Civil Engineering and Development Department

Trunk Road T2 (under EP-458/2013/C)

Monthly Environmental Monitoring and Audit Report for March 2022

(version 1.0)

Approved By	
-	(Mr. KS Lee,
	Environmental Team Leader)

REMARKS:

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

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

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13 April 2022

Ref.: CEDKTDT2EM00_0_0339L.22

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 (March 2022) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for March 2022 (Version 1.0) certified by the ET Leader and provided to us via email on 13 April 2022. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection as per Condition 4.4 of EP-458/2013/C.

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 By Fax: 2739 0076 By Email By Fax: 3107 1388

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TABLE OF CONTENTS

		Page
EX	XECUTIVE SUMMARY	1
	Introduction	
	Summary of Main Works Undertaken and Key Measures Implemented	
	Environmental Monitoring Works	
	Key Information in the Reporting Month Reporting Changes	
	Future Key Issues	
1	INTRODUCTION	
-	Background	
	Purpose of the Report	
	Project Organizations	
	Construction Activities undertaken during the Reporting Month	7
	Summary of EM&A Requirements	
	Status of Environmental Licensing and Permitting	
2	AIR QUALITY	9
	Monitoring Requirement	
	Monitoring Locations	
	Monitoring Parameters and Frequency	
	Monitoring Equipment	
	Monitoring Methodology Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
3	NOISE	15
	Monitoring Requirements	
	Monitoring Locations	
	Monitoring Parameters, Frequency and Duration	15
	Monitoring Equipment	
	Monitoring Methodology and QA/QC Procedure	
	Maintenance and Calibration Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
4	WATER QUALITY	
	Monitoring Requirement	
5	WASTE MANAGEMENT	19
6	ECOLOGY	20
7	FISHERIES	20
8	CULTURAL HERITAGE	20
9	LANDSCAPE AND VISUAL IMPACT	21

10	LANDFILL GAS MONITORING	21
	Monitoring Requirement	21
11	HAZARD TO LIFE	21
12	ENVIRONMENTAL AUDIT	22
	Site Audits	
	Implementation Status of Environmental Mitigation Measures	
	Implementation Status of Event and Action Plans	23
13	ENVIRONMENTAL NON-CONFORMANCE	23
	Summary of Complaint, Warning, Notification of any Summons and Successful Pr	cosecution23
	Summary of Exceedance	23
14	FUTURE KEY ISSUES	23
	Monitoring Schedule	23
CO	NCLUSIONS AND RECOMMENDATIONS	24
	Conclusions	24
	Recommendations	

LIST OF TABLES

Table I	Non-compliance (exceedance) Record for the Project in the Reporting Month
Table II	Monthly Complaints, Notifications of Summons and Successful Prosecutions in the
	Reporting Month
Table III	Summary of Complaints Details in Reporting Month
Table IV	Summary Table for Site Activities in the next Reporting Period
Table 1.1	Key Project Contacts
Table 1.2	Summary of Environmental License and Permit
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Frequency and Parameters of Air Quality Monitoring
Table 2.3	Air Quality Monitoring Equipment
Table 2.4	Major Dust Source during Air Quality Monitoring
Table 2.5	Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report
Table 2.6	Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report
Table 3.1	Noise Monitoring Stations
Table 3.2	Frequency and Parameters of Noise Monitoring
Table 3.3	Noise Monitoring Equipment
Table 3.4	Other Noise Source Identified during Noise Monitoring
Table 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report
Table 10.1	Landfill Gas Monitoring Equipment (not used)
Table 12.1	Observations and Recommendations of Site Audit

LIST OF FIGURES

- Figure 1 Site Layout Plan
- Figure 1.2 Organizational Structure for Environmental Management
- Figure 2 Locations of Air Quality and Construction Noise Monitoring Stations

LIST OF APPENDICES

- Appendix A Action and Limit Levels
- Appendix B Copies of Calibration Certificates
- Appendix C Weather Information
- Appendix D Environmental Monitoring Schedules
- Appendix E 1-hour TSP Monitoring Results and Graphical Presentations
- Appendix F 24-hour TSP Monitoring Results and Graphical Presentations
- Appendix G Noise Monitoring Results and Graphical Presentations
- Appendix H Waste Generation in the Reporting Month
- Appendix I Site Audit Summary
- Appendix J Environmental Mitigation Implementation Schedule (EMIS)
- Appendix K Record of Landfill Gas Monitoring by Contractor (not used)
- Appendix L Event and Action Plans
- Appendix M Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- Appendix N Summary of Exceedance
- Appendix O Tentative Construction Programme

EXECUTIVE SUMMARY

Introduction

1. This is the 23rd Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of March 2022.

Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
 - West bound Drill & Blast Tunnel, Service Gallery Drill & Blast, Service Gallery A Installation, RC Structure Construction
 - East bound Service Gallery Drill & Blast, Enlargement Drill & Blast, Type C Bench Drill & Blast, RC Structure Construction
 - CKL Junction Reinstatement works
 - East Ventilation Building WB Excavation, Excavation
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Construction Noise

- Construction activities were scheduled to minimize noise nuisance to the nearby sensitive receiver.
- Use of Quality Powered Mechanical Equipment (QPME) on site.
- Erected the noise barrier on site.

Air Quality

• Regularly watering on site to avoid dust generation.

Landscape and Visual

• Tree protection zones were fenced off to protect the existing trees on site.

Environmental Monitoring Works

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

Environment al Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken	
	Action Level	Limit Level	Action Level	Limit Level		
Air Quality	0	0	0	0	N/A	
Noise	0	1	1	0	Detail refer to App M	
Marine Water Quality	N/A	N/A	N/A	N/A	N/A	
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A	
Ecological	N/A	N/A	N/A	N/A	N/A	
Cultural Heritage	N/A	N/A	N/A	N/A	N/A	
Landfill Gas	N/A ⁽¹⁾	N/A	N/A ⁽¹⁾	N/A	N/A	

 Table I
 Non-compliance (exceedance) Record for the Project in the Reporting Month

Note: (1): No Action Level for Landfill Gas Monitoring.

Air Quality Monitoring

- 6. No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- 7. No Action/Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

- 8. One (1) Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table III**.
- 9. One (1) Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month. Detail shall refer to **Appendix N**.

Water Quality Monitoring

- 10. Groundwater quality monitoring had been suspended since October 2019 upon the agreement by EPD. Further details should be founded at **Section 4.1**.
- 11. No marine water quality monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.
- 12. As the construction activity is approximately 120m away from the piezometer gate, no piezometer monitoring is required.

Waste Management

13. Wastes generated from this Project include inert construction and demolition (C&D) materials, and non-inert C&D materials. Details of waste management data is presented in **Appendix H**.

Ecological Monitoring

14. No coral monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.

Fisheries Impact Monitoring

15. No specific fisheries monitoring programme is required during the construction phase.

Monitoring on Cultural Heritage

16. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, no monitoring on cultural heritage is required.

Landscape and Visual Monitoring and Audit

17. The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Section 12**.

Landfill Gas Monitoring

18. Monitoring of landfill gases was commenced in December 2016. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required

Hazard to Life Monitoring

19. No environmental monitoring and audit is required as no hazard assessment was conducted.

Environmental Site Inspection

20. Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Environmental Team. Details of the audit findings and implementation status are presented in **Section 12**.

Key Information in the Reporting Month

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

Table II Summary of Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month

Event	Event Details		Action Taken	Status	
Event	Number	Nature	Action Taken	Status	
Complaints Received	1	Noise	Detail refer to App M	Closed	
Notifications of any summons & prosecutions received	0		N/A	N/A	

22. Summary of complaints received in the reporting month is tabulated in Table III.

Table III	Summary of Com	plaints Details in	Reporting Month
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Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
Noise nuisance generated from the construction activities at Portion T1.	According to the investigation result for the 1 st and follow-up complaint, the construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance	 A valid CNP was hold the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE1201-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received

Reporting Changes

23. No reporting change in the reporting month.

Future Key Issues

24. 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

	Site Activities (April 2022)	Key Environmental Issues
1.	West bound – Drill & Blast Tunnel, Service Gallery Drill & Blast, Service Gallery A Installation, RC Structure Construction	
2.	East bound – Service Gallery Drill & Blast, Enlargement Drill & Blast, Type C Bench Drill & Blast, RC Structure Construction, Service Gallery A Installation	(A) / (B) / (C) / (D)
3.	CKL Junction Reinstatement works	
4.	East Ventilation Building - WB Excavation, WB Earthmat & Drainage, Excavation	
5.	CP33 – Excavation	

Note:

(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.

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 3.0km long with about 2.7km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. The EM&A programme under this Contract is governed by the two EPs (EP-451/2013 and EP-458/2013/C) and two EM&A Manuals (AEIAR-174/2013 and AEIAR-173/2013). The work areas of the T2 Main Works are shown in **Figure 1** and the works to be executed under this Contract and corresponding EPs are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>Trunk Road T2</u>
	• Construction of highway and sub-sea tunnel connecting between
	Central Kowloon Route and Cha Kwo Ling Tunnel
	Western & Eastern Ventilation Buildings
EP-458/2013/C – Tseung Kwan O –	Cha Kwo Ling Tunnel
Lam Tin Tunnel (TKOLTT) and	Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2
Associated Works	to the TKOLTT at the Eastern Ventilation Building

Monitoring Works in Lam Tin under EP-458/2013/C

1.4 Under Agreement No. CE 59/2015 (EP) – Tseung Kwan O – Lam Tin Tunnel (TKOLLT) and Associated Works, the baseline monitoring works in Lam Tin under the EM&A Manual (AEIAR-173/2013) were conducted by the Environmental Team (ET) for the Agreement No. CE 59/2015 (EP) at the approved monitoring locations, namely AM1, AM2, AM3, AM4, AM4 (A) CM1, CM2, CM3, CM4 and CM5. Impact monitoring within the Lam Tin area shall be conducted by the ET of Contract No. ED/2018/04 upon cessation of Agreement No. CE 59/2015 (EP). The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.

1.5 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").

Purpose of the Report

1.6 This is the 23rd Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in March 2022.

Project Organizations

- 1.7 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)
- 1.8 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1	Key Froject Contacts		
Party	Role Contact Person		Phone No.
CEDD	Permit Holder	Permit Holder Mr. Wong Chi Wai, Tommy	
HMJV	Supervisor Representative Ms. Hazel Tang		2149 8524
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan	5185 4462

Table 1.1Key Project Contacts

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

Construction Activities undertaken during the Reporting Month

- 1.10 The major site activities undertaken in the reporting month included:
 - West bound Drill & Blast Tunnel, Service Gallery Drill & Blast, Service Gallery A Installation, RC Structure Construction
 - East bound Service Gallery Drill & Blast, Enlargement Drill & Blast, Type C Bench Drill & Blast, RC Structure Construction
 - CKL Junction Reinstatement works
 - East Ventilation Building WB Excavation, Excavation

Summary of EM&A Requirements

- 1.11 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.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 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 March 2022.

Status of Environmental Licensing and Permitting

1.14 All permits/licenses obtained for the Project are summarized in Table 1.2.

Table 1.2 Summary of Environmental License and Permit

D 4/11 N	Valid Period		States.	
Permit / License No.	From	То	Status	
Environmental Permit (EP)				
EP-451/2013	19 Sep 2013	N/A	Valid	
EP-458/2013/C	20 Jan 2017	N/A	Valid	
Notification pursuant to Air Pollution (Cons	truction Dust) F	Regulation		
Ref. No.: 451120	20 Nov 2019	N/A	Valid	
Billing Account for Construction Waste Disp	osal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid	
Construction Noise Permit	-			
CNP No. (For Portion Q): GW-RE0900-21	23 Sep 2021	22 Mar 2022	Expired on 22 March 2022	
CNP No. (For Portion T1): GW-RE1201-21	06 Dec 2021	05 Mar 2022	Expired on 05 March 2022	
CNP No. (For Portion Q): GW-RE0227-22	24 Mar 2022	23 Sep 2022	Valid	
CNP No. (For Portion T1): GW-RE0199-22	05 Mar 2022	04 July 2022	Valid	
Wastewater Discharge License				
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid	
Chemical Waste Producer License				
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid	

2 AIR QUALITY

Monitoring Requirement

2.1 According to Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 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 1-hour and 24-hour TSP monitoring. 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.

Monitoring Stations	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	Yau Lai Estate Bik Lai House	Rooftop (41/F)
AM4 ⁽¹⁾	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(A) ^{(2) (*)}	Cha Kwo Ling Public Cargo Working Area Administrative Office	Rooftop (3/F)

Table 2.1 Air Quality Monitoring Locations

Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

(*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners.

Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality

Monitoring Stations	Parameter	Period	Frequency
AM1, AM2, AM3, AM4	1-hour TSP	0700 - 1900	3 times per 6 days
AM1, AM2, AM3, AM4(A)	24-hour TSP	24 hours	Once every 6 days

Monitoring Equipment

2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-173/2013), Section 2.3.1, 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.

- 2.5 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House for logging wind speed and wind direction such that the wind sensors are clear of obstructions or turbulence caused by building. The wind data monitoring equipment is recalibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

Tuble 10 The Quality Monitoring Equipment					
Equipment	Model	Quantity			
1-hour TSP Dust Meter	Sibata Model No. LD-5R	2			
1-liour 131 Dust Meter	(Serial No.: 972781, 972778)	Ζ			
	TISCH Model: TE-5170 (Serial No.: 1536)	1			
HVS Sampler	GMW model: GS2310	2			
	(Serial No.: 1287, 10379, 10599)	3			
Calibrator	TISCH Model: TE-5025A	1			
Calibrator	(Serial No.: 3864)	1			
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1			
	(Serial No.: MC01010A44)	1			

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: 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

2.8 The following maintenance/calibration is required for the 1-hour dust meter:

- Monthly EM&A Report March 2022
- 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

- 2.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 2.10 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

- 2.11 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-173/2013). 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 $0.3 \mu m$ 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.

Monthly EM&A Report – March 2022

- 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 (ALS Technichem (HK) Pty 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 $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 2.12 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

- 2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3, AM4 and AM4 (A) are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report.
- 2.14 The impact air quality monitoring was conducted at all five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix D**.
- 2.15 No Action/ Limit Level exceedance were recorded for 24-hour TSP monitoring in the reporting month.
- 2.16 No Action/ Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Tuoro 200 Mayor 2000 Courses and an Quanty Montoring			
Monitoring Stations	Major Dust Source		
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road, non-project related influence and the construction activity from other construction site		
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road		
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related influence and the construction activity from other construction site		
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road		
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office	Road Traffic at 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 (with the assessment height of 1.5 mAG) in Table 3.17 of EIA Report, AEIAR-173/2013 (as approved in 2013) as summarised in Table 2.5 and Table 2.6.

Table 2.5	Comparison of	of 1-hr TSP	Monitoring Data	with Predictions	in EIA Report
	1		8		1

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (March 2022), μg/m ³
AM1 – Tin Hau Temple	CL1	707	66.7
AM2 – Sai Tso Wan Recreation Ground	CL6	266	144.9
AM3 – Yau Lai Estate Bik Lai House	CL9	507	96.6
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	66.7

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (March 2022), µg/m ³	
AM1 – Tin Hau Temple	CL1	199	100.3	
AM2 – Sai Tso Wan Recreation Ground	CL6	109	42.1	
AM3 – Yau Lai Estate Bik Lai House	CL9	123	98.7	
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office ^(*)	N/A ⁽¹⁾	N/A ⁽¹⁾	93.2	

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

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-173/2013)

(*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)

- 2.20 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.
- 2.21 In the reporting month, the 24-hour TSP concentrations at AM1 AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period. Details of the exceedance shown in **Appendix N**.

3 NOISE

Monitoring Requirements

3.1 According to Section 3.2.1 of the EM&A Manual (AEIAR-173/2013), 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 CM1, CM2, CM3, CM4 and CM5 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.

Monitoring Stations	Location	Location of Measurement
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Rooftop (40/F)
CM4	Tin Hau Temple, Cha Kwo Ling	Ground Level
CM5	CCC Kei Faat Primary School, Yau Tong	Rooftop (6/F)

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

Table 3.2Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement	
CM1				L (20 ·)	Façade Measurement	
CM2	0700 1000 1			L ₁₀ (30 min.) dB(A)	Façade Measurement	
CM3	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Façade Measurement	
CM4	weekuays			Lee	$L_{eq}(30 \text{ min.})$	Façade Measurement
CM5				dB(A)	Façade Measurement	

Monitoring Equipment

3.4 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 by the ET for Agreement No. CE 59/2015 (EP) within the reporting period. Copies of calibration certificates are attached in **Appendix B**.

Table 5.5 Noise Monitoring Equipment						
Equipment	Model	Quantity				
Integrating Sound Level Meter	BSWA 308 (Serial No.: 580156)	1				
Calibrator	ST-120 (Serial No.: 181001608)	1				

Table 3.3Noise Monitoring Equipment

Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - The wind speed was frequently checked with the portable wind meter.
 - At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 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

Monthly EM&A Report – March 2022

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

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 One (1) Action Level exceedance was recorded due to the documented complaint in the reporting month.
- 3.11 One (1) Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month. Detail shall refer to **Appendix N**.
- 3.12 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) 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
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CIVII	related construction activities
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CIVIZ	related construction activities
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project
CIVIS	related construction activities
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction
CIVI4	activities
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza,
CM5	Construction activity from other construction site,
	Road Traffic at Yau Tong Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

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

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)
CM1	65.5	
CM2	63.6	75
CM3	65.6	/3
CM4	62.0	
CM5	68.2	70*

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 4.15 of EIA Report (AEIAR-173/2013) as summarised in **Table 3.6**.

Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report
	Maximum I redicted Miligated Construction Moise Devels in Diff Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (March 2022), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	76.0
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	74.6
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	73.8
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	68.3
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	72.5

3.15 The result at CM5 was higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), that may due to the fluctuation of road traffic along Yau Tong Road. According to the field observation made by ET for Agreement No. CE 59/2015 (EP), the major noise source identified at CM1 were the construction activities of TKOLTT and road traffic near Eastern Cross Harbour Tunnel Toll Plaza, therefore, the result at CM1 was higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), that may due to the non-project related construction activities and the fluctuation of road traffic nearby. However, the results at CM2, CM3 and CM4 were lower than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013). One (1) Limit level exceedance was recorded in the reporting period. Detail of exceedance is presented in **Appendix N**.

4 WATER QUALITY

Monitoring Requirement

Groundwater Quality

4.1 The existing groundwater quality monitoring programme has been suspended as the monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the groundwater quality monitoring has been suspended since October 2019 upon the agreement by EPD.

Marine Water Quality

4.2 According to Section 4.4.3 of EM&A Manual (AEIAR-173/2013), marine water quality impact monitoring stations is carried out during marine construction for TKOLTT reclamation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve reclamation, the marine water quality monitoring programme stated in Section 4.4 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

Groundwater Level Monitoring (Piezometer Monitoring)

4.3 According to Section 4.1.2 of EM&A Manual (AEIAR-173/2013), daily piezometer monitoring will be carried out on a daily basis when any tunnel construction activities are carried out within +/- 50m of the piezometer gate in plan. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building is approximately 120m away from the piezometer gate in plan, the piezometer monitoring programme stated in Section 4.2 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

5 WASTE MANAGEMENT

- 5.1 According to Section 5.1.2 of the EM&A Manual (AEIAR-173/2013), Waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse, are recommended to be audited at regular intervals (at least quarterly) to ensure that proper storage, transportation and disposal practices are being implemented by the Contractor. To fulfil this requirement, site audits are carried out on a weekly basis. The summaries of site audits are attached in **Appendix I**.
- 5.2 With reference to relevant handling records of this Project, the quantities of different types of waste generated in the reporting month are summarised and presented in **Appendix H**.

6 ECOLOGY

Post-Translocation Coral Monitoring

6.1 Post-translocation monitoring survey is recommended in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013), to audit the success of coral translocation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve any marine works in the concerned area mentioned in Section 6.1.2 of the EM&A Manual (AEIAR-173/2013), the post-translocation monitoring survey stated in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

7 FISHERIES

- 7.1 According to Section 7.1.3 of EM&A Manual (AEIAR-173/2013), no specific fisheries monitoring programme is required during the construction phase.
- 7.2 The implementation of the mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 5 of EIA Report (AEIAR-173/2013)) will be audited as part of the EM&A procedures during the construction period. The summaries of site audits are attached in **Appendix I**.

8 CULTURAL HERITAGE

- 8.1 According to Condition 3.7 of EP-458/2013/C and Section 8.2.1 of the EM&A Manual (AEIAR-173/2013), monitoring of vibration impacts was conducted when the construction works are less than 100m from the Built Heritage in close proximity of the worksite, namely the Cha Kwo Ling Tin Hau temple. Tilting and settlement monitoring should be applied on the Cha Kwo Ling Tin Hau Temple.
- 8.2 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

Mitigation Measures for Cultural Heritage

8.3 According to Condition 3.6 of EP-458/2013/C, to prevent damage to Cha Kwo Ling Tin Hau Temple and its Fung Shui rocks (Child-given rocks) during the construction phase, a temporarily fenced-off buffer zone (Rocks buffer zone is 5 m from the edge of Rocks and 15m from the edge of Rocks alter) with allowance for public access (minimum 1 m) around the temple and the Fung Shui rocks shall be provided. The open yard in front of the temple should be kept as usual for annual Tin Hau festival.

8.4 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there is construction activities in vicinity of the cultural heritage.

9 LANDSCAPE AND VISUAL IMPACT

- 9.1 According to Section 9.3 of the EM&A Manual (AEIAR-173/2013), landscape and visual mitigation measures during the construction phase shall be checked to ensure that they are fully realized and implemented on site.
- 9.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures listed in "Environmental Mitigation Implementation Schedule (EMIS)" (shown in **Appendix J**).
- 9.3 The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. No non-compliance of the landscape and visual impact was recorded in the reporting month. Details of the audit findings and implementation status are presented in **Appendix I**.

10 LANDFILL GAS MONITORING

Monitoring Requirement

10.1 In accordance with Section 10.1.1 of the EM&A Manual (AEIAR-173/2013), monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required.

11 HAZARD TO LIFE

11.1 According to Section 11.1.1 of EM&A Manual (AEIAR-173/2013), as no overnight storage of explosive on site is required for the construction of the Project, the hazard assessment is deemed not necessary. Thus, environmental monitoring and audit is not required.

12 ENVIRONMENTAL AUDIT

Site Audits

- 12.1 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**.
- 12.2 Site audits were conducted on 03, 11, 17, 24 and 31 March 2022 in the reporting month. Site inspection of the IEC was conducted on 17 March 2022. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 12.3 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 J**.
- 12.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 12.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A
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	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

Implementation Status of Event and Action Plans

12.5 The Event and Action Plans for air quality and construction noise monitoring, and the Limit Levels and Action Plan for landfill gas monitoring are presented in **Appendix L**.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- No Action/ Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

- One (1) Action Level exceedance was recorded due to the documented complaint in the reporting month.
- One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

13 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

13.2 The summary of exceedance record in the reporting month is shown in Appendix N.

14 FUTURE KEY ISSUES

- 14.1 Tentative construction programmes for the next three months are provided in Appendix O.
- 14.2 Major site activities undertaken for the coming months are summarized as follows:
 - West bound Drill & Blast Tunnel, Service Gallery Drill & Blast, Service Gallery A Installation, RC Structure Construction
 - East bound Service Gallery Drill & Blast, Enlargement Drill & Blast, Type C Bench Drill & Blast, RC Structure Construction, Service Gallery A Installation
 - CKL Junction Reinstatement works
 - East Ventilation Building WB Excavation, WB Earthmat & Drainage, Excavation
 - CP33 Excavation
- 14.3 Key environmental issues in the coming months include:
 - Make sure noise mitigation measures are implemented accordingly;
 - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain; and,
 - Make sure mitigation measure for dust suppression are implemented on site.

Monitoring Schedule

14.4 The tentative environmental monitoring schedule for the next month is shown in Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

14.5 This is the 23rd Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

- 14.6 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 14.7 No Action/ Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 14.8 One (1) Action Level exceedance was recorded due to documented complaint in the reporting month.
- 14.9 One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

14.105 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

14.11 One (1) environmental complaint was received in the reporting period. No notifications of summons and successful prosecutions were received in the reporting month.

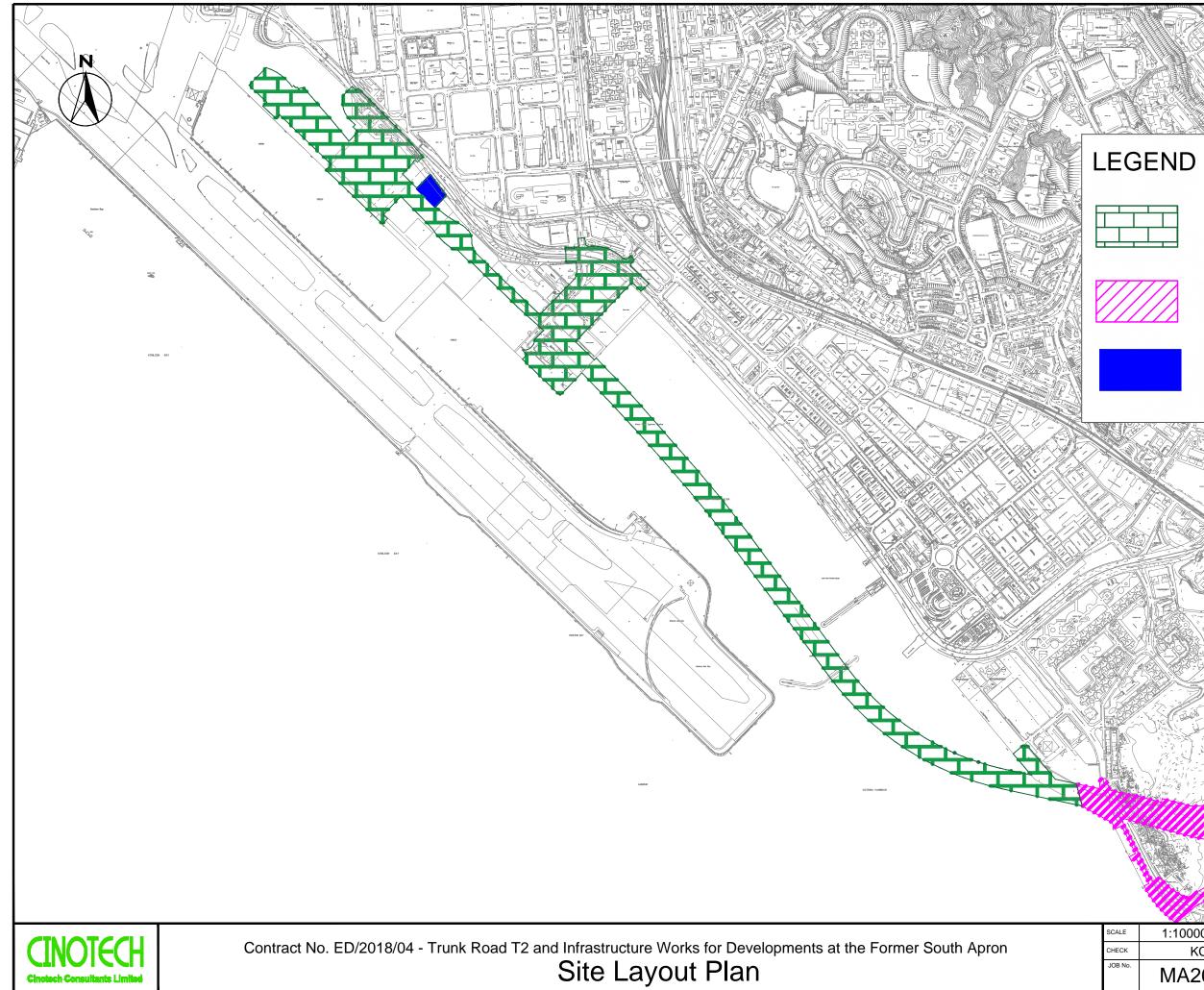
Recommendations

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

Noise

• Noise barriers were erected and located as close as possible to the noise source on site for the construction noise reduction.

FIGURES



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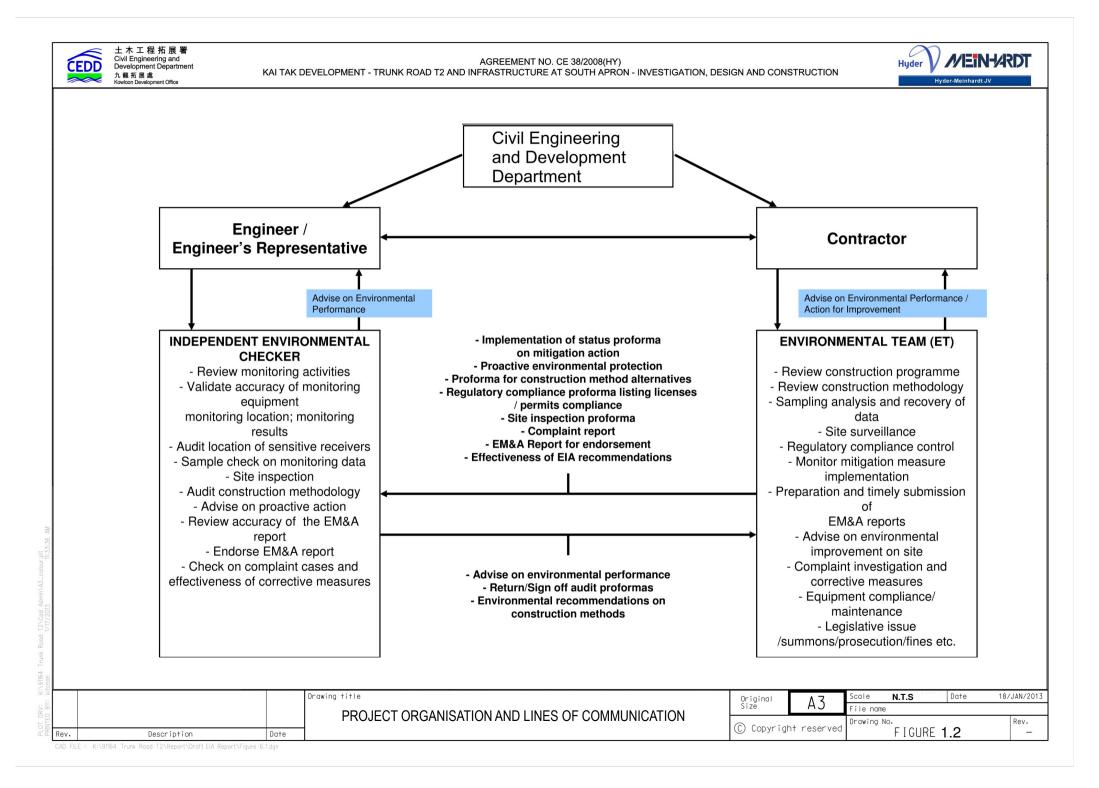
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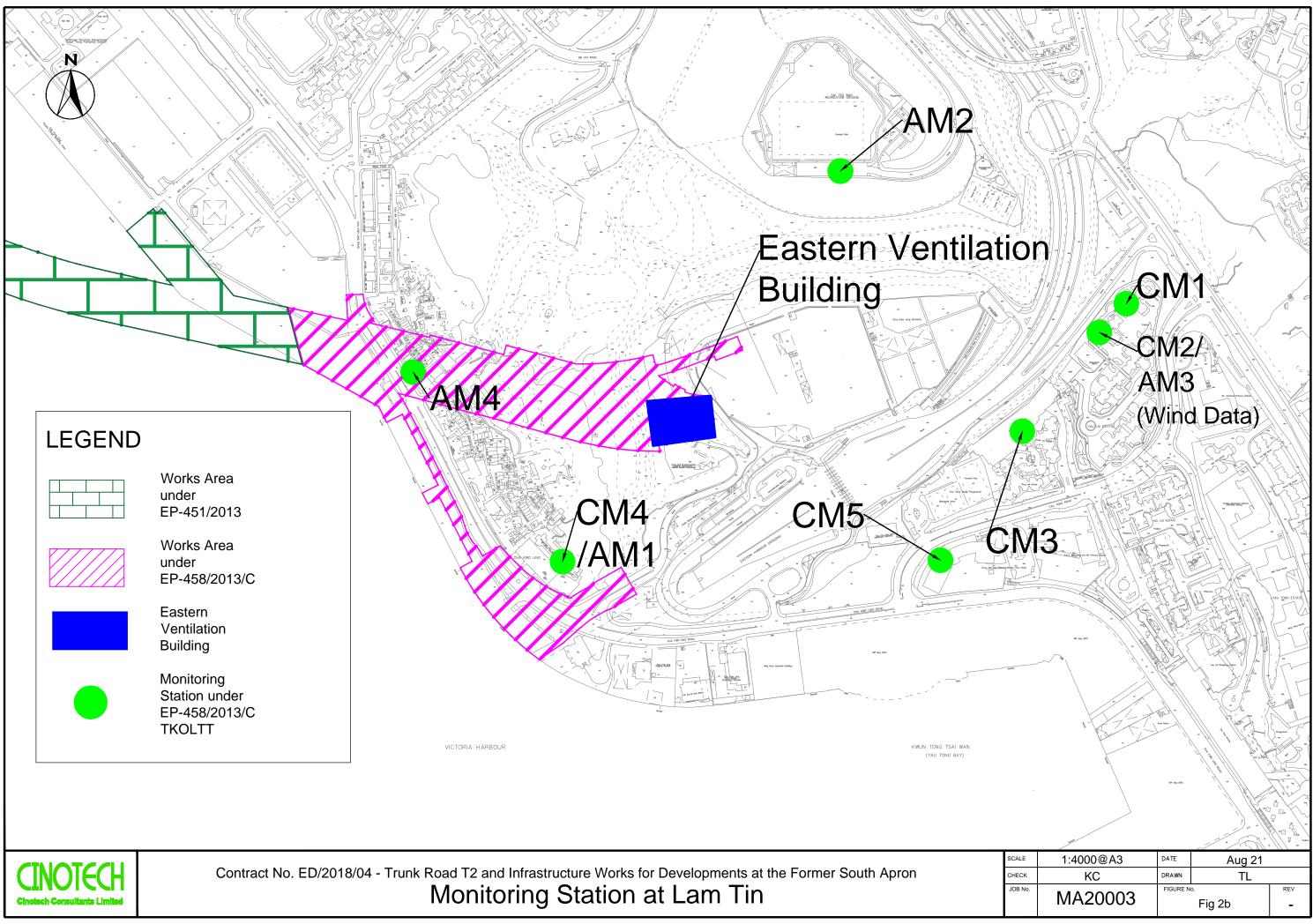
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	500
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

24-hr TSP

Monitoring Stations	Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(A)	Cha Kwo Ling Public Cargo Working Area Administrative Office	210	

<u>Noise</u>

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

 ¹70 dB(A) for schools and 65 dB(A) for schools during examination period.
 ² Acceptable Noise Levels for Area Sensitivity Rating of A/B/C
 ³ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Landfill Gas Monitoring

Parameter	Limit Level
Oxygen	<19%
	<18%
Methane	>10% LEL (i.e. > 0.5% by volume)
	>20% LEL (i.e. > 1% by volume)
Carbon	>0.5%
Dioxide	>1.5%

APPENDIX B COPIES OF CALIBRATION CERTIFICATES High Precision Chemical Testing Limited Rm 1904, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong Tel: (852) 3841 4388 Email: info@hpct.com.hk



APPLICANT: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street,

Test Report No.:	00122
Date of Issue:	2021-05-12
Date Received:	2021-05-07
Test Period	2021-05-10 to
	2021-05-10
Next Due Date:	2022-05-10

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

Description	Integrating Sound Level Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804
Equipment No.	N-12-06

Test conditions:

Room Temperature Relative Humidity : 22-25 degree Celsius : 35-70%

Method reference:

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.

Measuring equipment:

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

High Precision Chemical Testing Limited Rm 1904, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong Tel: (852) 3841 4388 Email: info@hpct.com.hk



Test Report

Results:

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

REMARK:

- 1. The indication value was obtained from the average of ten replicated measurement.
- 2. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC 17025.

-----End of Report-----

PREPARED AND CHECKED BY: For and On Behalf of **High Precision Chemical Testing Limited**

Laboratory Director (CHAN Hon-Fai)



File No. MA16034/05/0034

Project No.	AM1 - Tin Hau	1 Temple				
Date:			Next Due Date:	9-Apr-22	Operator:	SK
Equipment No.:			Model No.: GS23		Serial No.	10599
			Ambient Condit	ion		
Temperatu	ure, Ta (K)	289.1	Pressure, Pa (mml	Hg)	764.2	
				-		

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

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.2	3.70	62.87	9.4	3.12			
2	10.2	3.25	55.31	7.0	2.69			
3	7.6	2.81	47.80	5.2	2.32			
4	5.4	2.37	40.36	3.3	1.85			
5	3.0	1.76	30.19	2.0	1.44			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = 0.0522 Intercept, bw = -0.1827 Correlation coefficient* = 0.9976 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to	Calculation					
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =								
·	Wong Shi Henry I	<u> </u>	: :	N	Date: 9-Feb-22 Date: 9-Feb-22			



File No. MA16034/08/0034

Project No.	ect No. AM2 - Sai Tso Wan Recreation Ground						
Date:	9-Feb-22		Next Due Date:	Date: 9-Apr-22		Operator:	SK
Equipment No.:	A-(01-08	Model No.:	GS	\$2310	Serial No.	1287
			Ambient C	ondition			
Temperatu	ure, Ta (K)	289.1	Pressure, Pa			764.2	
			,				
		Ori	fice Transfer Star	ndard Informa	ation		
Seria	l No.	3864	Slope, mc	0.05922	Intercept	t, bc	-0.02420
Last Calibr	ation Date:	31-Jan-22			$c = [\Delta H x (Pa/760)]$		
Next Calibi	ation Date:	31-Jan-23	($Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/7	[[a]] ^{1/2} -bc} / 1	mc
		•					
			Calibration of T	FSP Sampler			
Calibration		Or	fice			HVS	
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		760) x (298/Ta)] ^{1/2} Y-axis
1	13.2		3.70	62.87	9.2		3.09
2	10.4		3.28	55.85	6.8		2.65
3	8.0		2.88	49.03	5.1		2.30
4	5.4		2.37	40.36	3.4		1.88
5	3.0		1.76	30.19	2.0		1.44
Slope , mw = Correlation	coefficient* =	0	9976	intercept, bw	-0.115	5	
*If Correlation	Coefficient < 0.9	990, check and red	calibrate.				
			Set Point Ca	alculation			
From the TSP F	ield Calibration	Curve, take Qstd	= 43 CFM				
From the Regree	ssion Equation, t	he "Y" value acc	ording to				
			$bstd + bw = [\Delta W x]$	(D-/7(0) - (2 (1/2		
		mw x Q	$sta + bw = [\Delta w x]$	(Pa/760) X (29	98/18)]		
Therefore, S	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	Ta / 298) =	4.01		
Damadan							
Remarks:							
				h	21		
Conducted by:	Wong S	hing Kwai	Signature:	<u>/</u>	<u> </u>	Date:	9-Feb-22

Signature: lemy X27 Date: 9-Feb-22

 $F:\label{eq:control} F:\label{eq:control} F:\label{eq:control} Context MVS\new\MA16034_20220209_AM2_(A-01-08).xls$

Checked by: Henry Leung



File No. MA16034/03/0034

Project No.	AM3 - Yau La	i Estate, Bik La	i House			
Date:	9-F	Feb-22	Next Due Date:	9-Apr-22	Operator:	SK
Equipment No.:	uipment No.: A-01-03		Model No.:	GS2310	S2310 Serial No.	
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	289.1	Pressure, Pa (mmI	-Ig)	764.2	
			-	-		
Temperatu	ire, Ta (K)	289.1	Pressure, Pa (mmI	Ig)	764.2	

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

Calibration of TSP Sampler							
Calibration		Orfice		HVS			
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.2	3.70	62.87	9.2	3.09		
2	10.4	3.28	55.85	7.0	2.69		
3	8.3	2.93	49.94	5.4	2.37		
4	5.4	2.37	40.36	3.4	1.88		
5	2.9	1.73	29.68	2.0	1.43		
By Linear Regression of Y on X Slope , mw =							
From the TSP Fi	ield Calibration C	Set Point C aurve, take Qstd = 43 CFM	alculation				
From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (298/\mathbf{Ta})]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 4.07							
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	N	Date: 9-Feb-22		
Checked by:	Henry	Leung Signature:	- \-lem	j Xoz-	Date: 9-Feb-22		



File No. MA16034/54/0034

Project No.	AM4(A) - Cha	a Kwo Ling Publi				
Date:	9-]	Feb-22	Next Due Date:	9-Apr-22	Operator:	SK
Equipment No.:	.: A-01-54		Model No.:	Model No.: TE-5170		1536
			Ambient Conditi	ion		
Temperatu	Temperature, Ta (K)289.1Pressure, Pa (mmHg)				764.2	
		0	Prifice Transfer Standard	Information		

Orifice Transfer Standard Information								
Serial No.	3864	Slope, mc 0.05922 Intercept, bc -0.02						
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$						
Next Calibration Date:	31-Jan-23		Qstd = {[∆H x	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc			

Calibration of TSP Sampler								
Calibration		Orfice		HVS				
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$			
1	13.2	3.70	62.87	9.6	3.15			
2	10.8	3.35	56.91	7.6	2.81			
3	7.8	2.84	48.42	5.4	2.37			
4	5.9	2.47	42.17	3.6	1.93			
5	3.0	1.76	30.19	2.0	1.44			
By Linear Regression of Y on X Slope , mw = 0.0532 Intercept, bw = -0.2208 Correlation coefficient* = 0.9967 *If Correlation Coefficient < 0.990, check and recalibrate.								
Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to								
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =								
·	Wong Shi Henry I		: :lem	N. Janj-	Date: 9-Feb-22 Date: 9-Feb-22			

High Precision Chemical Testing Ltd.

