,												
EB - Bay 7 - CH9213-9225 - Kicker (SG side)	5 15	5-Aug-22 A	19-Aug-22 A				<u> </u>		<u>}</u>					 				<u>.</u>		
SG Installation	3 06	6-Jun-22 A	11-Jun-22 A																	
EB - Bay 7 - CH9213-9225 - SG Installation	3 06	6-Jun-22 A	11-Jun-22 A											÷						
Kicker	35 01	1-Jun-22 A	16-Sep-22 A					 						1						
EB - Bay 5 - CH9189-9201 - Kicker (non SG side)	5 01	1lun-22 A	07-Jun-22 A	i								· · · · · · · · · · · · · · · · · · ·		ii	·					
EB - Bay 6 - CH9201-9213 - Kicker (non SG side)		6-Jun-22 A	10-Jun-22 A				+ <u>-</u>		·					+						
EB - Bay 2.2 - CH9159-9165 - Kicker (non SG side)		7-Jun-22 A	23-Jun-22 A				<u> </u>	·						·						
		7-Jun-22 A 6-Jul-22 A	23-Juli-22 A 11-Jul-22 A																	
EB - Bay 3 - CH9165-9177 - Kicker (non SG side)		6-Jul-22 A 8-Jul-22 A	23-Jul-22 A						·											
EB - Bay 7 - CH9213-9225 - Kicker (non SG side)				C aida)				 				+								
EB - Bay 4 - CH9177-9189 - Kicker (non SG side)			16-Sep-22 A																	
Base Slab			31-Aug-22 A					, , , , , , , , , , , , , , , , , , ,												
EB - Bay 1 - CH9135-9147 - Base Slab			05-Aug-22 A											¦				ļ		
EB - Bay 2.1 - CH9147-9159 - Base Slab			10-Aug-22 A											ļ						
EB - Bay 2.2 - CH9159-9165 - Base Slab	5 11	1-Aug-22 A	13-Aug-22 A					 						¦						
EB - Bay 3 - CH9165-9177 - Base Slab	5 15	5-Aug-22 A	17-Aug-22 A																	
EB - Bay 4 - CH9177-9189 - Base Slab	5 18	8-Aug-22 A	20-Aug-22 A																	
EB - Bay 5 - CH9189-9201 - Base Slab	5 22	2-Aug-22 A	24-Aug-22 A																	
EB - Bay 6 - CH9201-9213 - Base Slab	5 25	5-Aug-22 A	27-Aug-22 A																	
EB - Bay 7 - CH9213-9225 - Base Slab	5 29	9-Aug-22 A	31-Aug-22 A					 						+						
Waterproofing Rebar	86 08	8-Aug-22 A	22-Sep-22 A											÷						
EB - Bay 1-4 UU rearrange			17-Aug-22 A				+							+						
EB - Bay 1 Waterproofing			13-Aug-22 A				+					· · · · · · · · · · · · · · · · · · ·		ii	·					
EB - Bay 2.1 Waterproofing		-	15-Aug-22 A				+													
EB - Bay 2.2 Waterproofing			20-Aug-22 A				+													
EB - Bay 3 Waterproofing			26-Aug-22 A 26-Aug-22 A					 												
EB - Bay 4 Waterproofing			29-Aug-22 A					I I I						1 L						
EB - Bay 5-8 UU rearrange			22-Sep-22 A																	
EB - Bay 5 Waterproofing			02-Sep-22 A					; 							·		·			
EB - Bay 6 Waterproofing			03-Sep-22 A					 												
Lining		0-Aug-22 A	23-May-23																	
EB - Lining Fwk Type A Assembly	30 10	0-Aug-22 A	16-Nov-22 A		E	B - Lining	Fwk Type	AAssembly						¦						
EB - D&BI Tunnel - CH9225-9135 Type A&B - Lining Structure	40 17	7-Nov-22 A	19-Apr-23								· · · ·	· · · · · · · · · · · · · · · · · · ·					EB - D&BI Tu	nnel - CH92	225-9135 Type A&B - D&BI Tunnel - CH922	Lining Structure
EB - D&BI Tunnel - CH9225-9240 Type A&B - Lining Structure	16 2	20-Apr-23	09-May-23															EB-	D&BI Tunnel - CH922	25-9240 Type A&B
EB - Lining Fwk Type A Dismantling (Portal)	12 1	10-May-23	23-May-23																EB - Lining F	wk Type A Disma
OHVD	30 2	24-May-23	29-Jun-23																	
EB - OHVD Slab Fwk Type A Assembly	30 24	4-May-23*	29-Jun-23		<u>-</u>		+	·						·						
Tunnel Structure EB Type C		3-May-22 A	28-Jul-23				+							·						
