Civil Engineering and Development Department

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

Monthly Environmental Monitoring and Audit Report for September 2021

(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.

CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388

Email: info@cinotech.com.hk



Ref.: CEDKTDT2EM00_0_0265L.21.doc

20 October 2021

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

By Post and Email

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 (September 2021) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for September 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 20 October 2021. 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

Attn.: Mr. Tommy Wong

By Fax: 2739 0076

BTP

Attn.: Mr. Ivan Chau

By Email

Cinotech

Attn.: Mr. K. S. Lee

By Fax: 3107 1388

Q:\Projects\CEDKTDT2EM00\02 Proj_Mgt\02 Corr\CEDKTDT2EM00_0_0265L.21.doc

TABLE OF CONTENTS

		Page
EX	KECUTIVE SUMMARY	1
	Introduction Summary of Main Works Undertaken and Key Measures Implemented	1
	Environmental Monitoring Works	
	Reporting Changes	
	Future Key Issues	
1	INTRODUCTION	5
	Background	5
	Purpose of the Report	
	Project Organizations	6
	Construction Activities undertaken during the Reporting Month	
	Summary of EM&A Requirements	
	Status of Environmental Licensing and Permitting	
2	AIR QUALITY	8
	Monitoring Requirement	
	Monitoring Locations	
	Monitoring Parameters and Frequency	
	Monitoring Equipment	
	Monitoring MethodologyResults and Observations	
	Comparison of EM&A Result with EIA Prediction	
3	NOISE	
	Monitoring Requirements	
	Monitoring Locations	
	Monitoring Parameters, Frequency and Duration	
	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	18
5	WASTE MANAGEMENT	18
6	ECOLOGY	19
7	FISHERIES	19
8	CULTURAL HERITAGE	19
9	LANDSCAPE AND VISUAL IMPACT	20

10	LANDF	ILL GAS MONITORING	20
	Monitor	ing Requirement	20
		-	
11	HAZAK	D TO LIFE	20
12	ENVIRO	ONMENTAL AUDIT	21
	Site Auc	lits	21
	Impleme	entation Status of Environmental Mitigation Measures	21
	Impleme	entation Status of Event and Action Plans	22
13	ENVIRO	DNMENTAL NON-CONFORMANCE	22
		ry of Complaint, Warning, Notification of any Summons and Successful Prosecution by of Exceedance	
14		E KEY ISSUES	
		ing Schedule	
~ ~ -			
CON	NCLUSIO	ONS AND RECOMMENDATIONS	23
	Conclus	ions	23
	Recomn	nendations	23
LIST	Г ОГ ТА	BLES	
Tabl	e I	Non-compliance (exceedance) Record for the Project in the Reporting Month	
Tabl	e II	Monthly Complaints, Notifications of Summons and Successful Prosecutions in	the
		Reporting Month	
<u>Tabl</u>		Summary of Complaints Details in Reporting Month	
<u>Tabl</u>		Summary Table for Site Activities in the next Reporting Period	
	e 1.1	Key Project Contacts	
	e 1.2	Summary of Environmental License and Permit	
	e 2.1	Air Quality Monitoring Locations	
	e 2.2	Frequency and Parameters of Air Quality Monitoring	
<u>Tabl</u>		Air Quality Monitoring Equipment	
	<u>e 2.4</u>	Major Dust Source during Air Quality Monitoring	
	e 2.5	Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report	
	e 2.6	Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report	
	e 3.1	Noise Monitoring Stations	
	e 3.2	Frequency and Parameters of Noise Monitoring	
	e 3.3	Noise Monitoring Equipment	
	e 3.4	Other Noise Source Identified during Noise Monitoring	
	e 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations	
	e 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report	
<u>Tabl</u>	e 10.1	Landfill Gas Monitoring Equipment (not used)	
<u>Tabl</u>	e 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 17th 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 September 2021.

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,
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - East Ventilation Building 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**.

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

Environment al Monitoring	No. of Non-o (Exceed	•	No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1	1	0	0	N/A
Noise	0	0	0	0	N/A
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

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. One (1) Limit Level exceedance for 24-hour TSP monitoring was recorded.
- 8. One (1) Action Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

- 9. No Action Level exceedance was recorded in this reporting month.
- 10. No Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month.

Water Quality Monitoring

- 11. Groundwater quality monitoring had been suspended since October 2019 upon the agreement by EPD. Further details should be founded at **Section 4.1**.
- 12. 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.
- 13. As the construction activity is approximately 120m away from the piezometer gate, no piezometer monitoring is required.

Waste Management

14. 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

15. 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

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

Monitoring on Cultural Heritage

17. 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

18. 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

19. 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	Ev	ent Details	Action Taken	Status	
Event	Number	Nature	Action Taken		
Complaints Received	0		N/A	N/A	
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 Complaints Details in Reporting Month

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
	1	

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 (October 2021)	Key Environmental Issues
West bound - RC Structure Construction, Service Gallery A Installation, Blast Door Installation	(A) / (B) / (C) / (D)
2. East bound – Service Gallery Drill & Blast	(A)/(B)/(C)/(D)
3. Branch Tunnel Drill & Blast	

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.

INTRODUCTION

Background

1

- 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.

Monthly EM&A Report – September 2021

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

This is the 17th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in September 2021.

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

Table 1.1 **Key Project Contacts**

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Mr. Joe Nam	5183 0830
Cinotech	-1 Eurina was at 1 Tanan	Mr. KS Lee (ETL)	2151 2091
Cinotech	Environmental Team	Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan	5185 4462

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

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,
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - East Ventilation Building 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 September 2021.

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	Valid	Valid Period		
Permit / License No.	From	To	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) R	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	Valid	
CNP No. (For Portion T1): GW-RE0702-21	04 Aug 2021	03 Sep 2021	Expired on 03 Sep 2021	
CNP No. (For Portion Q): GW-RE0251-21	24 Mar 2021	23 Sep 2021	Expired on 23 Sep 2021	
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. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

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)

Remarks:

- (1) For 1-hour TSP monitoring;
- (2) For 24-hour TSP monitoring

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

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

^(*) 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)

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**.

Table 2.3 Air Quality Monitoring Equipment

Equipment Model		Quantity
	Sibata Model No. LD-5R	
1-hour TSP Dust Meter	(Serial No.: 8Y2373, 8Y2374, 972781,	6
	972780, 972778,972779)	
	TISCH Model: TE-5170 (Serial No.: 1536)	1
HVS Sampler	GMW model: GS2310	3
	(Serial No.: 1287, 10379, 10599)	3
Calibrator	TISCH Model: TE-5025A	1
Canbrator	(Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
w ma Anemometer	(Serial No.: MC01010A44)	1

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:
 - 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

<u>Instrumentation</u>

- 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 0.3µm diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.