Report No.

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

: 00150



Issue Date : 16 Nov 2021

Application No. : HP00032 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 05 Nov 2021 Date Received Test Period : 08 Nov 2021 to 12 Nov 2021 : 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

S

Lee Wai Kit Laboratory Manager

High Precision Chemical Testing Ltd.

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

:

:



Issue Date : 16 Nov 2021

Report No.:00150Application No.:HP00032

Certificate of Calibration

Measuring equipment

Sound Calibrator
Brüel & Kjær
TYPE 4231
2326353
N-02-01
Sound Meter
BSWA Technology
BSWA 308
570188
570608
N-12-03

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 0.3
114.0	114.0	0.0	± 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 -



Certificate of Calibration

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

Manufacturer: Sibata Scientific Technology LTD. Validity of Calibration Record 29-Mar-22 Model No.: LD-5R
Serial No.: 972778 Equipment No.: SA-01-07 Sensitivity 0.001 mg/m3 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 735 CPM Tisch Calibration Orifice No.: 3864 Calibration of 1 hr TSP Calibration Mass Concentration (ur/m2)
Equipment No.: Sensitivity 0.001 mg/m3 High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 735 CPM Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 735 CPM Calibration of 1 hr TSP Laser Dust Monitor HVS Mass Concentration (ur/m2)
High Volume Sampler No.: A-01-03 Before Sensitivity Adjustment 735 CPM Tisch Calibration Orifice No.: 3864 After Sensitivity Adjustment 735 CPM Calibration of 1 hr TSP Laser Dust Monitor HVS Mass Concentration (un/m2) Mass concentration (un/m2)
Calibration Orifice No.: 3864 After Sensitivity Adjustment 735 CPM Calibration Calibration HVS Mass Concentration (ug/m ²) Mass concentration (ug/m ²)
Calibration of 1 hr TSP Calibration of 1 hr TSP Calibration HVS Mass Concentration (ug/m3) Mass concentration (ug/m3)
Calibration Laser Dust Monitor HVS
Calibration Mass Concentration (ug/m^2) Mass concentration (ug/m^2)
Mass Concentration (ug/m^2) Mass concentration (ug/m^3)
X-axis Y-axis
1 72.0 146.0
2 63.0 129.0
3 54.0 115.0
Average 63.0 130.0
By Linear Regression of Y on X
Slope , mw = 1.7222 Intercept, bw = 21.5000
Correlation coefficient* = 0.9984
Set Correlation Factor
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)130.0
Particaulate Concentration by Dust Meter (μ g/m ³) 63.0

Set Correlation Factor, SCF

Measureing time, (min)

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by:

60.0

2.1

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator	Date of Calibration 29-Mar-22			
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	29-May-22
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivit	vity Adjustment 735 CPM		
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/m3)		Mass concentration ($\mu g/m^3$)		
	X-axis		Y-axis		
1	72.0			152.0	
2	63.0			133.0	
3	54.0		109.0		
Average	63.0		131.3		
By Linear Regr Slope , mw = Correlation co			ept, bw =	-19.166	7
	encient – <u>0.0078</u>				
	Se	t Correlation Fa	actor		
Particaulate Con	ncentration by High Volume Sampler ($(\mu g/m^3)$	131.3		
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		63.0		

Set Correlation Factor, SCF

Measureing time, (min)

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by:

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)

60.0

2.1



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date of Calibration 29-J		29-Jan-22	
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Record 29-M		29-Mar-22	
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10	Sensitivity 0.00	01 mg/m3			
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitivity Ad	djustment	734 CPM		
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivity Adju	ustment	734 CPM		
	Cal	libration of 1 hr TSP				
Calibration	Laser Dust Monitor		HVS			
Point	Mass Concentration (µg/1 X-axis	m3)	Mass concentration (µg/m ³) Y-axis			
1	71.0		146.0			
2	60.5		129.0			
3	51.0		115.0			
Average	60.8		130.0			
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Intercept, b	w =	35.6349	·	
	Set	t Correlation Factor				
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			130.0			
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		60.8			
Measureing time	e, (min)		60.0			
Set Correlation I	Factor, SCF					

In-house method in according to the instruction manual:

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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

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

Calibrated by:

Approved by: len they Project Manager (Henry Leung)

2.1

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

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

Description:	Description: Digital Dust Indicator			Date of Calibration 29-Mar-22		
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibration Record 29-May-22				
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3	-		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	734 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	734 CPM		
	Ca	libration of 1 h	r TSP			
Calibration	Laser Dust Monitor		HVS			
Point Mass Concentration (µg/r X-axis		m3)			$\mu g/m^3$)	
			Y-axis			
l	74.0		152.0			
2	63.5		133.0 109.0			
3	48.0					
Average	61.8		131.3			
By Linear Regr Slope , mw =	ression of Y on X 1.6459	Intero	cept, bw =	29.562	8	
Correlation co			r -)			
	Se	t Correlation F	actor			
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$	131.3			
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		61.8			
Measureing time, (min)			60.0			

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

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

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

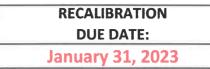
Calibrated by:

Approved by: _____ Cany Chang Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

2.1





Certificate of Calibration

Calibration Certification Information								
Cal. Date:	January 31	, 2022	Roots	meter S/N:	438320	38320 Ta: 294		
Operator:	Jim Tisch					Pa:	752.6	mm Hg
Calibration	tion Model #: TE-5025A Cali			orator S/N:	3864			0
								1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4490	3.2	2.00	
	2	3	4	1	1.0320	6.4	4.00	
	3	5	6	1	0.9160	7.9 8.8	5.00 5.50	
	4	9	8	1	0.7230	8.8 12.7	8.00	
		9				44.1	0.00	1
	<u> </u>			Data Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax	· ~ · ·	Va	(x-axis)	(y-axis)	
	0.9995	0.6898	1.410		0.9957	0.6872	0.8839	
	0.9952	0.9643	2.003	37	0.9915	0.9608	1.2500	
	0.9932	1.0843	2.240	02	0.9895	1.0802	1.3976	1
	0.9920	1.1363	2.34	96	0.9883	1.1321	1.4658	1
	0.9868	1.3649	2.83		0.9831	1.3598	1.7678	
		QSTD = -0.0242				m=	1.31048	
	QSTD			426 C	QA	b=	-0.01514	
		r= 0.99993			r= 0.99			
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP))/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			Qa= Va/∆Time			
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$			Qa=	1/m ((√∆⊦	l(Ta/Pa))-b)	
	Standard	Conditions]					
Tstd:						RECA	LIBRATION	
Pstd:		mm Hg				mmonde		n nor 1000
		(ey	» U2O)				nnual recalibrations Part !	
		ter reading (i eter reading					, Reference Meth	
		perature (°K)					ended Particulat	
		ressure (mm					erided Particulation eric 9.2.17, page 3	
b: intercept					UI1	- Autosphe	are, 3.2.17, page	
n: slope								

isch Environmental, Inc.

45 South Miami Avenue

illage of Cleves, OH 45002

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



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>19-Feb-2022</u>
Next Due Date	<u>19-Aug-2022</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	2.5	0.0
4.2	4.3	-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

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
1-Mar-22	22.0	(%) ² 77	0.0
2-Mar-22	20.7	83	0.0
3-Mar-22	19.5	76	0.0
4-Mar-22	21.3	77	0.0
5-Mar-22	20.6	84	0.0
6-Mar-22	19.1	77	0.0
7-Mar-22	19.8	70	4.8
8-Mar-22	17.5	53	0.0
9-Mar-22	18.7	57	0.0
10-Mar-22	20.7	60	0.0
11-Mar-22	22.1	71	0.0
12-Mar-22	22.3	68	0.0
13-Mar-22	23.6	75	0.1
13 Mar 22	24.1	78	0.0
15-Mar-22	23.8	80	0.0
16-Mar-22	22.3	79	Trace
17-Mar-22	24.3	85	Trace
18-Mar-22	24.4	84	0.0
19-Mar-22	23.3	85	0.0
20-Mar-22	21.0	88	Trace
21-Mar-22	22.1	89	Trace
22-Mar-22	23.0	93	Trace
23-Mar-22	17.7	94	54.8
24-Mar-22	17.6	91	1.8
25-Mar-22	23.1	90	0.7
26-Mar-22	26.4	86	0.1
27-Mar-22	21.9	83	Trace
28-Mar-22	17.5	89	30.3
29-Mar-22	19.1	82	0.1
30-Mar-22	22.4	74	0.0
31-Mar-22	24.4	69	Trace

Appendix C - Weather Conditions During Impact Monitoring Period	Appendix C -	Weather	Conditions	During	Impact	Monitoring	Period
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(Reporting Month:March 2022)

Remarks:

Source - Hong Kong Observatory

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

March 2022			
	Wind Speed a	and Directions	
Date	Time	Direction	Wind Speed m-s
1 Mar 2022	12:00 AM	NW	0.4
1 Mar 2022	1:00 AM	NW	0.4
1 Mar 2022	2:00 AM	NW	0.9
1 Mar 2022	3:00 AM	WNW	0.4
1 Mar 2022	4:00 AM	W	0.4
1 Mar 2022	5:00 AM	W	0.4
1 Mar 2022	6:00 AM	W	0.9
1 Mar 2022	7:00 AM	NE	0.9
1 Mar 2022	8:00 AM	NNW	0.4
1 Mar 2022	9:00 AM	NE	0.4
1 Mar 2022	10:00 AM	NE	0.4
1 Mar 2022	11:00 AM	NNW	0.9
1 Mar 2022	12:00 PM	NNW	1.3
1 Mar 2022	1:00 PM	NNW	1.3
1 Mar 2022	2:00 PM	W	1.3
1 Mar 2022	3:00 PM	WNW	1.3
1 Mar 2022	4:00 PM	W	0.9
1 Mar 2022	5:00 PM	W	0.9
1 Mar 2022	6:00 PM	W	0.9
1 Mar 2022	7:00 PM	W	1.3
1 Mar 2022	8:00 PM	W	1.8
1 Mar 2022	9:00 PM	WNW	1.3
1 Mar 2022	10:00 PM	W	1.3
1 Mar 2022	11:00 PM	W	1.3
2 Mar 2022	12:00 AM	W	1.3
2 Mar 2022	1:00 AM	NE	0.4
2 Mar 2022	2:00 AM	NNW	0.9
2 Mar 2022	3:00 AM	NE	0.9
2 Mar 2022	4:00 AM	NE	1.3
2 Mar 2022	5:00 AM	NNW	1.3
2 Mar 2022	6:00 AM	NNW	0.9
2 Mar 2022	7:00 AM	NNW	2.2
2 Mar 2022	8:00 AM	NNW	3.6
2 Mar 2022 2 Mar 2022	9:00 AM	NNW	3.6
2 Mar 2022	10:00 AM	NNW	3.1
2 Mar 2022 2 Mar 2022	10:00 AM 11:00 AM	NNW	3.1
2 Mar 2022 2 Mar 2022	12:00 PM	NNW	1.8
2 Mar 2022 2 Mar 2022	12:00 PM 1:00 PM	NNW	1.8
2 Mar 2022 2 Mar 2022	2:00 PM	NE	0.4
2 Mar 2022 2 Mar 2022	2:00 PM 3:00 PM	ENE	0.4
2 Mar 2022 2 Mar 2022	4:00 PM	 NNE	0.9
2 Mar 2022	5:00 PM	ENE	0.9
2 Mar 2022	6:00 PM	NE	0.9
2 Mar 2022	7:00 PM	NW	1.3
2 Mar 2022	8:00 PM	NW	0.9
2 Mar 2022	9:00 PM	NW	0.9
2 Mar 2022	10:00 PM	W	0.9
2 Mar 2022	11:00 PM	NW	1.3
3 Mar 2022	12:00 AM	NW	1.8
3 Mar 2022	1:00 AM	WNW	1.3
3 Mar 2022	2:00 AM	NW	1.3
3 Mar 2022	3:00 AM	NW	1.3
3 Mar 2022	4:00 AM	NW	1.3
3 Mar 2022	5:00 AM	NW	0.4
3 Mar 2022	6:00 AM	E	0.9
3 Mar 2022	7:00 AM	ESE	0.9

March 2022			
	Wind Speed a	and Directions	
Date	Time	Direction	Wind Speed m-s
3 Mar 2022	8:00 AM	Е	1.3
3 Mar 2022	9:00 AM	ENE	1.3
3 Mar 2022	10:00 AM	ENE	0.9
3 Mar 2022	11:00 AM	Е	0.9
3 Mar 2022	12:00 PM	ENE	0.9
3 Mar 2022	1:00 PM	Е	0.4
3 Mar 2022	2:00 PM	ENE	0.9
3 Mar 2022	3:00 PM	NW	0.4
3 Mar 2022	4:00 PM	ENE	0.9
3 Mar 2022	5:00 PM	WNW	0.9
3 Mar 2022	6:00 PM	W	0.9
3 Mar 2022	7:00 PM	W	1.3
3 Mar 2022	8:00 PM	W	0.4
3 Mar 2022	9:00 PM	NE	0.4
3 Mar 2022	10:00 PM	NNW	0.9
3 Mar 2022	11:00 PM	NE	0.4
4 Mar 2022	12:00 AM	NE	0.4
4 Mar 2022	1:00 AM	NNW	0.4
4 Mar 2022	2:00 AM	NNW	0.9
4 Mar 2022	3:00 AM	NNW	0.9
4 Mar 2022	4:00 AM	WSW	0.4
4 Mar 2022	5:00 AM	WSW	0.4
4 Mar 2022	6:00 AM	W	0.4
4 Mar 2022	7:00 AM	NW	0.9
4 Mar 2022	8:00 AM	W	1.3
4 Mar 2022	9:00 AM	W	1.3
4 Mar 2022	10:00 AM	W	1.3
4 Mar 2022	11:00 AM	WNW	1.3
4 Mar 2022	12:00 PM	W	0.9
4 Mar 2022	1:00 PM	W	1.3
4 Mar 2022	2:00 PM	W	1.8
4 Mar 2022	3:00 PM	W	1.3
4 Mar 2022	4:00 PM	W	1.3
4 Mar 2022	5:00 PM	WNW	1.3
4 Mar 2022	6:00 PM	W	1.3
4 Mar 2022	7:00 PM	W	1.3
4 Mar 2022	8:00 PM	W	0.9
4 Mar 2022	9:00 PM	W	1.3
4 Mar 2022	10:00 PM	WNW	1.3
4 Mar 2022	11:00 PM	W	1.8
5 Mar 2022	12:00 AM	W	1.3
5 Mar 2022	1:00 AM	W	1.8
5 Mar 2022	2:00 AM	NE	1.8
5 Mar 2022	3:00 AM	NNW	2.2
5 Mar 2022	4:00 AM	NE	1.3
5 Mar 2022	5:00 AM	NE	1.8
5 Mar 2022	6:00 AM	NNW	1.3
5 Mar 2022	7:00 AM	NNW	0.9
5 Mar 2022	8:00 AM	NNW	0.9
5 Mar 2022	9:00 AM	W	1.3
5 Mar 2022	10:00 AM	W	1.3
5 Mar 2022	11:00 AM	WNW	0.9
5 Mar 2022	12:00 PM	WNW	1.3
5 Mar 2022	1:00 PM	W	0.9
5 Mar 2022	2:00 PM	NW	1.3
5 Mar 2022	3:00 PM	NW	1.3
	*		

C-3

March 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
5 Mar 2022	4:00 PM	NW	1.8	
5 Mar 2022	5:00 PM	WNW	0.9	
5 Mar 2022	6:00 PM	W	1.3	
5 Mar 2022	7:00 PM	W	1.3	
5 Mar 2022	8:00 PM	W	2.2	
5 Mar 2022	9:00 PM	NE	1.8	
5 Mar 2022	10:00 PM	NNW	1.8	
5 Mar 2022	11:00 PM	NE	1.8	
6 Mar 2022	12:00 AM	NE	1.8	
6 Mar 2022	1:00 AM	NNW	0.9	
6 Mar 2022	2:00 AM	NNW	3.6	
6 Mar 2022	3:00 AM	NNW	3.1	
6 Mar 2022	4:00 AM	NW	3.1	
6 Mar 2022	5:00 AM	NW	3.6	
6 Mar 2022	6:00 AM	NW	1.3	
6 Mar 2022	7:00 AM	NW	1.3	
6 Mar 2022	8:00 AM	WNW	1.3	
6 Mar 2022	9:00 AM	W	0.9	
6 Mar 2022	10:00 AM	W	0.9	
6 Mar 2022	11:00 AM	W	0.9	
6 Mar 2022	12:00 PM	NE	0.9	
6 Mar 2022	1:00 PM	NNW	1.3	
6 Mar 2022	2:00 PM	NE	0.9	
6 Mar 2022	3:00 PM	NE	0.9	
6 Mar 2022	4:00 PM	NNW	0.4	
6 Mar 2022	5:00 PM	NNW	0.9	
6 Mar 2022	6:00 PM	NNW	1.8	
6 Mar 2022	7:00 PM	E	0.9	
6 Mar 2022	8:00 PM	E	1.8	
6 Mar 2022	9:00 PM	E	1.3	
6 Mar 2022	10:00 PM	E	0.4	
6 Mar 2022	11:00 PM	ENE	0.4	
7 Mar 2022	12:00 AM	Е	0.9	
7 Mar 2022	1:00 AM	ENE	0.9	
7 Mar 2022	2:00 AM	Е	1.8	
7 Mar 2022	3:00 AM	Е	0.9	
7 Mar 2022	4:00 AM	ENE	1.8	
7 Mar 2022	5:00 AM	Е	0.9	
7 Mar 2022	6:00 AM	Е	1.8	
7 Mar 2022	7:00 AM	E	1.3	
7 Mar 2022	8:00 AM	ESE	0.4	
7 Mar 2022	9:00 AM	ESE	0.4	
7 Mar 2022 7 Mar 2022	10:00 AM	NW	0.9	
7 Mar 2022 7 Mar 2022	11:00 AM	E	0.9	
7 Mar 2022 7 Mar 2022	12:00 PM	E E	1.8	
7 Mar 2022 7 Mar 2022	1:00 PM	<u>E</u>	0.9	
7 Mar 2022 7 Mar 2022	2:00 PM	E	0.9	
7 Mar 2022 7 Mar 2022	2:00 PM 3:00 PM	E ENE	1.8	
7 Mar 2022 7 Mar 2022	3:00 PM 4:00 PM	ENE E	1.8	
	1 1			
7 Mar 2022	5:00 PM	E	1.3	
7 Mar 2022	6:00 PM	ENE	1.3	
7 Mar 2022	7:00 PM	ENE	1.3	
7 Mar 2022	8:00 PM	ENE	0.9	
7 Mar 2022	9:00 PM	E	1.3	
7 Mar 2022	10:00 PM	ESE	0.4	
7 Mar 2022	11:00 PM	NW	0.0	

March 2022				
	Wind Speed a	nd Directions		
Date	Time	Direction	Wind Speed m-s	
8 Mar 2022	12:00 AM	ENE	0.0	
8 Mar 2022	1:00 AM	ENE	0.4	
8 Mar 2022	2:00 AM	Е	0.4	
8 Mar 2022	3:00 AM	Е	0.9	
8 Mar 2022	4:00 AM	Е	1.3	
8 Mar 2022	5:00 AM	Е	0.9	
8 Mar 2022	6:00 AM	Е	0.9	
8 Mar 2022	7:00 AM	ENE	0.9	
8 Mar 2022	8:00 AM	ESE	0.4	
8 Mar 2022	9:00 AM	Е	0.9	
8 Mar 2022	10:00 AM	Е	1.3	
8 Mar 2022	11:00 AM	Е	1.8	
8 Mar 2022	12:00 PM	ESE	1.8	
8 Mar 2022	1:00 PM	ENE	0.9	
8 Mar 2022	2:00 PM	Е	1.3	
8 Mar 2022	3:00 PM	NW	1.3	
8 Mar 2022	4:00 PM	E	0.9	
8 Mar 2022	5:00 PM	ENE	2.7	
8 Mar 2022	6:00 PM	E	1.3	
8 Mar 2022	7:00 PM	E	0.9	
8 Mar 2022	8:00 PM	ENE	0.9	
8 Mar 2022	9:00 PM	ENE	0.0	
8 Mar 2022	10:00 PM	ENE	0.4	
8 Mar 2022	11:00 PM	E	0.0	
9 Mar 2022	12:00 AM	ESE	0.4	
9 Mar 2022 9 Mar 2022	1:00 AM	NW	0.4	
9 Mar 2022 9 Mar 2022	2:00 AM	ENE	0.4	
9 Mar 2022	3:00 AM	ENE	0.4	
9 Mar 2022	4:00 AM	E	0.0	
9 Mar 2022	5:00 AM	E E	0.4	
9 Mar 2022	6:00 AM	E E	0.4	
9 Mar 2022 9 Mar 2022	7:00 AM	W	0.4	
9 Mar 2022 9 Mar 2022	8:00 AM	E vv	0.4	
9 Mar 2022 9 Mar 2022	9:00 AM	ENE	0.4	
9 Mar 2022 9 Mar 2022	10:00 AM	ENE	0.4	
9 Mar 2022 9 Mar 2022	10:00 AM 11:00 AM	ENE E	0.4	
9 Mar 2022 9 Mar 2022	12:00 PM	E N		
			0.4	
9 Mar 2022	1:00 PM	ENE E	0.4	
9 Mar 2022	2:00 PM			
9 Mar 2022	3:00 PM	NW	1.3	
9 Mar 2022	4:00 PM	NW	2.2	
9 Mar 2022	5:00 PM	NW	1.3	
9 Mar 2022	6:00 PM 7:00 PM	NW E	0.4	
9 Mar 2022				
9 Mar 2022	8:00 PM	E	0.4	
9 Mar 2022	9:00 PM	ESE	0.4	
9 Mar 2022	10:00 PM	ESE	0.4	
9 Mar 2022	11:00 PM	ESE	0.4	
10 Mar 2022	12:00 AM	ESE	0.4	
10 Mar 2022	1:00 AM	<u>NNE</u>	0.4	
10 Mar 2022	2:00 AM	E	0.4	
10 Mar 2022	3:00 AM	NW	0.4	
10 Mar 2022	4:00 AM	NW	0.9	
10 Mar 2022	5:00 AM	NE	0.4	
10 Mar 2022	6:00 AM	NW	0.9	
10 Mar 2022	7:00 AM	NW	0.4	

March 2022			
	_	and Directions	
Date	Time	Direction	Wind Speed m-s
10 Mar 2022	8:00 AM	NE	0.9
10 Mar 2022	9:00 AM	NW	1.3
10 Mar 2022	10:00 AM	NW	1.3
10 Mar 2022	11:00 AM	NW	1.8
10 Mar 2022	12:00 PM	NW	1.8
10 Mar 2022	1:00 PM	NW	2.2
10 Mar 2022	2:00 PM	NW	0.4
10 Mar 2022	3:00 PM	NW	0.4
10 Mar 2022	4:00 PM	NW	0.4
10 Mar 2022	5:00 PM	NW	0.4
10 Mar 2022	6:00 PM	NW	1.3
10 Mar 2022	7:00 PM	ENE	1.3
10 Mar 2022	8:00 PM	NW	2.2
10 Mar 2022	9:00 PM	NW	1.3
10 Mar 2022	10:00 PM	NW	0.4
10 Mar 2022	11:00 PM	NW	0.9
11 Mar 2022	12:00 AM	NW	0.4
11 Mar 2022	1:00 AM	NW	0.4
11 Mar 2022	2:00 AM	NW	0.4
11 Mar 2022	3:00 AM	NW	0.4
11 Mar 2022	4:00 AM	NW	0.4
11 Mar 2022	5:00 AM	Ν	0.4
11 Mar 2022	6:00 AM	NNW	0.4
11 Mar 2022	7:00 AM	NNW	0.4
11 Mar 2022	8:00 AM	NW	0.9
11 Mar 2022	9:00 AM	NNW	0.4
11 Mar 2022	10:00 AM	NW	0.9
11 Mar 2022	11:00 AM	E	0.9
11 Mar 2022	12:00 PM	ENE	0.9
11 Mar 2022	1:00 PM	E	1.3
11 Mar 2022	2:00 PM	E	2.2
11 Mar 2022	3:00 PM	ENE	2.7
11 Mar 2022	4:00 PM	ENE	1.3
11 Mar 2022	5:00 PM	ENE	1.3
11 Mar 2022	6:00 PM	E	1.8
11 Mar 2022	7:00 PM	ESE	1.3
11 Mar 2022	8:00 PM	NW	1.3
11 Mar 2022	9:00 PM	ENE	0.9
11 Mar 2022	10:00 PM	ENE	0.9
11 Mar 2022	11:00 PM	E	0.9
11 Mar 2022	11:00 FM 12:00 AM	E	0.4
12 Mar 2022	1:00 AM	E E	0.0
12 Mar 2022	2:00 AM	NW	0.4
12 Mar 2022	3:00 AM		0.0
12 Mar 2022	4:00 AM		0.0
12 Mar 2022	5:00 AM	NNW	0.0
12 Mar 2022	6:00 AM	NW	0.0
12 Mar 2022	7:00 AM	NW	0.4
12 Mar 2022	8:00 AM	NW	0.4
12 Mar 2022	9:00 AM	NW	0.4
12 Mar 2022	10:00 AM	E	1.3
12 Mar 2022	11:00 AM	E	1.3
12 Mar 2022	12:00 PM	ENE	2.2
12 Mar 2022	1:00 PM	ESE	1.3
12 Mar 2022	2:00 PM	NW	0.4
12 Mar 2022	3:00 PM	NW	0.9

March 2022				
	Wind Speed a	nd Directions		
Date	Time	Direction	Wind Speed m-s	
12 Mar 2022	4:00 PM	NW	0.4	
12 Mar 2022	5:00 PM	NW	0.4	
12 Mar 2022	6:00 PM	NW	0.4	
12 Mar 2022	7:00 PM	NW	0.4	
12 Mar 2022	8:00 PM	E	0.4	
12 Mar 2022	9:00 PM	ENE	0.4	
12 Mar 2022	10:00 PM	Е	0.4	
12 Mar 2022	11:00 PM	Е	0.4	
13 Mar 2022	12:00 AM	ENE	0.9	
13 Mar 2022	1:00 AM	ENE	0.4	
13 Mar 2022	2:00 AM	ENE	0.4	
13 Mar 2022	3:00 AM	Е	0.9	
13 Mar 2022	4:00 AM	ESE	0.0	
13 Mar 2022	5:00 AM	NW	0.9	
13 Mar 2022	6:00 AM	ENE	0.9	
13 Mar 2022	7:00 AM	ENE	0.9	
13 Mar 2022	8:00 AM	Е	0.4	
13 Mar 2022	9:00 AM	Е	1.3	
13 Mar 2022	10:00 AM	Е	0.4	
13 Mar 2022	11:00 AM	NNE	0.9	
13 Mar 2022	12:00 PM	NW	0.9	
13 Mar 2022	1:00 PM	NW	1.3	
13 Mar 2022	2:00 PM	NW	2.7	
13 Mar 2022	3:00 PM	NW	2.7	
13 Mar 2022	4:00 PM	NW	2.7	
13 Mar 2022	5:00 PM	NW	1.8	
13 Mar 2022	6:00 PM	NW	0.4	
13 Mar 2022	7:00 PM	NW	0.9	
13 Mar 2022	8:00 PM	NW	1.3	
13 Mar 2022	9:00 PM	W	0.4	
13 Mar 2022	10:00 PM	NW	0.4	
13 Mar 2022	10:00 T M 11:00 PM	NW	0.9	
13 Mar 2022 14 Mar 2022	12:00 AM	WSW	0.4	
	12.00 AM 1:00 AM		1.3	
14 Mar 2022	1 1	NW		
14 Mar 2022	2:00 AM	NW	0.9	
14 Mar 2022	3:00 AM	NW	1.8	
14 Mar 2022	4:00 AM	NW	1.8	
14 Mar 2022	5:00 AM	NW	1.8	
14 Mar 2022	6:00 AM	NW	0.9	
14 Mar 2022	7:00 AM	NW	1.3	
14 Mar 2022	8:00 AM	NW	0.9	
14 Mar 2022	9:00 AM	W	0.4	
14 Mar 2022	10:00 AM	NW	0.4	
14 Mar 2022	11:00 AM	NW	0.9	
14 Mar 2022	12:00 PM	ENE	1.3	
14 Mar 2022	1:00 PM	NW	0.9	
14 Mar 2022	2:00 PM	ENE	1.3	
14 Mar 2022	3:00 PM	ENE	1.8	
14 Mar 2022	4:00 PM	NW	2.7	
14 Mar 2022	5:00 PM	NE	1.8	
14 Mar 2022	6:00 PM	NW	0.9	
14 Mar 2022	7:00 PM	ENE	0.4	
14 Mar 2022	8:00 PM	Е	0.4	
14 Mar 2022	9:00 PM	E	0.4	
14 Mar 2022	10:00 PM	E	0.4	
14 Mar 2022	11:00 PM	NW	0.4	

Vind Speed and Directions Vind Speed and Speed	March 2022				
15 Mar 2022 12:00 AM NW 0.4 15 Mar 2022 1:00 AM ESE 2.2 15 Mar 2022 2:00 AM WNW 0.9 15 Mar 2022 3:00 AM WNW 0.9 15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 5:00 AM ENE 2.2 15 Mar 2022 6:00 AM NW 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 9:00 AM NW 1.3 15 Mar 2022 10:00 AM NE 1.8 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 1:00 PM E 1.8 15 Mar 2022 4:00 PM E 1.8 15 Mar 2022 6:00 PM E 1.8 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 1:00 PM ESE 1.3 15 Mar 2022 1:00 PM ESE 0.9 <th></th> <th>Wind Speed a</th> <th>and Directions</th> <th></th>		Wind Speed a	and Directions		
15 Mar 2022 1:00 AM ESE 2.2 15 Mar 2022 2:00 AM WNW 0.9 15 Mar 2022 3:00 AM WNW 0.9 15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 6:00 AM ENE 1.8 15 Mar 2022 6:00 AM ENE 2.2 15 Mar 2022 8:00 AM ENE 2.2 15 Mar 2022 10:00 AM NW 1.3 15 Mar 2022 10:00 AM NW 1.3 15 Mar 2022 10:00 PM E 2.7 15 Mar 2022 10:00 PM E 2.7 15 Mar 2022 10:00 PM E 1.3 15 Mar 2022 10:00 PM E 3.1 15 Mar 2022 5:00 PM E 1.8 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 9:00 PM E 1.3 15 Mar 2022 9:00 PM E 1.3 15 Mar 2022 9:00 PM E 1.3 <th>Date</th> <th>Time</th> <th>Direction</th> <th>Wind Speed m-s</th>	Date	Time	Direction	Wind Speed m-s	
15 Mar 2022 2:00 AM WNW 0.9 15 Mar 2022 3:00 AM E 2.2 15 Mar 2022 4:00 AM E 2.2 15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 6:00 AM NW 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 9:00 AM NW 1.3 15 Mar 2022 10:00 AM NW 1.8 15 Mar 2022 11:00 AM NW 1.8 15 Mar 2022 12:00 PM E 2.7 15 Mar 2022 10:00 PM E 2.7 15 Mar 2022 5:00 PM E 1.3 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 9:00 PM E 1.3 15 Mar 2022 10:00 PM ESE 1.3 15 Mar 2022 10:00 AM E 0.9 16 Mar 2022 10:00 AM E 0.9	15 Mar 2022	12:00 AM	NW	0.4	
15 Mar 2022 3:00 AM WNW 0.9 15 Mar 2022 4:00 AM E 2.2 15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 9:00 AM NW 1.3 15 Mar 2022 10:00 AM NE 1.8 15 Mar 2022 12:00 PM ENE 1.3 15 Mar 2022 1:00 AM NW 1.8 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 3:00 PM E 1.3 15 Mar 2022 5:00 PM E 1.3 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 7:00 PM ESE 1.3 15 Mar 2022 9:00 PM E 1.3 15 Mar 2022 10:00 PM ESE 0.9 16 Mar 2022 10:00 PM ESE 1.3 15 Mar 2022 10:00 AM E 0.9	15 Mar 2022	1:00 AM	ESE	2.2	
15 Mar 2022 4:00 AM E 2.2 15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 6:00 AM NW 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 9:00 AM NW 1.3 15 Mar 2022 10:00 AM NE 1.8 15 Mar 2022 11:00 AM NW 1.3 15 Mar 2022 12:00 PM ENE 2.7 15 Mar 2022 10:00 PM E 2.7 15 Mar 2022 3:00 PM E 2.7 15 Mar 2022 4:00 PM E 1.8 15 Mar 2022 6:00 PM E 1.8 15 Mar 2022 7:00 PM ESE 1.3 15 Mar 2022 9:00 PM E 1.3 15 Mar 2022 10:00 PM ENE 0.9 16 Mar 2022 10:00 PM ESE 0.9 16 Mar 2022 1:00 AM E 1.3 15 Mar 2022 1:00 AM E 1.3 <td>15 Mar 2022</td> <td>2:00 AM</td> <td>WNW</td> <td>0.9</td>	15 Mar 2022	2:00 AM	WNW	0.9	
15 Mar 2022 5:00 AM ENE 1.8 15 Mar 2022 6:00 AM NW 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 8:00 AM ENE 2.2 15 Mar 2022 10:00 AM NW 1.3 15 Mar 2022 10:00 AM NE 1.8 15 Mar 2022 10:00 AM NW 1.8 15 Mar 2022 10:00 PM E 2.7 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 2:00 PM E 3.1 15 Mar 2022 5:00 PM E 1.3 15 Mar 2022 5:00 PM E 1.3 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 10:00 PM ESE 1.3 15 Mar 2022 10:00 PM ESE 0.9 16 Mar 2022 10:00 AM E 0.9 16 Mar 2022 10:00 AM E 2.7 16 Mar 2022 1:00 AM E 2.7 <td>15 Mar 2022</td> <td>3:00 AM</td> <td>WNW</td> <td>0.9</td>	15 Mar 2022	3:00 AM	WNW	0.9	
15 Mar 2022 6:00 AM NW 1.8 15 Mar 2022 7:00 AM ENE 2.2 15 Mar 2022 8:00 AM ENE 2.2 15 Mar 2022 9:00 AM NW 1.3 15 Mar 2022 11:00 AM NW 1.8 15 Mar 2022 12:00 PM ENE 1.3 15 Mar 2022 10:00 AM NW 1.8 15 Mar 2022 1:00 PM E 2.7 15 Mar 2022 2:00 PM E 2.7 15 Mar 2022 3:00 PM E 3.1 15 Mar 2022 6:00 PM E 1.3 15 Mar 2022 7:00 PM E 1.3 15 Mar 2022 10:00 PM E 1.3 15 Mar 2022 10:00 PM ENE 0.9 15 Mar 2022 10:00 PM ESE 1.3 16 Mar 2022 10:00 AM E 1.3 16 Mar 2022 10:00 AM E 2.7 16 Mar 2022 1:00 AM E 2.7 <td>15 Mar 2022</td> <td>4:00 AM</td> <td>Е</td> <td>2.2</td>	15 Mar 2022	4:00 AM	Е	2.2	
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16 Mar 202211:00 AME1.316 Mar 202212:00 PME1.316 Mar 20221:00 PME1.316 Mar 20222:00 PME0.916 Mar 20223:00 PMSE0.916 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20225:00 PMESE0.916 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE0.917 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 202212:00 PME1.316 Mar 20221:00 PME1.316 Mar 20222:00 PME0.916 Mar 20223:00 PMSE0.916 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20227:00 PMESE1.316 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE1.316 Mar 202211:00 PMESE0.917 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20221:00 PME1.316 Mar 20222:00 PME0.916 Mar 20223:00 PMSE0.916 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE1.316 Mar 202211:00 PMESE0.917 Mar 202212:00 AMESE0.917 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20222:00 PME0.916 Mar 20223:00 PMSE0.916 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE0.917 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20223:00 PMSE0.916 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE1.316 Mar 202210:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20224:00 PME1.316 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 20229:00 PMESE0.916 Mar 202210:00 PMESE1.316 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20225:00 PMESE0.916 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 20229:00 PMESE0.916 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE0.917 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20226:00 PMESE0.916 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20227:00 PMESE0.916 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20228:00 PMESE1.316 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 20229:00 PMESE1.316 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 202210:00 PMESE0.916 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
16 Mar 202211:00 PMESE1.317 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20223:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMSE1.3					
17 Mar 202212:00 AMESE0.917 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20224:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
17 Mar 20221:00 AME0.417 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20224:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
17 Mar 20222:00 AMSE0.917 Mar 20223:00 AMSE0.917 Mar 20224:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
17 Mar 20223:00 AMSE0.917 Mar 20224:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
17 Mar 20224:00 AMSE1.317 Mar 20225:00 AMSE1.317 Mar 20226:00 AMWNW1.8					
17 Mar 2022 5:00 AM SE 1.3 17 Mar 2022 6:00 AM WNW 1.8					
17 Mar 2022 6:00 AM WNW 1.8					
17 Mar 2022 7:00 AM WNW 1.3					
	17 Mar 2022	7:00 AM	WNW	1.3	