EB - D&BI Tunnel - CH9135-9100 Type A - SG Installation			21-Jun-22 A					 												
EB - D&BI Tunnel - CH9135-9100 Type A - SG Installation		-	03-Sep-22 A											+						
EB - D&BI Tunnel - CH9135-9100 Type A - Rickel		2-Jun-22 A 4-Sep-22 A			1 35_010		Raco dob	· · · · · · · · · · · · · · · · · · ·												
· ·		· ·	15-Oct-22 A			у туре А-	Dape SId0		Farth Me	t 12-17 Installation										
EB - Earth Mat 12-17 Installation	12 06	6-Oct-22 A	16-Dec-22 A	1	I		1	CD-I										1 1	<u> </u>	
Page 28 of 30 Milestone																	Date	Revisior		Approved
Data Date: 28-Feb-23		-ח	112/0/	1 Tri	ink	Roa	d T	2 and	l Inf	rastructi		rke 🖌						0V1	WYu	
Critical Activity								_								\		1V0	SPa/LLo	WYu
Actual Milestone			fr	or De	yel	onm	ente	s at S	Sout	h Apron	1			DUYG	UES	09-A	pr-20 0	1V1	SPa/LLo	W Yu
Actual Work						~P''			Jui				TRA	VAUX PL	IRFICE	17-Ji	ul-20 0	1V2	SPa/LLo	W Yu
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Activity Name	Dur	Start	Finish	2022						2023			
			3		ember 1 18 25	5 01 08	January 3 15 22	Februar 29 05 12	ary 2 19 1	March 26 05 12 19 26 02 0	April	May	June 04 11 18 2
EB - Earth Mat 12-17 Drilling, Installation and Testing	18	07-Oct-22 A	14-Dec-22 A				ng, Installation and		. 13				
EB - D&BI Tunnel - CH9100-9050 Type A - SG Preparation	49	18-Oct-22 A	13-Dec-22 A				0-9050 Type A - S						ddd
EB - D&BI Tunnel - CH9100-9050 Type A - SG Installation	58	19-Oct-22 A	24-Dec-22 A		E	B - D&BI Tunr	el - CH9100-9050	Type A - SG Ins	tallation				
EB - Earth Mat 12-17 Drilling	15	25-Nov-22 A	20-Dec-22 A		EB-E	Earth Mat 12-1	7 Drilling						
EB - D&BI Tunnel - CH9100-9050 Type A - Kicker	25	07-Dec-22 A	07-Feb-23 A					EB-D	&BI Tunnel	-CH9100-9050 Type A - Kicker			
EB - Earth Mat 12-17 Testing	1	17-Dec-22 A	17-Dec-22 A		EB-Ear	rth Mat 12-17	esting		1				
EB - D&BI Tunnel - CH9100-9050 Type A - Base slab	28	20-Dec-22 A	15-Feb-23 A						EB - D&BI	Tunnel - CH9100-9050 Type A - Base sla	D		
EB - D&BI Tunnel - CH9135-9050 Type C - Wall (6m bay, 15bay, 5d/bay)	75	16-Feb-23 A	01-Jun-23		· · · · · · · · · · · · · · · · · · ·	1							EB - D&BI Tunnel - CH
EB - D&BI Tunnel - A/C/E Junction End Wall	52	27-May-23	28-Jul-23										
Tunnel Structure EB Type A (D&Br)	138	01-Apr-23	18-Sep-23										
EB - D&BI Tunnel - CH8988-9050 Type A - SG Preparation	17	01-Apr-23	25-Apr-23								EB - D&BI Tu	nn¦el - CH18988-9050 T	ype A - SG Preparation
EB - D&BI Tunnel - CH8988-9050 Type A - SG Installation	12	26-Apr-23	10-May-23									EB - D&BI Tunnel - C	H8988+9050 Type A - S
EB - D&BI Tunnel - CH8988-9050 Type A - Kicker	30	11-May-23	15-Jun-23										EB - D&B
EB - D&Br TBM Chamber - Kicker	6	05-Sep-23	11-Sep-23										······································
EB D&Br TBM Chamber - Temp Base Slab	6	12-Sep-23	18-Sep-23										
Tunnel Structure S01 Branch Tunnel	242	11-Jul-22 A	25-May-23			1							
EB - D&BI Tunnel - S01 Branch Tunnel - Drainage Installation	40	11-Jul-22 A	05-Nov-22 A	EB - D&BI Tunnel - S01 Branch Tur	nel - Drainage	e Installation			++-				
EB - D&BI Tunnel - S01 Branch Tunnel - Base Slab & Kicker (3d/bay)	21	20-Jul-22 A	19-Nov-22 A	EB - D&BI Tunnel - SI			b&Kicker(3d/bay	()					