Monthly EM&A Report – September 2021

- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (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 $\pm 3^{\circ}$ 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 One (1) Action and one (1) Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. The detail of exceedance is shown in **Appendix N**.
- 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:

Table 2.4 Major Dust Source during Air Quality Monitoring

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
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

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 1-hr TSP Monitoring Data with Predictions in EIA Report

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), µg/m³	Maximum 1-hr TSP Concentration in the Reporting Month (September 2021), μg/m³
AM1 – Tin Hau Temple	CL1	707	73.6
AM2 – Sai Tso Wan Recreation Ground	CL6	266	41.8
AM3 – Yau Lai Estate Bik Lai House	CL9	507	163.2
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	88.8

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (September 2021), μg/m³
AM1 – Tin Hau Temple	CL1	199	485.2
AM2 – Sai Tso Wan Recreation Ground	CL6	109	44.5
AM3 – Yau Lai Estate Bik Lai House	CL9	123	97.8
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office (*)	N/A ⁽¹⁾	N/A ⁽¹⁾	105.7

Remarks:

- 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 AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). AM1 was higher than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013), that may due to the influence of non-project related construction activities (e.g. Tin Hau Temple's renovation work and construction activities of TKOLTT). One (1) Action and one (1) Limit level exceedance were recorded in the reporting period.

⁽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)

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.

Table 3.1 Noise Monitoring 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)

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 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1				I (20 min)	Façade Measurement
CM2	0500 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	weekdays			$L_{eq}(30 \text{ min.})$	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 3.3 Noise Monitoring Equipment

8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Equipment	Model	Quantity	
Integrating Sound Level Meter	BSWA 308 (Serial No.: 570183, 570187, 570188)	3	
Calibrator	ST-120 (Serial No.: 181001637, 181001608, 181001636)	3	

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.

Monthly EM&A Report – September 2021

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 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

- 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 No Action/ Limit Level exceedance was recorded for all construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.12 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**.

Table 3.4 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source	
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction activities	
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, Construction activity from other construction site, Road Traffic at Yau Tong Road	

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	13
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

3.13 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**.

Monthly EM&A Report – September 2021

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA 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 (September 2021), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	72.9
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	74.3
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	70.2
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	74.7
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	69.3

3.14 The results at CM1, CM2, CM3 and CM5 were lower than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013). The results at CM4 was higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), this may due to the influence of non-project related construction activities (i.e. Tin Hau Temple's renovation work and construction activities of TKOLTT). No Limit level exceedance was recorded in the reporting period.

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.
- 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.

Monthly EM&A Report – September 2021

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

- According to Section 9.3 of the EM&A Manual (AEIAR-173/2013), landscape and visual 9.1 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**).
- 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 01, 09, 17, 23 and 30 September 2021 in the reporting month. Site inspection of the IEC was conducted on 30 September 2021. 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.

Table 12.1 Observations and Recommendations of Site Audit

Parameters	Parameters Date Observations and Recommendations		Follow-up	
Air Quality	26 Aug 2021	Contractor is reminded to spray water on potential dust generated areas	The construction area, in which dust is likely to be generated, was sprayed with water	
Noise	30 Sep 2021	Contractor was reminded to check on the effectiveness of the implemented noise mitigation measure regularly. Noise barriers should be erected to block the direct view of noise source from NSR	To be followed up in the next reporting period.	
Water Quality	N/A	There was no observation in the reporting period.	N/A	
Healogy 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.		
Waste / Chemical N/A Management		There was no observation in the reporting period.	N/A	
Permits /Licences	N/A	There was no observation in the reporting period.	N/A	

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.
- One (1) Action and one (1) Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

• No Action/ 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 RC Structure Construction, Service Gallery A Installation, Blast Door Installation
 - East bound Service Gallery Drill & Blast
 - Branch Tunnel Drill & Blast
- 14.3 Key environmental issues in the coming months include:
 - Make sure noise mitigation measures are implemented accordingly; and
 - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain.

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 17th 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 One (1) Action and one (1) Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

14.8 No Action/ Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

14.9 5 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

14.10No environmental complaint, notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

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

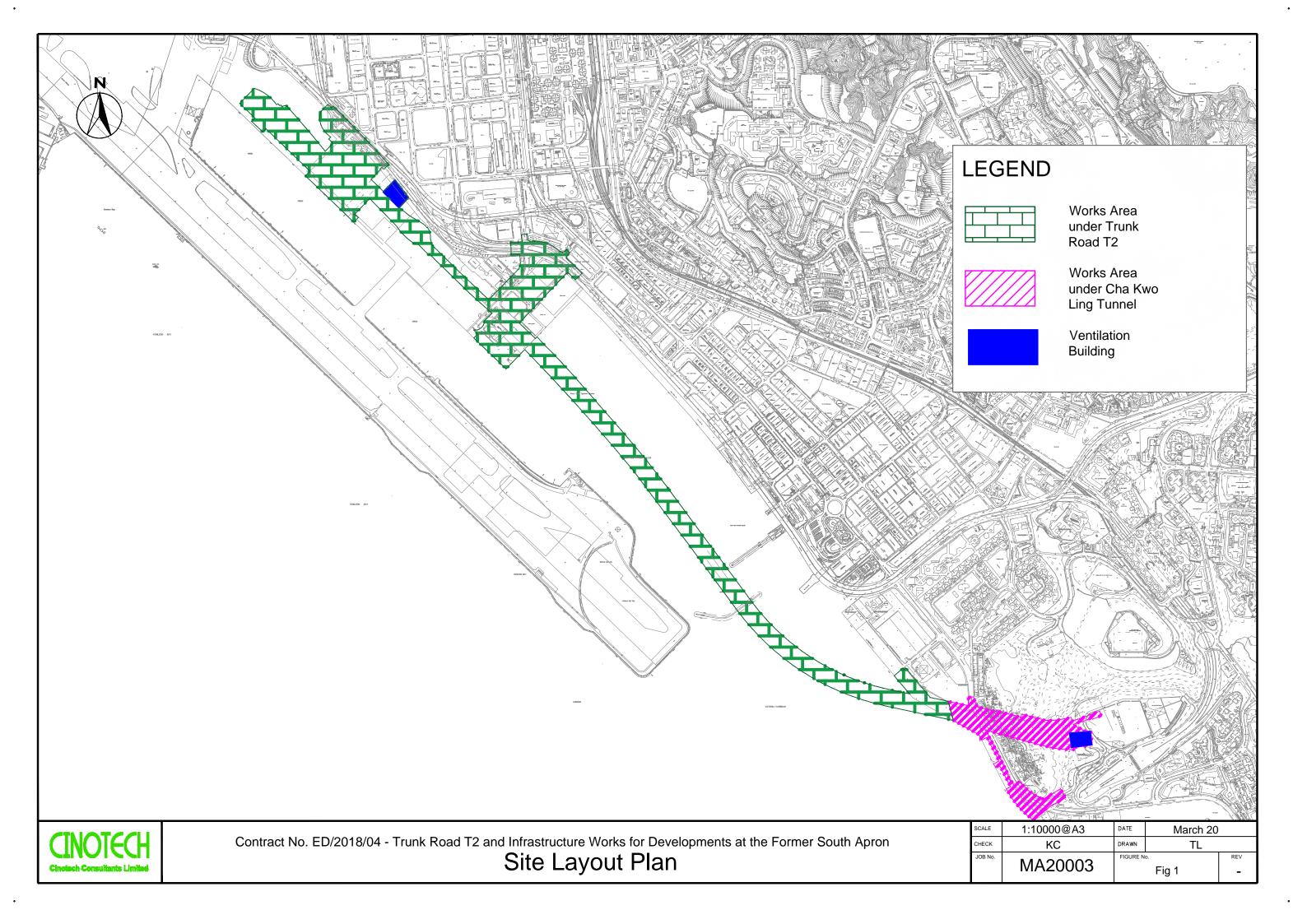
.Construction Noise Impact

• Noise mitigation measure shall always implemented on site to minimize noise nuisance generated from construction activities.