March 2022			
	Wind Speed an		
Date	Time	Direction	Wind Speed m-s
17 Mar 2022	8:00 AM	WNW	1.8
17 Mar 2022	9:00 AM	NNW	1.8
17 Mar 2022	10:00 AM	WNW	0.9
17 Mar 2022	11:00 AM	WNW	0.9
17 Mar 2022	12:00 PM	NNW	1.3
17 Mar 2022	1:00 PM	NNW	1.8
17 Mar 2022	2:00 PM	WNW	0.9
17 Mar 2022	3:00 PM	NW	0.4
17 Mar 2022	4:00 PM	NW	0.4
17 Mar 2022	5:00 PM	NNW	0.4
17 Mar 2022	6:00 PM	ENE	0.4
17 Mar 2022	7:00 PM	NW	1.3
17 Mar 2022	8:00 PM	ENE	0.9
17 Mar 2022	9:00 PM	ENE	1.8
17 Mar 2022	10:00 PM	NW	1.3
17 Mar 2022	11:00 PM	NE	2.2
18 Mar 2022	12:00 AM	NW	2.7
18 Mar 2022	1:00 AM	ENE	2.7
18 Mar 2022	2:00 AM	E	1.3
18 Mar 2022	3:00 AM	E	1.8
18 Mar 2022	4:00 AM	E	1.3
18 Mar 2022	5:00 AM	NNW	0.9
18 Mar 2022	6:00 AM	NNW	0.4
18 Mar 2022	7:00 AM	NNW	0.4
18 Mar 2022	8:00 AM	NNW	0.9
18 Mar 2022	9:00 AM	NNW	0.9
18 Mar 2022	10:00 AM	NNW	0.4
18 Mar 2022	11:00 AM	NNW	0.4
18 Mar 2022	12:00 PM	NNW	0.4
18 Mar 2022	1:00 PM	NNW	0.9
18 Mar 2022	2:00 PM	NNW	0.9
18 Mar 2022	3:00 PM	Ν	0.4
18 Mar 2022	4:00 PM	NNW	0.0
18 Mar 2022	5:00 PM	NNW	0.9
18 Mar 2022	6:00 PM	NW	0.4
18 Mar 2022	7:00 PM	NNW	0.4
18 Mar 2022	8:00 PM	Ν	0.4
18 Mar 2022	9:00 PM	NNW	0.9
18 Mar 2022	10:00 PM	NNW	0.9
18 Mar 2022	11:00 PM	N	0.4
19 Mar 2022	12:00 AM	ENE	0.0
19 Mar 2022	1:00 AM	ENE	0.0
19 Mar 2022	2:00 AM	ENE	0.0
19 Mar 2022	3:00 AM	ENE	0.0
19 Mar 2022	4:00 AM	ENE	0.0
19 Mar 2022	5:00 AM	N	0.0
19 Mar 2022	6:00 AM	N	0.0
19 Mar 2022 19 Mar 2022	7:00 AM	N	0.4
19 Mar 2022 19 Mar 2022	8:00 AM	NNW	0.4
19 Mar 2022 19 Mar 2022	9:00 AM	NW	0.9
19 Mar 2022 19 Mar 2022	10:00 AM	NNW	1.8
19 Mar 2022 19 Mar 2022	10:00 AM 11:00 AM	NNW	1.8
		W	
19 Mar 2022	12:00 PM		0.9
19 Mar 2022	1:00 PM	NNW	0.9
19 Mar 2022	2:00 PM	W	1.3
19 Mar 2022	3:00 PM	W	0.9

March 2022				
	Wind Speed a	nd Directions		
Date	Time	Direction	Wind Speed m-s	
19 Mar 2022	4:00 PM	W	0.4	
19 Mar 2022	5:00 PM	NNW	0.4	
19 Mar 2022	6:00 PM	ENE	0.4	
19 Mar 2022	7:00 PM	E	0.9	
19 Mar 2022	8:00 PM	ENE	0.9	
19 Mar 2022	9:00 PM	NE	0.9	
19 Mar 2022	10:00 PM	NE	0.9	
19 Mar 2022	11:00 PM	ENE	1.3	
20 Mar 2022	12:00 AM	Е	1.3	
20 Mar 2022	1:00 AM	Е	0.9	
20 Mar 2022	2:00 AM	E	0.9	
20 Mar 2022	3:00 AM	Е	0.9	
20 Mar 2022	4:00 AM	Е	0.9	
20 Mar 2022	5:00 AM	ENE	0.9	
20 Mar 2022	6:00 AM	ENE	0.9	
20 Mar 2022	7:00 AM	Ν	0.9	
20 Mar 2022	8:00 AM	ENE	0.9	
20 Mar 2022	9:00 AM	NE	0.9	
20 Mar 2022	10:00 AM	NNW	1.3	
20 Mar 2022	11:00 AM	W	1.8	
20 Mar 2022	12:00 PM	NNW	1.3	
20 Mar 2022	1:00 PM	NNW	1.8	
20 Mar 2022	2:00 PM	NNW	1.8	
20 Mar 2022 20 Mar 2022	3:00 PM	NNW	2.2	
20 Mar 2022	4:00 PM	NNW	1.8	
20 Mar 2022 20 Mar 2022	5:00 PM	NNW	2.2	
20 Mar 2022 20 Mar 2022	6:00 PM	NE	1.8	
20 Mar 2022 20 Mar 2022	0.00 PM 7:00 PM	ENE	0.9	
20 Mar 2022 20 Mar 2022	8:00 PM	N ENE	0.9	
20 Mar 2022 20 Mar 2022	9:00 PM	N N	0.0	
		E N	0.0	
20 Mar 2022	10:00 PM			
20 Mar 2022	11:00 PM	NE	0.0	
21 Mar 2022	12:00 AM	NE	0.0	
21 Mar 2022	1:00 AM	NE	0.0	
21 Mar 2022	2:00 AM	NNE	0.0	
21 Mar 2022	3:00 AM	NNE	0.0	
21 Mar 2022	4:00 AM	NE	0.0	
21 Mar 2022	5:00 AM	NE	0.0	
21 Mar 2022	6:00 AM	NE	0.0	
21 Mar 2022	7:00 AM	NNW	0.0	
21 Mar 2022	8:00 AM	NE	0.0	
21 Mar 2022	9:00 AM	NE	0.0	
21 Mar 2022	10:00 AM	NNW	0.4	
21 Mar 2022	11:00 AM	NNW	1.3	
21 Mar 2022	12:00 PM	NNW	0.9	
21 Mar 2022	1:00 PM	NNW	0.9	
21 Mar 2022	2:00 PM	NNW	0.9	
21 Mar 2022	3:00 PM	NNW	0.9	
21 Mar 2022	4:00 PM	NNW	3.1	
21 Mar 2022	5:00 PM	NNW	1.8	
21 Mar 2022	6:00 PM	NNW	1.3	
21 Mar 2022	7:00 PM	NE	0.4	
21 Mar 2022	8:00 PM	ENE	0.9	
21 Mar 2022	9:00 PM	NNE	0.9	
21 Mar 2022	10:00 PM	ENE	0.9	
21 Mar 2022	11:00 PM	NE	0.9	

March 2022				
	Wind Speed a	and Directions		
Date	Time	Direction	Wind Speed m-s	
22 Mar 2022	12:00 AM	WNW	0.4	
22 Mar 2022	1:00 AM	WNW	0.4	
22 Mar 2022	2:00 AM	WNW	0.4	
22 Mar 2022	3:00 AM	NW	0.4	
22 Mar 2022	4:00 AM	W	0.0	
22 Mar 2022	5:00 AM	W	0.0	
22 Mar 2022	6:00 AM	WNW	0.0	
22 Mar 2022	7:00 AM	WNW	0.4	
22 Mar 2022	8:00 AM	W	0.4	
22 Mar 2022	9:00 AM	W	0.9	
22 Mar 2022	10:00 AM	W	0.9	
22 Mar 2022	11:00 AM	SSW	0.9	
22 Mar 2022	12:00 PM	SSW	0.9	
22 Mar 2022	1:00 PM	W	1.3	
22 Mar 2022	2:00 PM	SW	1.3	
22 Mar 2022	3:00 PM	SW	0.9	
22 Mar 2022	4:00 PM	SSW	0.0	
22 Mar 2022	5:00 PM	SSW	0.4	
22 Mar 2022	6:00 PM	SSW	1.3	
22 Mar 2022	7:00 PM	WNW	0.4	
22 Mar 2022	8:00 PM	WNW	0.4	
22 Mar 2022	9:00 PM	WNW	0.4	
22 Mar 2022	10:00 PM	WNW	0.0	
22 Mar 2022	11:00 PM	WNW	0.4	
23 Mar 2022	12:00 AM	W	0.9	
23 Mar 2022	1:00 AM	WNW	0.0	
23 Mar 2022	2:00 AM	WNW	0.4	
23 Mar 2022	3:00 AM	WNW	0.9	
23 Mar 2022	4:00 AM	WNW	1.8	
23 Mar 2022	5:00 AM	NW	1.3	
23 Mar 2022	6:00 AM	ESE	0.9	
23 Mar 2022	7:00 AM	ESE	0.9	
23 Mar 2022	8:00 AM	NW	2.7	
23 Mar 2022	9:00 AM	WNW	1.3	
23 Mar 2022	10:00 AM	WNW	1.8	
23 Mar 2022	11:00 AM	WNW	0.0	
23 Mar 2022	12:00 PM	WNW	0.9	
23 Mar 2022	1:00 PM	SW	1.3	
23 Mar 2022	2:00 PM	ENE	1.3	
23 Mar 2022	3:00 PM	ENE	1.3	
23 Mar 2022	4:00 PM	SW	1.3	
23 Mar 2022	5:00 PM	SW	1.8	
23 Mar 2022	6:00 PM	SSW	0.9	
23 Mar 2022	7:00 PM	SW	1.3	
23 Mar 2022	8:00 PM	ENE	0.9	
23 Mar 2022	9:00 PM	ENE	0.9	
23 Mar 2022	10:00 PM	SW	0.4	
23 Mar 2022	11:00 PM	ESE	0.9	
24 Mar 2022	12:00 AM	W	0.4	
24 Mar 2022	1:00 AM	NE	0.4	
24 Mar 2022	2:00 AM	NW	0.4	
24 Mar 2022	3:00 AM	WNW	0.0	
24 Mar 2022	4:00 AM	W	0.0	
24 Mar 2022	5:00 AM	W	0.4	
24 Mar 2022	6:00 AM	NW	0.4	
24 Mar 2022	7:00 AM	WNW	0.9	
2 1 11101 2022	7.00711111	** * * * *	0.7	

March 2022					
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
24 Mar 2022	8:00 AM	WNW	1.3		
24 Mar 2022	9:00 AM	NW	1.3		
24 Mar 2022	10:00 AM	W	0.9		
24 Mar 2022	11:00 AM	WSW	0.9		
24 Mar 2022	12:00 PM	WNW	0.9		
24 Mar 2022	1:00 PM	WNW	0.9		
24 Mar 2022	2:00 PM	ESE	0.9		
24 Mar 2022	3:00 PM	E	0.9		
24 Mar 2022	4:00 PM	WNW	0.4		
24 Mar 2022	5:00 PM	NW	0.4		
24 Mar 2022	6:00 PM	W	0.4		
24 Mar 2022	7:00 PM	W	0.9		
24 Mar 2022	8:00 PM	NW	0.9		
24 Mar 2022	9:00 PM	WNW	0.9		
24 Mar 2022	10:00 PM	WNW	1.3		
24 Mar 2022	11:00 PM	ESE	1.8		
25 Mar 2022	12:00 AM	Е	2.7		
25 Mar 2022	1:00 AM	WNW	3.6		
25 Mar 2022	2:00 AM	NW	2.2		
25 Mar 2022	3:00 AM	W	2.2		
25 Mar 2022	4:00 AM	W	1.8		
25 Mar 2022	5:00 AM	NW	1.3		
25 Mar 2022	6:00 AM	WNW	0.9		
25 Mar 2022	7:00 AM	NW	0.4		
25 Mar 2022	8:00 AM	WNW	0.4		
25 Mar 2022	9:00 AM	ENE	0.4		
25 Mar 2022	10:00 AM	NW	0.9		
25 Mar 2022	11:00 AM	ENE	0.9		
25 Mar 2022	12:00 PM	ENE	1.3		
25 Mar 2022	1:00 PM	NW	0.4		
25 Mar 2022	2:00 PM	NE	0.9		
25 Mar 2022	3:00 PM	NW	1.8		
25 Mar 2022	4:00 PM	ENE	0.4		
25 Mar 2022	5:00 PM	E	0.9		
25 Mar 2022	6:00 PM	E E	0.9		
25 Mar 2022 25 Mar 2022	7:00 PM	E E	0.9		
25 Mar 2022 25 Mar 2022	8:00 PM	NW	1.8		
25 Mar 2022 25 Mar 2022	9:00 PM	NW	0.9		
25 Mar 2022 25 Mar 2022	9.00 PM 10:00 PM	NW	0.9		
25 Mar 2022 25 Mar 2022	10.00 PM 11:00 PM	NW	0.4		
25 Mar 2022 26 Mar 2022	12:00 AM	NW	0.0		
26 Mar 2022 26 Mar 2022	12:00 AM 1:00 AM	NW	0.9		
26 Mar 2022 26 Mar 2022	2:00 AM	NW	0.4		
26 Mar 2022 26 Mar 2022	2:00 AM 3:00 AM	NW	0.9		
26 Mar 2022 26 Mar 2022	4:00 AM	NW	1.3		
26 Mar 2022 26 Mar 2022	5:00 AM	NW	2.7		
26 Mar 2022 26 Mar 2022	6:00 AM	NNW	2.7		
26 Mar 2022 26 Mar 2022					
	7:00 AM	NW	2.7		
26 Mar 2022	8:00 AM	NW	3.1		
26 Mar 2022	9:00 AM	NW	2.2		
26 Mar 2022	10:00 AM	NW	1.3		
26 Mar 2022	11:00 AM	NW	0.9		
26 Mar 2022	12:00 PM	NW	0.9		
26 Mar 2022	1:00 PM	NW	0.9		
26 Mar 2022	2:00 PM	NW	0.9		
26 Mar 2022	3:00 PM	NW	0.9		

March 2022						
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
26 Mar 2022	4:00 PM	NW	0.9			
26 Mar 2022	5:00 PM	NW	0.9			
26 Mar 2022	6:00 PM	WNW	1.3			
26 Mar 2022	7:00 PM	NW	0.9			
26 Mar 2022	8:00 PM	NW	1.8			
26 Mar 2022	9:00 PM	NW	0.9			
26 Mar 2022	10:00 PM	NW	0.9			
26 Mar 2022	11:00 PM	W	0.9			
27 Mar 2022	12:00 AM	W	0.9			
27 Mar 2022	1:00 AM	NW	0.9			
27 Mar 2022	2:00 AM	NW	1.3			
27 Mar 2022	3:00 AM	NW	0.9			
27 Mar 2022	4:00 AM	W	0.0			
27 Mar 2022	5:00 AM	WNW	0.9			
27 Mar 2022	6:00 AM	W	0.9			
27 Mar 2022	7:00 AM	WNW	0.9			
27 Mar 2022	8:00 AM	NNE	0.4			
27 Mar 2022	9:00 AM	W	0.4			
27 Mar 2022	10:00 AM	ENE	0.4			
27 Mar 2022	11:00 AM	NW	0.9			
27 Mar 2022	12:00 PM	ENE	0.0			
27 Mar 2022	1:00 PM	ENE	0.0			
27 Mar 2022	2:00 PM	NW	0.9			
27 Mar 2022	3:00 PM	NE	0.9			
27 Mar 2022	4:00 PM	NW	0.0			
27 Mar 2022	5:00 PM	ENE	0.0			
27 Mar 2022	6:00 PM	Е	1.3			
27 Mar 2022	7:00 PM	Е	1.8			
27 Mar 2022	8:00 PM	Е	0.9			
27 Mar 2022	9:00 PM	WSW	1.3			
27 Mar 2022	10:00 PM	WSW	0.9			
27 Mar 2022	11:00 PM	WSW	1.3			
28 Mar 2022	12:00 AM	W	0.4			
28 Mar 2022	1:00 AM	NE	0.4			
28 Mar 2022	2:00 AM	ENE	0.4			
28 Mar 2022	3:00 AM	NE	0.0			
28 Mar 2022	4:00 AM	NE	0.4			
28 Mar 2022	5:00 AM	WSW	0.4			
28 Mar 2022	6:00 AM	W	0.4			
28 Mar 2022	7:00 AM	WSW	0.9			
28 Mar 2022	8:00 AM	WSW	0.9			
28 Mar 2022	9:00 AM	WSW	0.9			
28 Mar 2022	10:00 AM	WSW	1.3			
28 Mar 2022	11:00 AM	WNW	1.8			
28 Mar 2022	12:00 PM	WNW	2.7			
28 Mar 2022	1:00 PM	WSW	3.6			
28 Mar 2022	2:00 PM	ENE	2.2			

		2022	March 2022					
Wind Speed and Directions								
Date	Time	Direction	Wind Speed m-s					
28 Mar 2022	3:00 PM	SW	2.2					
28 Mar 2022	4:00 PM	ENE	1.8					
28 Mar 2022	5:00 PM	Е	1.3					
28 Mar 2022	6:00 PM	SW	0.9					
28 Mar 2022	7:00 PM	ENE	0.4					
28 Mar 2022	8:00 PM	ENE	0.4					
28 Mar 2022	9:00 PM	SW	0.4					
28 Mar 2022	10:00 PM	SW	0.9					
28 Mar 2022	11:00 PM	SSW	0.9					
29 Mar 2022	12:00 AM	SW	1.3					
29 Mar 2022	1:00 AM	E	0.9					
29 Mar 2022	2:00 AM	ENE	0.4					
29 Mar 2022	3:00 AM	E	0.4					
29 Mar 2022 29 Mar 2022	4:00 AM	ENE	0.4					
29 Mar 2022 29 Mar 2022	5:00 AM	NW	0.0					
29 Mar 2022 29 Mar 2022	6:00 AM	ENE	0.9					
29 Mar 2022	7:00 AM	WNW	0.9					
29 Mar 2022	8:00 AM	ENE	0.9					
29 Mar 2022	9:00 AM	ESE	1.3					
29 Mar 2022	10:00 AM	NW	0.4					
29 Mar 2022	11:00 AM	NW	0.4					
29 Mar 2022	12:00 PM	NW	0.9					
29 Mar 2022	1:00 PM	NNE	0.4					
29 Mar 2022	2:00 PM	NNW	0.4					
29 Mar 2022	3:00 PM	W	0.4					
29 Mar 2022	4:00 PM	SW	0.9					
29 Mar 2022	5:00 PM	SW	0.9					
29 Mar 2022	6:00 PM	SSW	0.4					
29 Mar 2022	7:00 PM	SW	0.4					
29 Mar 2022	8:00 PM	Е	0.4					
29 Mar 2022	9:00 PM	ENE	0.9					
29 Mar 2022	10:00 PM	Е	0.4					
29 Mar 2022	11:00 PM	ENE	0.4					
30 Mar 2022	12:00 AM	NW	0.4					
30 Mar 2022	1:00 AM	ENE	0.0					
30 Mar 2022	2:00 AM	WNW	0.9					
30 Mar 2022	3:00 AM	SW	1.3					
30 Mar 2022	4:00 AM	ENE	1.3					
30 Mar 2022	4.00 AM 5:00 AM	ENE	1.3					
30 Mar 2022	6:00 AM	SW	1.3					
30 Mar 2022	7:00 AM	SW	1.8					
30 Mar 2022	8:00 AM	SSW	0.9					
30 Mar 2022	9:00 AM	SW	1.3					
30 Mar 2022	10:00 AM	ENE	0.9					
30 Mar 2022	11:00 AM	ENE	0.9					
30 Mar 2022	12:00 PM	SW	0.4					
30 Mar 2022	1:00 PM	ESE	0.9					
30 Mar 2022	2:00 PM	W	0.4					
30 Mar 2022	3:00 PM	NE	0.4					
30 Mar 2022	4:00 PM	NW	0.4					
30 Mar 2022	5:00 PM	WNW	0.0					
30 Mar 2022	6:00 PM	SW	0.0					
	7:00 PM	SW	0.4					
30 Mar 2022	7.00 I WI		0.1					
30 Mar 2022 30 Mar 2022	8:00 PM	SSW	0.4					

March 2022						
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
30 Mar 2022	11:00 PM	ENE	1.3			
31 Mar 2022	12:00 AM	Е	0.9			
31 Mar 2022	1:00 AM	ENE	0.9			
31 Mar 2022	2:00 AM	NW	0.9			
31 Mar 2022	3:00 AM	ENE	0.9			
31 Mar 2022	4:00 AM	WNW	0.9			
31 Mar 2022	5:00 AM	Е	0.9			
31 Mar 2022	6:00 AM	WNW	0.4			
31 Mar 2022	7:00 AM	NW	0.4			
31 Mar 2022	8:00 AM	W	0.4			
31 Mar 2022	9:00 AM	W	0.9			
31 Mar 2022	10:00 AM	NW	0.9			
31 Mar 2022	11:00 AM	WNW	0.9			
31 Mar 2022	12:00 PM	WNW	1.3			
31 Mar 2022	1:00 PM	ESE	1.8			
31 Mar 2022	2:00 PM	Е	2.7			
31 Mar 2022	3:00 PM	SW	0.4			
31 Mar 2022	4:00 PM	SW	0.4			
31 Mar 2022	5:00 PM	SSW	2.2			
31 Mar 2022	6:00 PM	SW	1.8			
31 Mar 2022	7:00 PM	Е	1.3			
31 Mar 2022	8:00 PM	ENE	0.9			
31 Mar 2022	9:00 PM	Е	0.4			
31 Mar 2022	10:00 PM	ENE	1.3			
31 Mar 2022	11:00 PM	NW	0.9			

APPENDIX D 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 (March 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda
		1-Mar	2-Mar	3-Mar	4-Mar	
					1-hr TSP X3	
				24-hrs TSP		
6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	
				1-hr TSP X3 Noise		
			24-hrs TSP			
13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	
			1-hr TSP X3 Noise			
		24-hrs TSP				
20-Mar	21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	
		1-hr TSP X3 Noise				
	24-hrs TSP					24-hrs T
27-Mar	28-Mar	` 29-Mar	30-Mar	31-Mar		
	1-hr TSP X3 Noise					
				24-hrs TSP		

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

Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP*AM1 - Tin Hau Temple
AM2 - Sai Tso Wan Recreation Ground
AM3 - Yau Lai Estate Bik Lai House
AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village
AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

rday 5-Mar 12-Mar 19-Mar 26-Mar		
5-Mar 12-Mar 19-Mar 26-Mar	rday	
12-Mar 19-Mar 26-Mar		5-Mar
19-Mar 26-Mar		
19-Mar 26-Mar		12-Mar
26-Mar		12 Wiai
26-Mar		
		19-Mar
		26-Mar
s TSP		
	s TSF	b
	5 1 51	

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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 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Satur
					1-Apr	
					1-hr TSP X3	
3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	
				1-hr TSP X3 Noise		
			24-hrs TSP			
10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	
		1-hr TSP X3 Noise				
	24-hrs TSP			24-hrs TSP		
17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	
		1-hr TSP X3 Noise			1-hr TSP X3	
			24-hrs TSP			
24-Apr	25-Apr	` 26-Apr	27-Apr	28-Apr	29-Apr	
				1-hr TSP X3 Noise		
		24-hrs TSP				24-hrs

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

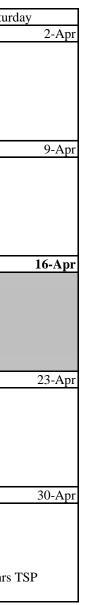
Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong



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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 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturda
1-May	2-May	3-May	4-May	5-May	6-May	
		1-hr TSP X3 Noise		24-hrs TSP	1-hr TSP X3	
8-May	9-May	10-May	11-May	12-May	13-May	
			24-hrs TSP	1-hr TSP X3 Noise		
15-May	16-May	17-May	18-May	19-May	20-May	
		24-hrs TSP	1-hr TSP X3 Noise			
22-May	23-May	24-May	25-May	26-May	27-May	
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs T
29-May	30-May	` 31-May				
The schedule may be chosen	1-hr TSP X3 Noise					

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP
AM1 - Tin Hau Temple
AM2 - Sai Tso Wan Recreation Ground
AM3 - Yau Lai Estate Bik Lai House
AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village
AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

rday	7-May
	7-Mav
	,
	1 3 6
1	4-May
2	1-May
	- 1.14
n	8-May
2	8-May
s TSP	
101	

Cinotech

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 (June 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Satur
			1-Jun	2-Jun	3-Jun	
				24-hrs TSP		
5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	
	1-hr TSP X3		24-hrs TSP	1-hr TSP X3 Noise		
12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	
		24-hrs TSP	1-hr TSP X3 Noise			
19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs
26-Jun	27-Jun	` 28-Jun	29-Jun	30-Jun		
	1-hr TSP X3 Noise					

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

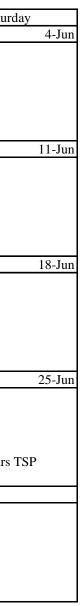
Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong



APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

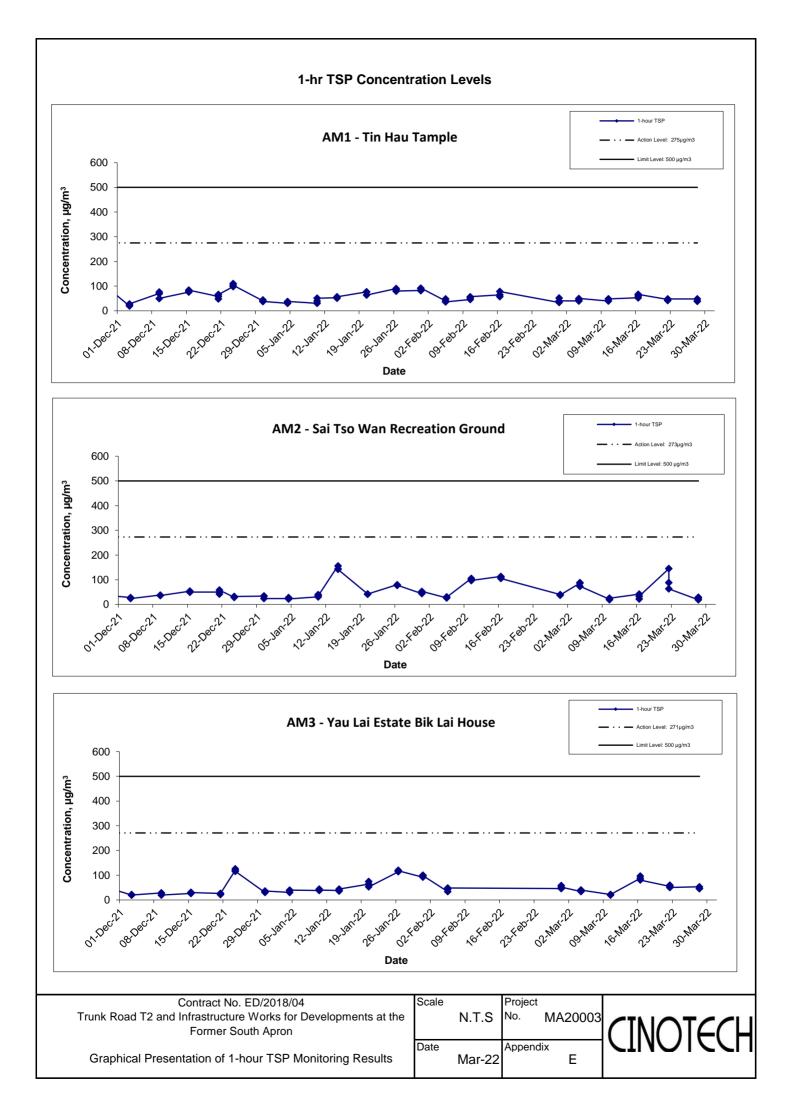
APPENDIX E - 1-HOUR TSP MONITORING RESULTS

Location AM1 -	Tin Hau Tem	ple	
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Mar-22	13:00	Sunny	40.0
4-Mar-22	14:00	Sunny	44.0
4-Mar-22	15:00	Sunny	50.0
10-Mar-22	14:00	Sunny	39.6
10-Mar-22	15:00	Sunny	48.4
10-Mar-22	16:00	Sunny	48.4
16-Mar-22	13:00	Sunny	52.9
16-Mar-22	14:00	Sunny	59.8
16-Mar-22	15:00	Sunny	66.7
22-Mar-22	13:00	Fine	46.2
22-Mar-22	14:00	Fine	41.8
22-Mar-22	15:00	Fine	48.4
28-Mar-22	9:28	Rainy	48.3
28-Mar-22	10:28	Rainy	39.1
28-Mar-22	11:28	Rainy	39.1
		Average	47.5
		Maximum	66.7
		Minimum	39.1

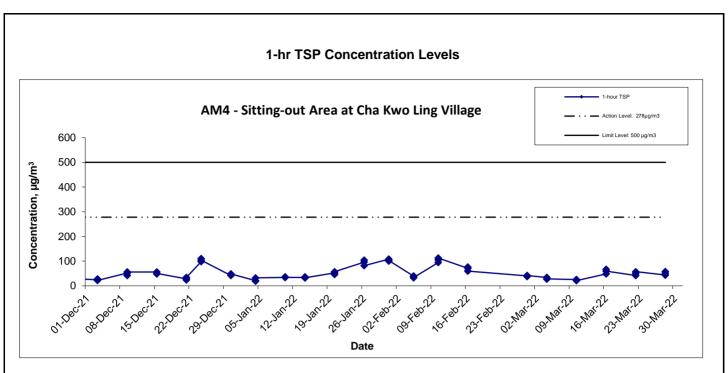
Location AM2 -	Sai Tso Wan	Recreation Grou	nd
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Mar-22	10:00	Sunny	86.1
4-Mar-22	11:00	Sunny	88.2
4-Mar-22	12:00	Sunny	73.5
10-Mar-22	12:00	Sunny	21.0
10-Mar-22	13:00	Sunny	18.9
10-Mar-22	14:00	Sunny	25.2
16-Mar-22	13:45	Sunny	41.8
16-Mar-22	14:45	Sunny	22.0
16-Mar-22	15:45	Sunny	33.0
22-Mar-22	11:00	Cloudy	144.9
22-Mar-22	12:00	Cloudy	88.2
22-Mar-22	13:00	Cloudy	63.0
28-Mar-22	11:00	Rainy	18.9
28-Mar-22	12:00	Rainy	25.2
28-Mar-22	13:00	Rainy	29.4
		Average	52.0
		Maximum	144.9
		Minimum	18.9

Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Mar-22	9:00	Sunny	34.0
4-Mar-22	10:00	Sunny	38.0
4-Mar-22	11:00	Sunny	40.0
10-Mar-22	14:00	Sunny	22.0
10-Mar-22	15:00	Sunny	19.8
10-Mar-22	16:00	Sunny	22.0
16-Mar-22	9:30	Sunny	87.4
16-Mar-22	10:30	Sunny	96.6
16-Mar-22	11:30	Sunny	80.5
22-Mar-22	16:00	Fine	55.0
22-Mar-22	17:00	Fine	59.4
22-Mar-22	18:00	Fine	50.6
28-Mar-22	15:11	Rainy	52.9
28-Mar-22	16:11	Rainy	46.0
28-Mar-22	17:11	Rainy	46.0
		Average	50.0
		Maximum	96.6
		Minimum	19.8
			13.6
ocation AM4 -	Sitting-out A	rea at Cha Kwo Li	
ocation AM4 - Date	Sitting-out A		ng Village
	1	rea at Cha Kwo Li	ng Village
Date	Time	rea at Cha Kwo Li Weather	ng Village Particulate Concentration (μg/m ³)
Date 4-Mar-22	Time 16:00	rea at Cha Kwo Li Weather Sunny	ng Village Particulate Concentration (μg/m ³) 34.0
Date 4-Mar-22 4-Mar-22	Time 16:00 17:00	rea at Cha Kwo Li Weather Sunny Sunny	ng Village Particulate Concentration(μg/m ³) 34.0 28.0
Date 4-Mar-22 4-Mar-22 4-Mar-22	Time 16:00 17:00 18:00	rea at Cha Kwo Li Weather Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0
Date 4-Mar-22 4-Mar-22 4-Mar-22 10-Mar-22	Time 16:00 17:00 18:00 15:00	rea at Cha Kwo Lin Weather Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2
Date 4-Mar-22 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22	Time 16:00 17:00 18:00 15:00 16:00	rea at Cha Kwo Li Weather Sunny Sunny Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1
Date 4-Mar-22 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0
Date 4-Mar-22 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 15:20	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20 17:20	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20 16:20 17:20 9:00	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22 22-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:00 17:20 9:00 10:00	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Fine	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8 50.6
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22 22-Mar-22 22-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20 16:20 17:20 9:00 10:00 11:00	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Fine Fine	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8 50.6 57.2
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22 22-Mar-22 22-Mar-22 28-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:00 17:20 9:00 10:00 11:00 12:40	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Fine Fine Fine Rainy	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8 50.6 57.2 43.7
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22 22-Mar-22 22-Mar-22 28-Mar-22 28-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20 16:20 17:20 9:00 10:00 11:00 12:40 13:40	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Fine Fine Fine Rainy Rainy Rainy	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8 50.6 57.2 43.7 57.5
Date 4-Mar-22 4-Mar-22 10-Mar-22 10-Mar-22 10-Mar-22 16-Mar-22 16-Mar-22 22-Mar-22 22-Mar-22 22-Mar-22 28-Mar-22 28-Mar-22	Time 16:00 17:00 18:00 15:00 16:00 17:00 16:20 16:20 17:20 9:00 10:00 11:00 12:40 13:40	rea at Cha Kwo Lin Weather Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Fine Fine Fine Fine Rainy Rainy	ng Village Particulate Concentration (μg/m ³) 34.0 28.0 28.0 25.2 23.1 21.0 48.3 66.7 59.8 41.8 50.6 57.2 43.7 57.5 50.6

APPENDIX E - 1-HOUR TSP MONITORING RESULTS



APPENDIX E - 1-HOUR TSP MONITORING RESULTS



Notes:

- 1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2. The weather conditions during the reporting month are presented in Appendix C.
- 3. Other factors which might affect the monitoring results are presented in Section 2.17.

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale		Project No. MA20003	
Graphical Presentation of 1-hour TSP Monitoring Results	Date	Mar-22	Appendix E	

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Air	Atmospheric	Filter W	Filter Weight (g)		Particulate Elapse Time S		Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
3-Mar-22	Sunny	293.4	762.9	3.3985	3.5726	0.1741	9691.2	9715.1	24.0	1.21	1.21	1.21	1735.2	100.3
9-Mar-22	Sunny	292.7	763.4	3.3209	3.4838	0.1629	9715.1	9739.1	24.0	1.21	1.21	1.21	1741.2	93.6
15-Mar-22	Sunny	296.1	759.4	3.3127	3.4214	0.1087	9739.1	9763.0	23.9	1.20	1.20	1.20	1722.3	63.1
21-Mar-22	Fine	295.6	760.6	3.3491	3.5003	0.1512	9763.0	9787.0	24.0	1.20	1.20	1.20	1730.6	87.4
26-Mar-22	Rainy	297.2	759.9	3.4025	3.5216	0.1191	9787.0	9811.0	24.0	1.19	1.20	1.20	1725.6	69.0
31-Mar-22	Fine	294.7	764.8	3.2995	3.4380	0.1385	9811.0	9835.0	24.0	1.20	1.21	1.21	1737.3	79.7
													Min	63.1
													Max	100.3
													Average	82.2

Location AM2 - Sai Tso Wan Recreation Ground

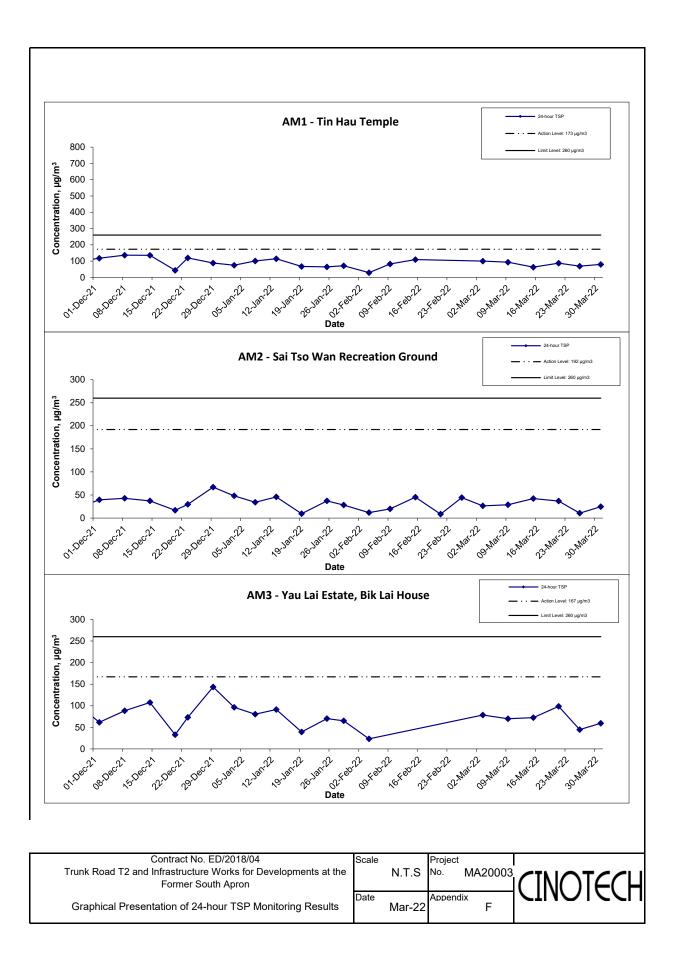
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Ra	te (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Mar-22	Sunny	293.4	762.9	3.2890	3.3348	0.0458	30739.2	30763.2	24.0	1.21	1.20	1.21	1738.7	26.3
9-Mar-22	Sunny	292.7	763.4	3.3095	3.3596	0.0501	30763.2	30787.2	24.0	1.21	1.21	1.21	1741.1	28.8
15-Mar-22	Fine	296.1	759.4	3.3216	3.3944	0.0728	30787.2	30811.2	24.0	1.20	1.20	1.20	1727.6	42.1
21-Mar-22	Cloudy	295.6	760.6	3.6552	3.7192	0.0640	30811.2	30835.2	24.0	1.20	1.20	1.20	1730.2	37.0
26-Mar-22	Rainy	297.2	759.9	3.3569	3.3754	0.0185	30835.2	30859.2	24.0	1.19	1.20	1.20	1725.1	10.7
31-Mar-22	Sunny	294.7	764.8	3.3899	3.4326	0.0427	30859.2	30883.2	24.0	1.20	1.21	1.21	1737.1	24.6
													Min	10.7
													Max	42.1
													Average	28.3

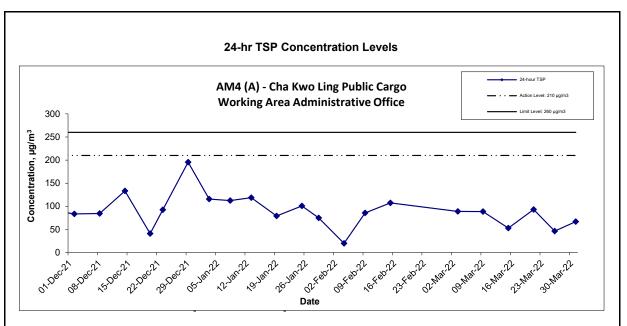
Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Air	Atmospheric	Filter W	Filter Weight (g) F		Elaps	e Time	Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Mar-22	Sunny	293.4	762.9	3.3704	3.5067	0.1363	5177.5	5201.5	24.0	1.21	1.20	1.21	1737.1	78.5
9-Mar-22	Sunny	292.7	763.4	3.2891	3.4110	0.1219	5201.5	5225.5	24.0	1.21	1.21	1.21	1740.3	70.0
15-Mar-22	Sunny	296.1	759.4	3.4049	3.5300	0.1251	5225.5	5249.5	24.0	1.20	1.20	1.20	1725.9	72.5
21-Mar-22	Fine	295.6	760.6	3.3366	3.5072	0.1706	5249.5	5273.5	24.0	1.20	1.20	1.20	1728.6	98.7
26-Mar-22	Rainy	297.2	759.9	3.3771	3.4544	0.0773	5273.5	5297.5	24.0	1.19	1.20	1.20	1723.4	44.9
31-Mar-22	Fine	294.7	764.8	3.3275	3.4305	0.1030	5297.5	5321.5	24.0	1.20	1.21	1.21	1735.6	59.3
													Min	44.9
													Max	98.7
													Average	70.6

Location AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office

Start Date	Weather	Air	Atmospheric	Filter W	Filter Weight (g)		Particulate Elapse Time		Sampling Flow Rate (m ³ /min.)		te (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Mar-22	Sunny	293.4	762.9	3.3806	3.5392	0.1586	15175.1	15199.7	24.6	1.21	1.21	1.21	1781.9	89.0
9-Mar-22	Sunny	292.7	763.4	3.3374	3.4919	0.1545	15199.7	15223.7	24.0	1.21	1.21	1.21	1741.5	88.7
15-Mar-22	Sunny	296.1	759.4	3.3041	3.3956	0.0915	15223.7	15247.7	24.0	1.20	1.20	1.20	1729.2	52.9
21-Mar-22	Fine	295.6	760.6	3.3072	3.4685	0.1613	15247.7	15271.7	24.0	1.20	1.20	1.20	1731.1	93.2
26-Mar-22	Rainy	297.2	759.9	3.3827	3.4629	0.0802	15271.7	15295.7	24.0	1.19	1.20	1.20	1726.2	46.5
31-Mar-22	Fine	294.7	764.8	3.2985	3.4145	0.1160	15295.7	15319.7	24.0	1.20	1.21	1.21	1737.7	66.8
													Min	46.5
													Max	93.2
													Average	72.8





Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 2.17.