EB - Lining Fwk S01 Branch Tunnel Assembly	30	11-Mar-23	19-Apr-23				·				EB - Lin¦ing Fwk S0	Branch Tunnel Asse	nbly
EB - D&BI Tunnel - S01 Branch Tunnel - Lining Structure (5d/bay, 145 - 215)	30	20-Apr-23	25-May-23									EB D	&BI Tunnel - \$01 Branc
Cross Passage	379	11-Apr-22 A	24-Jul-23										·
CP33	379	11-Apr-22 A	24-Jul-23										
EB - D&BI Tunnel - CP33 48m (37 blasts)	47	11-Apr-22 A	20-Jun-22 A										
EB - D&Br Tunnel - CP33 (5m plug)	36	12-Dec-22 A	14-Apr-23						++-		EB - D&Br Tunnel - CP3	3 (5m plug)	
CP33 - Exc. for Drainage	18	15-Apr-23	06-May-23								CP	33 - Exc. for Drainage	
CP33 - Base slab / Kicker	12	08-May-23	20-May-23		l		·		++-				e slab / Kicker
CP33 - Junction Sturcture	52	22-May-23	24-Jul-23						++-				·
EAST VENTILATION BUILDING [EVB]	770	05-Mar-22 A	08-Nov-24										
Excavation		05-Mar-22 A	20-Aug-22 A						++-		·		
Eastbound		05 Mar 22 A	-						++-				
			-						++-		· · · · · · · · · · · · · · · · · · ·		· · · · · · · ·
Eastbound Excavation		05-Mar-22 A											
Foundation / Portal Structure	363	21-Apr-22 A	05-Aug-23		·								
Westbound	363	21-Apr-22 A	05-Aug-23										
EVB - WB Drainage & Blinding		21-Apr-22 A	19-Jul-22 A		· · · · · · · · · · · · · · · · · · ·				++-	·····			
EVB - WB Foundation & SG Level Walls & Slab	91	20-Jul-22 A	27-Mar-23						+ + -	ЕИВ - WB F	oundation & SG Level Walls &	Slab	
EVB - WB Tunnel & Plenum Level Wall & Column	48	28-Mar-23	29-May-23									E\	B-WBlunnel&Plenu
EVB - WB Tunnel & Plenum Level Beam & Slab	36	11-May-23	23-Jun-23										E
EVB - WB Tunnel Mezzanine Level Wall & Column	36	24-Jun-23	05-Aug-23										
Eastbound		22-Aug-22 A	08-Jul-23								·		
Trench Excavation	18	22-Aug-22 A	30-Sep-22 A										
EVB - EB Earth Mat Installation	12	03-Oct-22 A	08-Oct-22 A	nstallation									
EVB - EB Drainage & Blinding	18	10-Oct-22 A		B Drainage & Blinding									· · · · · · · · · · · · · · · · · · ·
EVB - EB Foundation & SG Level Walls & Slab	60	24-Oct-22 A	20-Feb-23 A						EVB	- EB Foundation & SG Level Walls & Slat			
EVB - EB Tunnel & Plenum Level Wall & Column	48	28-Feb-23	28-Apr-23								EVB - EB		{
EVB - EB Tunnel & Plenum Level Beam & Slab	36	12-Apr-23	24-May-23				·					₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	B Tunnel & Plenum Le
EVB - EB Tunnel Mezzanine Level Wall & Column	36	25-May-23	08-Jul-23						+ + + + + - + + - + + - + + + - +				
T&C/FSI	0	08-Nov-24	08-Nov-24										
EVB - FSI Forms submission to FSD	0	00 - 1	08-Nov-24				·					· · · · · · · · · · · · · · · · · · ·	
TUNNEL E&M INSTALLATION & COMMISSIONING	86	28-Feb-23	14-Jun-23					ļ	<u>+</u> +-				
TKO-LTT Admin Building	86	28-Feb-23	14-Jun-23										
Material Delivery	6	28-Feb-23*	06-Mar-23				1 I I I			Material Delivery			
Cable Trunking and Tray Installation	36	07-Mar-23	21-Apr-23								Cable Trunking ar	nd Tray Installation	
Page 29 of 30 Data Date: 28-Feb-23			for	Trunk Road T2 ⁻ Developments <i>M</i> onths Rolling F	at So	uth A	oron		6	BOUYGUES TRAVAUX PUBLICS	Date Rev 18-Dec-19 00V1 22-Feb-20 01V0 09-Apr-20 01V1 17-Jul-20 01V2 09-Oct-20 01V3 02-Jul-21 02V0	ision Check WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo SPa/LLo	ed Approved WYu WYu WYu WYu WYu WYu