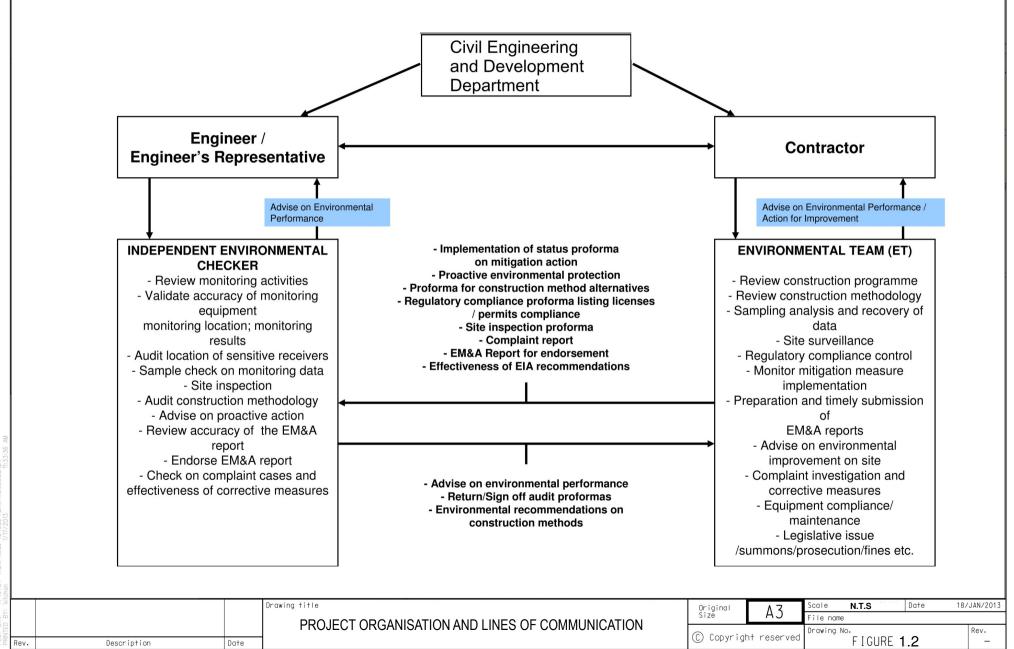
Air Quality

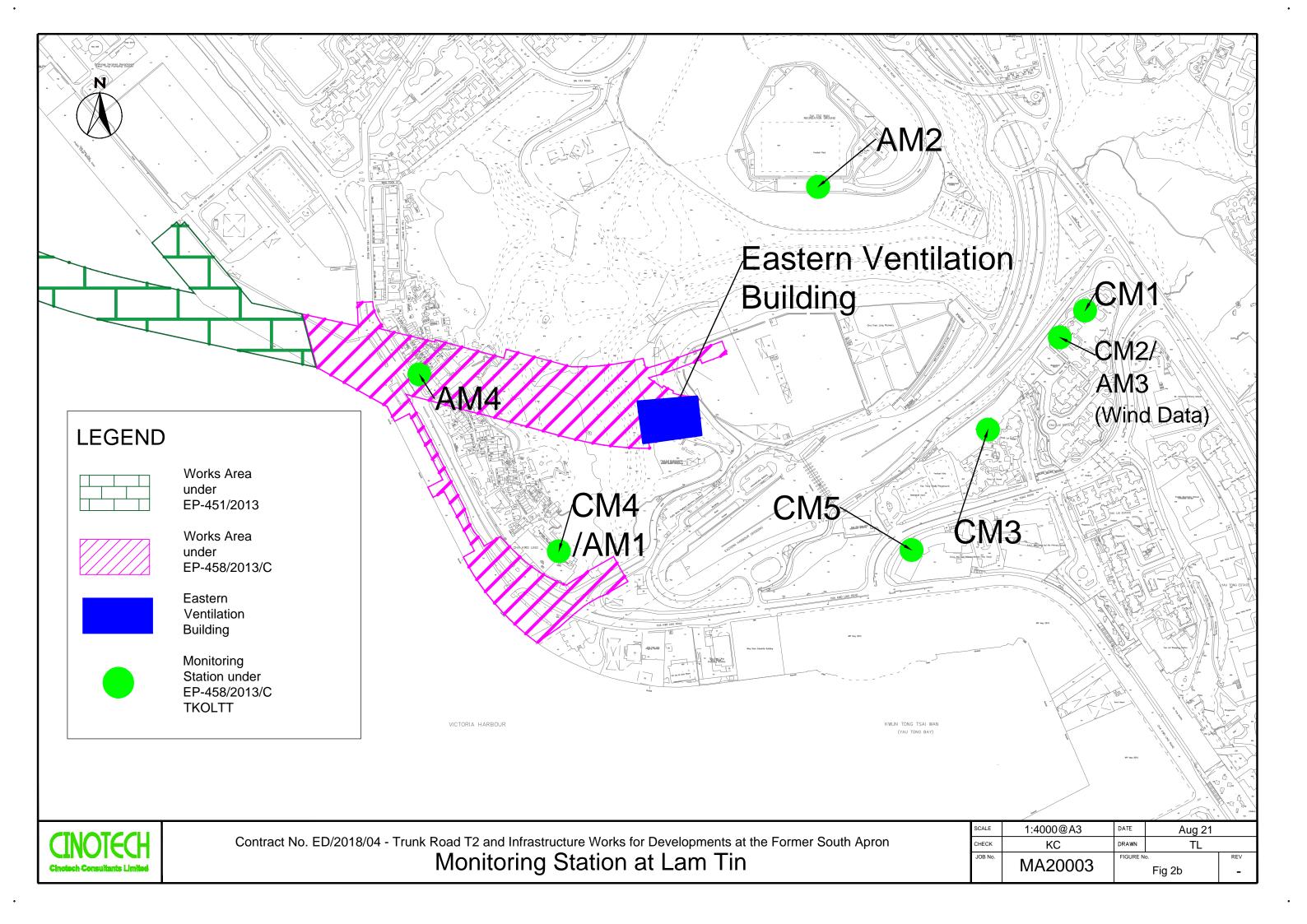
 Regular watering on active works areas, exposed areas and paved haul roads to minimize dust generation.

FIGURES









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/m³
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/m³
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	

Noise

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

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%

 ¹ 70 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.