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale		Project No. MA	20003	
Graphical Presentation of 24-hour TSP Monitoring Results	Date	Mar-22	Appendix	F	

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CM1 -	Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong											
					Uni	t: dB (A) (30-min)						
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Date	TIME	vvcatici	_	L _{eq} L ₁₀ L ₉₀ L _{eq} L _{eq}								
			L _{eq}									
10 Mar 2022	10:00	Sunny	76.0	73.5	77.8	65.5	<u>76</u>					
16 Mar 2022	9:10	Sunny	67.4	69.6	64.7	65.5	63					
22 Mar 2022	13:00	Fine	71.3	74.7	68.6	65.5	70					
28 Mar 2022	13:45	Drizzle	73.9	75.5	72.0	65.5	73					

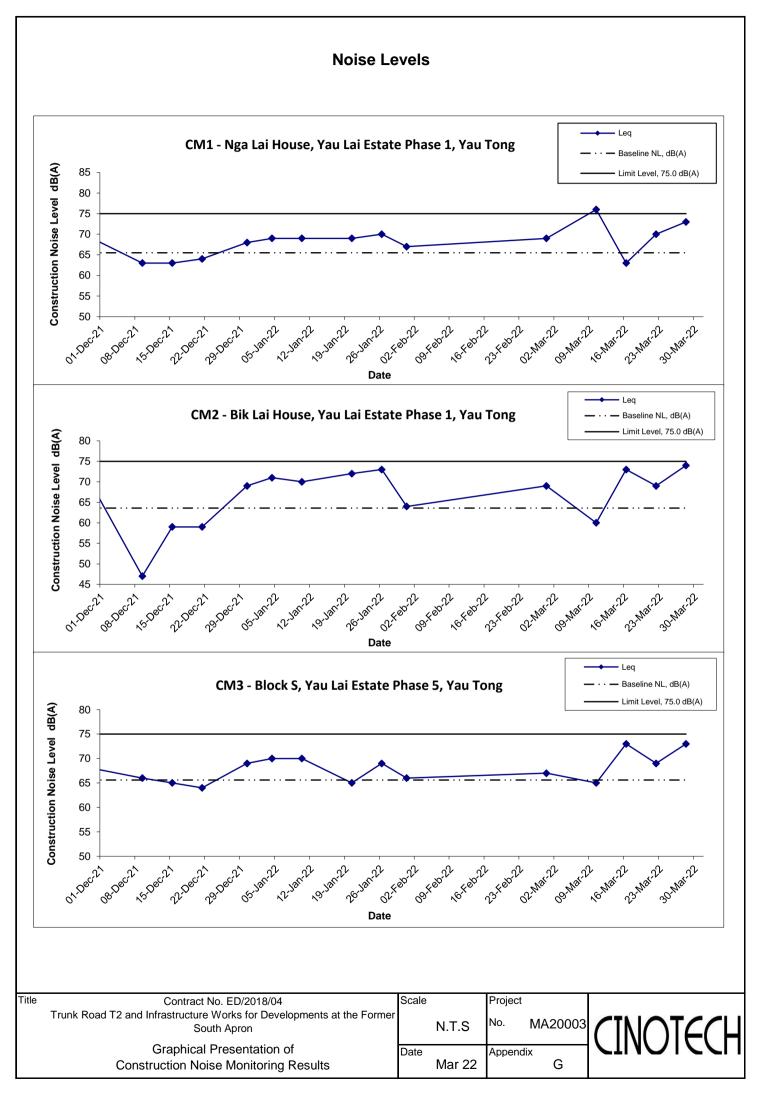
Location CM2 -	Bik Lai Ho	use, Yau Lai I	Estate Phase	e 1, Yau Ton	g		Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong											
			Unit: dB (A) (30-min)															
Date	Date Time Weather			sured Noise I	Level	Baseline Level	Construction Noise Level											
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}											
10 Mar 2022	10:45	Sunny	65.2	65.9	64.2	63.6	60											
16 Mar 2022	10:35	Sunny	73.5	75.4	70.9	63.6	73											
22 Mar 2022	14:00	Fine	69.8	73.1	67.5	63.6	69											
28 Mar 2022	13:03	Drizzle	74.6	77.5	69.2	63.6	74											

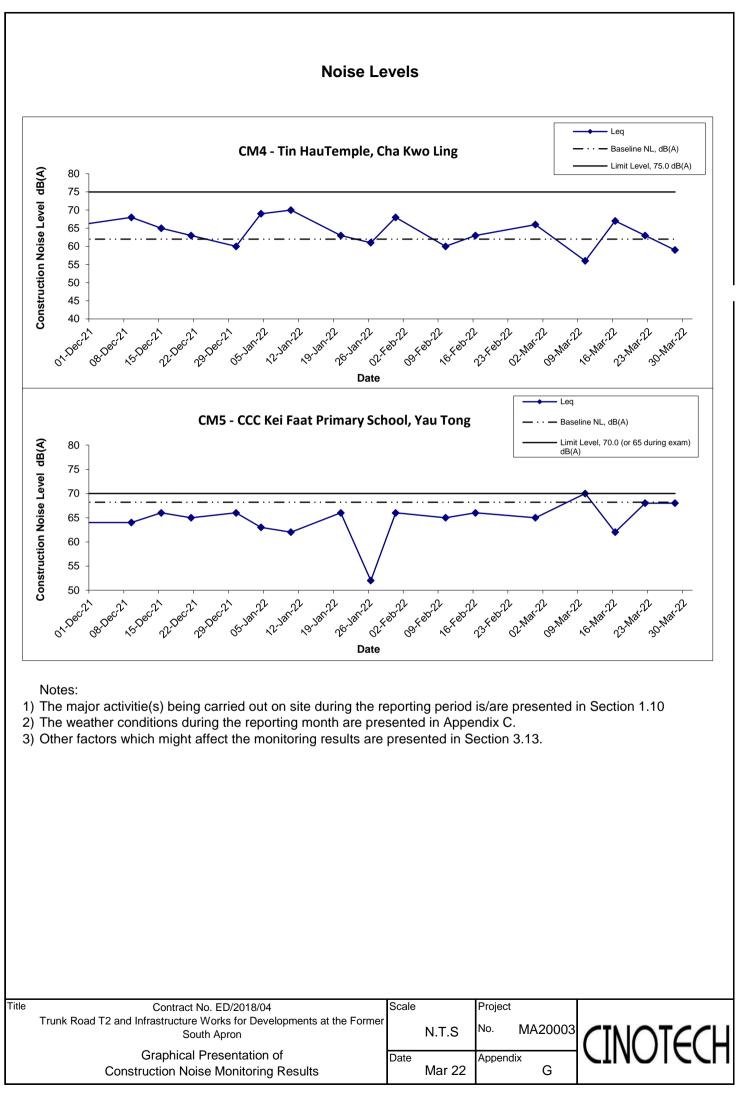
Location CM3 -	Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong											
				Unit: dB (A) (30-min)								
Date	Date Time		Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
10 Mar 2022	11:30	Sunny	65.1	66.4	63.2	65.6	65 Measured \leq Baseline					
16 Mar 2022	9:55	Sunny	73.8	75.9	70.3	65.6	73					
22 Mar 2022	15:00	Fine	70.9	73.8	67.9	65.6	69					
28 Mar 2022	14:35	Drizzle	73.8	75.4	71.6	65.6	73					

Location CM4 -	· Tin Hau Te	mple, Cha Kv	vo Ling						
				Unit: dB (A) (30-min)					
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level		
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
10 Mar 2022	12:30	Sunny	56.1	58.1	53.0	62.0	56 Measured \leq Baseline		
16 Mar 2022	13:15	Sunny	68.3	71.5	63.2	62.0	67		
22 Mar 2022	9:00	Fine	65.3	68.6	62.2	62.0	63		
28 Mar 2022	11:24	Drizzle	59.3	60.2	51.2	62.0	59 Measured \leq Baseline		

Location CM5 -	CCC Kei F	aat Primary S	chool, Yau T	ong					
				Unit: dB (A) (30-min)					
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level		
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
10 Mar 2022	14:00	Sunny	72.5	76.2	61.2	68.2	70		
16 Mar 2022	11:30	Sunny	69.1	72.4	63.1	68.2	62		
22 Mar 2022	10:30	Fine	67.8	70.2	64.9	68.2	68 Measured \leq Baseline		
28 Mar 2022	15:19	Drizzle	67.9	69.5	65.4	68.2	68 Measured \leq Baseline		

G-1





APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2022 (CKL)

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 0	Quantities of	C&D Wastes	s Generated	Monthly
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	3.699	3.699	0.000	3.699	0.000	0.000	0.000	0.000	0.000	0.000	0.010
February	0.687	0.687	0.000	0.687	0.000	0.000	0.000	0.000	0.000	0.000	0.001
March	1.531	1.531	0.000	1.531	0.000	0.000	0.000	0.000	0.000	0.000	0.001
April											
May											
June											
Sub-total	5.917	5.917	0.000	5.917	0.000	0.000	0.000	0.000	0.000	0.000	0.012
July											
August											
September											
October											
November											
December											
Total	5.917	5.917	0.000	5.917	0.000	0.000	0.000	0.000	0.000	0.000	0.012

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).

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 220303 Checklist Reference Number 220303 Date 03 March 2022 (Thursday) Time 09:30 – 12:00

Re	ef. 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.:220218), no major environmental deficiency was	
	identified on the previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	03 March 2022
Checked by	Karina Chan	Zalle	03 March 2022

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

Weekly Site Inspection Record Summary Inspection Information 220311 Checklist Reference Number 220311 Date 11 March 2022 (Friday) Time 08:00 – 09:00

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.:220303), no major environmental deficiency was	
	identified on the previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	11 March 2022
Checked by	Karina Chan	Zalle	11 March 2022

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

Weekly Site Inspection Record Summary Inspection Information

pression	
Checklist Reference Number	220317
Date	17 March 2022 (Thursday)
Time	13:00 - 14:30

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection	
	D. 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.:220311), no major environmental deficiency was	
	• Follow up on the previous session (Ref No.:220311), no major environmental deficiency was identified on the previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	17 March 2022
Checked by	Karina Chan	Zelle	17 March 2022

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

Weekly Site Inspection Record Summary Inspection Information 220324 Checklist Reference Number 220324 Date 24 March 2022 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	 <i>D. Construction Noise Impact</i> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:220317), no major environmental deficiency was identified on the previous session. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	24 March 2022
Checked by	Karina Chan	Zelle	24 March 2022

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

Weekly Site Inspection Record Summary Inspection Information 220331 Checklist Reference Number 220331 Date 31 March 2022 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:220324), no major environmental deficiency was identified on the previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	31 March 2022
Checked by	Karina Chan	Zelle	31 March 2022

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	АРСО
S3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	АРСО
\$3.8.7	 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. 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. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 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. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles and positioning of construction plant should be at the maximum possible, routing of vehicles and positioning 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. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
T	Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low subplur dises fuel (ULSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО
Noise Impact (Const	ruction Phase)					
S4.8	 Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump. 	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be fetcitively utilized, wherever practicable, in screening noise from on-site construction activities. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	ct (Construction Phase)					
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between 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; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling 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; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain. 	Control potential impacts from filling activities and marine–based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
\$5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	 To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the luly enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation. It is important that appropriate measures are implemented to control runoff and drainage and prevent 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.5	high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS

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S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8 S5.8.8 S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	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. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater 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 wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run- off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S 5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	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.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; • chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and • storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	 Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

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	Standard Good Site Practice Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works.					
\$6.8.5	 Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Measures should also be put into place so that litter, fuel and solvents do not enter the 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
\$6.8.6	nearby watercourses. Measure to Minimize Groundwater Inflow The drained tunnel construction method with groundwater inflow control measures would generally be adopted. During the tunnel excavation, pre-excavation grouting could be adopted to reduce the	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
	 During the tunnel excavation, pre-excavation ground be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 					
\$6.8.8	 Coral translocation It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation. Post translocation Monitoring A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. 	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A

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S6.8.9 S6.8.10	 Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	Compensation for Vegetation Loss Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. 	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	(Construction Phase)					
S8.6.3	 Good Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	 Good Site Practices and Waste Reduction Measures (con't) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. Good Site Practices and Waste Reduction Measures (con't) 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)

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S8.6.5	The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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S8.6.6	Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
	 Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	 Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
	 Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$8.6.17 - \$8.6.20	 In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005
	 In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	 Sediments (con't) The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excavated sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laken water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring divices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning f	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	Chenical Wastes. If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical waste, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
S9.6.4	Dust and visual impacts Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. 	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
S9.6.4	Indirect vibration impact • Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; • Monitoring of vibration should be carried out during construction phase. • Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. • A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	 Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visua	al Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazard	(Design and Construction Phase)					
\$11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below:	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%			Consultation Zone		Guidance Note

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	Safety Measures					
	 For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. 					
	 An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. 					
	 No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. 					
	 Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. 					
	 Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. 					
	• Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person).					
	 The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot 					
\$11.5.10 \$11.5.25	works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas.					
	 Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
	 Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. 					
	 During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. Fire drills should be organized at not less than six monthly intervals. 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	 The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. 					
\$11.5.10 \$11.5.25	 Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). 					
	 Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 					
	 Monitoring Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. 					
	• For excavations deeper than 1m , measurements should be carried out:					
	 at the ground surface before excavation commences;- immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation remains open; and 					
\$11.5.26 - \$11.5.31	 periodically throughout the working day whilst workers are in the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	 directly after the excavation has been completed; and periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. 					
	 Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. 					
	 The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 					
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

Table II - Observation / Reminder / Non-compliance made during Site Audit

Key:

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

***** Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status					
Air Quality									
Construction	Noise Impact								
Water Quality	Water Quality Impact								
Ecological Im	pact								
Fisheries Impa	net								
Waste Manage	ement		·						
Landscape and	Landscape and Visual Impact								
Landfill Gas H	lazards								

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

	ACTION										
EVENT	ET	IEC	ER	CONTRACTOR							
Action level being exceeded by one sampling	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 							
Action level being exceeded by two or more consecutive sampling	 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 and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; 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. 							

Limit level being exceeded by one sampling	 If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor ,IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals;

5.	Carry out analysis of Contractor's	3. Supervise the implementation of	4. Ensure remedial measures	4. Resubmit proposals if problem still
	working procedures to determine	remedial measures.	properly implemented;	not under control;
	possible mitigation to be		5. If exceedance continues, consider	5. Stop the relevant portion of works
	implemented;		what portion of the work is	as determined by the ER until the
6.	Arrange meeting with IEC and		responsible and instruct the	exceedance is abated.
	ER to discuss the remedial actions		Contractor to stop that portion of	
	to be taken;		work until the exceedance is	
7.	Assess effectiveness of		abated.	
	Contractor's remedial actions and			
	keep IEC, EPD and ER informed			
	of the results;			
8.	If exceedance stops, cease			
	additional monitoring.			

Event and Action Plan for Construction Noise

EVENT			ACTION								
		ЕТ		IEC		ER		CONTRACTOR			
Action Level	1.	Notify IEC and Contractor;	1.	Review the analysed results submitted by the ET;	1.	Confirm receipt of notification of failure in	1. 5	Submit noise mitigation proposals to IEC;			
	2.	Carry out investigation;	2.	Review the proposed remedial measures by the		writing;	2. 1	Implement noise mitigation proposals.			
	3.	Report the results of investigation to the IEC, ER		Contractor and advise the ER accordingly;	2.	Notify Contractor;					
		and Contractor;	3.	Supervise the implementation of remedial	3.	Require Contractor to propose remedial measures					
	4.	Discuss with the Contractor and formulate		measures.		for the analysed noise problem;					
		remedial measures;			4.	Ensure remedial measures are properly					
	5.	Increase monitoring frequency to check mitigation				implemented.					
		effectiveness.									
Limit Level	1.	Identify source;	1.	Discuss amongst ER, ET, and Contractor on the	1.	Confirm receipt of notification of failure in	1.	Take immediate action to avoid further			
	2.	Inform IEC, ER, EPD and Contractor;		potential remedial actions;		writing;		exceedance;			
	3.	Repeat measurements to confirm findings;	2.	Review Contractors remedial actions whenever	2.	Notify Contractor;	2.	Submit proposals for remedial actions			
	4.	Increase monitoring frequency;		necessary to assure their effectiveness and advise	3.	Require Contractor to propose remedial measures		to IEC within 3 working days of notification;			
	5.	Carry out analysis of Contractor's working		the ER accordingly;		for the analysed noise problem;	3.	Implement the agreed proposals;			
		procedures to determine possible mitigation to be	3.	Supervise the implementation of remedial	4.	Ensure remedial measures properly implemented;	4.	Resubmit proposals if problem still not under			
		implemented;		measures.	5.	If exceedance continues, consider what portion of		control;			
	6.	Inform IEC, ER and EPD the causes and actions				the work is responsible and instruct the Contractor	5.	Stop the relevant portion of works as determined			
		taken for the exceedances;				to stop that portion of work until the exceedance is		by the ER until the exceedance is abated.			
	7.	Assess effectiveness of Contractor's remedial				abated.					
		actions and keep IEC, EPD and ER informed of									
		the results;									
	8.	If exceedance stops, cease additional monitoring.									

Parameter	Limit Level	Action		
	<19%	• Ventilate to restore oxygen to >19%		
Ovugan		• Stop works		
Oxygen	<18%	• Evacuate personnel/prohibit entry		
		• Increase ventilation to restore oxygen to >19%		
	>100/ LEL (i.e. $> 0.50/$ by yolympe)	• Prohibit hot works		
	>10% LEL (i.e. > 0.5% by volume)	• Ventilate to restore methane to <10% LEL		
Methane		• Stop works		
	>20% LEL (i.e. > 1% by volume)	• Evacuate personnel / prohibit entry		
		• Increase ventilation to restore methane to <10% LEL		
	>0.5%	• Ventilate to restore carbon dioxide to $< 0.5\%$		
Carbon		• Stop works		
Dioxide	>1.5%	• Evacuate personnel / prohibit entry		
		• Increase ventilation to restore carbon dioxide to $<0.5\%$		

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

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: March 2022

Table M1	Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting
	Period

Log Ref.	Location	Received Date	Details of Complaint/warning/su mmon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N07	Portion T1	17-Feb- 22 24- March- 22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day. Follow up complaint from the same complainant was received and he/she informed that the day time ground- borne noise nuisance had deteriorated this week.	Noise	 The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE1201-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	Closed

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

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: March 2022

Table M2	Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
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Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N02	Portion T1	10-Oct- 2020	Resident of Yau Lai Estate complained that i) an excavator operated before 7 am on 9 and 10 October 2020; and, ii) the height of noise barriers are not sufficient for noise reduction.	Noise	 Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance. Since the complaint location stated in part II is situated out of the project boundary and within the other construction site, no investigation shall be conducted for non-project related complaint. 	Closed
		9-Feb- 2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside	
Complaint #N04	Portion T16 March 2021The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	Noise	the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.	Closed		

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting	Month:	March	2022
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Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point 5 of the CNP (GW-RE0071-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting I	Month:	March	a 2022

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		18 July 2021	Complainant informed that breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) from the ground during 3-4 a.m. on 17 Jul and 18 Jul 2021.		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne	
Complaint #N05	Portion T1	27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.	Noise	 noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to 	Closed

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Details of Complaint/warning/summon and Received Log Ref. Location Nature **Investigation/Mitigation Action** Status prosecution Date continue to strictly follow the requirements in the relevant CNP. • According to the condition 3.d point 5 of the CNP (GW-RE0399-21), the immediate remedial action shall be implemented in case adverse groundborne noise impact on any noise sensitive receiver is received. No major construction noise related ٠ environmental deficiency was identified during ad-hoc inspection carried out by ET, RE and the Contractor representative on 12 Complainant informed that underground November 2021. breaking noise was heard at his/her residence The construction activities of Trunk ٠ (near Cha Kwo Ling Main Road) at about 10 Complaint Portion 03-Nov-Road T2 conducted inside the tunnel p.m. on 03 Nov 2021. Also, the complainant Closed Noise 2021 #N06 **T**1 area and the construction activities of further informed that recently they continued to TKO-LT Tunnel conducted inside hear underground breaking noise which had the tunnel section at Kwun Tong caused serious noise nuisance to the residents. Side on the evening time and nighttime of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.

Reporting Month: March 2022

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N06	Portion T1	25-Nov- 2021	Follow up complaint from the same complainant which informed that there was still ground bound noise nuisance after 10 p.m occasionally. The complainant further requested if the relevant works that may contribute to ground bound noise nuisance could be stopped after 10 p.m.	Noise	 A valid CNP was hold and the investigation is still undertaken in order to investigate the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point 5 of the CNP (GW-RE1035-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	Closed

Reporting Month: March 2022

APPENDIX N SUMMARY OF EXCEEDANCE

Contract No. ED/2018/04

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

Appendix N – Summary of Exceedance

Reporting Period: March 2022

(A) Exceedance Report for Air Quality

No Action/ Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

No Action/ Limit Level exceedance of 1hr TSP monitoring was recorded in this reporting month.

(B) Exceedance Report for Construction Noise

One (1) Action Level exceedance was recorded due to the documented complaint in the reporting month.

One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Date	Monitoring Location	Measured Level (L _{eq} dB(A))	Baseline Noise Level (L _{eq} dB(A))	Construction Noise Level (L _{eq} dB(A))	Limit Level
10 March 2022	CM1	76.0	65.5	<u>76</u>	75

The results of exceedance investigation are attached as below.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

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

- Notification of Exceedances

NOE No. 220310_noise (CM1) Exceedance Level: Limit

Time of Measurement: 12:46 - 13:50

Date of Noise Monitoring: 10 March 2022

Part A – Exceedance Summary Tables

Table I:Parameter(s) – Construction Noise

Station	Location	Location Time Level Level		Construction Noise Level (L _{eq} dB(A))	Action Level	Limit Level (L _{eq} dB(A))	Level exceeded	
CM1	Nga Lai House, Yau Lai Estate Phase 1,	12:46	76.0	65 5	<u>76</u>	When one documented	75	Limit
CMI	Yau Tong	13:20	77.0	65.5	<u>77</u>	complaint is received.	15	Lillill

Field Observation(s) and Conclusion

(a)	Statement of exceedance(s)
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Construction noise measured at CM1 exceeded the construction noise (day time) limit level.

(b) Cause of exceedance(s)

According to the observation of our field staff, the major noise source(s) and/or reason(s) for exceedance identified at CM5 is/are as follow:

- 1. A breaker was being operated at Portion IVC of TKOLTT with only acoustic sheets adopted as mitigation measure. (See Photo 1) As acoustic sheets itself are without much noise absorption property, noise cannot be mitigated to a desirable level especially when the noise source is significant.
- 2. Some percussive / breaking noise from the site of Lam Tin Interchange was also observed during monitoring
- 3. Road traffic along the adjacent slip road approaching to EHC tunnel.
- 4. Noise barriers were erected on the site of Trunk Road T2 (See Photo 2).

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

- Notification of Exceedances

Photo Record



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

- Notification of Exceedances

Part B – Conclusion:

Based on the finding(s) and observation(s) above, the limit level exceedance of construction noise recorded at station CM1 on 10 March 2022 was due to the construction activities of the TKOLTT project. Therefore, the exceedance is considered as **non-project related**.

Part C – Recommendation:

Although the exceedance is considered as non-project related, it is recommended that the following construction noise mitigation measures shall always be implemented on site to reduce/ minimize the construction noise nuisance due to the construction activities.

- 1. Use of temporary or fixed noise barriers with a surface density of at least 10kg/m2 to screen noise from movable and stationary plant;
- 2. Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc;
- 3. Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;
- 4. Mobile plant, if any, should be sited as far from NSRs as possible;
- 5. Use of site hoarding as a noise barrier to screen noise at low level NSRs;
- 6. 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
- 7. Any material stockpiles and other structures should be effectively utilized, wherever practicable, to screen the noise from on-site construction activities.

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		202		December			F abra and Fabra and Fabra and Fabra and Fabra and Fabra and Fabra and Fabra and 	Maria	2022	A		Maria	Appendi	
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ED/2018/04 - Trunk Road T2	1193	30-Sep-20	28-Feb-25	13-Mar-21 A	29-Jun-24														
DESIGN SUBMISSION & APPROVAL	378	03-Oct-20	19-Sep-22	15-Mar-21 A	11-Jul-22						<u>-</u> <u>-</u>			- <u> </u> <u></u>					
GENERAL	202	22-Jan-21	20-Dec-21	09-Jul-21 A	12-Mar-22				▼ GE	NERAL									
AIP Roadworks and Street Furniture	81	16-Feb-21	16-Feb-21	08-Sep-21 A															
AIP - 5th Review by SO	28			08-Sep-21 A	05-Oct-21 A	A	IP - 5th Review by SO										· · · · · · · · · · · · · · · · · · ·		
AIP - SO Consent for DDA Submission	0		16-Feb-21		05-Oct-21 A	◆ A	IP - SO Consent for DDA Subn	ission						· · · · · · · · · · · · · · · · · · ·					
DDA Roadworks and Street Furniture	150	19-Jul-21	19-Jul-21	09-Jul-21 A	02-Dec-21 A										· · · · · · · · · · · · · · · · · · ·	·····			
DDA - Further information required by SO	24			09-Jul-21 A	23-Oct-21 A		DDA - Further info	ormation required by	y SO										
DDA - 3rd Sub	0				23-Oct-21 A	T	♦ DDA - 3rd Sub												
DDA - 3rd Review by SO	35			25-Oct-21 A	02-Dec-21 A			DDA	A - 3rd Review	by SO									
DDA - SO Consent for DDA Submission	0		19-Jul-21		02-Dec-21 A			◆ DDA	A - SO Consei	nt for DDA Submi	ssion			-++					
DDA Traffic Sign, Road Marking & Sign Gantry	79	20-Dec-21	20-Dec-21	09-Jul-21 A	02-Dec-21 A	.			▼ DD	A Traffic Sign, R	oad Marking & Sign	Gantry							
DDA - Further information required by SO	24			09-Jul-21 A	23-Oct-21 A		DDA - Further info	ormation required by	y SO					-++					
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DDA - SO Consent for Construction	0		20-Dec-21		02-Dec-21 A	1		•	♦ DD	A - SO Consent	or Construction				·				
DDA Street Lighting (AGR/DPR/S20/L10/L18)	197	22-Jan-21	22-Jan-21	30-Sep-21 A	12-Mar-22	-													
DDA - Further information required by SO	12			· · ·	02-Nov-21 A	·	DDA - Fu	rther information rec	quired by SO					-++					
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DDA - SO Consent for Construction	0		22-Jul-21		04-Mar-22				·				DDA - SC	Consent for C	onstruction				
DEPRESSED ROAD [DPR]	163	05-Dec-20	19-Feb-21	09-Sep-21 A											·				
DDA DPR - Portal Structure	163	05-Dec-20	19-Feb-21	09-Sep-21 A	· ·	lii	······································												
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Page 1 of 30 Data Date: 26-Feb-22 Milestone
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 Summary
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Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish					2021									2022				-	
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Stage 1A Completion	0		19-Feb-21		30-Apr-22	+	+									;; ; ;	+			-++	•	Stage 1A	Completion	
WEST VENTILATION BUILDING [WVB]	250	10-Feb-21	11-Sep-21	14-May-21 A	14-May-22		NBUILDIN		8]							+			+++++++++++++++++++++++++++					
DDA WVB - ABWF	167	06-Jun-21	11-Sep-21	11-Sep-21 A	-	BWF	+									;; ; ;	+							
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DDA - Further information required by SO	30	05-Jul-21	07-Aug-21	05-Mar-22	09-Apr-22	+	+										· -	I		DDA -	Further in	nformation r	equired by SO	
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DDA WVB - Aesthetic Design	249	10-Feb-21	20-Jul-21	14-May-21 A	13-May-22	+	$\frac{1}{1}$ $\frac{1}{1}$			$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$						++ 			<u>+</u> + + + + + + +	$-\frac{1}{1}$ $-\frac{1}{1}$				· · · · · · · · · · · · · · · · · · ·
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SOUTH APRON ROAD WORKS	270	09-Dec-20	19-Sep-22	25-Jun-21 A	01-Jun-22	1													<u></u>					
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking a	236	25-May-21	25-May-21	25-Jun-21 A	20-Apr-22	+	+													-+				
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DDA Road L10 (S) - Roadworks and Street Furniture	212	19-Aug-21	19-Aug-21	22-Jul-21 A	20-Apr-22	and St	reet Furniti	turje									·		<u>+</u> + + + + + + + + + + + +					
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DDA Foot Bridge FB-02	142	09-Mar-21	09-Mar-21	21-Jul-21 A	20-Dec-21 A																			
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4111						<u> </u>	<u>; </u>			<u>; </u>			1						<u></u>					
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Page 2 of 30 Data Date: 26-Feb-22 estone V Summary

Actual Work

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start 0	2V0 Finish	Start	Finish	October	20 Nove		Decem	ber	January		February		20 March		pril	May		June
						03 10 17 24 3		14 21 1			02 09 16	23 30					17 24 0		22 29 05	12 19 26
AIP - Kiosk AIP - Review by SO	120 28		-		03-Jan-22 A 08-Oct-21 A	· · · · · · · · · · · · · · · · · · ·							·		·		ew by \$O	' AIP - Kiosk		· · · · · · · · · · · · · · · · · · ·
AIP - Review by IP / DC	28			· .	04-Nov-21 A	· · · · · · · · · · · · · · · · · · ·														
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AIP - 3rd Review by SO	28		(04-Dec-21 A	03-Jan-22 A						🗖 AlP - 3rd Re	view by SC)							
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Page 3 of 30 ◆ Milestone Data Date: 26-Feb-22 Planned Bar Critical A divity ◆ Actual Milestone Actual Work ◆ ◆ Baseline Milestone ▲	\$	Summary		fc	or Dev	k Road T2 elopments	at S	outh	Aproi	٦			BOUY			18-Dec-19 22-Feb-20 09-Apr-20 17-Jul-20 09-Oct-20	00V1 01V0	WY SP SP SP	'u W a/LLo W a/LLo W	Approved Yu Yu Yu Yu Yu
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Page 4 of 30 Milestone		Summary							Date Revision Checked Approved
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Page 5 of 30 Data Date: 26-Feb-22 Outcal/A divity Actual Milestone Actual Work Baseline Milestone Baseline Bar	~	Summary	ED/2	fo	or Dev	k Road T2 and Infrastructure Works elopments at South Apron as Rolling Programme (Feb-22)

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DDA - SO Consent for Construction	0		21-Sep-21		18-Jun-22	+++												◆ DDA - S
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	204	22-Dec-20	03-Mar-21	17-Jul-21 A	07-Apr-22	+ +												
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	204	22-Dec-20	22-Dec-20	17-Jul-21 A	07-Apr-22	+++++++++++++++++++												
DDA - Further information required by SO	39			17-Jul-21 A	03-Mar-22							DDA - Furth	ner informati	ion required by	SO			
DDA - 5th Sub	0				03-Mar-22							◆ DDA - 5th \$	Sub					
DDA - 5th Review by SO	35			04-Mar-22	07-Apr-22								· -	1 I I	Review by S	1		
DDA - SO Consent for Construction	0		22-Dec-20		07-Apr-22									♦ DDA - SC	Consent for	Construction		
Stage 2A Completion	0		22-Dec-20		07-Apr-22	+ +								♦ Stage 2A	Completion			
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scher	178	03-Mar-21	03-Mar-21	17-Jul-21 A	07-Mar-22	+ +												
DDA - Further information required by SO	39			17-Jul-21 A	01-Mar-22	+			·	;;; ; ; ; ; ;	· · · · · · · · · · · · · · · · · · ·	DDA - Furthe	r informatio	n required by S	0			
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DDA - 5th Review by SO	6			02-Mar-22	07-Mar-22	+						DDA - 5	th Review b	y SO				
DDA - SO Consent for Construction	0		03-Mar-21		07-Mar-22	+ +						🔶 DDA - S	OConsent	for Construction				
SUB-SEA TBM TUNNEL	187	29-Nov-20	28-Aug-21	28-Apr-21 A	19-Apr-22	+												
DDA - Sub-sea Tunnel - TBM Confinement	30	13-May-21	16-Jun-21	11-Sep-21 A	30-Oct-21 A													
DDA - 2nd Review by SO	35	13-May-21	16-Jun-21	11-Sep-21 A	30-Oct-21 A	DDA -	2nd Review by SO											
DDA - SO Consent for Construction	0		16-Jun-21		30-Oct-21 A	DDA -	- SO Consent for Constructio	'n										
DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD	157		01-Mar-21		09-Feb-22 A											····		
DDA - Review by IP / DC	28	29-Nov-20	26-Dec-20	28-Apr-21 A	07-Dec-21 A		DD	DA - Review b										
DDA - Further information required by SO	24	28-Dec-20	25-Jan-21	29-May-21 A	06-Jan-22 A				DDA - Furt	her inform	nation required by SO							
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DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	07-Jan-22 A	09-Feb-22 A						DDA - 2nd Re	view by SO						
DDA - SO Consent for Construction	0		01-Mar-21		09-Feb-22 A						🔶 DDA - SO Co	nsent for Constr	uction					
DDA Tunnel - General Building Plan	138	10-May-21	28-Aug-21	04-Aug-21 A	05-Jan-22 A	ilding Plan												·
DDA - Review by SO	28	10-May-21	11-Jun-21	04-Aug-21 A	14-Dec-21 A			DDA - Re	view by \$O									
Page 6 of 30 ♦ ♦ Milestone ▼	٤	Summary							_,,					Date	Revision	n Ch	necked	Approved

Data Date: 26-Feb-22

Planned Bar Critical Activity Actual Milestone

Actual Work
Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	Other	2021				F . 1.				022	a ell					
						October 03 10 17 24	November 31 07 14 21 2		January 26 02 09 16	23 3	February	20 27	Ma	rch 3 20 21	A	vpril 17 24	4 01	May 08 15	22 29	Jun 05 12	19 26
DDA - Review by IP / DC	28	10-May-21	11-Jun-21	04-Aug-21 A	14-Dec-21 A				eview by IP / DC												
DDA - Further information required by SO	30	12-Jun-21	19-Jul-21	15-Dec-21 A	15-Dec-21 A			DDA - F	urther information r	equired by	SO										
DDA - 2nd Sub	0		19-Jul-21		15-Dec-21 A	ii	+	◆ DDA - 2	nd Sub											 	
DDA - 2nd Review by SO	35	20-Jul-21	28-Aug-21	16-Dec-21 A	05-Jan-22 A	i			DDA - 2nc	I Review b	y SO										
DDA - SO Consent for Construction	0		28-Aug-21		05-Jan-22 A				🔷 DDA - SO	Consent	or Construction										
AIP - Tunnel (Sub-sea & CKL Tunnel) - Spaceproofing (SG §	80	27-Jan-21	27-Jan-21	10-Sep-21 A	30-Nov-21 A																
AIP - Further information required by SO	12			10-Sep-21 A	05-Nov-21 A		AIP - Further infor	mation required by SO													
AIP - 4th Sub	0				05-Nov-21 A		♦ AIP - 4th Sub														
AIP - 4th Review by SO	28			06-Nov-21 A	30-Nov-21 A			AIP - 4th Review by	SO												
AIP - SO Consent for Construction	0		27-Jan-21		30-Nov-21 A			AIP - SO Consent fo	r Construction												
FER - Fire Engineering Report (SG Scheme)	182	18-Jun-21	18-Jun-21	01-Sep-21 A		+ +												i 			
FER - Further information required by SO	48			01-Sep-21 A	28-Dec-21 A				FER - Further inf	ormation	equired by SO										
FER - 3rd Sub	0				28-Dec-21 A				FER - 3rd Sub												
FER - 3rd Review by SO	45			29-Dec-21 A	11-Jan-22 A				FER	- 3rd Revi	ew by SO	[]									
FER - Further information required by SO	48			12-Jan-22 A	05-Mar-22	ii							1	1. 1.	rmation requi	ired by SO		i i			
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FER - SO Consent for Construction	0		18-Jun-21		19-Apr-22	+++	+									♦ FER	2 - \$0 Co	onsent for C	Construction		
DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (118	29-Mar-21	28-Jun-21	24-Aug-21 A									- <mark> </mark> 								
DDA - Further information required by SO	36	29-Mar-21	14-May-21	24-Aug-21 A	06-Oct-21 A	DDA - Further info	rmation required by SO														
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CROSS PASSAGE	291	07-Mar-21	26-Nov-21	29-Jul-21 A	04-Mar-22	+++	V (ROSS PASSAGE													
DDA - Cross Passage - CP TBM Jacking Pipes	91	18-May-21	21-Jun-21	08-Sep-21 A														 			
DDA - 2nd Review by SO	35	18-May-21	21-Jun-21	08-Sep-21 A			DDA - 2nd Review by SC														
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DDA - Cross Passage - CP TBM Confinement	145	30-May-21	06-Sep-21	01-Sep-21 A		age - CP TBM Confinem												i			
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DDA - Cross Passage - CP TBM - DCRA	181	18-Aug-21	26-Nov-21	01-Sep-21 A	04-Mar-22	+		DA - Cross Passage -	CP TBM - DCRA		· · · · · · · · · · · · ·										
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Page 7 of 30 Data Date: 26-Feb-22 Milestone
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Actual Milestone
 Actual Work