lictivity Name	Dur	Start	Finish				202	22															2023									
			-		Novem	nber			Decen	nber			Jan	uary			Februar	/			Ma rch			A	oril			May			June	
				30 0	6 13	3 20) 27	04	11	18	25	01	08	15	22 29	05	12	19	26	05	12	19 2	6 02	09	16	23 3	0 07	14	21	28 04	11	18 2
Submain Power Supply Installation	12	07-Mar-23	20-Mar-23																			Subma	ain Pow	er Supply	Install	tion						
Conduit Installation	24	21-Mar-23	21-Apr-23		1				-	-	1		-				1			1						Conduit I	nstål latio	on¦				
Cable Pulling	24	21-Mar-23	21-Apr-23																		1					Cable Pu	ılling					
Final Circuit Installation	8	22-Apr-23	02-May-23																ļ								Final C	Circuit Ins	stallation			
Testing & Commissioning	36	03-May-23	14-Jun-23															++		+-					 			!			T C	Festing & C
ER1.4.25 (L) construction of TKO-LTT is planned to complete in 2021	0		14-Jun-23																												• E	R1.4.25 (
STATUTORY INSPECTION / HANDOVER	0	01-Apr-25	01-Apr-25																													
Route-wide Fire Service Inspection	0	01-Apr-25	01-Apr-25															;;·		÷					;							
FSI - Forms submission to FSD	0		01-Apr-25															;;·	<u>+</u>						;							
EXECUTIVE SUMMARY	0	09-Mar-23	09-Mar-23																													
General	0	09-Mar-23	09-Mar-23															÷÷														
KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0		09-Mar-23*								 !							÷÷·		• K	D-5 Sta	ge 3'A -	Design	Approval	for Sta	e 3B [DO	C+1212	cd]				
KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0		09-Mar-23*																	• K	D-7 \$ta	ge 4¦A -	Design	Approval	for Sta	e 4B [DO	C+1212	cd]				

Page 30 of 30 Data Date: 28-Feb-23



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

Three Months Rolling Programme (Feb-23)

BOUYGUES TRAVAUX PUBLIC

	Date	Revision	Checked	Approved
	18-Dec-19	00V1	W Yu	
	22-Feb-20	01V0	SPa/LLo	WYu
S	09-Apr-20	01V1	SPa/LLo	WYu
CS	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 2023 (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	i. Plastics	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	46.616	0.290	0.000	45.647	0.968	0.000	0.000	0.000	0.000	0.000	0.047
February	48.830	0.232	0.000	48.279	0.550	0.000	0.000	0.000	0.000	0.000	0.063
March											
April											
May											
June											
Sub-total	95.445	0.522	0.000	93.927	1.518	0.000	0.000	0.000	0.000	0.000	0.110
July											
August											
September											
October											
November											
December											
Total	95.445	0.522	0.000	93.927	1.518	0.000	0.000	0.000	0.000	0.000	0.110

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).