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

Model No.: <u>Davis7440</u>

Serial No.: MC01010A44

Equipment No.: <u>SA-03-04</u>

Date of Calibration <u>20-Aug-2021</u>

Next Due Date <u>20-Feb-2022</u>

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.8	2.7	0.1
4.0	4.1	-0.1

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

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

Calibrated by: Approved by: Approved by: Henry Leung



RECALIBRATION
DUE DATE:

January 11, 2022

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 11, 2021

Rootsmeter S/N: 438320

°K

Operator: Jim Tisch

Ta: 297
Pa: 750.1

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4470	3.2	2.00
2	3	4	1	1.0210	6.4	4.00
3	3 5	6	1	0.9140	8.0	5.00
4	, 7	8	1	0.8670	8.8	5.50
5	9	10	1	0.7140	12.9	8.00

	Data Tabulation								
Vstd Qstd $\sqrt{\Delta H(\frac{Pa}{Pstd})(\frac{Tstd}{Ta})}$			Qa	$\sqrt{\Delta H (Ta/Pa)}$					
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)				
0.9860	0.6814	1.4073	0.9957	0.6881	0.8899				
0.9818	0.9616	1.9902	0.9915	0.9711	1.2585				
0.9797	1.0719	2.2251	0.9893	1.0824	1.4071				
0.9786	1.1288	2.3337	0.9883	1.1399	1.4757				
0.9732	1.3630	2.8146	0.9828	1.3765	1.7798				
	m=	2.06566		m=	1.29348				
QSTD	b=	0.00315	QA	b=	0.00199				
	r=	0.99996		r=	0.99996				

	Calculations						
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)				
Qstd=	Vstd/ΔTime	Qa=	Va/∆Time				
	For subsequent flow ra	te calculatio	ns:				
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$				

Standard Conditions						
Tstd: 298.15 °K						
Pstd: 760 mm Hg						
	Key					
ΔH: calibrator manometer reading (in H2O)						
ΔP: rootsme	ter manometer reading (mm Hg)					
Ta: actual ab	osolute temperature (°K)					
Pa: actual ba	Pa: actual barometric pressure (mm Hg)					
b: intercept						
m: slope	m: slope					

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

FAX: (513)467-9009

www.tisch-env.com

Digital Dust Indicator



Date of Calibration 2-Aug-21

Certificate of Calibration

Description:

It	is certified tha	t the item und	er calibration l	nas been o	calibrated by	corresponding	calibrated High	Volume Sampl	lei

Manufacturer:	Sibata Scientific Technology LTD.	<u> </u>	Validity of Calibr	ration Record	2-Oct-21
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 Sensitiv	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	734 CPM	
	Ca	alibration of 1 h	r TSP		
Calibration	Laser Dust Monito	r		HVS	
Point	Mass Concentration (μg. X-axis	/m3)	Mas	ss concentration (μ Y-axis	.g/m ³)
1	66.0			131.0	
2	57.0			125.0	
3	46.0			116.0	
Average	56.3			124.0	
Slope , mw = Correlation co			ept, bw =	81.6096	
Particaulate Con	centration by High Volume Sampler		actor	124.0	
	centration by Dust Meter (µg/m³)	(1-8)	56.3		
Measureing time			60.0		
Set Correlation F	Factor, SCF				
SCF = [K=Higl	h Volume Sampler / Dust Meter, (μ	ıg/m3)]	2.2		
The Dust Monitor Factor (CF) betw	in according to the instruction manuor was compared with a calibrated Hiveen the Dust Monitor and High Voluers are weighted by HOKLAS labelets.	gh Volume Samp ıme Sampler.		was used to gener	ate the Correlation
Calibrated by: Technica	al Officer (Wong Shing Kwai)	_	Approved by:	Ct Manager (Henry	Leung)



Certificate of Calibration

Description:	Digital Dust Indicator			Date of Calibration 2-Aug-21		
Manufacturer:	Sibata Scienti	fic Technology LTD.	<u> </u>	Validity of Calibr	ration Record	2-Oct-21
Model No.:	LD-5R					
Serial No.:	972780					
Equipment No.:	SA-01-09		Sensitivity	0.001 mg/m3	•	
High Volume Sa	mpler No.:	A-01-03	Before Sensit	ivity Adjustment	739 CPM	
Tisch Calibration	Orifice No.:	3864	After Sensitiv	rity Adjustment	739 CPM	
		Ca	libration of 1 h	nr TSP		
Calibration		Laser Dust Monitor			HVS	
Point	М	ass Concentration (μg/ X-axis	m3)	Mas	s concentration (µ Y-axis	ug/m ³)
1		56.0			131.0	
2		53.0			125.0	
3		47.0			116.0	
Average		52.0			124.0	
By Linear Regressions Slope, mw = Correlation co	1.642	0.9972		ccept, bw =	38.5714	
- · · · ·			t Correlation 1	Factor I		
	•	High Volume Sampler (μg/m³)		124.0	
Measureing time	•	Oust Meter (μg/m³)			52.0 60.0	
Set Correlation F				<u>l</u>	00.0	
		npler / Dust Meter, (μ	g/m3)]	2.4		
The Dust Monitor Factor (CF) betw	or was compare een the Dust N	o the instruction manual of with a calibrated Hig Monitor and High Voluted by HOKLAS laborated	gh Volume Sam me Sampler.		was used to gener	ate the Correlation
Calibrated by:	_	ng Shing Kwai)	_		t Manager (Henry	/ }



Certificate of Calibration

Description:	Digital Dust Indicator		Date	of Calibration	2-Aug-21
Manufacturer:	Sibata Scientific Technology LTD.	<u>-</u>	Validity of Calibr	ation Record	2-Oct-21
Model No.:	LD-5R				
Serial No.:	972779				
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitivi	ty Adjustment	744 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μg/n X-axis	m3)	Mas	s concentration (μ Y-axis	g/m ³)
1	60.0			131.0	
2	55.0			125.0	
3	48.0			116.0	
Average	54.3			124.0	
Slope , mw = Correlation co	1.2523 pefficient* = 0.9998		cept, bw =	55.9587	
	Sec	t Correlation F	actor		
	centration by High Volume Sampler ($(\mu g/m^3)$		124.0	
	centration by Dust Meter (µg/m³)		54.3		
Measureing time				60.0	
Set Correlation F SCF = [K=HigI	ractor , SCF h Volume Sampler / Dust Meter, (με	g/m3)]	2.3		
The Dust Monitor Factor (CF) betw	in according to the instruction manual or was compared with a calibrated Hig ween the Dust Monitor and High Volumers are weighted by HOKLAS labor	gh Volume Sam _l me Sampler.		was used to gener	ate the Correlation
Calibrated by:	m		Approved by:	\-Pa	- (X)27

Digital Dust Indicator



Date of Calibration 2-Aug-21

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ation Record	2-Oct-21
Model No.:	LD-5R					
Serial No.:	972778					
Equipment No.:	SA-01-07		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	735 CPM	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	N.	Iass Concentration (μg/1	m3)	Mas	ss concentration (µ	ıg/m³)
1		X-axis			Y-axis	
2		61.0 56.0			131.0 125.0	
3		48.0			116.0	
Average		55.0			124.0	
By Linear Regr Slope , mw = Correlation co	1.15		Interc	ept, bw =	60.6860	
		Set	t Correlation F	actor		
Particaulate Con	centration by I	High Volume Sampler ($\mu g/m^3$)		124.0	
Particaulate Con	centration by I	Oust Meter (μg/m ³)		55.0		
Measureing time					60.0	
Set Correlation F SCF = [K=HigI	•	npler / Dust Meter, (με	g/m3)]	2.3		
The Dust Monitor Factor (CF) betw	or was compare veen the Dust I	to the instruction manual to the instruction manual to with a calibrated High Monitor and High Volunted by HOKLAS laborated	gh Volume Samp me Sampler.		was used to gener	rate the Correlation
Calibrated by: Technica		ng Shing Kwai)	-		t Manager (Henry	, (