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Baseline Milestone
 Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021	1						1	2022					
						October 03 10 17 24 31	November 07 14	er 21 28 05	December 12 19		nuary 16 23		oruary 13 20	March 27 06 13	20 27 0	April 3 10 17	24 01	May 08 15 22	-	une 12 19 26
DDA - Review by SO	28	18-Aug-21	14-Sep-21	01-Sep-21 A	06-Oct-21 A	DDA - Review by \$O														
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DDA - Further information required by SO	30	15-Sep-21	22-Oct-21	07-Oct-21 A	28-Jan-22 A	· +			-¦¦		·	DDA - Furt	her inform	ation required by S	0					
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DDA - Cross Passage - Traditional - Lining Structure	30	07-Mar-21	16-Jun-21	29-Jul-21 A	05-Nov-21 A															
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DDA - Cross Passage - Internal Structure	60	30-Aug-21	30-Aug-21	-		Internal Structure					-,; 		·							
DDA - Further information required by SO	30					DDA - Further informatio	1 1	Î I I					1							
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DDA - SO Consent for Construction	0		30-Aug-21		22-Oct-21 A	◆ DDA - SC	O Consent fo	r Construction												
EAST VENTILATION BUILDING [EVB]	244	03-Oct-20	16-May-22	23-Aug-21 A	11-Jul-22													▼ EAST	VENTILATION	Building [I
DDA - EVB - ABWF	126	03-Oct-20	24-Mar-21	01-Nov-21 A	14-May-22															· · · · · · · · · · · · · · · · · · ·
DDA - Draft - Preparation by Designer	36	03-Oct-20		01-Nov-21 A			· · · ·		DDA - D	raft - Preparatio	n by Design	1 1 1								
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Nov-20	12-Dec-20	14-Dec-21 A								DDA	- Draft - F	inal Review and pr	epare for 1st S	Sub				
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DDA - EVB - Aesthetic Design	243	30-Nov-20	09-Jun-21	23-Aug-21 A	11-Jul-22															
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	23-Aug-21 A	04-Nov-21 A		DDA - Dra	ft - Final Review a	and prepare	or 1st Sub										
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DDA - 2nd Review by IP	35	27-Feb-21	02-Apr-21	02-Apr-22	06-May-22								 					DDA - 2nd Rev	iew by IP	
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DDA Foot Bridge FT-03 [NEW]	150	22-Nov-21	16-May-22	04-Sep-21 A	06-May-22			V				·/· ···· · ···· · · · · · · · · · · · ·	·					🗸 DDA F	aot Bridge FT-(03 [NEW]
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Page 8 of 30		Summary						- .								Date	Revisio	n Chec	keu A	pproved

Page 8 of 30 Data Date: 26-Feb-22 estone Si anned Bar ticalAdivity

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

BOUYGUES TRAVAUX PUBLIC

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		at a b a a	2021)	-		[abarren:		Mar	202	22	Arrail		Mari		hun n
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DDA - Draft - Preparation by Designer	42	22-Nov-21	12-Jan-22	04-Sep-21 A	18-Oct-21 A							🗖 DDA - Draft	t - Preparation by Des	Ŭ								
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-22	12-Feb-22	19-Oct-21 A	25-Oct-21 A								DDA - I	Draft - F	inal Revie	w and prepa	re for 1s	t Sub				
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DDA - Further information required by SO	24	14-Mar-22	11-Apr-22	05-Mar-22	01-Apr-22	++											++-	DDA -	urther info	rmation rea	uired by SO	
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DDA - SO Consent for Construction	0		16-May-22		06-May-22	++											· -			♦	DDA - SO Co	nsent for Constructio
DDA - EVB - General Building Plan (including SoA) (SG Scł	142	04-Mar-21	07-Apr-21	25-Aug-21 A	04-Mar-22	++ 											· † † -					
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	25-Aug-21 A	03-Dec-21 A	· · · · · · · · · · · · · · · · · · ·			DDA	- 2nd Revie	∍w by SO								 !	i		
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DDA - EVB - Permanent Structure (SG Scheme Basement)	30	04-Sep-21	08-Oct-21	27-Sep-21 A	20-Oct-21 A	DI	DA - EVB - Per	nanent Structu	re (SG Scheme Ba	isement)							· † † -					
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TUNNEL E&M INSTALLATION & COMMISSIONING	331	10-Jan-21	30-Dec-21	15-Mar-21 A	05-Jul-22	 			<u></u>		T UNŅ	EL E&M INSTA	LLATION & COMMIS	SIONIN	G		· † † -					
DDA - E&M Tunnel Ventilation Design (SG Scheme)	237	24-Jan-21		23-May-21 A	08-Mar-22														· · · · · · · · · · · · · · · · · · ·			
DDA - Review by IP / DC	28	24-Jan-21	20-Feb-21	23-May-21 A	30-Oct-21 A		1 1	DDA - Review														
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DDA - SO Consent for Construction	0		20-May-21		08-Mar-22										DDA	- SO Conser	nt for Co	nstructior	 			
DDA - E&M Air Purification System (WVB)	229	10-Jan-21	05-May-21	15-Mar-21 A	19-Apr-22	+++ 											· -					
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	04-Mar-22										DDA - R	eview by IP	/ DC					
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	11-Mar-22	· · ·										0A - Further i	informati	on requir	d by SO			
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DDA - SO Consent for Construction	0		05-May-21		19-Apr-22	+												• [DA - SO C	onsent for	Construction	
DDA - E&M Fire Services Installation	186	26-Feb-21	11-Jun-21	09-Jun-21 A	18-Mar-22												++-					
DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	10-Feb-22 A							1 1	DDA - R		(
DDA - Further information required by SO	32	26-Mar-21	07-May-21	07-Jul-21 A	11-Feb-22 A								DDA - F	urther ir	nformation	required by	\$0					
DDA - 2nd Sub	0		07-May-21		11-Feb-22 A								◆ DDA - 2	2nd Sub								
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	12-Feb-22 A	18-Mar-22											DDA - 2nd	d Reviev	v by SO				
DDA - SO Consent for Construction	0		11-Jun-21		18-Mar-22				·····		····					🔶 DDA - SC	Conser	nt for Con	struction			
DDA-E&M MVAC	206	19-Feb-21	03-Jun-21	02-Jun-21 A	28-Mar-22							·					· · · · · · · · · · ·	<u>1</u>	i	 		
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Page 9 of 30 Data Date: 26-Feb-22 Milestone
 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

CriticalActivity

Baseline Milestone
 Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 October November December January February
		10 5-6-01	10 Mar 01	02 100 01 4	1/ No. 01 /	03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06
DDA - Review by IP / DC	6	19-Feb-21	18-Mar-21	02-Jun-21 A	16-Nov-21 A	
DDA - Further information required by SO	32	19-Mar-21	29-Apr-21	30-Jun-21 A	16-Nov-21 A	
DDA - 2nd Sub	0		29-Apr-21		16-Nov-21 A	
DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	17-Nov-21 A	16-Dec-21 A	
DDA - Further information required by SO	32			17-Dec-21 A	21-Feb-22 A	
DDA - 3rd Sub	0				21-Feb-22 A	
DDA - 3rd Review by SO	35			22-Feb-22 A	28-Mar-22	
DDA - SO Consent for Construction	0		03-Jun-21		28-Mar-22	
DDA - E&M Plumbing & Drainage System	189	11-Feb-21	26-May-21	25-Jun-21 A	09-Apr-22	
DDA - Review by IP / DC	28	11-Feb-21	10-Mar-21	25-Jun-21 A	23-Dec-21 A	
DDA - Further information required by SO	32	11-Mar-21	21-Apr-21	06-Jul-21 A	23-Dec-21 A	
DDA - 2nd Sub	0		21-Apr-21		23-Dec-21 A	
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	24-Dec-21 A	24-Jan-22 A	
DDA - Further information required by SO	32			25-Jan-22 A	05-Mar-22	
DDA - 3rd Sub	0				05-Mar-22	· • DD.
DDA - 3rd Review by SO	35			06-Mar-22	09-Apr-22	
DDA - SO Consent for Construction	0		26-May-21		09-Apr-22	
DDA - E&M Electrical Installation	142	25-Feb-21	11-Jun-21	16-Jul-21 A	04-Mar-22	
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	19-Jan-22 A	
DDA - Further information required by SO	33	25-Mar-21	07-May-21	25-Aug-21 A	19-Jan-22 A	A DDA - Further information required by SC
DDA - 2nd Sub	0		07-May-21		19-Jan-22 A	A DDA - 2nd \$ub
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	20-Jan-22 A	04-Mar-22	
DDA - SO Consent for Construction	0		11-Jun-21		04-Mar-22	• DDA
DDA CLP Submission - Power Supply to EVB & WVB	56	11-Aug-21	11-Aug-21	11-Aug-21 A	17-Mar-22	PEVB & WVB
DDA - Further information required by SO	34			11-Aug-21 A	04-Oct-21 A	A DDA - Further information required by SO
DDA - 3rd Sub	0				04-Oct-21 A	A 🔷 DDA - 3rd Sub
DDA - 3rd Review by SO	35			05-Oct-21 A	10-Dec-21 A	A DDA - 3rd Review by SO
DDA - Further information required by SO	34			11-Dec-21 A	10-Feb-22 A	A DDA - Further informat
DDA - 4th Sub	0				10-Feb-22 A	A DDA- 4th Şub
DDA - 3rd Review by SO	35			11-Feb-22 A	17-Mar-22	
DDA - SO Consent for Construction	0		11-Aug-21		17-Mar-22	
DDA - E&M Tunnel Lighting Design	249	26-Mar-21	03-Sep-21	10-Jun-21 A	06-May-22	2 lighting Design
DDA - Draft - Preparation by Designer	22	26-Mar-21	24-Apr-21	10-Jun-21 A	27-Nov-21 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	29-Nov-21 A	13-Jan-22 A	A DDA - Draft Final Review and prepare for 1s
DDA - 1st Sub	0		10-May-21		13-Jan-22 A	A ◆ DDA - 1st \$ub
DDA - Review by SO	28	11-May-21	07-Jun-21	14-Jan-22 A	07-Feb-22 A	A DDA - Review by SO
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	14-Jan-22 A	04-Mar-22	
DDA - Further information required by SO	24	08-Jun-21	30-Jul-21	05-Mar-22	01-Apr-22	
DDA - 2nd Sub	0		30-Jul-21		01-Apr-22	
DDA - 2nd Review by SO	35	31-Jul-21	03-Sep-21	02-Apr-22	06-May-22	2
DDA - SO Consent for Construction	0		03-Sep-21		06-May-22	
Page 10 of 30 Data Date: 26-Feb-22	 s	ummary	ED/2	fo	or Dev	nk Road T2 and Infrastructure Works velopments at South Apron ths Rolling Programme (Feb-22)

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021)22				
						October 03 10 17 24	November Decen 31 07 14 21 28 05 12		January 02 09 16 23	February 30 06 13 20	27 06	March 13 20 27	Ap	oril 17 24	May 01 08 15	5 22 29	June 05 12 19 26
DDA-E&MCMCS	210	26-May-21	13-Oct-21	23-Jul-21 A	19-Apr-22	DDA - E&M	CMCS					·					
DDA - Draft - Preparation by Designer	22	26-May-21	21-Jun-21	23-Jul-21 A	27-Nov-21 A		DDA - Draft - F					· · · · · · · · · · · · · · · · · · ·					
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Jun-21	06-Jul-21	29-Nov-21 A				J	view and prepare for 1st	Sub							
DDA - 1st Sub	0		06-Jul-21		03-Dec-21 A		◆ DDA - 1si	J									
DDA - Review by SO	28	07-Jul-21	03-Aug-21	04-Dec-21 A	22-Dec-21 A			DDA -	Review by SO								
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	04-Dec-21 A	04-Mar-22					· · · · · ·		A - Review by IP	/ DC				
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	23-Dec-21 A	11-Mar-22	+			·····			DDA - Further	information r	required by S	0		
DDA - 2nd Sub	0		08-Sep-21		11-Mar-22							DDA - 2nd Sul	b				
DDA - 2nd Review by SO	35	09-Sep-21	13-Oct-21	12-Mar-22	15-Apr-22									DDA - 2nd	Review by SO		
DDA - SO Consent for Construction	0		13-Oct-21		19-Apr-22	♦								◆ DDA - S	SO Consent for	Construction	
AIP - Civil Provision for TCSS	63	15-Oct-21	30-Dec-21	19-Apr-22	05-Jul-22	V		 V	AIP - Civil Provision for	CSS		· † +	· - + +				
AIP - Draft - Preparation by Designer	22	15-Oct-21	09-Nov-21	19-Apr-22	16-May-22											AIP - Draft - P	reparation by Desigr
AIP - Draft - Final Review and prepare for 1st Sub	12	10-Nov-21	23-Nov-21	17-May-22	30-May-22												P - Draft - Final Revi∉
AIP - 1st Sub	0		23-Nov-21		30-May-22		♦									♦ All	P - 1st Sub
AIP - Review by SO	28	24-Nov-21	21-Dec-21	31-May-22	27-Jun-22												
AIP - Review by IP / DC	28	24-Nov-21	21-Dec-21	31-May-22	27-Jun-22	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · · 					
AIP - Update & prepare for 2nd Sub	6	22-Dec-21	30-Dec-21	28-Jun-22	05-Jul-22	+						· · · · · · · · · · · · · · · · · · ·	·				
PAYMENT MILESTONE	1075	30-Sep-20	28-Feb-25	13-Oct-21 A	27-Jun-22				<u>;;;;;-</u> ;-			· : :	- 1 1				
1.1 Preliminaries and General Requirements	83	13-Oct-21	13-Apr-22	13-Oct-21 A	13-Apr-22	V						++	V	1.1 Prelimin	aries and Gene	ral Requireme	nts
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 23	0		13-Oct-21		13-Oct-21 A	♦ 1.1.42 Month	ly Remaining value of this Cost Centre	1 Month 23									
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 24	0		13-Nov-21		13-Nov-21 A		1.1.42 Monthly Remaining	value of this	s Cost Centre 1 Month 2	1							
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 25	0		13-Dec-21		13-Dec-21 A		◇ 1	.1.42 Monthl	y Remaining value of this	Cost Centre 1 Mo	nth 25						
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 26	0		13-Jan-22		13-Jan-22 A				� 1.1.42 Month	ly Remaining value	of this Cost	Centre 1 Month	26				
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 27	0		14-Feb-22		26-Feb-22*					♦		onthly Remainin	1 1	1 1	e 1 Month 27		
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 28	0		14-Mar-22		14-Mar-22*							♦ 1.1.42 Montl	hly Remainin	ıq value of th	is Cost Centre	1 Month 28	
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 29	0		13-Apr-22		13-Apr-22*									1.1.42 Mont	hlyRemaining	value of this C	ost Centre 1 Month
3.1 for Trunk Road T2	134	30-Sep-20	21-Sep-21	13-Oct-21 A	18-Jun-22	r Trunk Road T2						· + + + + + + + + + + + + + +	· • • •	4			
3.1.46 Approval AIP for EVB	0		30-Sep-20		13-Oct-21 A	◆ 3.1 .46 Appr	oval AIP for EVB										
3.1.40 Approval DDA for Drill-and-blast Tunnel	0		09-Oct-20		13-Nov-21 A		◆ 3.1 40 Approval DDA for	Drill-and-blas	st Tuninel								
3.1 .48 Approval DDA for EVB	0		30-Sep-20		13-Nov-21 A		◆ 3.1 48 Approval DDA for	EVB									
3.1 .50 Approval AIP for completion of SUS	0		29-Mar-21		13-Jan-22 A				◆ 3.1 .50 Appro	val AIP for complet	ion of SUS						
3.1.52 Approval DDA for completion of SUS	0		21-Sep-21		18-Jun-22		·					· • • • • • • • • • • • • • • • • • • •					♦ 3.1.52
3.2 for Road S20 and Associated Infrastructure Works for C	0	30-Sep-20	30-Sep-20	13-Dec-21 A	13-Dec-21 A	·····						· • • • • • • • • • • • • • • • • • • •					
3.2 .27 Complete whole activities of this cost centre	0		30-Sep-20		13-Dec-21 A		◆ 3	.2 .27 Compl	lete whole activities of th	s cost centre							
3.3 for the Remaining Stage 5 Infrastructure Works - Road I	24	26-Feb-21	03-Jun-21	13-Dec-21 A		8											
3.3 .23 Submit DDA for landscape works	0		03-Jun-21		13-Dec-21 A		♦ 3	.3 .23 Submi	It DDA for landscape wor								
3.3 .16 Approval DDA for waterworks	0		26-Feb-21		13-Jan-22 A				◆ 3.3 .16 Appro	val DDA for waterw	orks						
3.4 for the Remaining Stage 5 Infrastructure Works - FT02	45	22-Dec-20	09-Mar-21	13-Oct-21 A	26-Feb-22												
3.4 .8 Approval DDA for Landscaped elevated walkway	0		09-Mar-21		13-Oct-21 A	◆ 3.4 .8 Appro	val DDA for Landscaped elevated walk										
3.4.11 Submit Demolition plan for existing footbridge	0		22-Dec-20		13-Nov-21 A		♦ 3.4 11 Submit Demolition	þlan fór exis	· · · · · · · · · · · · · · · · · · ·								
3.4 .10 Approval DDA for modification of existing footbridge	0		09-Mar-21		13-Jan-22 A				◆ 3.4 .10 Appro	val DDA for modific	ation of exist	ing footbridge					
									· · · · · · · · · · · · · · · · · · ·								

Page 11 of 30 Data Date: 26-Feb-22 Milestone Summary
Planned Bar

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021								2022		i.		i	
						Octo		November 31 07 14 2	1 28	December 05 12 19 26	Jan 02 09	uary 16 23 3	February 0 06 13 20) 27 C	March 6 13 20	27 03 10	vpril 17 2	4 01 08	May 8 15 22	29 05	June 12 19 26
3.4 .12 Approval Demolition plan for existing footbridge	0		09-Mar-21		26-Feb-22*									3.4 .12	2 Approval De	emolition plan for	existing fo	otbridge			
3.4.13 Complete whole activities of this cost centre	0		09-Mar-21		26-Feb-22*	· ÷	· · · · · · · · · · · · · · · · · · ·	+			······			♦ 3.4 .13	8 Complete w	hole activities of t	his cost ce	entre			
3.5 for Lam Chak Street and Kai Hing Road	88	14-Dec-21	11-Jun-22	13-Dec-21 A	22-Apr-22	++		+		V					· + +						3.5 for Lam C
3.5.5 Submit AIP for roadworks	0		14-Dec-21		13-Dec-21 A					🛠 3.5 .5 \$ubm	it AIP for roa	idworks									
3.5.9 Submit AIP for stormwater drainage works	0		14-Dec-21		13-Dec-21 A	· ÷ ÷	· · · · · · · · · · · · · · · · · · ·	+		🛠 3.5 .9 \$ubm	it AIP for sto	rmwater drain	age works								·····
3.5 .13 Submit AIP for waterworks	0		14-Dec-21		13-Dec-21 A	++		+		🛠 3.5 .13 Subr	nit AIP for w	aterworks									
3.5 .17 Submit AIP for sewage works	0		14-Dec-21		13-Dec-21 A	- 				🛠 3.5 .17 Subr	nit AIP for s	ewage works				- + + + + + + + + + + + +					
3.5 .21 Submit AIP for landscape works	0		14-Dec-21		13-Dec-21 A	· ÷	· · · · · · · · · · · · · · · · · · ·			🚸 3.5.21 Subr	nit AIP for la	ndscape work	5		·						
3.5 .8 Approval DDA for roadworks	0		11-Jun-22		22-Apr-22	++		+					·		· ·	- +	•			¢	> 3.5 8 Approv
3.5 .12 Approval DDA for storm water drainage works	0		11-Jun-22		22-Apr-22	++									· + + + + + + + + + + + + + + + +	$-\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$	•				> 3.5 .12 Apprc
3.5 .16 Approval DDA for waterworks	0		11-Jun-22		22-Apr-22	++					·				· 	- + + + + + + +	•			\$	> 3.5 16 Appro
3.5 .20 Approval DDA for sewage works	0		11-Jun-22		22-Apr-22	+										- +	•			\	> 3.5 20 Appro
3.5.24 Approval DDA for landscape works	0		11-Jun-22		22-Apr-22						· · · · · · · · · · · · · · · · · · ·		·		·		•			\$	3.5.24 Appro
3.5.25 Complete whole activities of this cost centre	0		11-Jun-22		22-Apr-22	+									· + + +	$-\frac{1}{1} \frac{1}{1} \frac{1}{1}$	•			\$	3.5 25 Comr
3.6 for Road L10 (Northern Section)	45	21-Mar-22	21-Jun-22	13-Oct-21 A	26-Feb-22	+									~	- +					
3.6 .6 Approval AIP for Road L10 (northern section)	0		21-Mar-22		13-Oct-21 A	•		+					·		\$ 3	3.6.6 Approval A	IP for Road	d L10 (northe	ern section)		
3.6.8 Approval DDA for Road L10 (northern section)	0		21-Jun-22		26-Feb-22*	- 								•		- 1 1 1 1 1 1					♦ 3.6.8
3.6.9 Complete whole activities of this cost centre	0		21-Jun-22		26-Feb-22*	++		+						•	· ·						◇ 3,6 .4
3.8 for Improvement Works at the Junction of Hoi Bun Road	0	03-Dec-20	03-Dec-20	13-Nov-21 A	13-Nov-21 A	++										- +					
3.8.9 Complete whole activities of this cost centre	0		03-Dec-20		13-Nov-21 A	· · · · · · · · · · · · · · · · · · ·		♦ 3.8.9 C	Completew	hole activities of this	cost centre										
3.9 for the Pipelines for District Cooling System for Commis	45	30-Sep-20	30-Sep-20	13-Nov-21 A	26-Feb-22	++		+			·					- 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
3.9.5 Submit GI report for pipelines of DCS for AMAWBC	0		30-Sep-20		13-Nov-21 A			◆ 3.9.5 S	Submit GI r	eport for pipelines of	DCS for AN	AWBC									
3.9.6 Approval GI report for pipelines of DCS for AMAWBC	0		30-Sep-20		13-Nov-21 A			♦ 3.9.6 A	pproval G	I report for pipelines	of DCS for A	MAWBC									
3.9.10 Approval DDA for pipelines of DCS	0		30-Sep-20		13-Nov-21 A	· ·		♦ 3.9.10	1.1.1	DDA for pipelines of l	1										
3.9.11 Submit O&M manual for DCS pipelines	0		30-Sep-20		26-Feb-22						·¦;			♦ 3.9.11	Submit Q&M	manual for DCS	pipelines				
3.10 for the Remaining Pipelines for District Cooling Systen	0	30-Sep-20	09-Dec-20	13-Nov-21 A	13-Nov-21 A	· · · · · · · · · · · · · · · · · · ·					······				· · · · · · · · · · · · · · · · · · ·	- + + + + + + + + + + + - + + + + + + + + +					
3.10.5 Submit GI report for remaining pipelines of DCS for AMAWBC	0		30-Sep-20		13-Nov-21 A			♦ 3.10.5	Submit GI	report for remaining	pipelines of	DCS for AMA	VBC								
3.10.6 Approval GI report for remaining pipelines of DCS for AMAWBC	0		30-Sep-20		13-Nov-21 A			♦ 3.10.6	Approval (GI report for remainin	g pipelines (of DCS for AM	AWBC								
3.10.10 Approval DDA for remaining pipelines of DCS	0		09-Dec-20		13-Nov-21 A			♦ 3.10.10) Approval	DDA for remaining p	ipelines of C	CS									
3.12 for Improvement Works at Junctions of Cha Kwo Ling	0	30-Sep-20	30-Sep-20	13-Oct-21 A	13-Oct-21 A	· · · · · · · · · · · · · · · · · · ·										- ; ; ; 1					·····
3.12.9 Complete whole activities of this cost centre	0		30-Sep-20		13-Oct-21 A	•	.12.9 Com	lete whole activities	of this cos	st centre											
4.2 Depressed Road and Remaining Ventilation Adits at the	45	20-Apr-21	14-Sep-21	13-Oct-21 A				Ventilation Adits at			· · · · · · · · · · · · · · · · · · ·										
4.2 .15 Complete South Apron Adist permanent structure 0.6	0		16-Jul-21		13-Oct-21 A	◆ 4	.2 .15 Com	plete South Apron A													
4.2.24 Complete foundation of Depressed Road by length 0.9	0		20-Apr-21		13-Nov-21 A			◆ 4.2.24	Complete	foundation of Depre	ssed Road	by length 0.9									
4.2.25 Complete permanent structure of Depressed Road by length 0.4	0		15-Jun-21		13-Nov-21 A			♦ 4.2 25	Complete	permanent structure	of Depress	ed Road by le	ngth 0.4								
4.2.26 Complete permanent structure of Depressed Road by length 0.5	0		29-Jun-21		13-Nov-21 A	· · · · · · · · · · · · · · · · · · ·		♦ 4.2.26	Complete	permanent structure	of Depress	ed Road by le	ngth 0.5								
4.2.27 Complete permanent structure of Depressed Road by length 0.6	0		29-Jun-21		13-Nov-21 A	+++		• 4.2 27	Complete	permanent structure	of Depress	ed Road by le	ngth 0.6								
4.2.28 Complete permanent structure of Depressed Road by length 0.7	0		19-Jul-21		13-Nov-21 A			♦ 4.2.28	Complete	permanent structure	of Depress	ed Road by le	ngth 0.7			- + - +					
4.2.29 Complete permanent structure of Depressed Road by length 0.8	0		16-Aug-21		13-Nov-21 A	i		• 4.2 29	Complete	permanent structure	of Depress	ed Road by le	ngth 0.8								
4.2.30 Complete permanent structure of Depressed Road by length 0.9	0		14-Sep-21		13-Nov-21 A			• 4.2 30	Complete	permanent structure	of Depress	ed Road by le	ngth 0.9								
4.2.16 Complete South Apron Adist permanent structure 0.8	0		09-Aug-21		13-Dec-21 A			+		🔶 4.2 .16 Com	lete South A	pron Adist pe	manent structure	0.8							
		1				1 · · · ·		,						<u> </u>		<u> </u>	1 1				· · · · !

Page 12 of 30 Data Date: 26-Feb-22 Milestone
 V
 Summary
 Planned Bar

Actual Milestone
 Actual Work

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Baseline Milestone
 Baseline Bar

CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		202											
						October 03 10 17 2	Novem 4 31 07 14			ermb 12	er 19 20	5 02	Janua 09	<u> </u>	23 30	Februar 0 06 13	y 20 1	27 06
4.2 .17 Complete South Apron Adist permanent structure 1	0		31-Aug-21		26-Feb-22*												•	4.2 .17 Co
4.2.23 Complete foundation of Depressed Road by length 1	0		20-Apr-21		26-Feb-22*												•	4.2 .23 Co
4.2 .31 Complete permanent structure of Depressed Road by length 1	0		14-Sep-21		26-Feb-22*												•	4.2 .31 Co
5.1 Cut-and-Cover Tunnel at South Apron	96	07-Sep-21	07-Sep-21	13-Oct-21 A	13-Oct-21 A	unnel at South Apr												
5.1.18 Complete base slab of Cut-and-cover Tunnel by length 0.1	0		07-Sep-21		13-Oct-21 A		omplete base slab		1									
5.1.19 Complete base slab of Cut-and-cover Tunnel by length 0.2	0		07-Sep-21		13-Oct-21 A	◆ 5.1.19C	omplete base slab	of Cut-and-o	cover Tu	in nel l	by lengtl	n 0.2						
5.1 .20 Complete base slab of Cut-and-cover Tunnel by length 0.3	0		07-Sep-21		13-Oct-21 A	♦ 5.1.20 C	omplete base slab	of Cut-and-o	cover Tu	innel I	by lengtl	n 0.3						
5.1 .21 Complete base slab of Cut-and-cover Tunnel by length 0.4	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .21 C	omplete base slat	of Cut-and-o	cover Tu	innel I	by lengtl	n 0.4						
5.1 .22 Complete base slab of Cut-and-cover Tunnel by length 0.5	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .22 C	omplete base slab	of Cut-and-o	cover Tu	innel I	by lengtl	n 0.5						
5.1.23 Complete base slab of Cut-and-cover Tunnel by length 0.6	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .23 C	omplete base slab	of Cut-and-o	cover Tu	innel I	bylengtl	n 0.6						
5.1.24 Complete base slab of Cut-and-cover Tunnel by length 0.7	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .24 C	omplete base slab	of Cut-and-o	cover Tu	innel I	by lengtl	n 0.7						
5.1.25 Complete base slab of Cut-and-cover Tunnel by length 0.8	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .25 C	omplete base slab	of Cut-and-o	cover Tu	in nel l	bylengtl	n 0.8						
5.1.26 Complete base slab of Cut-and-cover Tunnel by length 0.9	0		07-Sep-21		13-Oct-21 A	♦ 5.1 .26 C	omplete base slat	of Cut-and-o	cover Tu	innel I	by lengtl	n 0.9						
5.2 Completion of SUS	0	17-Nov-21	17-Nov-21	17-Jun-22	17-Jun-22		▼	5.2 Comple	tion of S	SUS								
5.2 .29 Complete remaining works in SUS by length 0.5	0		17-Nov-21		17-Jun-22		◆											
6.1 Tunnel Boring Machine and Back-up Equipment	0	26-May-21	26-May-21	13-Dec-21 A	13-Dec-21 A													
6.1.12 Complete establishment on site of TBMs 1	0		26-May-21		13-Dec-21 A					▶ 6.1	.12 Cor	nplete e	establish	ment	on site c	f TBMs 1		
6.1.16 Complete establishment on Site of hyperbaric intervention facilities 1	0		26-May-21		13-Dec-21 A					> 6.1	.16 Cor	n p lete e	establish	ment	on Site o	of hyperbaric	interven	tion faciliti
6.1.17 Complete whole activities of this cost centre	0		26-May-21		13-Dec-21 A					6 .1	.17 Cor	nplete v	whole ac	tivities	ofthis	cost centre		
6.2 TBM Tunnel	12	23-Mar-22	07-Apr-22	09-Jun-22	23-Jun-22													
6.2.7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		23-Mar-22		09-Jun-22													
6.2.8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		07-Apr-22		23-Jun-22													
6.2 .24 Complete TBM Tunnel waterproofing 0.4	0		07-Apr-22		23-Jun-22													
6.3 Cross Passages for TBM Tunnel	0	07-Apr-22	07-Apr-22	25-Jun-22	25-Jun-22													
6.3 .5 Complete Ground treatment for all Cross Passages 0.2	0		07-Apr-22		25-Jun-22													
7.1 Western Ventilation Building	0	09-Sep-21	09-Sep-21	13-Dec-21 A	13-Dec-21 A	ation Building												
7.1 .3 Complete excavation for WVB 0.5	0		09-Sep-21		13-Dec-21 A	· · · ·				> 7.1	.3 Com	plete e>	k¢avatior	n for W	/VB 0.5			
9.1 Launching Shaft	65	14-Jul-21	13-Aug-21	13-Oct-21 A	13-Oct-21 A													
9.1 .14 Complete bottom slab for Launching Shaft by area 0.4	0		14-Jul-21		13-Oct-21 A		omplete bottom sl		1.1.1.			-Barrie						
9.1 .15 Complete bottom slab for Launching Shaft by area 0.6	0		26-Jul-21		13-Oct-21 A		omplete bottom sl]								
9.1 .16 Complete bottom slab for Launching Shaft by area 0.8	0		04-Aug-21		13-Oct-21 A		omplete bottom sl			- T	1							
9.1 .17 Complete bottom slab for Launching Shaft by area 1	0		13-Aug-21		13-Oct-21 A	◆ 9.1 .17 C	omplete bottom sl	ab for Launch	hing Sha	aft by	area 1							
11.1 Drill and Break Tunnel	45	13-Jul-21	21-Dec-21	13-Dec-21 A	26-Feb-22								d Break					
11.1.2 Complete tunnel excavation 0.2 by length	0		13-Jul-21		13-Dec-21 A					> 11.	1.2 Con	nplete tu	unnel exo	cavati	on 0:2 b	ylength		
11.1.2 Complete tunnel excavation 0.3 by length	0		13-Aug-21		12-Feb-22 A											◆ 11		plete tunn
11.1.2 Complete tunnel excavation 0.5 by length	0		19-Oct-21		26-Feb-22*													11.1.2 Co
11.1.3 Complete tunnel excavation 0.6 by length	0		19-Nov-21		26-Feb-22*			>										11.1.3 Co
11.1.5 Complete tunnel excavation 0.7 by length	0		21-Dec-21		26-Feb-22*						◇						•	11.1.5 Co
11.1.2 Complete tunnel excavation 0.4 by length	0		14-Sep-21		26-Feb-22*												•	11.1.2 Co
12.1 Drill and Blast Tunnel	80	16-Sep-21	14-Feb-22	13-Oct-21 A	26-Feb-22											V 1	2.1 Drill	and Blast
12.1.7 Complete tunnel excavation 0.6 by length	0		16-Sep-21		13-Oct-21 A	◆ 12.1.7 Co	omplete tunnel exc			!-								
12.1.8 Complete tunnel excavation 0.7 by length	0		05-Nov-21		13-Oct-21 A	•	◆ 12.1.8 C	omplete tunn	nel exca	/ation	0.7 by I	ength						
Page 13 of 30 Milestone Planned Bar Critical A ctivity Actual Milestone Actual Work Baseline Milestone Baseline Bar 	•	ummary		fc	or Dev	Road T lopmen Rolling	ts at So	outh A	٩pr	on	Ì		ork	S		BC	DUYO	GUES

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09-Oct-20

02-Jul-21

01V3

02V0

SPa/LLo

SPa/LLo

WYu

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		Ostabar		2021 Novem			anomhar			February	l Ma	mb	2022	April		May		una
						03	October 10 17	24 31	Novem	iber 14 21	28 05	12 19	26 02 09	anuary 9 16 23	February 30 06 13 2	0 27 06 1	irch 3 20	27 03	April 10 17	/ 24 01 08	May 15 22	29 05	une 12 19 26
12.1.9 Complete tunnel excavation 0.8 by length	0		22-Dec-21		13-Dec-21 A							♦ ♦	12.1.9 Complete	tunnel excav	ation 0.8 by length								
12.1.10 Complete tunnel excavation 0.9 by length	0		14-Feb-22		26-Feb-22*										♦	◆ 12.1.10 Com	nplete tur	nel excava	ition 0.9 by	y length			
13.1 Lam Tin Interchange Works	0	20-Jun-22	20-Jun-22	20-Jun-22	20-Jun-22							·						+ + + + + + + + + + + + + + + + + + +	++		· 	·	▼ 13.1 L
13.1.1 Complete foundation	0		20-Jun-22		20-Jun-22*																		♦ 13.1 .
14.3 Kiosks	0	20-Jun-22	20-Jun-22	20-Jun-22	20-Jun-22							· · · · · · · · · · · · · · · · · · ·							+			·	▼ 14.3 k
14.3.1 Complete fabrication and application of protective systems for structural frame of kiosk 1	0		20-Jun-22		20-Jun-22*																		♦ 14.3.
15.0 E&M Design Works	54	10-May-21	· ·		06-May-22	prks	 											+	+				
15.0 .25 Submit DDA for Tunnel lighting system	0	[]	10-May-21]	13-Jan-22 A									▶ 15.0 .25 Sur	bmit DDA for Tunnel	lighting system	-						
15.0 .26 Approval DDA for Tunnel lighting system	0		03-Sep-21		06-May-22															◆ 15	.0 .26 Approva	al DDA for Tu	nnellighting (
17.1 Works under Sections 6A, 6C and 12 and Associated L	45	23-Jun-21	04-Oct-21	13-Oct-21 A		17	1				and Associat								+			·	
17.1.3 Complete excavation and disposal of material works 0.8	0		23-Jun-21		13-Oct-21 A		♦ 17.1.	.3 Complete	excavation	on and dis	lisposal of ma	aterial wor	ks 0.8										
17.1.13 Complete footpath 0.25	0		21-Sep-21]	26-Feb-22*											♦ 17.1 .13 Cor	mplete fo	otpath 0.25	5		· · · · · · · · · · · · · · · · · · ·		
17.1.17 Complete street furnitures of at-grade roads 0.25	0		04-Oct-21		26-Feb-22*	♦										◆ 17.1.17 Cor	mplete st	reet furnitur	es of at-gr	ade roads 0.25			
17.4 Remaining Stage 5 Infrastructure Works - Road L10 (S	0	02-Aug-22	04-Mar-23	26-Feb-22	26-Feb-22	1				·		·											
17.4.1 Complete excavation and disposal of material works 0.25	0		17-Feb-23]	26-Feb-22											•		+ -+ 					
17.4.2 Complete excavation and disposal of material works 0.5	0		04-Mar-23	j	26-Feb-22*							·				•							
17.4.21 Complete drainage installation 0.2	0		18-Oct-22		26-Feb-22*											•	1						
17.4 .25 Complete manhole for drainage 0.25	0	+	18-Oct-22	+	26-Feb-22*	$\left\{ \begin{array}{c} \frac{1}{1} & \cdots & -\frac{1}{1} \\ \frac{1}{1} & \cdots & \frac{1}{1} \\ \frac{1}{1} & \cdots & \frac{1}{1} \end{array} \right\}$										•							
17.4 .31 Complete sewerage installation 0.25	0	++	02-Aug-22	+	26-Feb-22*	<u> </u>										•	1 1 1 1						
17.4 .35 Complete manhole for sewerage 0.25	0	++	02-Aug-22	+	26-Feb-22*	$\frac{1}{1} + \frac{1}{1} + \frac{1}$										•		$\begin{vmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{vmatrix} = \begin{vmatrix} 1 \\ 1 \\ 1 \\ 1 \end{vmatrix} =$					
17.5 Remaining Stage 5 Infrastructure Works - Landscaped	133	15-Jul-21	28-Mar-22	13-Oct-21 A		<u></u>		<u></u>			<u></u>		<u> </u>					▼ 17.5 Re	maining S	Stage 5 Infrastruct	ure Works - L	and scaped;E	levated Walk
17.5.6 Complete piled foundations of FB02 0.5	0		15-Jul-21		13-Oct-21 A	$+$ $\frac{1}{1}$ $ \frac{1}{1}$	♦ 17.5	.6 Complete	e piled fou	undations	of FB02 0.5	5						+	+				
17.5.16 Complete concrete works of piers 0.25	0	+	07-Mar-22	+	26-Feb-22*	$\frac{1}{\frac{1}{1}} \frac{1}{1} \frac{1}{1$										♦ ♦ 17.5	.16 Com	plete concr	ete works	of piers 0.25			
17.5 .11 Complete concrete works of pile caps 0.5	0		23-Dec-21		14-Mar-22			·					·						¦	works of pile caps	0.5		·
17.5 .12 Complete concrete works of pile caps 0.8	0		08-Jan-22		26-Mar-22	$= \left\{ \begin{array}{c} 1\\1\\1\\1 \end{array} \right\} = \left\{ \begin{array}{c} 1\\1\\1 \end{array} \right\}$.				1	1	1. 1.	concrete works of	1 1 1		
17.5.13 Complete concrete works of pile caps 1	0	I	20-Jan-22	I	08-Apr-22	$-\left\lfloor \frac{1}{\frac{1}{2}} - \cdots - \frac{1}{\frac{1}{2}} \right\rfloor$	<u>.</u>												1	Complete concre	3		!
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17.5.18 Complete concrete works of piers 0.8	0		07-Mar-22]]	26-May-22	<u> </u> !	+ + +									∽							nplete concret
17.5 .17 Complete concrete works of piers 0.5	0		07-Mar-22]	06-Jun-22											•						♦ 1/.:	5.17 Complet
17.5 .19 Complete concrete works of piers 1	0		28-Mar-22		17-Jun-22													◇	1 1 1 1 1 1 1 1 1 1 1				◆ 17.5.19
21.1 Improvement Works at the Junction of Hoi Bun Road/C	0	08-Jun-21	15-Sep-21			vement	. Works at t	the Junction		!!-	/Cheung Yip S							Ţ = = - + - +	 				
21.1.2 Complete drainage installation 0.5	0		14-Aug-21		13-Nov-21 A		· · · · · · · · · · · · · · · · · · ·				omplete drain												
21.1.3 Complete drainage installation 1	0		08-Sep-21		13-Nov-21 A						omplete drain												
21.1.5 Complete sub-base and roadbase works 0.5	0		22-Jul-21]	13-Nov-21 A				• 2	21.1.5 Cc	omplete sub-	base and	l roadbase works	, 0.5									
21.1.6 Complete sub-base and roadbase works 0.8	0		19-Aug-21		13-Nov-21 A				• 2	21.1.6 Cc	omplete sub-	-base and	I roadbase works	, 0.8				+	1				
21.1.7 Complete sub-base and roadbase works 1	0	[]	15-Sep-21	j	13-Nov-21 A				• 2	21.1.7 Cr	omplete sub-	-base and	I roadbase works	; 1									
21.1.8 Complete kerb line modification and pavement 0.25	0		08-Jun-21		13-Dec-21 A							21.1.8	Complete kerb l	line modificatio	on and pavement; 0.	25	1						
21.2 Irrigation System for Improvement Works at the Juncti	1049	31-Dec-24	28-Feb-25	13-Nov-21 A	13-Nov-21 A	<u> </u>																	
21.2 .1 Complete irrigation system 0.3	0		31-Dec-24		13-Nov-21 A				•			·											
21.2.2 Complete irrigation system 0.6	0	+	01-Feb-25	+	13-Nov-21 A				•														
21.2 .3 Complete irrigation system 1	0	+	28-Feb-25	+	13-Nov-21 A	+ + + + + + + + + + + + + + + + +			•														
21.2 .4 Complete whole activities of this cost centre 1	0	+	28-Feb-25		13-Nov-21 A	$= \left\{ \begin{array}{c} \frac{1}{1} \\ \frac{1}{1} \\ \frac{1}{1} \end{array} \right\} = \left\{ \begin{array}{c} \frac{1}{1} \\ \frac{1}{1} \\ \frac{1}{1} \end{array} \right\}$			•														·
21.4 Improvement Works at the Junctions of Cha Kwo Ling	12	12-Jan-21	31-May-21		13-Nov-21 A		(+										
		Summary		10 1107 2.		<u>1: </u>		<u> </u>	<u> </u>		<u>í i i</u>		<u> </u>	<u> </u>)ate	Revision	Check	ed A	pproved
Page 14 of 30 Data Date: 26-Feb-22 Planned Bar Planned Bar Planned Bar		Jummary	ר ⊏	2018/04	1 Trur	トロ) 	Ι Τ ク .	and	Infr	rootru	· ^ti u	- Mar					18-De	c-19	00V1	WYu		
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Actual Milestone Actual Work		J	1	tc	or Dev	elo	pme	ents a	at So	outr	ר Apr	on			TRAVAL	YGUES JX PUBLICS)	09-Ap		01V1 01V2	SPa/LLo SPa/LLo	WYı WYı	
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Baseline Bar	Three Months Rolling Programme (Feb-22)											02-Jul		02V0	SPa/LLo	WYı							
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021				2022					
						October	November December 31 07 14 21 28 05 12 19 26 0	January F	ebruary	N 27 06	larch	April 03 10 17	24 01 08	May 15 22 1	Ju 29 05 1	ne 2 19 26
21.4 .1 Complete temporary traffic diversion 1	0		12-Jan-21		13-Nov-21 A		21.4 .1 Complete temporary traffic divers									
21.4.12 Complete road marking, traffic sign and traffic signal installation	0		23-Apr-21		13-Nov-21 A	***	♦ 21.4 .12 Complete road marking traffic s	ign and traffic signal installation								
21.4.13 Complete roadside planter	0		23-Apr-21		13-Nov-21 A	+ + + + + - + - + - + - + - + - + - + - + - + - + - + + - + - + + - + - +	21.4 .13 Complete roadside planter									
21.4.15 Complete T&C of drainage and waterworks system	0		31-May-21		13-Nov-21 A	+++++++++++++	◆ 21.4.15 Complete T&C of drainage and	waterworks system								
21.4.16 Complete whole activities of this cost centre	0		31-May-21		13-Nov-21 A	+ + + + + + + + + + +	◆ 21.4 .16 Complete whole activities of this	cost centre								
21.5 Establishment Works for Improvement Works at the Ju	117	31-May-21	20-Nov-21	13-Nov-21 A	13-Jun-22		✓ 21.5 Establishment Works for Impr	ovement Works at the Junction	s of Cha Kwo L	ing Road						
21.5.1 Complete establishment works for 3 mths completion of softworks	0		31-May-21		13-Nov-21 A	+	21.5.1 Complete establishment works for	r 3 mths completion of softwork	S							
21.5.3 Complete establishment works for 9 mths completion of softworks	0		20-Nov-21		13-Jun-22	+ +	→ → → → → → → → → → → → → → → → → → →								•	21.5.3 Con
21.5.4 Complete whole activities of this cost centre	0		20-Nov-21		13-Jun-22	++	•••••••••••••••								•	21.5.4 Con
22.1 Pipelines for District Cooling System for Commissioni	83	17-Jul-21	16-Nov-21	13-Jan-22 A	27-May-22			em for Commissioning of AMA	WBC							
22.1.3 Complete DCS installation length 0.8	0		17-Jul-21		13-Jan-22 A	+ + + + - + - + - +		◆ 22.1.3 Complete DCS	installation le	ngth 0.8						
22.1.5 Complete T&C of DCS system 1	0		16-Nov-21		27-May-22	+ +	◆							•	22.1 .5 Comp	lete T&C of
22.1.6 Complete whole activities of this cost centre 1	0		16-Nov-21		27-May-22	++	◆ • • • • • • • • • • • • • • • • • • •							•	22.1.6 Comp	lete whole a
34.2 Common Utilities Enclosure (CUE) under Section 13 of	141	23-Nov-21	24-Aug-22	13-Oct-21 A	27-Jun-22		··· · · · · · · · · · · · · · · · · ·							· · · · ·		
34.2.1 Complete excavation of CUE 0.5	0		23-Nov-21		13-Oct-21 A	•	♦ 34.2.1 Complete excavation of 0	CUE 0.5								
34.2.2 Complete excavation of CUE	0		24-Aug-22		27-Jun-22											•
35 Services Gallery	45	11-Jun-21	04-Feb-22	13-Nov-21 A	26-Feb-22	·			Services Galle	ry						
35.4 Submit DDA submission for Services Gallery Structures to the SO	0		11-Jun-21		13-Nov-21 A	· · · · · · · · · · · · · · · · · · ·	35.4 Submit DDA submission for Service	s Gallery Structures to the SO								
35.5 Approval of DDA submission for Services Gallery Structures by the SO	0		08-Oct-21		13-Nov-21 A	♦	35.5 Approval of DDA submission for Se	vices Gallery Structures by the	\$0							
35.31 Complete 25% of total volume (measured on plan) of excavation for	0		19-Oct-21		13-Dec-21 A	↓	◆ 35.31 Complete	25% of total volume (measured	d on plan) of ex	cavation fo	r Lower Baseme	nt of East Venti	ation Building			
Lower Basement of Fast Ventilation. Building 35.9 Approval of DDA submission for Services Gallery E&M design by the SO			08-Oct-21		26-Feb-22*	•							ces Gallery E&M	lesian by the	SO	
35.16 Complete 20% of total length (measured on plan) of SG structures in	0		00-000 21 04-Feb-22		26-Feb-22							!!	red on plan) of S(ak and Drill
Drill-and-Break and Drill-and-Blast Tunnel												, , , , , , , , , , , , , , , , , , ,	red on plan) of S(<u> </u>		
35.17 Complete 40% of total length (measured on plan) of SG structures in Drill-and-Break and Drill-and-Blast Tunnel	0		04-Feb-22		26-Feb-22*	++		◆				· · · · · · · · · · · · · · · · · · ·	1			
35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basement of Fast Ventilation Building	0		29-Nov-21		26-Feb-22*		•		•	35.32 Com	iplete 50%; of tota	I volume (meas	ured on plan) of e	xcavation for	Lower Basen	nent of East
SOUTH APRON EXTERNAL WORKS	888	23-Feb-21	29-Jun-24	02-Jul-21 A	29-Jun-24											
Road S20	300	21-Apr-21	17-Jan-22	26-Jul-21 A	09-Aug-22	· · · · · · · · · · · · · · · · · · ·		Road S20						· · · · · · · · · · · · · · · · · · ·		
CUE CUE FSI Forms submission to FSD (if applicable)	300 0	21-Apr-21	17-Jan-22 21-Oct-21	26-Jul-21 A	09-Aug-22 14-May-22	♦		CUE							orms submis	sion to FSD
CUE FS Inspection & Commissioning (if applicable)	48	19-Nov-21	17-Jan-22	14-Jun-22	09-Aug-22	·····				+		+				
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Entrance Entrance - Excavation	201 18	13-May-21 13-May-21	18-Nov-21 03-Jun-21	13-Sep-21 A 13-Sep-21 A	13-Jun-22	Entrar	V Entrance									
Entrance - Structure	36	04-Jun-21	17-Jul-21	23-Oct-21 A				e - Structure								
												Structures (M/o	L'8 Top Slob)			
Entrance- Remaining Structures (Wall & Top Slab)	12	19-Jul-21	31-Jul-21	28-Dec-21 A		· · · · · · · · · · · · · · · · · · ·					ance Remaining			· · · · ·		
Entrance - Utilities & E&M	72	18-Sep-21	18-Nov-21	14-Mar-22	13-Jun-22											Entrance -
Junction	24 24	21-Apr-21 21-Apr-21	20-May-21	26-Jul-21 A 26-Jul-21 A	27-Dec-21 A 27-Dec-21 A			tion - Excavation & Backfilling								
Junction - Excavation & Backfilling Road & Drain		•	20-May-21			· · · · · · · · · · · · · · · · · · ·										
Stage 3	189 189	05-Jun-21 05-Jun-21	18-Nov-21 18-Nov-21	28-Oct-21 A 28-Oct-21 A	05-Jul-22 05-Jul-22		Road & Dràin									
S20 Stage 3 (Drainage)	36	05-Jun-21	19-Jul-21	28-Oct-21 A				e 3 (Drain'age)								
S20 Stage 3 (Watermain)	4	20-Jul-21	23-Jul-21	13-Dec-21 A						S20 S	age 3 (Watermai	n)				
S20 Stage 3 (UU Diversion)	12	24-Jul-21	06-Aug-21	04-Mar-22	17-Mar-22							3 (UU Diversion)				
S20 Stage 3 (U channel, Catchpit, Gully)	22	07-Aug-21	01-Sep-21	18-Mar-22	13-Apr-22								Stage 3 (U channe	Catchnit C	ullv)	
Szo Stage 5 (O channel, Calchpit, Gully)	22	07-Aug-21	01-3ep-21	10-10101-22	13-Api-22							520			ully)	
Page 15 of 30 ◆ Milestone Data Date: 26-Feb-22 Planned Bar Critical A divity ◆ Actual Milestone Actual Work Actual Work		Summary	ED/2		_	_	and Infrastructure V at South Apron		BOUYC	JUES	22	-Feb-20 -Apr-20	Revision 00V1 01V0 01V1 01V2	Checke WYu SPa/LLo SPa/LLo SPa/LLo	ed Ap WYu WYu WYu	
Baseline Milestone Baseline Bar				Three	Month	ns Rolling I	09	-Oct-20	01V3 02V0	SPa/LLo SPa/LLo	WYu WYu					

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021		-			· · · · · · · · · · · · · · · · · · ·			2022				
						October	4 31 07	ovember	Decem 28 05 12		Jan 26 02 09	iuary 16 23	February 30 06 13 2	20 27 1	March 06 13	20 27	April 03 10 17	24 01 08	May 15 22 29	June 05 12 19 26
S20 Stage 3 (Roadworks)	22	02-Sep-21	28-Sep-21	14-Apr-22	14-May-22														S20 Stage 3 (R	oadworks)
Utilities undertaker (by others)	36	07-Sep-21	21-Oct-21	22-Apr-22	06-Jun-22			· 												Utilities undertak(
Footpath, Road Marking & Road Lighting part 1	24	22-Oct-21	18-Nov-21	07-Jun-22	05-Jul-22			·							· ·					
	244	16-Aug-21	31-Jan-22	09-Sep-21 A	09-Jul-22	++++++++++++					·····	}} ! ! ! !	AMAWBC		·					
Drainage & Sewerage	244	10-Sep-21	31-Jan-22	09-Sep-21 A	09-Jul-22	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				;;- ; ; ;	🔻 Drainage & Sev	/erage						
Section B	22	10-Sep-21	07-Oct-21	11-Mar-22	06-Apr-22	Section B														
Section B - Drainage	11	10-Sep-21	23-Sep-21	11-Mar-22	23-Mar-22											1 1	B - Drainage	- I - I - I		
Section B - Sewerage	11	24-Sep-21	07-Oct-21	24-Mar-22	06-Apr-22												Section B	- Sewerage		
Section C	236	30-Nov-21	31-Jan-22	09-Sep-21 A	29-Jun-22	++			V	;;- 	·	;;; 	Section C		· 1 1 · · · · · · · · · · · · · · · · · · ·					
Section C - Open cut excavation	32	30-Nov-21	06-Dec-21	09-Sep-21 A	19-Oct-21 A					1 1	en cut excavatio									
Section C - Drainage	21	07-Dec-21	03-Jan-22	23-Oct-21 A	12-Nov-21 A			l			Section	C - Drainage	e			· i				
Section C - Sewerage	24	04-Jan-22	31-Jan-22	01-Jun-22	29-Jun-22	++++++++						<u></u>	■		·					
Forecast	53			09-Sep-21 A	24-Nov-21 A															
L10 (Drainage) Excavation	32			09-Sep-21 A	19-Oct-21 A	L10	(Drainage) E	xcavation												
L10 (Drainage) (3 manhole) SMH1.3-1.5	18			23-Oct-21 A	12-Nov-21 A			L10 (Draina	ge) (3 manhole) SMH1	1.3-1.5									
L10 (Drainage) Backfill	10			13-Nov-21 A	24-Nov-21 A			μ	10 (Drainage) B	ackfill										
Section D	230	08-Oct-21	17-Jan-22	27-Sep-21 A	09-Jul-22	▼						V Section	D							
Section D - ELS & Excavation	15	08-Oct-21	26-Oct-21		29-Oct-21 A		Section E)- ELS & Exca	ivation						·					
Section D - Drainage	35	27-Oct-21	06-Dec-21	16-Nov-21 A	07-Dec-21 A		· · · · · · · · · · · · · · · · · · ·		Section	ἡD-D	rainage	L								
Section D - Sewerage	14	07-Dec-21	22-Dec-21	26-Nov-21 A	12-Jan-22 A			· · · · · · · · · · · · · · · · · · ·				Section D - S	Sewerage							
Section D - Watermain	5	23-Dec-21	30-Dec-21	01-Jun-22	07-Jun-22			·				L L L			·					Section D - Wate
Forecast	230	04-Jan-22	17-Jan-22	27-Sep-21 A	09-Jul-22			· · · · · · · · · · · · · · · · · · ·				₩ Forecast	t							
L18 (Drainage) Excavation	12			1.11	09-Nov-21 A			L18 (Drainage) Excavation						· + + - 					
L18 (Drainage) (3 manhole) SMH1.10-1.12	18			26-Nov-21 A	07-Jan-22 A			·			L18	(Drainage) (3 manhole) SMH1.	10-1.12						
L10/L18 (Drainage) Sheet pile	35			03-Jan-22 A	26-Mar-22						1		······································			L10/L	18 (Drainage) Sheet pile		
L18 (Drainage) Backfill	10			28-Feb-22	10-Mar-22											rainage) Ba	ickfill			
L10/L18 (Drainage) Excavation	36			28-Mar-22	14-May-22										· + + - 	-++	· · · · · · · · · · · · · · · · · · ·		L10/L18 (Draina	ge) Excavation
L10/L18 (Drainage) (4 manhole) SMH1.6-1.9	24			16-May-22	13-Jun-22						·									L10/L18 (D
L10/L18 (Drainage) Backfill	10			14-Jun-22	24-Jun-22										·					L1
DSD Inspection	12	04-Jan-22	17-Jan-22	25-Jun-22	09-Jul-22						····	 			· · · · · · · · · · · · · · · · · · ·					
Outfall 1	74	16-Aug-21	07-Oct-21	28-Feb-22	31-May-22	▼ Outfall 1									· + + - + - + - + - + - + -					
Outfall 1 Excavation & Blinding	18	16-Aug-21	04-Sep-21	28-Feb-22	19-Mar-22											Outfall 1 Ex	xcavation & B	inding		
Outfall 1 Installation & Alignment	48	06-Sep-21	27-Sep-21	21-Mar-22	21-May-22														Outfall 1 li	nstallation & Alignme
Outfall 1 Backfilling & reinstatement	8	28-Sep-21	07-Oct-21	23-May-22	31-May-22														0	utfall 1 Backfilling &
[STE] District Cooling System for AMAWBC Section 6B	228	23-Feb-21	16-Nov-21	26-Jul-21 A	27-May-22			▼ [STE] Di	strict Cooling S	ýstem fi	or AMAWBC Se	ction 6B			·					
Section 1 - Bay 1	21	19-Mar-21	13-Apr-21		27-Oct-21 A											+				
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	19-Aug-21 A	19-Oct-21 A	DCS	- Bay 1 Pipe	Installation +	Jointing (12nos)											
DCS - Bay 1 Backfill	6	07-Apr-21	13-Apr-21	21-Oct-21 A	27-Oct-21 A		DCS - Bay	1 Backfill				 			· + + +		· 1			
Section 1 - Bay 3	180	13-May-21	01-Sep-21	26-Jul-21 A	25-Mar-22										· + + + + - + + - + + + +					
DCS - Bay 3 Sheet pile (1870m2)	34	13-May-21	23-Jun-21	26-Jul-21 A	28-Oct-21 A	+ + +	DCS - Ba	y 3 Sheet pile	(1870m2)			,						- 1 1		
DCS - Bay 3 Excavation (2620m3)	18	24-Jun-21	15-Jul-21	29-Oct-21 A	14-Dec-21 A			·	· · · · · · · · · · · · · · · · · · ·	DCS - B	ay 3 Excavation	(2620m3)			· +					
DCS - Bay 3 Pipe Installation - Set up (DN900 30m)	12	16-Jul-21	29-Jul-21	14-Dec-21 A	22-Dec-21 A					D	CS - Bay 3 Pipe	Installation -	Set up (DN900 30	m)						
///										<u>i i</u>		i i i								
Page 16 of 20		lummon/															Date	Revision	Checked	Approved

Page 16 of 30 Data Date: 26-Feb-22

e V Summary Bar

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

Activitv

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

BOUYGUES TRAVAUX PUBLICS



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

No. 1001/2014/2014 No. 1001/2014 No. 1001/	Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May June
Processor Po No.1 Add Status <							03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 1
Proto-Auto W Process	DCS - Bay 3 Pipe Installation - Pipe welding	9	30-Jul-21	09-Aug-21	23-Dec-21 A	02-Mar-22	
Sector Sector<	DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	03-Mar-22	14-Mar-22	DCS - Bay 3 Pipe Installation - Jointing (15nos)
Octos Description Description <thdescription< th=""> <thd< td=""><td>DCS - Bay 3 Backfill</td><td>10</td><td>21-Aug-21</td><td>01-Sep-21</td><td>15-Mar-22</td><td>25-Mar-22</td><td>DCS - Bay 3 Backfill</td></thd<></thdescription<>	DCS - Bay 3 Backfill	10	21-Aug-21	01-Sep-21	15-Mar-22	25-Mar-22	DCS - Bay 3 Backfill
No. 40, 100, 100, 100, 100, 100, 100, 100,	Section 2 - Bay 4	44	26-Jun-21	17-Aug-21	•		
No. Log 100 No. Aug 11 No. Aug 11 No. Aug 11 No. Aug 12 No. Aug 12 </td <td>DCS - Bay 4 Pipe Installation - Pipe welding</td> <td>15</td> <td>26-Jun-21</td> <td>14-Jul-21</td> <td>13-Sep-21 A</td> <td>02-Oct-21 A</td> <td>A DCS - Bay 4 Pipe Installation - Pipe welding</td>	DCS - Bay 4 Pipe Installation - Pipe welding	15	26-Jun-21	14-Jul-21	13-Sep-21 A	02-Oct-21 A	A DCS - Bay 4 Pipe Installation - Pipe welding
Second Option Second	DCS - Bay 4 Pipe Installation - Jointing (33nos)	17	15-Jul-21	03-Aug-21	04-Oct-21 A	16-Oct-21 A	A DCS - Bay 4 Pipe Installation - Jointing (33nos)
US 497-relations instructioner 14 214-24 342/14 342/14 1000-14 <t< td=""><td>DCS - Bay 4 Backfill</td><td>12</td><td>04-Aug-21</td><td>17-Aug-21</td><td>18-Oct-21 A</td><td>30-Oct-21 A</td><td>A DC\$ - Bay 4 Backfill</td></t<>	DCS - Bay 4 Backfill	12	04-Aug-21	17-Aug-21	18-Oct-21 A	30-Oct-21 A	A DC\$ - Bay 4 Backfill
Bits Dest Start Lattice - Antique (Start) Bits <	Section 2 - Bay 5	115	23-Feb-21	03-May-21	16-Oct-21 A	21-Mar-22	
So Ship-lendate Autory Data 0 Sale Ship-lendate Autory Data Outors Ship-lendate Autory Data Distance Non-Autor State 0 Nan-1 Nan-2	DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	14	23-Feb-21	10-Mar-21	16-Oct-21 A	28-Oct-21 A	A DCS - Bay 5 Pipe Installation - Set up (DN600 66m)
Dis Big Vier nutation January Stately Dis / Mar.0 Vir.et/l Unit / Vir.et/l <td>DCS - Bay 5 Pipe Installation - Pipe welding</td> <td>14</td> <td>11-Mar-21</td> <td>26-Mar-21</td> <td>29-Oct-21 A</td> <td>06-Dec-21 A</td> <td>- []</td>	DCS - Bay 5 Pipe Installation - Pipe welding	14	11-Mar-21	26-Mar-21	29-Oct-21 A	06-Dec-21 A	- []
Sec: Constrain Adj Variability Source Sou	DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	14-Dec-21 A	07-Mar-22	2 DCS - Bay 5 Pipe Installation - Jointing (30nos)
Intervention 0 1 Manne No.900 / Marcel A Manne PCS 32/Bornine UCM01 DCS 32/Bornine UCM01 <thdc 32="" bornine="" th="" ucm01<=""> DCS 32/B</thdc>	DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	08-Mar-22	21-Mar-22	2 DCS - Bay 5 Backfill
UD::>2019e estatus - drug Dudg Sult P Quart Subsci 1 Subsc	Section 2 - S20	81	17-Jun-21	19-Aug-21	23-Sep-21 A	06-Jan-22 A	A
DS S23 DPp Hutdato Pp and into	DCS - S20 Excavation (1026m3)	12	17-Jun-21	30-Jun-21	23-Sep-21 A	16-Oct-21 A	A DCS - S20 Excavation (1026m3)
Des: Scholley-Industion H 64.8 µ3/h 9 Au 21 10 Supplementation	DCS - S20 Pipe Installation - Set up (DN600 60m)	14	02-Jul-21	17-Jul-21	18-Oct-21 A	06-Dec-21 A	A DCS - \$20 Pipe Installation - Set up (DN600 60m)
Section 2- CUE Y PH2421 119822 201001 Cut Cut DC5: CLE Provide M Mou21 3040021 Cut Cut DC5: CLE Provide DC5: CLE Provide<	DCS - S20 Pipe Installation - Pipe welding	13	19-Jul-21	02-Aug-21	09-Dec-21 A	20-Dec-21 A	A DCS - \$20 Pipe Installation - Pipe welding
Product Merit 14 9.3.621 01.4.0.9 29.3.624 01.4.0.97 01.4.0.97 01.0.9	DCS - S20 Pipe Installation - Jointing (27nos)	14	04-Aug-21	19-Aug-21	21-Dec-21 A	06-Jan-22 A	A DCS - S20 Pipe Installation - Jointing (27 nos)
UCS U	Section 2 - CUE	74	19-Jul-21	17-Sep-21	22-Nov-21 A	19-Jan-22 A	
PDS: CIIF Juling & Commissioning 21 24 <td>DCS - CUE - Set up (DN600 90m)</td> <td>14</td> <td>19-Jul-21</td> <td>03-Aug-21</td> <td>22-Nov-21 A</td> <td>01-Dec-21 A</td> <td>A DCS - CUE - Set up (DN600 90m)</td>	DCS - CUE - Set up (DN600 90m)	14	19-Jul-21	03-Aug-21	22-Nov-21 A	01-Dec-21 A	A DCS - CUE - Set up (DN600 90m)
Testing & Commissioning 69 195-p2 195-b2 274-by22 Testing & Commissioning Commissioning Constructions Constructions <thconstructions< th=""> Constructions</thconstructions<>	DCS - CUE - Pipe welding	18	04-Aug-21	24-Aug-21	11-Dec-21 A	15-Jan-22 A	A DCS - CUE - Pipe welding
OracultoG5 Construction 40 18-Sig-21 24-Win-22	DCS - CUE - Jointing (42nos)	21	25-Aug-21	17-Sep-21	17-Jan-22 A	19-Jan-22 A	A DCS - CUE - Jointing (42nos)
Over UDS: testight Consistenting 4e 0: Server His Anony 2 7 Mary 2	Testing & Commissioning	48	18-Sep-21	16-Nov-21	26-Mar-22	27-May-22	2 Testing & Commissioning
STE District Cooling System - Remaining Section 78 Arz OL May 21 M 492 21	Overall DCS - Testing & Commissioning	48	18-Sep-21	16-Nov-21	26-Mar-22	27-May-22	2 Overall D¢S - Test
DCS (Section 3) 162 21 Oct 2 11 Hyp 22 2 Feb 22 4 Sep 22 4 Sep 22 DCS (L10(5)) 113 21 Oct 2 110 Hyp 22 2 Feb 22 4 Sep 22 0 Hyp 22 <t< td=""><td>Section 6B completion</td><td>0</td><td></td><td>16-Nov-21</td><td></td><td>27-May-22</td><td>2 ♦ Section 6B complet</td></t<>	Section 6B completion	0		16-Nov-21		27-May-22	2 ♦ Section 6B complet
DCS (Bockin 3) Ho Product 3	[STE] District Cooling System - Remaining Section 7B	292	04-May-21	17-May-22	31-Aug-21 A	14-Sep-22	2 STE] District Cooling Syste
DCS-L10(S) CH22/400 Short ple 38 21-002.21 63-06-21 63-06-22 07-07-22 14-04y-22 04-06-27 10-07-20 10-07	DCS (Section 3)	162	21-Oct-21	17-May-22	21-Feb-22 A	14-Sep-22	
UCS-110(S) CH377-00 # xzuvation 28 04-bec-21 08-lan-22 07-Apr-22 14-May-22 14-May-22 14-May-22 14-May-22 05-lin(S) 01/32 327 DCS-110(S) CH322 27 Sheet ple 37 65-Jan-22 19-Feb 22 11-May-22 23-Jan-22 14-May-22 23-Jan-22 14-May-22 23-Jan-22 16-May-22 16-May-							
DCS L10(S) CH2/2 27 Sheet pile 24 04 Bec 2i 07 Ar 22 10 May 2i 01 May 2i 01 May 2i 02 May 2i 00 May 2i 00 May 2i 02 May 2i 03 May 2i 05 L10(S) 01 Mai 2i 01 Mai 2i 04 May 2i 04 May 2i 04 May 2i 04 May 2i 05 L10(S) 01 Mai 2i 01 Mai 2i 04 May 2i 04 May 2i 05 L10(S) 01 Mai 2i 01 Mai 2i 04 May 2i 04 May 2i 05 L10(S) 01 Mai 2i 04 May 2i 04 May 2i 05 May 2i 04 May 2i 04 May 2i 04 May 2i 05 May 2i <		38	21-Oct-21				
DCS-110(S) CH185-32 Sheat pile 37 05-3 an-22 11-48y-22 23-Jan-22 12-448y-22 23-Jan-22 12-448y-22 23-Jan-22 12-448y-22 23-Jan-22 13-448y-22 24-Jan-22 13-448y-22 13-Jan-22 24-Jan-22 13-448y-22 13-Jan-22 24-Jan-22 13-448y-22 13-Jan-22 13-Jan-22 </td <td>DCS - L10(S) CH327-400 Excavation</td> <td>28</td> <td>04-Dec-21</td> <td>08-Jan-22</td> <td>07-Apr-22</td> <td>14-May-22</td> <td></td>	DCS - L10(S) CH327-400 Excavation	28	04-Dec-21	08-Jan-22	07-Apr-22	14-May-22	
DCS - L10(S) CH327-400 Pipe Installation - Ste up (DN900 73m) 12 10 Jan 22 2 Jan 22 16 May 22 2 May 22 0 </td <td>DCS - L10(S) CH252-327 Sheet pile</td> <td>24</td> <td>04-Dec-21</td> <td>04-Jan-22</td> <td>07-Apr-22</td> <td>10-May-22</td> <td>2 DCS - L10(S) CH252-327 Sheet </td>	DCS - L10(S) CH252-327 Sheet pile	24	04-Dec-21	04-Jan-22	07-Apr-22	10-May-22	2 DCS - L10(S) CH252-327 Sheet
DCS - L10(S) CH252 327 Exavation 12 10 Jan 22 22 Jan 22 16 May 22 28 May 22 0	DCS - L10(S) CH185-252 Sheet pile	37	05-Jan-22	19-Feb-22	11-May-22	23-Jun-22	
DCS - 10(5) CH37-400 Pipe Installation - Pipe welding 17 24.Jan.22 15-feb.22 30.May-22 13.Jun.22 DCS - 10(5) CH22-327 Pipe Installation - Set up (DN900 75m) 12 24.Jan.22 09.Feb.22 30.May-22 13.Jun.22 DCS - 10(5) CH22-327 Pipe Installation - Set up (DN900 75m) 14 16-feb.22 15.Mar-22 09.Jun-22 13.Jun.22 DCS - 10(5) CH22-327 Pipe Installation - Pipe welding 18 16-feb.22 06.Mar-22 20.Jun-22 13.Jun.22 DCS - 10(5) CH25-327 Pipe Installation - Pipe welding 18 16-feb.22 06.Mar-22 20.Jun-22 13.Jun.22 DCS - 10(5) CH25-327 Pipe Installation - Pipe welding 18 16-feb.22 02.Jun.22 13.Jun.22 15.Jul.22 DCS - 10(5) CH25-327 Pipe Installation - Pipe welding 16 20.Nov.21 17.May.22 15.Jul.22 15.Jul.22 10.Sul.22 10.Su	DCS - L10(S) CH327-400 Pipe Installation - Set up (DN900 73m)	12	10-Jan-22	22-Jan-22	16-May-22	28-May-22	2 DCS - L1D(S) CH3
DCS - L10[S) CH327-400 Pipe Installation - Pipe velding 17 24-Jan-22 15-feb-22 30-May-22 18-Jun-22 13-Jun-22 30-May-22 13-Jun-22 30-May-22 13-Jun-22 30-May-22 13-Jun-22 14-Jan-22 13-Jun-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 14-Jan-22 16-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 10-Keb-22 1	DCS - L10(S) CH252-327 Excavation	12	10-Jan-22	22-Jan-22	16-May-22	28-May-22	
DCS - L10(S) CH327-400 Pipe Installation - Diving (36nos) 24 16-Feb-22 09-Jun-22 18-Jul-22 20-Jun-22 18-Jul-22 19-Jul-22 19-Jul-22 <td< td=""><td>DCS - L10(S) CH327-400 Pipe Installation - Pipe welding</td><td>17</td><td>24-Jan-22</td><td>15-Feb-22</td><td>30-May-22</td><td>18-Jun-22</td><td></td></td<>	DCS - L10(S) CH327-400 Pipe Installation - Pipe welding	17	24-Jan-22	15-Feb-22	30-May-22	18-Jun-22	
DCS - L10(\$) CH252-327 Pipe Installation - Pipe welding 18 16-Feb-22 09-Mar-22 20-Jun-22 11-Jul-22 DCS - L10(\$) CH252-327 Pipe Installation - Pipe welding 18 21-Feb-22 24-Jun-22 15-Jul-22 15-Jul-22 15-Jul-22 16-Beb-22 17-May-22 28-Feb-22 14-Jul-22 15-Jul-22 17-May-22 28-Feb-22 11-Jul-22 16-Beb-22 17-May-22 28-Feb-22 11-Jul-22 16-Beb-22 V DCS (Pipe Jacking) V DCS (P	DCS - L10(S) CH252-327 Pipe Installation - Set up (DN900 75m)	12	24-Jan-22	09-Feb-22	30-May-22	13-Jun-22	2 DCS
DCS - L10(S) CH185-252 Excavation 18 21-Feb-22 12-Mar-22 24-Jun-22 15-Jul-22 DCS (Pipe Jacking) 162 30-Nov-21 17-May-22 28-Feb-22 14-Sep-22 Image: Constrained of the second of th	DCS - L10(S) CH327-400 Pipe Installation - Jointing (36nos)	24	16-Feb-22	15-Mar-22	20-Jun-22	18-Jul-22	
DCS (Pipe Jacking) 162 30-Nov-21 17-May-22 28-Feb-22 14-Sep-22 14-Sep-22 11-Apr-22 DCS (Pipe Jacking) DCS (Pipe Jacking) <thdcs (pipe="" jacking)<="" th=""> <thdcs (pipe="" ja<="" td=""><td>DCS - L10(S) CH252-327 Pipe Installation - Pipe welding</td><td>18</td><td>16-Feb-22</td><td>08-Mar-22</td><td>20-Jun-22</td><td>11-Jul-22</td><td></td></thdcs></thdcs>	DCS - L10(S) CH252-327 Pipe Installation - Pipe welding	18	16-Feb-22	08-Mar-22	20-Jun-22	11-Jul-22	
DCS (Pipe Jacking) 162 30-Nov-21 17-May-22 28-Feb-22 14-Sep-22 14-Sep-22 11-Apr-22 DCS (Pipe Jacking) DCS (Pipe Jacking) <thdcs (pipe="" jacking)<="" th=""> <thdcs (pipe="" ja<="" td=""><td>DCS - L10(S) CH185-252 Excavation</td><td>18</td><td>21-Feb-22</td><td>12-Mar-22</td><td>24-Jun-22</td><td>15-Jul-22</td><td></td></thdcs></thdcs>	DCS - L10(S) CH185-252 Excavation	18	21-Feb-22	12-Mar-22	24-Jun-22	15-Jul-22	
DCS - Pipe Jacking Sheet pile 36 30-Nov-21 13-Jan-22 28-Feb-22 11-Apr-22 11		162	30-Nov-21	17-May-22	28-Feb-22	14-Sep-22	2 DCS (Pipe Jacking)
Dcs - Pipe Jacking 72 16-Feb-22 17-May-22 17-May-22 10-Aug-22 Page 17 of 30 Data Date: 26-Feb-22 Miestone Summary Date Date: 26-Feb-22 Miestone Summary Description Description Summary Date Date: 26-Feb-22 Miestone Summary Description Description Summary Bourgeues Bourgeues Bourgeues Bourgeues Description Spa/LLo Wru	-	36	30-Nov-21	-		•	
Page 17 of 30 Image: 126-Feb-22 Date Revision Checked Apple Page 17 of 30 Planed Bar Image: 26-Feb-22 Image: 26-Feb-22 <td< td=""><td>DCS - Pipe Jacking pits Excavation</td><td>25</td><td>14-Jan-22</td><td>15-Feb-22</td><td>12-Apr-22</td><td>16-May-22</td><td>2 DCS - Pipe Jacking pits Exc</td></td<>	DCS - Pipe Jacking pits Excavation	25	14-Jan-22	15-Feb-22	12-Apr-22	16-May-22	2 DCS - Pipe Jacking pits Exc
Page 17 of 30 Data Date: 26-Feb-22 Page 17 of 30 Data Date: 26-Feb-22 Image: Addition of the second control	DCS - Pipe Jacking	72	16-Feb-22	17-May-22	17-May-22	10-Aug-22	
♦ ♦ Baseline Miestone Baseline Bar Op-Oct-20 01V3 SPa/LLo WYu	Page 17 of 30 Milestone Planned Bar Critical A divity Actual Milestone Actual Work Baseline Milestone 	s	Summary	ED/2	018/04 fc	4 Trun or Dev	nk Road T2 and Infrastructure Works velopments at South Apron the Polling Programme (Eeb 22)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021								022			
						October 03 10 17 24	November 31 07 14 21	28 05 12	ber 19 26	January 02 09 16	23 30	February 06 13 20		13 20 2	April 7 03 10 17 24	May 01 08 15 22 29	June 2 05 12	19 26
Forecast	162			28-Feb-22	14-Sep-22													
Launching Pit	162			28-Feb-22	14-Sep-22													
DCS - Pipe Jacking Pre-treatment	12			28-Feb-22*	12-Mar-22									1 1	Jacking Pre-treatment			
DCS - Pipe Jacking Sheet pile	30			14-Mar-22	21-Apr-22										DCS	6 - Pipe Jacking Sheet pile		
DCS - Launching Pit Excavation	48			22-Apr-22	20-Jun-22													DCS
DCS - Pipe Jacking Excavation	72			21-Jun-22	14-Sep-22													
Recieving Pit											[]							
DCS - Pipe Jacking Pre-treatment	12			14-Mar-22*	26-Mar-22								1	i i	DC\$ - Pipe Jacking Pre-tr	i i i i		
DCS - Pipe Jacking Sheet pile	30			28-Mar-22	06-May-22											DCS - Pipe Jacking	Sheet pile	
DCS - Receiving Pit Excavation	35			07-May-22	18-Jun-22													DCS - I
DCS Section 4	4	04-May-21	07-May-21	31-Aug-21 A	05-Oct-21 A													
DCS - DPR Pipe Installation - Jointing (6nos)	4	04-May-21	07-May-21	31-Aug-21 A	05-Oct-21 A	DCS - DPR Pipe Ir	stallation - Jointing (6nd)S)										
Outfall 2 & Branch Drainage	120	03-Jan-22	01-Jun-22	28-Feb-22	26-Jul-22	- <u> </u>	/			V							V Outfall 2 & B	ranch Dr
Coordinated Access to Portion H1 (NAH Site B)	0	03-Jan-22		28-Feb-22*						◇			🔶 Coordina		Portion H1 (NAH Site B)			
Branch Drainage within Portion H1	72	03-Jan-22	30-Mar-22	28-Feb-22	28-May-22								- F <u>1</u>			B	ranch Drainag	e within I
Outfall 2 Excavation & Blinding	48	31-Mar-22	01-Jun-22	30-May-22	26-Jul-22											+		
Foot Bridge FB-02	218	10-Mar-21	28-Mar-22	02-Oct-21 A	28-Jul-22			·				LLL		V	Foot Bridge FB-02			
DSD KBSIS - Interface	218	10-Mar-21	07-Mar-22	04-Oct-21 A	28-Jul-22			·		· · · · · ·		LLL	▼ D\$	DKBSIS - Int	erface			
FB-02 H-pile - P1/P2/P3	51	24-Jun-21	23-Aug-21	04-Oct-21 A	27-Nov-21 A			FB-02 H-pile - F	P1/P2/P3									
FB-02 Pipe Cap & waterproofing - P1/P2/P3	42	30-Nov-21	20-Jan-22	14-Jan-22 A	21-Apr-22							<u></u>				02 Pipe Cap & waterproofing	g - P1/P2/P3	
Temporary Ramp Construction	48	10-Mar-21	10-May-21	28-Feb-22	28-Apr-22											Temporary Ramp Constru		
FB-02 Pier - P1/P2	36	21-Jan-22	07-Mar-22	22-Apr-22	06-Jun-22							<u></u>					📕 FB-02 Pi	ier - P1/F
Existing Footbridge Disable Ramp - Demolition	36	11-May-21	08-Jun-21	29-Apr-22	13-Jun-22												Exi	isting Fo
FB-02 Pre-drilling - LC&D	8	17-Jun-21	23-Jun-21	14-Jun-22	22-Jun-22	· · · · · · · · · · · · · · · · · · ·												FB-
FB-02 H-pile - LC&D	30	24-Aug-21	28-Sep-21	23-Jun-22	28-Jul-22													
Forecast	91			14-Jan-22 A	11-May-22													•
FB-02 Pipe Cap - P2	24			14-Jan-22 A	11-Mar-22							<u></u>		FB-02 Pipe C	ap - P2			
FB-02 Pipe Cap - P3	24			27-Jan-22 A	23-Mar-22									FB-	02 Pipe Cap - P3			
FB-02 Pier - P3	36			24-Mar-22	11-May-22											FB-02 Pier P3		
Road L10/ DPR	162	06-Aug-21	28-Mar-22	02-Oct-21 A	17-Jun-22								- <mark></mark>	v	Road L10/ DPR	+		·
FB-02 - Road L10 - H-pile Installation	48	06-Aug-21	02-Oct-21	02-Oct-21 A	20-Nov-21 A		FB-0	02 - Road L10 - H		i i i						+		
FB-02 Pipe Cap & waterproofing - P4/P5/A	42	30-Nov-21	20-Jan-22	21-Dec-21 A	08-Apr-22										FB-02 Pipe Ca	p & waterproofing P4/P5/A		
FB-02 Pile load test No.1 & 2	48	04-Oct-21	29-Nov-21	30-Dec-21 A	24-Jan-22 A			•			■ F₿-02	Pile load test No	1 & 2	<u> </u> <u> </u> 				
FB-02 Pier - P3/P4	36	21-Jan-22	07-Mar-22	09-Apr-22	26-May-22						<u>-</u>			<u>1</u> <u>1</u> 1 <u>1</u> 1 1 1		FB	-02 Pier - P3/P	4
FB-02 Pier - P5	18	08-Mar-22	28-Mar-22	27-May-22	17-Jun-22									<u>+</u> <u>+</u>				FB-02 F
Forecast	136			07-Dec-21 A	27-May-22							·						
FB-02 Pipe Cap - LA&B	24			07-Dec-21 A	04-Mar-22								FB-02	2 Pipe Cap - L	A&B			
FB-02 Pipe Cap - P5	24			13-Dec-21 A	08-Apr-22							 			FB-02 Pipe Ca	p - P5		
FB-02 Pipe Cap - P4	24			12-Mar-22	09-Apr-22									<u>+</u> <u>+</u>	FB-02 Pipe Ca			
FB-02 Pier - P5	36			09-Apr-22	26-May-22												-02 Pier - P5	
FB-02 Pier - P4	36			11-Apr-22	27-May-22											FE	3-02 Pier - P4	
Road L18	66	31-Dec-21	22-Mar-22	08-Jun-22	24-Aug-22				▼		<u>_</u>			Roa	d L 18			·
Degree 19 of 20															Date R	evision Checked	Appro	