Digital Dust Indicator



Date of Calibration 2-Aug-21

Certificate of Calibration

Description:

Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	ntion Record	2-Oct-21
Model No.:	LD-5R					
Serial No.:	8Y2373					
Equipment No.:	SA-01-05		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensitiv	vity Adjustment	657	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	657	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	М	ass Concentration (μg/1 X-axis	m3)	Mass	s concentration (µ Y-axis	.g/m ³)
1		57.0			131.0	
2		51.0			125.0	
3		45.0			116.0	
Average		51.0			124.0	
By Linear Regr Slope , mw = Correlation co	1.250		Interd	eept, bw =	60.2500	
		Set	Correlation F	actor		
Particaulate Con	centration by I	High Volume Sampler ($\mu g/m^3$)		124.0	
Particaulate Con	centration by I	Oust Meter (μg/m ³)		51.0		
Measureing time	e, (min)			60.0		
Set Correlation I SCF = [K=Higl		npler / Dust Meter, (με	g/m3)]	2.4		
The Dust Monitor Factor (CF) betw	or was compare yeen the Dust N pers are weigh	o the instruction manual of with a calibrated High Monitor and High Volunted by HOKLAS labo	gh Volume Samp me Sampler.		,	ate the Correlation
		ng Shing Kwai)	_	_	Manager (Henry	

Digital Dust Indicator



2-Aug-21

Date of Calibration

Certificate of Calibration

Description:

*			
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibr	ration Record 2-Oct-21
Model No.:	LD-5R		
Serial No.:	8Y2374		
Equipment No.:	SA-01-04	Sensitivity 0.001 mg/m3	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	652
Tisch Calibration	n Orifice No.: 3864	After Sensitivity Adjustment	652
	Ca	libration of 1 hr TSP	
Calibration	Laser Dust Monitor	r	HVS
Point	Mass Concentration (μg/	/m3) Mas	ss concentration (μg/m ³)
	X-axis		Y-axis
1	67.0		131.0
2	61.0		125.0
3	53.0		116.0
Average	60.3		124.0
Slope , mw = Correlation co			59.1824
Dantiagulata Com	Se acentration by High Volume Sampler	t Correlation Factor	124.0
	acentration by Dust Meter (µg/m³)	(μg/m)	124.0 60.3
Measureing time			60.0
Set Correlation I	· · · · · · · · · · · · · · · · · · ·		00.0
	h Volume Sampler / Dust Meter, (μ	g/m3)] 2.1	
The Dust Monitor Factor (CF) betw	I in according to the instruction manusor was compared with a calibrated Higween the Dust Monitor and High Volumers are weighted by HOKLAS laborations.	gh Volume Sampler and The result ime Sampler.	was used to generate the Correlation
Calibrated by:	al Officer (Wong Shing Kwai)	Approved by:	t Manager (Henry Leung)



Equipment no.: N-13-03

Calibration Certificate

0025248

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code: SVEC09005

Date of calibration:

Date of the recommended re-calibration:

05/11/2020 05/11/2021

Object 1:

ST-120 sound calibrator

Serial No. /Ref. No. : 181001637

Object 2:

Serial No. /Ref. No. :

Manufacturer: Soundtek

Certificate No.: Handle by:

0025248 E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.8dB	-0.2dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s) within

the allowable deviation.

Performed by

Calibration Technician

Appleone Calibration Laboratory Ltd.

Mr. K.L. Ng

Approved by

Quality Manager

Tel: +852 2370 4437 Fax: +852 2114 0393 Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR



Equipment no.: N-13-02

Calibration Certificate

0025249

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code: SVEC09005

Date of calibration:

Date of the recommended re-calibration:

Object 1:

ST-120 sound calibrator

Serial No. /Ref. No. :

Object 2:

Serial No. /Ref. No.

Manufacturer:

Soundtek

Certificate No.:

Handle by:

0025249 E0002

181001636

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

05/11/2020

05/11/2021

Measuring equipment

index		Calibrator / Master	Traceability	
	1	Master Sound Meter, SVAN949,sn:8571	IEC61672	
	2	Sound Calibrator, SV30A sn:32580	IEC60942	

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source ..

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s) within

the allowable deviation.

Performed by

Calibration Technician

Mr. K.L. Ng

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393



Equipment no.: N-13-01

Calibration Certificate

0025247

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code:

Date of calibration:

SVEC09005

V EC09005

Date of the recommended re-calibration:

Object 1:

ST-120 sound calibrator

Serial No. /Ref. No.: 181001608

Object 2 :

Serial No. /Ref. No. :

Manufacturer :

Soundtek

Certificate No.:

0025247

Handle by:

E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	1

05/11/2020

05/11/2021

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s)

within

the allowable deviation.

Performed by

Mr. K.L. Ng

Approved by

Quality Manager

Calibration Technician



Equipment no.: N-12-03

Calibration Certificate

0024996

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code: SVEC09005

Date of calibration:

Date of the recommended re-calibration:

Object 1:

BSWA 308 SLM

Serial No. /Ref. No. : 570188 / 550850

Object 2:

Serial No. /Ref. No. :

Manufacturer: **BSWAtech**

Certificate No.:

0024996

Handle by:

E0002

Measuring results

 Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	92.9dB	-1.1dB	+/- 1.5dB	1
114.0dB	112.8dB	-1.2dB	+/- 1.5dB	1

07/10/2020

07/10/2021

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measu	ıred	val	اعيرا	(e)

(s) within

the allowable deviation.

Performed by

Calibration Technician

Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393



Equipment no.: N-12-02

Calibration Certificate

0024995

Customer :: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Object 1: Serial No. /Ref. No. :

BSWA 308 SLM 570187 / 550841

Object 2:

Serial No. /Ref. No.

Hong Kong

SVEC09005

Manufacturer:

BSWAtech

Customer Code Date of calibration:

07/10/2020

Certificate No.:

0024995

Date of the recommended re-calibration:

07/10/2021

Handle by:

E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
114.0dB	113.1dB	-0.9dB	+/- 1.5dB	1

Measuring equipment

index		Calibrator / Master	Traceability
	1	Master Sound Meter, SVAN949,sn:8571	IEC61672
	2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s)

the allowable deviation.

Performed by

Mr. K.L. Ng

Approved by

Mr. K.S. Na

Calibration Technician

Quality Manager



Equipment no.: N-12-01

Calibration Certificate

0024993

Customer:

Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street, Shatin, N.T.

Hong Kong

Customer Code:

SVEC09005

Date of calibration:

Date of the recommended re-calibration:

Object 1:

BSWA 308 SLM

Serial No. /Ref. No. :

570183 / 550233

Object 2:

Serial No. /Ref. No. :

Manufacturer:

BSWAtech

Certificate No.:

Handle by:

0024993 E0002

Measuring results

Reference	value	Indication value	Deviation	Allowed deviation	Object
94.0	dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0)dB	113.2dB	-0.8dB	+/- 1.5dB	1

07/10/2020

07/10/2021

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s)

within

the allowable deviation.

Performed by

Calibration Technician

Mr. K.L. Ng

Approved by

Mr. K.S. N

Quality Manager

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393



File No. MA16034/54/0031

Project No.	AM4(A) - Cha I	Kwo Ling Public	Cargo Working A	rea Administra	tive Office				
Date:	10-Aug-21		Next Due Date:	10-	Oct-21	Operator:	SK		
Equipment No.:	A-0	1-54	Model No.:	TE	5-5170	Serial No.	1536		
			Ambient C	ondition					
Temperatu	re, Ta (K)	302	Pressure, Pa	(mmHg)		754.3			
Orifice Transfer Standard Information									
Serial	1	3864	Slope, mc	0.05846	Intercept		-0.00313		
Last Calibra	1	11-Jan-21			$c = [\Delta H \times (Pa/760)]$				
Next Calibra	ation Date:	11-Jan-22	($2std = \{ \Delta H x \}$	(Pa/760) x (298/7	[a)] ^{1/2} -bc} / n	<u>1C</u>		
			Calibration of T	CCD Commission					
		0-	Calibration of Trice	isr sampier		HVS			
Calibration Point	ΔH (orifice),		50) x (298/Ta)] ^{1/2}	Qstd (CFM)	ΔW (HVS), in.	[ΔW x (Pa/7	60) x (298/Ta)] ^{1/2}		
	in. of water			X - axis	of water		Y-axis		
1	13.4	1	3.62	62.02	9.4		3.03		
2	10.8		3.25	55.69	7.2		2.66		
3	7.6		2.73	46.72	5.1		2.23		
5	5.6 3.0		2.34 1.71	40.11 29.37	3.6 1.9		1.88		
Slope, mw = Correlation		0.	.9994 calibrate.	-	-0.142	4			
C 4 TOD E			Set Point Ca	llculation					
	eld Calibration C	,							
From the Regres	sion Equation, th	ie "Y" value acco	ording to						
mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$									
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 4.25$									
Remarks:									
Conducted by:	Wong Sh	ing Kwai	Signature:	X	<u></u>	Date:	10-Aug-21		
Checked by:	Henry	Leung	Signature:	- lem	Jan _	Date:	10-Aug-21		



File No. MA16034/03/0031

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	10-Aug-21		Next Due Date:	10-	Oct-21	Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatur	re Ta (K)	302	Pressure, Pa			754.3	
Temperatu	ic, ia (K)	302	Tressure, Ta	(IIIIIIIIg)		754.5	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05846	Intercept	t, bc	-0.00313
Last Calibra	ation Date:	11-Jan-21		nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$		2
Next Calibra		11-Jan-22			(Pa/760) x (298/		
	•						
			Calibration of T	ΓSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} '-axis
1	13.2		3.60	61.56	9.0		2.97
2	10.2		3.16	54.12	6.8	:	2.58
3	8.0		2.80	47.93	5.4		2.30
4	5.4		2.30	39.39	3.5		1.85
5	2.9		1.69	28.88	2.0		1.39
Slope , mw = Correlation		0	.9994		-0.025	51	
From the TSP Fi	eld Calibration (Curve_take Ostd		ilculation			
	sion Equation, th						
rom the regres	sion Equation, ti	ic i varae ace	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	4.31		
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:	X	<u></u>	Date:	10-Aug-21
Checked by:	Henry	Leung	Signature:	- lem	y day_	Date:	10-Aug-21



File No. MA16034/08/0031

Project No.	AM2 - Sai Tso	Wan Recreation	Ground			-	
Date:	10-A	ug-21	Next Due Date:	10-	Oct-21	Operator:	SK
Equipment No.:	A-(01-08	Model No.:	GS	S2310	Serial No.	1287
						_	
	T		Ambient C	Condition			
Temperatur	re, Ta (K)	302	Pressure, Pa	(mmHg)		754.3	
		0	Gas Tuansfor C4s	ndoud Inform	-4: ou		
Serial	No	3864	Slope, mc	0.05846	Intercept	t he	-0.00313
Last Calibra		11-Jan-21			$c = [\Delta H \times (Pa/760]]$		
Next Calibra		11-Jan-22			(Pa/760) x (298/7		
			Calibration of	TSP 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		60) x (298/Ta)] ^{1/2} Y-axis
1	13.4	3	3.62	62.02	9.0		2.97
2	10.2	3	3.16	54.12	6.4		2.50
3	7.9	2	2.78	47.63	4.9		2.19
4	5.1	2	2.23	38.28	3.3		1.80
5	3.0		1.71	29.37	2.0		1.40
	0.0472 coefficient* =	0.	9976	Intercept, bw =	-0.014	17	
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.				
			Set Point C	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, t	he "Y" value acco	ording to				
		mw v O	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	х (Ра/760) х (29	98/Ta)1 ^{1/2}		
		mw x Q		(1 a/ 700) A (2)	70/1 <i>a)</i> j		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (Ta / 298) =	4.15		
Remarks:							
•							
				,	1		
Conducted by:	Wong Sl	ning Kwai	Signature:	X	7	Date:	10-Aug-21
conducted by.	THOIR BI	5 1211411	Digitature.			. Date	10 /1ug-21
Checked by:	Henry	Leung	Signature:	- lem	y day	Date:	10-Aug-21



File No. MA16034/05/0031

Project No.	AM1 - Tin Hau	Temple						
Date:	10-Aug-21		Next Due Date:	10-	Oct-21	Operator:	SK	
Equipment No.:	A-0	1-05	Model No.:	GS2310		Serial No.	10599	
			•			·		
	Ambient Condition							
Temperatu	re, Ta (K)	302	Pressure, Pa	(mmHg)		754.3		
C	N.		fice Transfer Star			1	0.00212	
Serial		3864	Slope, mc	0.05846	Intercept $c = [\Delta H \times (Pa/760)]$		-0.00313	
Last Calibra Next Calibra		11-Jan-21 11-Jan-22			$(Pa/760) \times (298/7)$			
Next Callol	ation Date.	11-Jan-22	`	Zetu ([ΔΠ X	(1 a/ /00) X (2)0/	[a) ₁ -bc ₃ / II		
		•	Calibration of T	ΓSP Sampler				
Calibration		Or	fice	1		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		60) x (298/Ta)] ^{1/2} Y-axis	
1	13.2		3.60	61.56	9.6		3.07	
2	9.6		3.07	52.50	7.4		2.69	
3	7.4		2.69	46.10	5.4		2.30	
4	5.2		2.26	38.66	3.4		1.82	
5	3.0		1.71	29.37	2.0		1.40	
By Linear Regression of Y on X Slope , mw =								
			Set Point Ca	lculation				
	eld Calibration C	,						
From the Regres	sion Equation, th	ie "Y" value acc	ording to					
mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$								
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 4.57$								
Remarks:								
Conducted by:	Wong Sh	ing Kwai	Signature:	X	<u> </u>	Date:	10-Aug-21	
Checked by:	Henry	Leung	Signature:	- lem	Jan _	Date:	10-Aug-21	