Page 18 of 30 Data Date: 26-Feb-22 ione V Summary Ied Bar al Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
<u> </u> /						October November December January February March April May June 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26
Road L18 - Utilities Coordination & Installation	66	31-Dec-21	22-Mar-22	08-Jun-22	24-Aug-22	
[STE] Kai Hing Road / Lam Chak Street Modification	667	26-Mar-22	29-Jun-24	26-Mar-22	29-Jun-24	
TTA Phasing	0		26-Mar-22		26-Mar-22*	*
TMLG for XP validation	0		19-Apr-22	,	19-Apr-22	◆ TMLG for XP validation
XP validated	0		19-May-22	/	19-May-22	2 A XP validated
TMLG to TD for Approval	0		25-May-22		25-May-22	2 TMLG to TD for Approval
TMLG Approved	0	+	11-Jun-22	,,	11-Jun-22	♦ TMLG Appro
Roadworks advice from RMO for TTA Implementation	0		21-Jun-22	· ['	21-Jun-22	Roac
LCS/KHR - Public Road TTMS stages	600	22-Jun-22	29-Jun-24	22-Jun-22	29-Jun-24	╶┼┨╌╌┊╌╌┊╌╌┊╌╴┊╌╴┊╌╴┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	401	18-May-21	17-Oct-22	21-Sep-21 A	09-Mar-23	
Stage 1 (KT Fire Station Footpath/ CYS northbound)	15	16-Aug-21	11-Sep-21	30-Sep-21 A	30-Oct-21 A	A ire Station Footpath/ CYS northbound)
Stage 1C (CYS northbound Lane 3)	9	16-Aug-21	-		08-Oct-21 A	
Reinstatement of carriageway	9	16-Aug-21	25-Aug-21	30-Sep-21 A	08-Oct-21 A	A Reinstatement of carriageway
Stage 1D (CYS northbound Lane 4)	15	26-Aug-21	11-Sep-21	09-Oct-21 A	30-Oct-21 A	A Snorthbound Lane 4)
Installation of ducting for PL, ATC and E&M	3	26-Aug-21	28-Aug-21	09-Oct-21 A	12-Oct-21 A	A Installation of ducting for PL, ATC and E&M
Installation of gully and gully pipe	3	30-Aug-21	01-Sep-21	13-Oct-21 A	19-Oct-21 A	A Installation of gully and gully pipe
Reinstatement of carriageway	9	02-Sep-21	11-Sep-21	20-Oct-21 A	30-Oct-21 A	A Reinstatement of carriageway
Stage 2 (CYS central traffic island)	42	26-Aug-21	16-Oct-21	04-Oct-21 A	16-Nov-21 A	A V Stage 2 (CYS central traffic island)
Demolition of existing traffic island	6	26-Aug-21	01-Sep-21	04-Oct-21 A	09-Oct-21 A	A Demolition of existing traffic island
Connection gully and gully pipe	6	02-Sep-21	08-Sep-21	11-Oct-21 A	16-Oct-21 A	A Connection guily and guily pipe
Connection for PL, ATC and E&M	12	09-Sep-21	23-Sep-21	18-Oct-21 A	26-Oct-21 A	
Construction of new traffic island	18	24-Sep-21	16-Oct-21	27-Oct-21 A		
Stage 3 (Wang Chiu Road)	36	05-Aug-21		02-Oct-21 A		A Vang Chiu Road)
Stage 3 (Wang Chiu Koad) Stage 3D (WCR westbound new traffic island)	36	05-Aug-21 05-Aug-21	15-Sep-21 15-Sep-21	02-Oct-21 A		A rang Chiu Road) A WCR westbound new traffic island)
Demolition of existing pavement	6	05-Aug-21	11-Aug-21		12-Oct-21 A	
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21		20-Oct-21 A	
Construction of new traffic island	18	26-Aug-21	15-Sep-21		10-Nov-21 A	
Stage 5 (Gas Station & HBR)	101	18-May-21		21-Sep-21 A		
Stage 5A (Gas Station Footpath)	24	18-May-21		· ·	09-1011-22 05-Oct-21 A	
Reinstatement of footpath & carriageway	24	18-May-21		-		A 🗖 Reinstatement of footpath & carriageway
Stage 5C (HBR Left Turn Lane 1)	12	16-Sep-21			23-Oct-21 A	
Installation of ducting for PL, ATC and E&M	3	16-Sep-21	· ·		09-Oct-21 A	
Reinstatement of carriageway	9	20-Sep-21	30-Sep-21		23-Oct-21 A	
Stage 5D (HBR Left Turn Lane 2)	75	02-Oct-21	· · ·	11-Nov-21 A		
Installation of ducting for PL, ATC and E&M	3	02-Oct-21 02-Oct-21	05-Oct-21			
Reinstatement of carriageway		02-0ct-21 06-0ct-21	16-Oct-21	28-Feb-22	09-Mar-22	
			17-Oct-21			
Section 8D [STE] - Completion		I		· [09-Mar-22*	
Section 9F [STE] - Completion	0		17-Oct-21	1	09-Mar-22*	
Establishment	365		17-Oct-22	10-Mar-22	09-Mar-23	
HBR / CYS / WCR Junction Moditication - Establishment works	365		17-Oct-22	10-Mar-22	09-Mar-23	
[STE] Road L10 (Northern)	401	12-Oct-21	04-Jan-23	02-Jul-21 A	04-Nov-22	
	401	12-Oct-21	04-Jan-23	02-Jul-21 A	04-Nov-22	
CUE L10(N) Excavation part 1	36	12-Oct-21	23-Nov-21	02-Jul-21 A	20-Oct-21 A	A CUE L10(N) Excavation part
Page 19 of 30 ◆ ◆ Milestone Data Date: 26-Feb-22 Citical Activity Citical Activity ◆ ◆ Actual Milestone Actual Work ◆ ◆ Baseline Milestone Baseline Bar Baseline Bar	Sr	Summary		fc	or Dev	nk Road T2 and Infrastructure Works velopments at South Apron ths Rolling Programme (Feb-22)
		I.	1		/ WUUTU	(ITS ROIIING Programme (Feb-22) 02-Jul-21 02V0 SPa/LLo WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	Ortohor	2021				huna
						October 03 10 17 24	November December 31 07 14 21 28 05 12 19 26	January 6 02 09 16 23	February March 30 06 13 20 27 06 13 20 27	April May	June 0 05 12 19 26
CUE L10(N) ELS (Sheet pile) part 2	45	07-Apr-22	04-Jun-22	25-Aug-21 A	31-Mar-22						CUE L10(N) ELS (
CUE L10(N) Structure part 1	108	24-Nov-21	06-Apr-22	01-Dec-21 A	02-Jul-22						
CUE L10(N) Pump Test part 2	32	06-Jun-22	13-Jul-22	01-Apr-22	14-May-22						
CUE L10(N) Excavation part 2	36	14-Jul-22	24-Aug-22	16-May-22	27-Jun-22						
CUE L10(N) Structure part 2	108	25-Aug-22	04-Jan-23	28-Jun-22	04-Nov-22						
Part 1	263			02-Jul-21 A	23-May-22						
CUE L10(N) Part 1 Excavation	128			02-Jul-21 A	07-Oct-21 A	CUE L10(N) Par	t1 Excavation				
CUE L10(N) Part 1 DL, Blinding, Waterproofing, BS (80m)	21			24-Dec-21 A	08-Mar-22					1 DL, Blinding, Waterproofing, BS (80m)	
CUE L10(N) Part 1 Backfill & Strut S3 Removal	7			09-Mar-22	17-Mar-22					(N) Part 1 Backfill & Strut S3 Removal	
CUE L10(N) Part 1 Wall & Top Slab (80m, 10d/20m)	32			17-Mar-22	28-Apr-22					CUE L10(N) Part 1 Wall &	Top Slab (80m, 10d/20
CUE L10(N) Part 1 Backfill & Remove S2 (80m, 10d/20m)	32			28-Mar-22	11-May-22	++++++				CUE L10(N) Pa	rt 1 Backfill & Remove
CUE L10(N) Part 1 Backfill & Remove S1 (80m, 10d/20m)	32			09-Apr-22	23-May-22		**************************************			CψE	10(N) Part 1 Backfill &
Part 2	274			25-Aug-21 A	30-Jul-22	+					
CUE L10(N) Part 2 ELS (Sheet pile) (2645m2, 55m2/d)	48			25-Aug-21 A	23-Nov-21 A	······································	CUE L10(N) Part 2 ELS (Sh	neet pile) (2645m2,55m2/d)			
CUE L10(N) Part 2 Excavation (6262m3, 110m3/d)	57			10-Jan-22 A	23-Apr-22					CUE L 10(N) Part 2 Excavation	(6262m3, 110m3/d)
CUE L10(N) Part 2 DL, Blinding, Waterproofing, BS (80m)	21			25-Apr-22	20-May-22						0(N) Part 2 DL, Blindinc
CUE L10(N) Part 2 Backfill & Strut S3 Removal	7			20-May-22	28-May-22						UE L10(N) Part 2 Back
CUE L10(N) Part 2 Wall & Top Slab (80m, 10d/20m)	32			30-May-22	07-Jul-22						
CUE L10(N) Part 2 Backfill & Remove S2 (80m, 10d/20m)	32			10-Jun-22	19-Jul-22						
CUE L10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)	32			22-Jun-22	30-Jul-22		<u></u>				
Part 3	40			23-May-22	11-Jul-22		*****				
CUE L10(N) Part 3 ELS (Sheet pile) (2252m2, 55m2/d)	40			23-May-22	11-Jul-22		**************************************				
DEPRESSED ROAD [DPR]	253	21-Apr-21	01-Nov-21	23-Aug-21 A	15-Jul-22		V DEPRESSED ROAD [DPR]				
Permanent Structure	109	21-Apr-21	01-Nov-21	23-Aug-21 A	08-Dec-21 A		♥ Permanient Structure				
Shallow Section	32	21-Apr-21	24-May-21	27-Sep-21 A							
Part 2 (Ch5997 - 6008) Retaining Wall	32 18	21-Apr-21 21-Apr-21	24-May-21 12-May-21	27-Sep-21 A		Retaining Wall					
Waterproofing	9		-	11-Oct-21 A		iii	Waterproofing				
		13-May-21	24-May-21								
Zone 1 (Ch6008 - 6045) SP Removal	76 6	06-May-21 06-May-21	07-Aug-21 12-May-21	27-Sep-21 A 27-Sep-21 A		iiii					
Blinding & Waterproofing	6	13-May-21	20-May-21		13-Oct-21 A		Waterproofing				
Road Slab	12	01-Jun-21	15-Jun-21		18-Oct-21 A						
Drainage, Watermain & UU	9	02-Jun-21	12-Jun-21		18-Oct-21 A		ge, Watermain & UU				
	9						terproofing and Backfilling				
Waterproofing and Backfilling		16-Jun-21	25-Jun-21	19-Oct-21 A			Strut Si1 removal				
Strut S1 removal	6	26-Jun-21	03-Jul-21		26-Oct-21 A						
Retaining Wall	21	05-Jul-21	28-Jul-21	26-Oct-21 A			Retaining Wall				
Waterproofing and Backfilling	9	29-Jul-21	07-Aug-21	29-Nov-21 A			Waterproofing a	ang Backiilling			
Zone 2 (Ch6045 - 6080)	82	21-May-21 21-May-21	07-Jul-21	23-Aug-21 A		South Apron Ad	it W/all				
South Apron Adit Wall	21		15-Jun-21				i i i i i i i i i i i i i i i i				
Road Slab	12	16-Jun-21	29-Jun-21	08-Oct-21 A			Road Slab				
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	09-Oct-21 A	25-Oct-21 A		rainage, Watermain & UU				

Page 20 of 30 Data Date: 26-Feb-22 Milestone
 V
 Summary
 Planned Bar

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021								2022		i		1	
						-	October 0 17 24 31	Novemb 07 14	er 21 28 0	December 5 12 19	26 02	January 09 16 23	February 30 06 13 20	27 06	March 13 20	27 03	April 10 17	24 01	May 08 15	22 29 0	June 5 12 19 26
Strut S1 removal	6	30-Jun-21	07-Jul-21	02-Nov-21 A	05-Nov-21 A			Strut S1 i	emoval												
Zone 3 (Ch6080 - 6121)	62	09-Jun-21	02-Aug-21	20-Sep-21 A	24-Nov-21 A	++					+				+ + + + + + + + 	• + - +	+				
South Apron Adit Wall	21	09-Jun-21	05-Jul-21	20-Sep-21 A	20-Oct-21 A		1 1 1 1 1 1	on Adit Wall													
Road Slab	12	06-Jul-21	19-Jul-21	21-Oct-21 A	17-Nov-21 A	÷÷			Road Slab							· † - †					
Drainage, Watermain & UU	10	07-Jul-21	17-Jul-21	21-Oct-21 A	16-Nov-21 A	÷			Drainage, Wate	main & UU						· ÷ - ÷					
Strut S2 & S1 removal	12	20-Jul-21	02-Aug-21	20-Nov-21 A	24-Nov-21 A	+			🗖 Strut \$2 a	s1 remova						· ; - ;	· ;				
Zone 4 (Ch6121 - 6150)	86	13-May-21	01-Nov-21	27-Sep-21 A	29-Nov-21 A	++		Zone 4 (Ch6	121 - 6150)						+ +	· ; - ;	÷;				
Blinding & Waterproofing	6	13-May-21	20-May-21	27-Sep-21 A	02-Oct-21 A	1 1	ng & Waterproofing														
Base Slab part 1	12	21-May-21	03-Jun-21	04-Oct-21 A	12-Oct-21 A		Base Slab part 1								T T						
BS P2	9	25-Jun-21	06-Jul-21	13-Oct-21 A	19-Oct-21 A		BS P2														
Remove S4	3	07-Jul-21	09-Jul-21	20-Oct-21 A	22-Oct-21 A		Remove	S4													
BS P3	6	10-Jul-21	16-Jul-21	22-Oct-21 A	25-Oct-21 A		🗖 BSP3	8													
BS P4	9	17-Jul-21	27-Jul-21	26-Oct-21 A	28-Oct-21 A	+	BS	P4								· • • • • • • • • • • • • • • • • • • •					
Remove S3	9	28-Jul-21	06-Aug-21	29-Oct-21 A	30-Oct-21 A	++	R	emove \$3							++ 	· †	·+				
South Apron Adit Wall / Sump Pit	21	07-Aug-21	31-Aug-21	01-Nov-21 A	10-Nov-21 A			Sout	n Apron Adit Wa	ll / Sump Pit						· ; - ;	+				
Road Slab	12	01-Sep-21	14-Sep-21	11-Nov-21 A	17-Nov-21 A	+++ + + + + + + + + + + + + + + + +			Road Slab						<u> </u> 	• + - +	· + -				
Drainage, Watermain & UU	6	21-Oct-21	01-Nov-21	11-Nov-21 A	16-Nov-21 A	+ + +			Drainage, Wate	main & UU					1 1 1 1 1 1 1	· +	· +				
Strut S2 & S1 removal	18	15-Sep-21	07-Oct-21	20-Nov-21 A	24-Nov-21 A	++			Strut \$2	s S1 remova					+ + + 	• + +	+				
Stage 2B Completion - AGR, DPR, SAS, C&C & LS for TBM Access	0		20-Oct-21		29-Nov-21 A	++	♦		🔷 Stage	2B Comple	ion - AGR, DF	R, SAS, C&C & I	S for TBM Access		++	· †	+				
Portal Structure	181			11-Dec-21 A	15-Jul-22	++-+										• • • • • • • • • • • • • • • • • • • •	+				
Forecast	181			11-Dec-21 A	15-Jul-22	++									++ 	· ; - ;	· †				
Remaining DPR Structure	168			11-Dec-21 A												·	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
MS for breaking or remaining bulkhead dwall	0				11-Dec-21 A	i i i i i i i i				- I - I	1 T 1	naining bulkhead	dwa⊎			· -					
Breaking remaining SUS Bulkhead Dwall	60			13-Dec-21 A		¦							· · · · · · · · · · · · · · · · · · ·			aining \$US	1 1				
MS for RC Structure construction	0				31-Dec-21 A						MS fo	RC Structure co	nstruction		1	1 1	1 1				
Blinding & Waterproofing	4			07-Mar-22	10-Mar-22				· · · · · · · · · · · · · · · · · · ·							Waterproo	1.7				
Base Slab construction + Gain strength	7			11-Mar-22	18-Mar-22										Bas	e Slab; con:	struction + (Gain strength			
Strut S4b removal	7			19-Mar-22	26-Mar-22											Strut S4	b removal				
Return Wall & External part 1 + Gain strength	12			28-Mar-22	11-Apr-22										7 7 1 1 1 1 1 1 1 1 1 1		Returr	Wall & Exte	nal part 1	+ Gain strength	
Strut S3b removal	5			12-Apr-22	20-Apr-22										T T			Strut \$3b re	moval		
Remaining adit wall part 1 + Gain strength	14			21-Apr-22	07-May-22	÷									÷	· † - †			Remain	ing adit wall part	1 + Gain strength
Concrete strut & lateral beam + Gain strength	9			10-May-22	19-May-22											· ÷ - ÷				Concrete strut	& lateral beam +
Strut S3 removal	3			20-May-22	23-May-22															🛑 StrutS3re	moval
Return Wall & External part 2 + Gain strength	11			24-May-22	06-Jun-22	÷+					·····				+ + + + + + + + + + + + + + + + + + +	· ; - ;	· ;				Return Wall & Ex
Remaining adit wall part 2 + Gain strength	10			07-Jun-22	17-Jun-22	++									+ + + 	· ; ;	· † 				Remaini
Remaining carriageway slab + Gain strength	10			18-Jun-22	29-Jun-22	+ 									 	· • - • •	· • • • • • • • • • • • • • • • • • • •				
Portal Structure	132			03-Jan-22 A	15-Jul-22	+++ + + + + + + + + + + + + + + +									<u> </u> 	· + - +	. +				
Falsework erection	15			03-Jan-22 A	05-Mar-22									Fal	sework ere	ction					
Capping Beam + Portal Beam part 1 (B4-B5)	18			07-Mar-22	26-Mar-22											Capping	Beam + Po	ortal Beam pa			
Capping Beam + Portal Beam part 2 (B6-B7)	18			28-Mar-22	21-Apr-22												· · · · · · · · · · · · · · · · · · ·	Capping Be	am + Por	tal Beam part 2	B6-B7)
Alternative Access available	0				08-Apr-22	++ 									 		Alternativ	ve Access av	ailable		
IIIII		1				· I		1 1		1 1				<u></u>	. 1	· / ·		Devi-i		Chookeel	
Page 21 of 30		Summary		040/0	1 T			م الم			- \^/-	where				18-De	Date c-19	Revision 00V1	n W	Checked /u	Approved
Data Date: 26-Feb-22				2018/04	4 Irun		bad T2	and I	ntrast	uctu		rks /	DAUN	GUES	~	22-Fe	b-20	01V0	SF	a/LLo	NYu
Actual Milestone				£.													~~	041/4			AD

Actual Milestone Actual Work

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🔶 Baseline Milestone Baseline Bar

for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20 02-Jul-21

01V1

01V2

01V3

02V0

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021								2022					
			1′			October 03 10 17 24		November 17 14 21 1	Decem 28 05 12		Januar 02 09 1	y 6 23 30	February	20 27	March 06 13	20 27	A 03 10	pril 17 24	May 01 08 15	22 29 0	June)5 12 19 26
Removal of existing walkway	6			09-Apr-22	19-Apr-22													1 1	I of existing wal	1 1 1	
DCS Works	36			20-Apr-22	02-Jun-22	+++										· i - 					CS Works
Capping Beam + Portal Beam part 3 (B8-B10)	24		1	22-Apr-22	21-May-22	+ + +	+++									· 			·	Capping Be	am + Portal Beam
Capping Beam + Portal Beam part (B11-12)	18		/	23-May-22	13-Jun-22	+++	+++								1 1 - 1 1 1 1 1 1 1 1	·			·		Capping Be
Portal secondary structure - Wall part 1 (B4-B10)	9			23-May-22	01-Jun-22	+										+++			·	Por	rtal secondary stru
Portal secondary structure - Slab part 1 (B4-B10)	15	+		02-Jun-22	20-Jun-22	+															Porta
Portion J1 / J2 Contract Handover date	0	+			03-Jun-22*	+++										· + + + + +				• P	Portion J1 / J2 Con
Portal secondary structure - Wall part 2 (B11-B12)	12			14-Jun-22	27-Jun-22	+++															
Steel Portal Beam installation (B1-B3)	12			21-Jun-22	05-Jul-22	+++	+++									·			·		
Portal secondary structure - Slab part 2 (B11-B12)	15			28-Jun-22	15-Jul-22	+++										·					
WEST VENTILATION BUILDING [WVB]	227	28-Jun-21	26-Feb-22	20-Sep-21 A	13-Jul-22		<u></u>			<u> -</u> 				WES	VENTILA	TIONBUIL	DING [W\	VB]			
ELS system & Foundation	18	28-Jun-21	19-Jul-21	06-Oct-21 A	20-Oct-21 A										++-	+					
King Post	18	28-Jun-21	19-Jul-21	06-Oct-21 A	20-Oct-21 A										++-	+					
Steel Platform Location	18	28-Jun-21	19-Jul-21	06-Oct-21 A	20-Oct-21 A																
Steel Deck Erection	18	28-Jun-21	19-Jul-21	06-Oct-21 A	20-Oct-21 A	Steel	I Deck Erec	ction							++-						
Excavation & Strutting	158	21-Jul-21	11-Dec-21	20-Sep-21 A	A 19-Apr-22				Exc	avatio'n & S	trutting				+-	++					
Excavation to below Strut S1 10,010m ³	17	21-Jul-21	09-Aug-21	20-Sep-21 A	A 12-Nov-21 A			Excavation t	to below Strut S	1 10,010m ³											
Strut S1 Installation	20	26-Jul-21	17-Aug-21	30-Sep-21 A	A 16-Nov-21 A			Strut S1	Installation												
Strut S1 Pre-loading	2	18-Aug-21	19-Aug-21	17-Nov-21 A	A 18-Nov-21 A			Strut S	1 Pre-loading												
Excavation to below Strut S2 11,076m ³	18	20-Aug-21	09-Sep-21	19-Nov-21 A	07-Dec-21 A		******		Excav:	ation to belo	w Strut S2 11,	,07′6m³									
Strut S2 Installation	20	26-Aug-21	17-Sep-21	29-Nov-21 A	A 16-Dec-21 A					Strut S2 Ins	tallation										
Strut S2 Pre-loading	2	18-Sep-21	20-Sep-21	17-Dec-21 A	18-Dec-21 A					Strut S2 F	re-loading										
Excavation to below Strut S3 11,905m ³	20	21-Sep-21	16-Oct-21	20-Dec-21 A	12-Jan-22 A		*****				Exc	avation to be	low Strut S31	1,905m³							
Strut S3 Installation	24	28-Sep-21	22-Oct-21	03-Jan-22 A	19-Jan-22 A		******					Strut \$31	nstallation								
Strut S3 Pre-loading	2	23-Oct-21	25-Oct-21	20-Jan-22 A	21-Jan-22 A							Strut \$3	Pre-loading								
Excavation to below Strut S4 8,930m ³	15	26-Oct-21	11-Nov-21	22-Jan-22 A	18-Feb-22 A		+	-						Excavation			30m³				
Strut S4 Installation	20	30-Oct-21	22-Nov-21	10-Feb-22 A	19-Mar-22	f f										Strut S4 li	nstallation				
Strut S4 Pre-loading	2	23-Nov-21	24-Nov-21	21-Mar-22	22-Mar-22		******	•								Strut S					
Excavation to FEL 9,230m ³	20	25-Nov-21	11-Dec-21	23-Mar-22	19-Apr-22											· + + + + 			ion to FEL 9,23)m ³	
Building Structure	69	13-Dec-21	26-Feb-22	20-Apr-22	13-Jul-22				-						ng Ştructψr	e					
WVB - Earth Mat Installation	24	13-Dec-21	31-Dec-21	20-Apr-22	19-May-22	•••••••			-										·	WVB - Earth M	Mat Installation
WVB - Base Slab	45	03-Jan-22	26-Feb-22	20-May-22	13-Jul-22				-										••••	· · · · · ·	
Forecast	64			20-Apr-22	07-Jul-22				-												
WVB - Earth Mat Installation	24		,	20-Apr-22	19-May-22															WVB - Earth M	Mat Installation
Base Slab Construction pour 1 + Strength gain (TC Location)	20			20-May-22	13-Jun-22															·····	Base Slab
Tower Crane Erection	7		,	14-Jun-22	21-Jun-22		*****														Tow (
Base Slab remaining construction	20		1	14-Jun-22	07-Jul-22											· + + - + · + + · - + - + - + - + - + - + - +					
Tower Crane Operation	0		1	1	21-Jun-22		*********									+					◆ Tow (
SUPPORTING UNDERGROUND STRUCTURE [SUS	30	20-Oct-21	07-Dec-21	02-Jun-22	08-Jul-22	· · · · · · · · · · · · · · · · · · ·			SUPP(ORTING UN	DERGROUND	STRUCTU	re [SU\$]								
Permanent Structure	30	20-Oct-21	07-Dec-21	02-Jun-22	08-Jul-22	▼				nent Structu	re					· <u>1</u> - <u>1</u> 1 1 1 1					
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	02-Jun-22*	30-Jun-22																
						A L			<u> </u>				<u> </u>	. . .				· · · ·			

Page 22 of 30 Data Date: 26-Feb-22 Milestone
 Milestone
 Planned Bar
 Critical A divity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021					2022			
						03	October November 10 17 24 31 07 14 21	Decemb 28 05 12	er January 19 26 02 09 16 2	February 3 30 06 13 2	March 0 27 06 13 20	April	4 01 08 15 22	June 29 05 12	
SUS - EB Partition Wall CH6150-6260	30	03-Nov-21	07-Dec-21	02-Jun-22*	08-Jul-22										
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	200	15-Jul-21	10-Mar-22	13-Sep-21 A	09-Jun-22	;					▼ C&C TUN	NEL / LAUNCHING SHAF	F [C&C / LS]		;;
Civil Works for TBM Assembly	125	15-Jul-21	15-Oct-21	13-Sep-21 A	23-Feb-22 A		Civil Works for TBM Assembly								
Cut & Cover	69	08-Sep-21	15-Oct-21	20-Sep-21 A		++	Cut & Cover								
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21	20-Sep-21 A	12-Oct-21 A	-	C&C S5 & S6 Strut Removal								
WB SUS BH removal (145m ² / 8.4m ² /shift x 2 shift)	9	23-Sep-21	04-Oct-21	13-Oct-21 A	21-Oct-21 A	—	WB SUS BH removal (145m ²	/8.4m²/shift x2s	hift)						
EB SUS BH removal (145m ² / 8.4m ² /shift x 2 shift)	9	05-Oct-21	15-Oct-21	22-Oct-21 A	26-Oct-21 A		EB SUS BH removal (145	m²/8.4m²/shift x	2 shift)						
Cell 1 & 2	125	15-Jul-21	09-Sep-21	13-Sep-21 A	23-Feb-22 A										
Base Slab	66	15-Jul-21	09-Sep-21	13-Sep-21 A						· · · · · · · · · · · · · · · · · · ·					
Base Slab Pour 2 [883m ³)	16	15-Jul-21	26-Jul-21	13-Sep-21 A	07-Oct-21 A	:	Base Slab Pour 2 [883m3)								
Base Slab Pour 3 & 4 [910m ³)	17	27-Jul-21	04-Aug-21	27-Sep-21 A	16-Oct-21 A	1	Base Slab Pour 3 & 4 [910m ³)								
Temp. & Perm. Side Wall part 1	12	14-Aug-21	24-Aug-21	13-Oct-21 A	23-Oct-21 A		Temp. & Perm. Side Wall pa	urt 1							
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21	25-Oct-21 A	13-Nov-21 A		Temp. & P	erm. Side Wall pa	nt 2						
Tympanum	125	26-Jul-21	21-Aug-21	02-Oct-21 A	23-Feb-22 A	[:									
Tympanum Pour 4 + Seal Rings	12	26-Jul-21	05-Aug-21	02-Oct-21 A	30-Oct-21 A	:	Tympanum Pour 4 + 5								
Tympanum Pour 5 Seal Rings	10	06-Aug-21	21-Aug-21	01-Nov-21 A	05-Nov-21 A		Tympanurh Pour	5 Seal Rings							
Falseworks removal	15			08-Nov-21 A	20-Nov-21 A		Fals	eworks removal							
Westbound Additional Mass Fill	15			05-Feb-22 A	12-Feb-22 A					Westb	ound Additional Mass Fill				
Eastbound Additional Mass Fill	7			14-Feb-22 A	23-Feb-22 A						Eastbound Additional I	Mass Fill			
Tunnel Permanent Works	49	03-Jan-22	10-Mar-22	07-Apr-22	09-Jun-22							rmanent Works			1
Cell 1/2 Westbound	29	03-Jan-22	08-Feb-22	07-Apr-22	16-May-22					Cell 1/2 V	/estbound				
WB Thrust Frame Dismantling	12	03-Jan-22	15-Jan-22	07-Apr-22	23-Apr-22								VB Thrust Frame Dismant		
WB False Tunnel Dismantling	6	16-Jan-22	21-Jan-22	24-Apr-22	29-Apr-22								WB False Tunnel Dist		
WB Ramp Concrete Fill	12	22-Jan-22	08-Feb-22	30-Apr-22	16-May-22								WB Rar	np Concrete Fill	
Cell 1/2 Eastbound	30	04-Feb-22	10-Mar-22	04-May-22	09-Jun-22						Cell 1/2 E	astbound			
EB Thrust Frame Dismantling	12	04-Feb-22	17-Feb-22	04-May-22	18-May-22							*****		rust Frame Dism	- -
EB False Tunnel Dismantling	6	18-Feb-22	24-Feb-22	19-May-22	25-May-22						•			EB Failse Tunnel	
EB Ramp Concrete Fill	12	25-Feb-22	10-Mar-22	26-May-22	09-Jun-22	¦								EB R	amp Con
Cut & Cover	24	04-Feb-22	03-Mar-22	20-Apr-22	19-May-22					▼	Cut & Cover				
C&C - Wall Stage 1 first 5m	9	04-Feb-22	14-Feb-22	20-Apr-22	29-Apr-22								C&C - Wall Stage 1 fir		
C&C - Wall Stage 2 up to OHVD level	9	15-Feb-22	24-Feb-22	30-Apr-22	12-May-22						•			Stage 2 up to OF	
C&C - Wall Stage 3 up to Top Slab soffit	6	25-Feb-22	03-Mar-22	13-May-22	19-May-22								C&C	- Wall Stage 3 up	to Top S
SUB-SEA TBM TUNNEL - WESTBOUND	262	30-Nov-20	28-Apr-22	20-May-21 A	26-Jul-22								▼ SUB-SEA TBM TUNN	EL - WESTBOUN	D
Precast Fabrication	220	29-Jun-21	28-Apr-22	02-Aug-21 A	26-Jul-22								Precast Fabrication		
TBM Precast Segments	208	29-Jun-21	18-Mar-22	02-Aug-21 A	12-Jul-22						·····································	/Precast Segments			
Precast TBM Segment - 50%	36	29-Jun-21	10-Aug-21	02-Aug-21 A		i.	ecast TBM Segment - 50%					·			
Precast TBM Segment - 60%	36	11-Aug-21	21-Sep-21	04-Oct-21 A				Precast TBM Se	gment - 60%						
Precast TBM Segment - 70%	36	23-Sep-21	05-Nov-21	29-Nov-21 A			·····				Precast TBM Segme				
Precast TBM Segment - 80%	36	06-Nov-21	17-Dec-21	28-Feb-22	11-Apr-22							Precast TI	BM Segment - β0%		
Precast TBM Segment - 90%	36	18-Dec-21	04-Feb-22	12-Apr-22	28-May-22							· · · · · · · · · · · · · · · · · · ·		Precast TBM S	egment -
Precast TBM Segment - 100%	36	05-Feb-22	18-Mar-22	30-May-22	12-Jul-22										
Service Gallery	200	28-Jul-21	04-Feb-22	20-Sep-21 A	16-Jul-22					▼ Service Galle	ry				

Page 23 of 30 Data Date: 26-Feb-22

Summary Planned Bar

ctual Milestone Actual Work 🔶 Baseline Milestone

CriticalActivity

Baseline Bar

Milestone

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



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

Image: brance	June 22 29 05 12 19 26
Precast Service Gallery - Mass Production Start 0 08-Sep-21 27-Dec-21 A	
Precast Service Gallery - 3% 24 08-Sep-21 07-Oct-21 28-Dec-21 A 17-Mar-22	
Precast Service Gallery - 6% 24 08-Oct-21 05-Nov-21 18-Mar-22 19-Apr-22 Precast Service Gallery	- 6%
Precast Service Gallery - 10% 24 06-Nov-21 03-Dec-21 20-Apr-22 19-May-22	Precast Service Gallery - 10%
Precast Service Gallery - 20% 24 04-Dec-21 04-Jan-22 20-May-22 17-Jun-22	Precast
Precast Service Gallery - 30% 24 05-Jan-22 18-Jun-22 16-Jul-22	
OHVD Slab 120 15-Nov-21 28-Apr-22 01-Feb-22 A 26-Jul-22 ✓ OHVD Slab	
Concrete Mix - Plant Trial 72 15-Nov-21 12-Feb-22 01-Feb-22 A 14-May-22 Co	rcrete Mix - Plant Trial
Precast OHVD Slab - Mould Fabrication & Setup 72 15-Nov-21 12-Feb-22 01-Feb-22 A 14-May-22	cast OHVD Slab - Mould Fabrica
Precast OHVD Slab - Inspection 12 14-Feb-22 26-Feb-22 16-May-22 28-May-22 16-May-22 16-May-23 16-May-23 </th <th>Precast OHVD Slab - Ins</th>	Precast OHVD Slab - Ins
Precast OHVD Slab - Mass Production Start 0 28-Feb-22 30-May-22 0	♦ Precast OHVD Slab - N
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Precast OHVD Slab - 6% 24 28-Mar-22 28-Apr-22 28-Jun-22 26-Jul-22	
Site Establishment 253 30-Nov-20 25-Apr-22 20-May-21 A 15-Jul-22	
Precast Elements Storage Yard 94 30-Nov-20 20-Jan-21 02-Aug-21 A 13-Nov-21 A	
Precast Storage - Delivery & Assembly 36 30-Nov-20 13-Jan-21 02-Aug-21 A 06-Nov-21 A Precast Storage - Delivery & Assembly	
Precast Storage - Commissioning & Load Test 6 14-Jan-21 20-Jan-21 08-Nov-21 A 13-Nov-21 A	
Gantry Crane Setup for TBM Assembly 48 24-Feb-22 25-Apr-22 19-May-22 15-Jul-22	o for T;BM Assembly
Gantry Crane - Dismantling 48 24-Feb-22 25-Apr-22 19-May-22 15-Jul-22	······
Slurry Treatment Plant 99 20-May-21 10-Sep-21 20-May-21 A 30-Nov-21 A nt Plant	
Slurry Treatment Plant - Installation 48 20-May-21 16-Jul-21 20-May-21 A 25-Oct-21 A Shurry Treatment Plant - Installation	
Slurry Treatment Plant - Commissioning 24 17-Jul-21 13-Aug-21 11-Oct-21 A 30-Nov-21 A Slurry Treatment Plant Commissioning	
Slurry Treatment Plant - CNP Application 24 14-Aug-21 10-Sep-21 15-Nov-21 A 30-Nov-21 A	
Mortar Plant 24 05-May-21 02-Jun-21 27-Sep-21 A 12-Jan-22 A	
Mortar Plant - Commissioning 24 05-May-21 02-Jun-21 27-Sep-21 A 12-Jan-22 A	
DG Store / Medical Lock 74 02-Aug-21 27-Oct-21 07-Sep-21 A 23-Dec-21 A	
DG Store / Medical Lock Installation 48 02-Aug-21 27-Sep-21 07-Sep-21 A 23-Dec-21 A DG Store / Medical Lock Installation	
DG Store / Medical Lock - FSD Approval 24 28-Sep-21 27-Oct-21 15-Nov-21 A 29-Nov-21 A DG Store / Medical Lock - FSD Approval	
TBMAssembly 107 01-Dec-21 01-Dec-21 12-Sep-21 A 13-Jan-22 A	
Shield Bolts torquing & Interior Shiled Joint Welding 8 12-Sep-21 A 01-Oct-21 A Shield Bolts torquing & Interior Shiled Joint Welding	
Cutterhead Installation 1 02-Oct-21 A 02-Oct-21 A I Cutterhead Installation	
Cutterhead Connection to Shield 12 04-Oct-21 A 12-Oct-21 A 12-Oct-21 A	
Shield Shifting 2 14-Oct-21 A 14-Oct-21 A I Shield Shifting	
1st Shifting of TBM 2 14-Oct-21 A 14-Oct-21 A 1 1st Shifting of TBM	
Erector Preparation & Installation 2 15-Oct-21 A 17-Oct-21 A	
Final Shield Joint Welding 5 19-Oct-21 A 21-Oct-21 A Image: Control of the state of the stat	
Installation Welding Plate on Top S1 2 22-Oct-21 A 22-Oct-21 A I Installation Welding Plate on Top S1	
Lifting & Welding of Tailskin to Shield 26 22-Oct-21 A 17-Nov-21 A Lifting & Welding of Tailskin to Shield	
Gantry Rail Wall Installation 9 01-Nov-21 A T-Nov-21 A	
Gantry 4 Assembly 3 18-Nov-21 A 19-Nov-21 A	