APPENDIX C WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity $(\%)^2$	Precipitation (mm) ³
1-Sep-21	28.7	85	5.9
2-Sep-21	29.5	80	0.0
3-Sep-21	29.8	79	Trace
4-Sep-21	29.8	79	0.9
5-Sep-21	29.8	79	Trace
6-Sep-21	29.7	77	0.0
7-Sep-21	30.1	78	0.2
8-Sep-21	30.6	74	0.0
9-Sep-21	30.1	73	0.0
10-Sep-21	30.5	71	0.0
11-Sep-21	30.5	75	0.0
12-Sep-21	31.2	76	0.0
13-Sep-21	30.9	77	0.0
14-Sep-21	29.0	83	33.8
15-Sep-21	30.2	75	0.0
16-Sep-21	29.2	77	Trace
17-Sep-21	29.5	77	7.6
18-Sep-21	30.2	79	0.2
19-Sep-21	29.3	86	21.2
20-Sep-21	29.3	84	9.4
21-Sep-21	29.0	82	10.2
22-Sep-21	30.3	77	0.5
23-Sep-21	28.0	87	38.4
24-Sep-21	29.4	81	1.2
25-Sep-21	29.6	76	0.1
26-Sep-21	29.1	72	0.0
27-Sep-21	29.5	75	0.0
28-Sep-21	29.6	75	0.0
29-Sep-21	29.7	77	0.0
30-Sep-21	30.3	78	0.0

(Reporting Month: September 2021)

Remarks:

Source - Hong Kong Observatory

 $^{^{1\}text{--}3} Retrieved \ from \ Manned \ Weather \ Station \ (Hong \ Kong \ Observatory) \ (22^{\circ}18'07" \ N, \ 114^{\circ}10'27" \ E)$

September 2021					
	Wind Speed a	and Directions			
Date	Time	Wind Speed m-s	Direction		
1 Sep 2021	12:00 AM	WNW	2.1		
1 Sep 2021	1:00 AM	WNW	1.2		
1 Sep 2021	2:00 AM	WNW	1.2		
1 Sep 2021	3:00 AM	W	1.7		
1 Sep 2021	4:00 AM	WNW	2.1		
1 Sep 2021	5:00 AM	W	1.2		
1 Sep 2021	6:00 AM	W	1.2		
1 Sep 2021	7:00 AM	WNW	1.7		
1 Sep 2021	8:00 AM	WNW	2.1		
1 Sep 2021	9:00 AM	WNW	1.7		
1 Sep 2021	10:00 AM	W	2.1		
1 Sep 2021	11:00 AM	WNW	2.6		
1 Sep 2021	12:00 PM	W	2.1		
1 Sep 2021	1:00 PM	WNW	1.7		
1 Sep 2021	2:00 PM	WNW	1.7		
1 Sep 2021	3:00 PM	WNW	2.1		
1 Sep 2021	4:00 PM	WNW	1.7		
1 Sep 2021	5:00 PM	WNW	2.1		
1 Sep 2021	6:00 PM	WNW	1.7		
1 Sep 2021	7:00 PM	W	1.7		
1 Sep 2021	8:00 PM	W	1.7		
1 Sep 2021	9:00 PM	W	1.7		
1 Sep 2021	10:00 PM	NW	1.2		
1 Sep 2021	11:00 PM	W	1.7		
2 Sep 2021	12:00 AM	W	1.7		
2 Sep 2021	1:00 AM	ESE	0.8		
2 Sep 2021	2:00 AM	SE	1.2		
2 Sep 2021	3:00 AM	Е	1.2		
2 Sep 2021	4:00 AM	ESE	1.2		
2 Sep 2021	5:00 AM	ESE	1.2		
2 Sep 2021	6:00 AM	Е	0.8		
2 Sep 2021	7:00 AM	Е	1.2		
2 Sep 2021	8:00 AM	Е	1.2		
2 Sep 2021	9:00 AM	ESE	1.2		
2 Sep 2021	10:00 AM	Е	1.2		
2 Sep 2021	11:00 AM	ESE	1.7		
2 Sep 2021	12:00 PM	E	1.2		
2 Sep 2021	1:00 PM	W	1.7		
2 Sep 2021	2:00 PM	W	1.7		
2 Sep 2021	3:00 PM	W	2.6		
2 Sep 2021	4:00 PM	WNW	2.1		
2 Sep 2021	5:00 PM	NNW	2.1		
2 Sep 2021	6:00 PM	W	1.7		
2 Sep 2021	7:00 PM	W	1.2		
2 Sep 2021	8:00 PM	W	1.2		
2 Sep 2021	9:00 PM	W	1.2		
2 Sep 2021	10:00 PM	WNW	1.2		
2 Sep 2021	11:00 PM	WNW	1.2		
3 Sep 2021	12:00 AM	WNW	1.2		
3 Sep 2021	1:00 AM	W	1.2		
3 Sep 2021	2:00 AM	W	1.7		
3 Sep 2021	3:00 AM	E	1.2		
3 Sep 2021	4:00 AM	WNW	1.2		
3 Sep 2021	5:00 AM	W	0.8		
3 Sep 2021	6:00 AM	WNW	0.8		
3 Sep 2021	7:00 AM	W	0.8		
3 Sep 2021	8:00 AM	SE	0.8		

	Septemb	per 2021	
	Wind Speed a		
Date	Time	Wind Speed m-s	Direction
3 Sep 2021	9:00 AM	W	0.8
3 Sep 2021	10:00 AM	NW	0.3
3 Sep 2021	11:00 AM	Е	0.8
3 Sep 2021	12:00 PM	Е	0.8
3 Sep 2021	1:00 PM	Е	1.2
3 Sep 2021	2:00 PM	W	0.8
3 Sep 2021	3:00 PM	WNW	2.1
3 Sep 2021	4:00 PM	W	1.7
3 Sep 2021	5:00 PM	W	1.2
3 Sep 2021	6:00 PM	WNW	2.1
3 Sep 2021	7:00 PM	WNW	1.7
3 Sep 2021	8:00 PM	WNW	1.2
3 Sep 2021	9:00 PM	W	1.2
3 Sep 2021	10:00 PM	W	0.8
3 Sep 2021	11:00 PM	WNW	0.8
4 Sep 2021	12:00 AM	W	0.8
4 Sep 2021	1:00 AM	NW	0.8
4 Sep 2021	2:00 AM	W	0.8
4 Sep 2021	3:00 AM	W	0.3
4 Sep 2021 4 Sep 2021	4:00 AM	WNW	1.2
4 Sep 2021	5:00 AM	NE	0.8
4 Sep 2021 4 Sep 2021	1	SE	0.3
_	6:00 AM	SE SE	
4 Sep 2021	7:00 AM	ESE	0.0
4 Sep 2021	8:00 AM		0.8
4 Sep 2021	9:00 AM	E	0.8
4 Sep 2021	10:00 AM	E	0.8
4 Sep 2021	11:00 AM	W	0.3
4 Sep 2021	12:00 PM	WNW	0.8
4 Sep 2021	1:00 PM	WNW	1.2
4 Sep 2021	2:00 PM	WNW	1.7
4 Sep 2021	3:00 PM	WNW	1.2
4 Sep 2021	4:00 PM	NW	1.2
4 Sep 2021	5:00 PM	WNW	1.2
4 Sep 2021	6:00 PM	WNW	1.7
4 Sep 2021	7:00 PM	WNW	1.7
4 Sep 2021	8:00 PM	W	0.8
4 Sep 2021	9:00 PM	W	0.8
4 Sep 2021	10:00 PM	NW	0.8
4 Sep 2021	11:00 PM	NW	1.7
5 Sep 2021	12:00 AM	NW	1.2
5 Sep 2021	1:00 AM	NW	0.8
5 Sep 2021	2:00 AM	NW	0.0
5 Sep 2021	3:00 AM		0.0
5 Sep 2021	4:00 AM	WNW	0.0
5 Sep 2021	5:00 AM	WNW	0.0
5 Sep 2021	6:00 AM	WNW	0.3
5 Sep 2021	7:00 AM		0.0
5 Sep 2021	8:00 AM	NW	0.0
5 Sep 2021	9:00 AM	NW	0.3
5 Sep 2021	10:00 AM	Е	1.2
5 Sep 2021	11:00 AM	NW	1.2
5 Sep 2021	12:00 PM	NW	0.8
5 Sep 2021	1:00 PM	NW	1.2
5 Sep 2021	2:00 PM	NW	1.7
5 Sep 2021	3:00 PM	NW	2.6
5 Sep 2021	4:00 PM	NW	1.7
5 Sep 2021	5:00 PM	SE	1.2
		~-	