Page 24 of 30
Data Date: 26-Feb-22

Milestone
 Milestone
 Summary
 Planned Bar

CriticalActivity

Baseline Bar

Actual Milestone
 Actual Work
 Baseline Milestone

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

BOUYGUES TRAVAUX PUBLICS



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09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

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						Octob 03 10	er 17 24	4 31	Novemb		Decemt 28 05 12		26 (Ja)2 09	inuary 16	23	30	Februa 06 13	<u> </u>	27 06
Gantry 3 Assembly	3			20-Nov-21 A	21-Nov-21 A					Gant	y3Assembly									
Gantry 2 Assembly	3			22-Nov-21 A	23-Nov-21 A					🛿 Gar	try 2 Assembly									
Gantry 1 Assembly	3			26-Nov-21 A	27-Nov-21 A						antry 1 Assem	bly								
Segment Feeding Installation	1			28-Nov-21 A	28-Nov-21 A	+++-				1	Segment Feed	ling Ins	tallatio	ויי				·		
Air / Water / Hydraulic Electrical Connections	10			29-Nov-21 A	01-Jan-22 A	++-++++++++++				·			 _ /	Air / Wat	ter / Hy	ydraulic	Electri	ical Con	nections	·
Power On	1			08-Dec-21 A	08-Dec-21 A	$\frac{1}{1} \frac{1}{1} \frac{1}{1} - $					Power	On						· 		
Testing & Commissioning	12			09-Dec-21 A	13-Jan-22 A	++-+++									Testi	ing & C	ommiss	sioning		
Thrust Frame Installation	10			13-Dec-21 A	18-Dec-21 A	++-++-						Thrus	st Fram	ie Install	lation			·		·
WB TBM Break-in	0	01-Dec-21		13-Jan-22 A		$\frac{1}{1} \frac{1}{1} \frac{1}{1} - $					>			•	WB	TBM Br	reak-in	·		·
TBM Tunnelling	124	01-Dec-21	19-Apr-22	13-Jan-22 A	06-Jul-22	<u></u>					/									
WB TBM Tunnelling CH6642-6659 B/I Plug 17m	15			13-Jan-22 A	19-Jan-22 A											WB TE	BM Tun	nelling (CH 6642-0	6659 B/I P
WB TBM Tunnelling Stoppage due to Active Mortar injection	15			20-Jan-22 A	27-Jan-22 A												WB TB	M Tunn	elling Sto	oppage du
WB TBM Tunnelling CH 6659-6660 B/I Plug 18m	15			28-Jan-22 A	28-Jan-22 A	+++-										I	WB TI	BM Tunr	nelling Cl	H6659-666
WB TBM Tunnelling Stoppage due to Additional Mass Fill	15			29-Jan-22 A	12-Feb-22 A	+++-												— W	B TBM T	Tunnelling
WB TBM Tunnelling Stoppage due to Covid-19 outbreak	15			13-Feb-22 A	28-Feb-22													·¦ 		WB TB
WB TBM Tunnelling CH6660-6665 B/I Plug 23m	3	01-Dec-21	15-Dec-21	01-Mar-22	03-Mar-22	$\frac{1}{1} \frac{1}{1} \frac{1}{1} - $												·		WB
WB TBM forecsat re-start excavation	0			01-Mar-22		+++-														♦ WB TE
WB TBM Tunnelling CH6665-6710 ALL/CDG 68m	16	16-Dec-21	31-Dec-21	04-Mar-22	19-Mar-22	++-++++++++++														
WB TBM Tunnelling CH6710-6756 ALL/CDG 114m	7	01-Jan-22	07-Jan-22	20-Mar-22	26-Mar-22	$\frac{1}{1} \frac{1}{1} \frac{1}{1} - $								 				·		
WB TBM Tunnelling CH6756-6789 CDG/Boulder 147m	7	08-Jan-22	14-Jan-22	27-Mar-22	02-Apr-22									¦	 •			·		
WB TBM Tunnelling CH6789-7098 ALL/CDG 456m	38	15-Jan-22	21-Feb-22	03-Apr-22	10-May-22	<u>+</u> + + +											+ + -			
WB TBM Tunnelling CH 7098-7198 ALL/CDG 556m	11	22-Feb-22	04-Mar-22	11-May-22	21-May-22															
WB TBM Tunnelling CH 7198-7218 ALL/CDG 576m	2	05-Mar-22	06-Mar-22	22-May-22	23-May-22													·		
WB TBM Tunnelling CH 7218-7240 C DG/Boulder 598m	3	07-Mar-22	09-Mar-22	24-May-22	26-May-22	+ + + - + + - 												·		
WB TBM Tunnelling CH 7240-7284 ALL/CDG 642m	4	10-Mar-22	13-Mar-22	27-May-22	30-May-22													·		
WB TBM Tunnelling CH 7284-7379 ALL/CDG 737m	9	14-Mar-22	22-Mar-22	31-May-22	08-Jun-22															
WB TBM Tunnelling CH 7379-7391 CDG/Boulder 749m	2	23-Mar-22	24-Mar-22	09-Jun-22	10-Jun-22															
WB TBM Tunnelling CH 7391-7434 Boulder 792m	7	25-Mar-22	31-Mar-22	11-Jun-22	17-Jun-22															
WB TBM Tunnelling CH 7434-7466 C DG/Boulder 824m	4	01-Apr-22	04-Apr-22	18-Jun-22	21-Jun-22															
WB TBM Tunnelling CH7466-7623 ALL/CDG 981m	15	05-Apr-22	19-Apr-22	22-Jun-22	06-Jul-22															
Gallery B Installation	117			27-Dec-21 A	24-May-22															
Forecast	117			27-Dec-21 A	24-May-22	+												·		
Spreader Beam, Hook, Hook Block etc. (from Italy by sea)	56			27-Dec-21 A	12-Mar-22							1								
Wheels (from Italy by air)	10			30-Dec-21 A	07-Jan-22 A									<mark>⊐</mark> Wh	eels (f	from Ital	ly by ai	r)		
Ramp delivery (from China by road)	6			06-Jan-22 A	11-Jan-22 A										Ramp	deliver	ry (from	China k	oy road)	
Loader (from China by road)	13			21-Jan-22 A	26-Jan-22 A				i 								oader	(from Ch	nina by ro	oad)
Ramp pre-assembly at surface	12			27-Jan-22 A	16-Feb-22 A				i									·	Ramp	pre-assem
Loader pre-assembly at surface	6			17-Feb-22 A	25-Feb-22 A													[Loader pr
Install abd Assembly of Spreader Beam	6			14-Mar-22	19-Mar-22															1
Shifting way curve shape extension & Footing	6			28-Mar-22	02-Apr-22													·		

Page 25 of 30 Data Date: 26-Feb-22 Milestone
 Planned Bar
 Critical A divity
 Actual Milestone

Actual Work
Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

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18-Dec-19	00V1	WYu	
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17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur 02V0 Start	02V0 Finish	Start	Finish	2021			2022							Maria						
				ŀ	Octo 03 10	ber Nove 17 24 31 07	ember 14 21	28 05 12		January 02 09 16	23 3	February	20 27	Ma 06 1	ch 3 20 2	7 03 1	April 0 17	24 01 08	May 15 22	Jun 29 05 12	ne 2 19 26
Construction of Notch/Mass Fill to C&C Road Level	9		04-Apr-22	13-Apr-22													Const	truction of Notch/	Mass Fill to		
Lower ISIG into Shaft	3		04-Apr-22	06-Apr-22	÷											1.	1	into Shaft			
Thrust Frame Removal	6		07-Apr-22	13-Apr-22	÷		· · · · · · · · · · · · · · · · · · ·											st Frame Remova			
ISIG Commissioning	6		07-Apr-22	13-Apr-22													ISIG (Commissioning			
Gallery G-W1 to W5 by crawler crane @ 1 no/d	2		14-Apr-22	19-Apr-22														Gallery G-W1 to V	V5 by crawl	er crane @1 no	/d
WB ISIG Gallery B Installation start	0		14-Apr-22		÷												♦ \WB I:	SIG Gallery B Ins	tallation star	n l	
Gallery EMVD installation by crawler crane	1		20-Apr-22	20-Apr-22	· · · · · · · · · · · · · · · · · · ·												I	Gallery EMVD in	stallation by	crawler crane	
Gallery G-W6 to G-W12 installation by ISIG @ 3nos/d	2		21-Apr-22	22-Apr-22	;;													Gallery G-W6 to	o G-W12 ins	stallation by ISIG	;@ 3nos/d
Gallery B installation inside FT @ 6nos/d	1		23-Apr-22	23-Apr-22	÷		·····									-		Gallery Binsta	ullation inside	e FT @ 6nos/d	
Steel Bridge Installation	1		25-Apr-22	25-Apr-22	; ;		·····											Steel Bridge	1 1		
WB Sub-sea Galery B Installation started	0		26-Apr-22		÷		·····											♦ WB Sub-sea	i i		
WB Gallery B CH6642-6742 100m @4nos/day	13		26-Apr-22	12-May-22	+											-			WB Galler	у В CH6642-674	12 100m @4
WB Gallery B CH6742-6855 113m @6nos/day	10		13-May-22	24-May-22	+													ſ	<u>ا</u>	WB Gallery B CH	H6742-6855
SUB-SEA TBM TUNNEL - EASTBOUND	212 03-Jan-22	15-Apr-22	27-Sep-21 A	30-Jun-22	++					V				<u> </u>			▼ SUE	B-SEA TBM TUN	NEL - EAST	BOUND	
TBMAssembly	131		27-Sep-21 A	20-Mar-22	+ +									+ 							
Lifting S3/S7/S2/S8 & S1 Installation	6		27-Sep-21 A	12-Oct-21 A		Ifting \$3/\$7/\$2/\$8 & \$1	Installation														
Shield Bolts torquing & Interior Shiled Joint Welding	8		13-Oct-21 A	21-Oct-21 A		Shield Bolts torqu	ing & Interio	or Shiled Joint W	/elding					+ + 							
Cutterhead Installation	1		26-Oct-21 A	26-Oct-21 A		Cutterhead In	stallation														
Cutterhead Connection to Shield	12		27-Oct-21 A	28-Oct-21 A		Cutter head	Connection	to Shield													
Shield Shifting	2		29-Oct-21 A	29-Oct-21 A	+	Shield Shift	ting							+ + 							
Erector Preparation & Installation	4		30-Oct-21 A	01-Nov-21 A	+ +	Erector P	Preparation 8	& Installation						+ 		-					
Final Shield Joint Welding	5		01-Nov-21 A	04-Nov-21 A	+ +	🗖 Final S	Shield Joint	Welding						+ 							
Installation Welding Plate on Top S1	2		05-Nov-21 A	06-Nov-21 A		I Insta	llation Weld	ing Plate on Top	p S1					+ 							
Lifting & Welding of Tailskin to Shield	28		05-Nov-21 A	18-Nov-21 A			Lifting	& Welding of Ta	ailskin to Sh	ield				+ 		-					
Gantry Rail Wall Installation C&C/SUS	10		19-Nov-21 A	29-Nov-21 A				Gantry Rail V	Vall Installat	tion C&C/SUS				+ 		-					
Lifting & Welding of Tailskin to Shield	28		19-Nov-21 A	13-Dec-21 A					ifting & Wel	ding of Tailskin to	Shield			+		-					
Gantry Rail Wall Installation Cell 2	5		07-Dec-21 A	13-Dec-21 A						Nall Installation C				+		-					
Shifting of TBM to B/I Location	2		14-Dec-21 A	15-Dec-21 A					i i	TBM to B/I Locati	-i i			+		-					
Lifting & Welding of Tailskin to Shield	28		14-Dec-21 A	06-Jan-22 A						Lifting & V	Velding of	Tallskin to Shiel	d	+		-					
Gantry 4 Assembly	2		16-Dec-21 A	16-Dec-21 A				I	Gantry 4 A	a terrer a la seta la serie de la serie la				+		-					
Gantry 3 Assembly	2		17-Dec-21 A	17-Dec-21 A					Gantry 3	Assembly						-					
Gantry 2 Assembly	2		18-Dec-21 A	20-Dec-21 A					🗖 Gantry	2 Assembly						-					
Air / Water / Hydraulic Electrical Connections	10		20-Dec-21 A	06-Jan-22 A						Air / Wate	r / Hydrau	ic Electrical Cor	nnections			-					
Testing & Commissioning	12		26-Dec-21 A	20-Mar-22	· · · · · · · · · · · · · · · · · · ·								· !	· · · · · · · · · · · · · · · · · · ·	Testin	g & Commi	ssioning				
Segment Feeding Installation	1		27-Dec-21 A	28-Dec-21 A						Segment Feeding	j Installatio	'n				-					
Gantry 1 Assembly	3		29-Dec-21 A	29-Dec-21 A					I	Gantry 1 Assem	bly					-					
Thrust Frame Installation	10		30-Dec-21 A	06-Jan-22 A						Thrust Fra	ame Install	ation				-					
Power On	1		07-Jan-22 A	07-Jan-22 A						Power O	n		• • • • • • • • • • • • • • • • • • • •			-					
WB TBM Tunnelling Stoppage due to Additional Mass Fill	15		14-Feb-22 A	23-Feb-22 A									— WB Т	BM Tunn	elling Stopp	bage due to	Addition	al Mass Fill			
S1282 EB TBM Break-in	0			20-Mar-22										+ 	♦ S1282	ЕВ ТВМ В	reak-in				
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Page 26 of 30 Data Date: 26-Feb-22 Milestone
 Variable
 Summary
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
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09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur 02V0 Start 02V0 Finish Start Finish 2021 October November December		Januarv		February N	20 arch)22 I April		lov	luno						
						03 10 17 24		28 05 12 19	26 02 09 16	23 30	· · · · ·	13 20 27	03 10 17	24 01 08	15 22 29	05 12 19 26
TBM Tunnelling EB TBM Tunnelling CH6640-6665 B/I Plug 25m	103 16	03-Jan-22 03-Jan-22	15-Apr-22 18-Jan-22	20-Mar-22 20-Mar-22	30-Jun-22 04-Apr-22	+								MTunnelling nnelling CH6640-6	665 B/I Plug 25m	
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m	15	19-Jan-22	02-Feb-22	05-Apr-22	19-Apr-22				·····	- <u></u> -			1 1 1	EB TBM Tunnellir		
	10	03-Feb-22	02-Feb-22	20-Apr-22	26-Apr-22	+					· <u>···</u> ······	·				756 ALL/CDG 11/6m
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	/				•						·······					
EB TBM Tunnelling CH6756-6789 CDG/Boulder 149m	/	10-Feb-22	16-Feb-22	27-Apr-22	03-May-22									EB IB	и типпенно сно	756-6789 ¢DG/Boul
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m	38	17-Feb-22	26-Mar-22	04-May-22	10-Jun-22								- <u>+</u>			EB TBM Tunn
EB TBM Tunnelling CH7098-7198 ALL/CDG 558m	11	27-Mar-22	06-Apr-22	11-Jun-22	21-Jun-22							·				
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m	2	07-Apr-22	08-Apr-22	22-Jun-22	23-Jun-22	++					,,,,,	· +	-++			EB
EB TBM Tunnelling CH7218-7240 CDG/Boulder 600m	3	09-Apr-22	11-Apr-22	24-Jun-22	26-Jun-22							· + + + + + + + +	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
EB TBM Tunnelling CH7240-7284 ALL/CDG 644m	4	12-Apr-22	15-Apr-22	27-Jun-22	30-Jun-22							· · · · · · · · · · · · · · · · · · ·				
Gallery B Installation	165			28-Jan-22 A	09-Jun-22											
Forecast Spreader Beam, Hook, Hook Block etc(from Italy by sea)	165 56			28-Jan-22 A 28-Jan-22 A	09-Jun-22 12-Mar-22							Spreader Be	am Hook Hook B	Black etc. (from Ital)	hy sea)	
Front Ramp (from China by road)	00			11-Feb-22 A	19-Feb-22 A						Front Ramp (fro				by 36a)	
	9				22-Feb-22 A							1	er (from China by	(read)		
Mild and Rear Ramp + Loader (from China by road)	9														at curfa co	
Ramp pre-assembly at surface				07-Apr-22	16-Apr-22									amp pre-assembly		
Loader pre-asembly	5			17-Apr-22	21-Apr-22									Loader pre-aser		den blas en des
Install and Assembly of Spreader beam etc	6			22-Apr-22	27-Apr-22							·	-+++			
Shifting way curve shape extension & Footing	6			28-Apr-22	03-May-22						,,,,,	· +	-++			extension & Footinc
Construction of Notch/Mass Fill to C&C Road Level	9			04-May-22	12-May-22							· + + + + + + + +				otch/Mass Fill to C&(
Lower ISIG into Shaft	3			04-May-22	06-May-22							· · · · · · · · · · · · · · · · · · ·			er ISIG into Shaft	
Thrust Frame Removal (TBC)	6			07-May-22	12-May-22										Thrust Frame Re	
ISIG Commissioning	6			07-May-22	12-May-22							· · · · · · · · · · · · · · · · · · ·			ISIG Commission	
EB ISIG Gallery B Installation start	0			13-May-22											EB I\$IG Gallery	
Gallery G-E1 to E5 by crawler crane @ 1 no/d	2			13-May-22	14-May-22										Gallery G-E1 to	E5 by crawler crane
Gallery EMVD installation by crawler	1			15-May-22	15-May-22										Gallery EMVD	installation by crawle
Gallery G-E6 to G-E12 installation by ISIG @ 3nos/d	3			16-May-22	18-May-22											5 to G-E12 installatio
Gallery B installation inside FT @ 6nos/d	3			19-May-22	21-May-22											installation inside FT
Steel Bridge Installation	1			22-May-22	22-May-22								· · · · · · · · · · · · · · · · · · ·		Steel Brid	Ige Installation
EB Gallery B CH6642-6742 100m @4nos/day	11			23-May-22	02-Jun-22	+										EB Gallery B CH664
EB Gallery B CH6742-6855 113m @6nos/day	7			03-Jun-22	09-Jun-22	+						· 	+++++			EB Gallery B C
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	168	31-Jul-21	30-Sep-22	10-May-21 A	22-Jul-22	+			- <u>}</u>		<u>+</u> +++++	· 1 1				
CP TBM Design / Fabrication / FAT / Delivery	144	31-Jul-21	22-Mar-22	10-May-21 A	28-Mar-22	***						🔷 🗸 CPT	BM Design / Fabr	rication / FAT / Deli	very	
Fabrication / Refurbishment	144	31-Jul-21	21-Jan-22	10-May-21 A]	Fabrication / Refurbishr	nent				
FAT	24	22-Jan-22	22-Feb-22	11-Feb-22 A	28-Feb-22						FAT					
Delivery of TBM components to the Site	24	23-Feb-22	22-Mar-22	01-Mar-22	28-Mar-22								Delivery of TBM c	components to the	Site	
CP Precast Lining Fabrication	153	26-Nov-21	30-Sep-22	26-Oct-21 A	12-Jul-22		V					· · · · · · · · · · · · · · · · · · ·				
Concrete Mix - Plant Trial	40	26-Nov-21	14-Jan-22		29-Nov-21 A				Co	ncrete Mix	- Plant Trial	· · · · · · · · · · · · · · · · · · ·				
CP Precast Lining Segment - Mould Fabrication & Setup	24	15-Jan-22	15-Feb-22	30-Nov-21 A							CP Precast Lining					
CP Precast Lining Segment - Master Ring Erection & Inspection	6	16-Feb-22	22-Feb-22	16-Dec-21 A										ection & Inspection		
CP Precast Lining Segment - 3%	18	23-Feb-22	15-Mar-22	17-Dec-21 A	15-Jan-22 A							CP Precas	t Lining Segment	- 3%		
Page 27 of 30 Milestone		Summary								1.5			Date	Revision	Checked	Approved
Data Date: 26-Feb-22			ED/2	2018/04	4 Trun	k Road T2	2 and Infr	astructur	e Works					00V1	WYu	1406.
Critical A divity			,_						5 1101110		BOUYGUES			01V0 01V1	SPa/LLo SPa/LLo	WYu WYu
Actual Work				IC		Developments at South Apron		01V2	SPa/LLo	WYu						
♦ ♦ Baseline Milestone Baseline Bar				Three	Month	ns Rolling	Program	me (Feh-	-22)					01V3	SPa/LLo	WYu
				11100			Sgrann						02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	202			2022		
						October Nover 03 10 17 24 31 07 1		January February 02 09 16 23 30 06 13 1	March 20 27 06 13 20 27 03	April May 10 17 24 01 08 15	June 22 29 05 12 19 26
CP Precast Lining Segment - 6%	18	16-Mar-22	06-Apr-22	17-Jan-22 A	29-Jan-22 A				C	Precast Lining Segment - 6%	
CP Precast Lining Segment - 10%	24	07-Apr-22	10-May-22	31-Jan-22 A	19-Feb-22 A					CP Pre	cast Lining Segment - 10%
CP Precast Lining Segment - 20%	24	11-May-22	08-Jun-22	21-Feb-22 A	12-Mar-22	+ +					CP Precast Lini
CP Precast Lining Segment - 30%	24	09-Jun-22	07-Jul-22	14-Mar-22	11-Apr-22						
CP Precast Lining Segment - 40%	24	08-Jul-22	04-Aug-22	12-Apr-22	14-May-22						
CP Precast Lining Segment - 50%	24	05-Aug-22	01-Sep-22	16-May-22	13-Jun-22						
CP Precast Lining Segment- 60%	24	02-Sep-22	30-Sep-22	14-Jun-22	12-Jul-22						
WB CP Tympanum Structure	48	29-Jan-22	29-Mar-22	25-May-22	21-Jul-22				WB CP	ympanum Structure	
CP7 - WB - Tympanum Civil works CH6705	24	29-Jan-22	01-Mar-22	25-May-22	22-Jun-22						CP7
CP8 - WB - Tympanum Civil works CH6803	24	15-Feb-22	14-Mar-22	09-Jun-22	07-Jul-22						
CP9 - WB - Tympanum Civil works CH6904	24	02-Mar-22	29-Mar-22	23-Jun-22	21-Jul-22						
EB CP Tympanum Structure	36	05-Mar-22	14-Apr-22	10-Jun-22	22-Jul-22					EB CP Tympanum Structure	
CP7 - EB - Tympanum Civil works CH6705	24	05-Mar-22	01-Apr-22	10-Jun-22	08-Jul-22						
CP8 - EB - Tympanum Civil works CH6803	24	17-Mar-22	14-Apr-22	24-Jun-22	22-Jul-22						
CHA KWO LING ROAD WORKS	121	24-Apr-21	31-May-21	19-Apr-21 A	12-Mar-22						
Wai Yip Street / Cha Kwo Ling Road Junction	121	24-Apr-21	31-May-21	19-Apr-21 A	12-Mar-22						
Reinstatement	30	24-Apr-21	31-May-21	19-Apr-21 A	12-Mar-22				Reihstatement		
Section 8E Completion	0		31-May-21		12-Mar-22				 Section 8E Completion 		
DRILL & BREAK TUNNEL [D&BR]	281	07-Jun-21	04-Feb-22	28-Jun-21 A	14-Jul-22			V DRILL & BR	EAK TUNNEL [D&BR]		
Precast Fabrication	48	07-Jun-21	03-Aug-21	17-Jul-21 A							
Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Jul-21 A	09-Dec-21 A		Precast Service	Gallery			
Tunnel Excavation	348	06-Jul-21	04-Feb-22	28-Jun-21 A	14-Jul-22			Tunnel Exca	vation		
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	40	06-Jul-21	14-Aug-21	28-Jun-21 A	19-Oct-21 A	EB - D&Br Tunnel - C	CH9055-9040 Type D - Excavation To				
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	39	15-Aug-21	22-Sep-21	20-Oct-21 A				CH9040-9025 Type D - Excavation Top			
Probe hole at CH9025	1	23-Sep-21	23-Sep-21	04-Dec-21 A	04-Dec-21 A		Probe hole at CH90	D25			
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	06-Dec-21 A	04-Mar-22				EB - D&Br Tunnel - CH9025-	9010 Type D - Excavation Top	
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	05-Mar-22	15-May-22					i i i i	- D&Br Tunnel - CH9055-9020 1
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39	03-Nov-21	11-Dec-21	05-Mar-22	12-Apr-22					EB - D&Br Tunnel - CH9010-8	995 Type D - Excavation Top
Probe hole at CH8995	1	12-Dec-21	12-Dec-21	13-Apr-22	13-Apr-22		·····			Probe hole at CH 8995	
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	50	13-Dec-21	31-Jan-22	14-Apr-22	02-Jun-22						EB - D&Br Tunnel - (
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	60	07-Dec-21	04-Feb-22	16-May-22	14-Jul-22						
DRILL & BLAST TUNNEL [D&BL]	379	02-Jul-21	25-May-22	07-Jul-21 A	21-Jul-22						▼ DRILL & BLAST TUNNEL [
Tunnel Excavation	222	02-Jul-21	31-Dec-21	07-Jul-21 A	29-Jan-22 A			Tunnel Excavation			
Eastbound	117	27-Sep-21	31-Dec-21	07-Jul-21 A				Eastbound			
Full Face Drill & Blast	117	27-Sep-21	31-Dec-21	07-Jul-21 A				Full Face Drill & Blast			
EB - D&BI Tunnel - CH9240-9055 - Bench Excavation & SG	51	01-Nov-21	31-Dec-21	07-Jul-21 A				EB - D&BI Tunnel - CH9240-9055 - Benc			
EB - D&BI Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	06-Nov-21 A				EB: D&BI Tunne	I - Branch Tunnel S01		
Westbound	36	02-Jul-21	12-Aug-21	26-Jul-21 A							
Full Face Drill & Blast WB - D&BI Tunnel - CH9258-9138 - SG Excavation	36 36	02-Jul-21 02-Jul-21	12-Aug-21 12-Aug-21	26-Jul-21 A 26-Jul-21 A		WR - D&RITim	nel - CH9258-9138 - SG Excavation				
Tunnel Structure WB Type A	285	13-Aug-21		08-Dec-21 A							■ Tunnel Structure WB Type
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	285	13-Aug-21 13-Aug-21	25-May-22 09-Sep-21	08-Dec-21 A 08-Dec-21 A				WB:-D&BI Tunnel - CF	19258-9138 Type A - SG Installation		
	2 T	10 /109 21	0,00021	JU DUU ZI A							
									Da	e Revision (becked Approved

Page 28 of 30 Data Date: 26-Feb-22 le V Summary

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

Activitv

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	2022
						October November December 03 10 17 24 31 07 14 21 28 05 12 19 26	January February March April May June 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26
WB - D&BI Tunnel - CH9258-9138 Type A - Base slab / Kicker	27	03-Jan-22	05-Feb-22	28-Feb-22	30-Mar-22		WB - D&BI Tunnel - CH9258-9138 Type A - Base slab / Kicker
WB - W/P Gantry Type A Assembly	18	13-Jan-22	05-Feb-22	10-Mar-22	30-Mar-22		WB - W/P Gantry;Type A Assembly
WB - Rebar Gantry Type A Assembly	24	03-Jan-22	29-Jan-22	14-Mar-22	11-Apr-22		WB - Rebar Gantry, Type, A Assembly
WB - Lining Fwk Type A Assembly	30	07-Feb-22	12-Mar-22	31-Mar-22	11-May-22		WB - Lining Fwk Type A Assembly
WB - D&BI Tunnel - CH9258-9138 Type A - Waterproofing	20	07-Feb-22	01-Mar-22	31-Mar-22	27-Apr-22		WB - D&BI Tunne) - CH9258-9138 Type A - Water
WB - D&BI Tunnel - CH9258-9138 Type A - Rebar	40	14-Feb-22	31-Mar-22	12-Apr-22	02-Jun-22	***************************************	WB - D&BI Tunnel -
WB - W/P Gantry Type A Dismantling	12	02-Mar-22	15-Mar-22	28-Apr-22	13-May-22		WB + W/P;Gantry Type A Dismanllin
WB - D&BI Tunnel - CH9258-9138 Type A - Lining Structure	30	14-Mar-22	21-Apr-22	12-May-22	16-Jun-22		WB - D8
WB - OHVD Slab Fwk Type A Assembly	30	14-Mar-22	21-Apr-22	12-May-22	16-Jun-22		
WB - Rebar Gantry Type A Dismantling	12	01-Apr-22	19-Apr-22	04-Jun-22	17-Jun-22		
WB - D&BI Tunnel - CH9258-9153 Type A - OHVD Slab	27	22-Apr-22	25-May-22	17-Jun-22	19-Jul-22		
WB - Lining Fwk Type A Dismantling	12	22-Apr-22	06-May-22	17-Jun-22	30-Jun-22	$\left \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots \left\{\cdot \cdots \left\{\cdot \cdots \right\} \cdots \left\{\cdot \cdots $	┊╌╌┊╌╌┊╌╌┊╌╴┊╎╴┊╌╴┊╴╴┊╎╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴
Forecast	177	·	,	21-Jan-22 A	07-Mar-22		
WB - Rock Plug Excavation	36			21-Jan-22 A	05-Mar-22		WB - Rock Plug Excavation
WB Access available	0			07-Mar-22			♦ WB Access available
Tunnel Structure EB Type A	197	06-Dec-21	12-Mar-22	05-Jan-22 A	29-Jun-22		Tunnel Structure EB;Type A
EB - D&BI Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	25-Apr-22	24-May-22		EB - D&BI Tunnel - CH924
EB - D&BI Tunnel - CH9240-9139 Type A - Base slab / Kicker	30	07-Feb-22	12-Mar-22	25-May-22	29-Jun-22		
EB - D&BI Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05-Feb-22	25-May-22	22-Jun-22		
Forecast	197			05-Jan-22 A	29-Jun-22		
Blast Door	197			05-Jan-22 A	08-Apr-22		
East Bound New Blast Door Installation	12			05-Jan-22 A	05-Mar-22		East Bound New Bast Door Installation
East Bound New Blast Door CNP Application	16			01-Feb-22 A	12-Mar-22		East Bound New Blast Door CNP Application
Removal of old Blast Door	22			14-Mar-22	08-Apr-22		Removal of old Blast Door
Earth Mat	181			24-Jan-22 A	23-Apr-22		
EB - Earth Mat Installation EB Type A	12			24-Jan-22 A	30-Mar-22		EB - Earth Mat Installation EB Type A
EB - Earth Mat Installation EB Type C	17			31-Mar-22	23-Apr-22		EB - Earth Mat Installation EB Type C
SG Installation Type A	32			31-Mar-22	13-May-22		
Vertical Blinding	20			31-Mar-22	27-Apr-22		E.P. Type A vertical blieding Pay 1/Cb01/40 0155
EB - Type A vertical blinding Bay 1 Ch9140-9155	5			31-Mar-22	06-Apr-22		EB - Type A vertical blinding Bay 1/Ch9140-9155
EB - Type A vertical blinding Bay 2 Ch9155-9170	3			07-Apr-22	09-Apr-22		EB- Typę A vertical blinding Bay 2 Ch9155-9170
EB - Type A vertical blinding Bay 3 Ch9170-9185	3			11-Apr-22	13-Apr-22		EB - Type A vertiçal blinding Bay 3 Ch9170-9185
EB - Type A vertical blinding Bay 4 Ch9185-9200	3			14-Apr-22	20-Apr-22		EB - Type A vertiçal blinding Bay 4 Ch9185-9200
EB - Type A vertical blinding Bay 5 Ch9200-9215	3			21-Apr-22	23-Apr-22		EB Type A vertical blinding Bay 5 Ch9200-9215
EB - Type A vertical blinding Bay 6 Ch9215-9233	3			25-Apr-22	27-Apr-22		EB - Type A vertical blinding Bay 6 Ch9215-9233
SG Installation	27			07-Apr-22	13-May-22		
EB - Type A SG Installation Bay 1 Ch9140-9155	4			07-Apr-22	11-Apr-22		EB - Type A \$G Installation Bay 1 Ch9140-9155
EB - Type A SG Installation Bay 2 Ch9155-9170	4			12-Apr-22	19-Apr-22		EB - Type A SG Installation Bay 2 Ch9155-9170
EB - Type A SG Installation Bay 3 Ch9170-9185	4			20-Apr-22	23-Apr-22		EB - Type A SG Installation Bay 3 Ch9170-9185
EB - Type A SG Installation Bay 4 Ch9185-9200	4			25-Apr-22	28-Apr-22		EB - Type A SG Installation Bay 4 Ch9185-9200
EB - Type A SG Installation Bay 5 Ch9200-9215	4			29-Apr-22	04-May-22		EB - Type A SG Installation Bay 5 Ch9200-9

Page 29 of 30 Data Date: 26-Feb-22 Milestone
 V
 Summary
 Planned Bar

Critical Activity

Actual Milestone
Actual Work

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Actual vvork
 Baseline Milestone
 Baseline Bar

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



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				2021					2022													
							October 10 17 2	04 31	November	D	ecember	26	January 02 09 16	23	February March April 30 06 13 20 27 06 13 20 27 03 10 17 2		May June 24 01 08 15 22 29 05 12 19 26										
EB - Type A SG Installation Bay 6 Ch9215-9233	7			05-May-22	13-May-22	0.5		4 51	0/ 17 21	20 03		20	02 07 10	23	30 00	13	20 21	00			0.0 10	11 2					ion Bay 6 Ch
SG Installation Type C	54			25-Apr-22	29-Jun-22	++													·	++-	· 						
Vertical Blinding	42			25-Apr-22	15-Jun-22	- 					····								·	++-							
EB - Type C vertical blinding part 1	18			25-Apr-22	17-May-22																				ЕВ - Туре	C vertical b	linding part
EB - Type C vertical blinding part 2	12			01-Jun-22	15-Jun-22			·	J J J J				·					+-									В-Туре
SG Installation	36			18-May-22	29-Jun-22	· · · · · · · · · · · · · · · · · · ·			J J				· L L I I I I I I					+ -		+							
EB - Type C SG Installation part 1	12			18-May-22	31-May-22						1															ЕВ - Туре	C SG Instal
EB - Type C SG Installation part 2	12			16-Jun-22	29-Jun-22						j ! !													i			
Tunnel Structure EB Type C	24	07-Feb-22	05-Mar-22	23-Jun-22	21-Jul-22										▼-				el Structu	ire EB T	уре С						
EB - D&BI Tunnel - CH9110-9055 Type C - SG Installation	24	07-Feb-22	05-Mar-22	23-Jun-22	21-Jul-22						· · · · · · · · · · · · · · · · · · ·							•									
Tunnel Structure S01 Branch Tunnel	61			19-Apr-22	02-Jul-22														·	++-							
Forecast	61			19-Apr-22	02-Jul-22	· · · · · ·					i 								·;	÷							
Branch Tunnel D&Br Manholes & Drainage	18			19-Apr-22*	11-May-22				1 1															Brai	nch Tunne	D&Br Manh	oles & Drair
Branch Tunnel Lining Footing Bay 1 to Bay 8	18			12-May-22	01-Jun-22																					Branch Tu	unnel Lining
Branch Tunnel Drainage Layer & Base Slab Bay 1	8			02-Jun-22	11-Jun-22																					B	Branch Tunn
Branch Tunnel Drainage Layer & Base Slab Bay 2	9			13-Jun-22	22-Jun-22								·····							+							Brar
Branch Tunnel Drainage Layer & Base Slab Bay 3	8			23-Jun-22	02-Jul-22																						
Cross Passage	16	06-Jul-21	23-Jul-21	26-Oct-21 A	30-Nov-21 A															+							
CP31	16	06-Jul-21	23-Jul-21	26-Oct-21 A	30-Nov-21 A	· · · · · · ·													·	+							
CP31 - D&BI Excavation 16.7m	16	06-Jul-21	23-Jul-21	26-Oct-21 A	30-Nov-21 A			·	1	CP31 -	D&B Exca	avation	16.7m														
EAST VENTILATION BUILDING [EVB]	272	10-Sep-21	14-Jun-22	13-Mar-21 A	27-Aug-22	+ + + + + + + + + - + + - + - + - + - + - +					·									++-						V	EASTVEN
Excavation	272	10-Sep-21	14-Jun-22	13-Mar-21 A	27-Aug-22																					V	Excavatior
Westbound	66	10-Sep-21	29-Nov-21	13-Mar-21 A	15-Feb-22 A				· · · · · · · · · · · · · · · · · · ·	🕂 Westhoù	Ind			· · ·		- L L -				¦		· · · · ·					
Westbound Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	15-Feb-22 A						1					We	estbound	Excavat	ion								
Eastbound	143	22-Mar-22	14-Jun-22	05-Mar-22	27-Aug-22						, , , ,								V							V	Eastbound
Eastbound Excavation	143	22-Mar-22	14-Jun-22	05-Mar-22*	27-Aug-22															<u></u>							
Forecast	132			05-Mar-22	15-Aug-22						· · · · · · · · · · · · · · · · · · ·																
Eastbound Excavation	132			05-Mar-22*	15-Aug-22																						
Foundation / Portal Structure	121	30-Nov-21	21-Mar-22	16-Feb-22 A	17-Aug-22					V									• F		on / Port	al¦Structur	e				
Westbound	121	30-Nov-21	21-Mar-22	16-Feb-22 A	17-Aug-22					V									V	Vestbour							
EVB - WB Earth Mat Installation	12	30-Nov-21	13-Dec-21	21-Mar-22	02-Apr-22																EVB-V	VB Earth N	∕lat Insta	llation			
EVB - WB Drainage & Blinding	18	14-Dec-21	06-Jan-22	04-Apr-22	28-Apr-22										, , ,								EVB	+ WB Dra	inåge & Bli	nding	
EVB - WB Foundation & SG Level Walls & Slab	91	07-Jan-22	21-Mar-22	29-Apr-22	17-Aug-22																						
Forecast	115			16-Feb-22 A	10-Aug-22		· · · · · · · · · · · · · · · · · · ·		J _ J J _ J J _ J _ J J _ J _ J J _ J J _ J J _ J J _ J J _ J J _ J J _ J J _ J J _ J J J _ J		 		·	I I I I I I I I I													
Trench Excavation	24			16-Feb-22 A	19-Mar-22														Tre	ench Exc	cavation						
Eartmat & Drainage	24			21-Mar-22	21-Apr-22															++-				Drainage			
EVB - WB Foundation & SG Level Walls & Slab	91			22-Apr-22	10-Aug-22						1																

Page 30 of 30 Data Date: 26-Feb-22 Milestone
 Planned Bar

Summary

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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