September 2021					
	Wind Speed a	and Directions			
Date	Time	Wind Speed m-s	Direction		
5 Sep 2021	6:00 PM	SE	0.8		
5 Sep 2021	7:00 PM	ESE	1.2		
5 Sep 2021	8:00 PM	ESE	0.8		
5 Sep 2021	9:00 PM	ESE	0.8		
5 Sep 2021	10:00 PM	ESE	0.3		
5 Sep 2021	11:00 PM	NW	0.8		
6 Sep 2021	12:00 AM	SE	0.3		
6 Sep 2021	1:00 AM	SE	1.2		
6 Sep 2021	2:00 AM	SE	1.7		
6 Sep 2021	3:00 AM	SE	1.2		
6 Sep 2021	4:00 AM	SE	0.8		
6 Sep 2021	5:00 AM	SE	0.0		
6 Sep 2021	6:00 AM	SE	0.0		
6 Sep 2021	7:00 AM	WNW	0.0		
6 Sep 2021	8:00 AM	WNW	0.3		
6 Sep 2021	9:00 AM	NW	1.2		
6 Sep 2021	10:00 AM	NW	1.7		
6 Sep 2021	11:00 AM	NW	2.1		
6 Sep 2021	12:00 PM	NW	2.1		
6 Sep 2021	1:00 PM	NW	2.6		
6 Sep 2021	2:00 PM	NW	0.8		
6 Sep 2021	3:00 PM	NW	1.2		
6 Sep 2021	4:00 PM	NW	2.1		
6 Sep 2021	5:00 PM	NW	2.6		
6 Sep 2021	6:00 PM	NW	0.8		
6 Sep 2021	7:00 PM	NW	0.3		
6 Sep 2021	8:00 PM	W	0.8		
6 Sep 2021	9:00 PM	NW	1.2		
6 Sep 2021	10:00 PM	W	0.8		
6 Sep 2021	11:00 PM	W	0.3		
7 Sep 2021	12:00 AM	W	0.3		
7 Sep 2021	1:00 AM	W	0.8		
7 Sep 2021	2:00 AM	W	0.3		
7 Sep 2021	3:00 AM	SE	0.3		
7 Sep 2021	4:00 AM	ESE	0.3		
7 Sep 2021	5:00 AM	WNW	0.0		
7 Sep 2021	6:00 AM	WNW	0.0		
7 Sep 2021	7:00 AM	WNW	0.3		
7 Sep 2021	8:00 AM	NW	0.8		
7 Sep 2021	9:00 AM	NW	0.8		
7 Sep 2021	10:00 AM	NW	0.8		
7 Sep 2021	11:00 AM	SE	0.8		
7 Sep 2021	12:00 PM	NW	1.2		
7 Sep 2021	1:00 PM	NW	2.1		
7 Sep 2021	2:00 PM	NW	2.6		
7 Sep 2021	3:00 PM	NW	3.0		
7 Sep 2021	4:00 PM	NW	3.5		
7 Sep 2021	5:00 PM	NW	3.0		
7 Sep 2021	6:00 PM	NW	2.6		
7 Sep 2021	7:00 PM	NW	2.1		
7 Sep 2021	8:00 PM	NW	2.6		
7 Sep 2021	9:00 PM	NW	2.6		
7 Sep 2021	10:00 PM	NW	1.2		
7 Sep 2021	11:00 PM	NW	1.7		
8 Sep 2021	12:00 AM	NW	1.7		
8 Sep 2021	1:00 AM	NW	1.7		
8 Sep 2021	2:00 AM	NW	1.2		

September 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
8 Sep 2021	3:00 AM	NW	1.7			
8 Sep 2021	4:00 AM	NW	1.7			
8 Sep 2021	5:00 AM	NW	1.2			
8 Sep 2021	6:00 AM	NW	2.1			
8 Sep 2021	7:00 AM	NW	2.1			
8 Sep 2021	8:00 AM	NW	2.1			
8 Sep 2021	9:00 AM	NW	2.1			
8 Sep 2021	10:00 AM	NW	2.1			
8 Sep 2021	11:00 AM	NW	3.0			
8 Sep 2021	12:00 PM	NW	3.0			
8 Sep 2021	1:00 PM	NNW	1.2			
8 Sep 2021	2:00 PM	NW	2.1			
8 Sep 2021	3:00 PM	NW	2.1			
8 Sep 2021	4:00 PM	WNW	1.2			
8 Sep 2021	5:00 PM	WNW	1.2			
8 Sep 2021	6:00 PM	WNW	0.8			
8 Sep 2021	7:00 PM	WNW	0.8			
8 Sep 2021	8:00 PM	W	0.8			
8 Sep 2021	9:00 PM	WNW	0.8			
8 Sep 2021	10:00 PM	WNW	0.8			
8 Sep 2021	11:00 PM	W	0.8			
9 Sep 2021	12:00 AM	W	0.8			
9 Sep 2021	1:00 AM	W	0.3			
9 Sep 2021	2:00 AM	W	0.3			
9 Sep 2021	3:00 AM	WNW	0.8			
9 Sep 2021	4:00 AM	W	0.3			
9 Sep 2021	5:00 AM	W	0.3			
9 Sep 2021	6:00 AM	NW	0.8			
9 Sep 2021	7:00 AM	W	0.3			
9 Sep 2021	8:00 AM	W	0.8			
9 Sep 2021	9:00 AM	NNW	0.8			
9 Sep 2021	10:00 AM	NW	0.8			
9 Sep 2021	11:00 AM	NW	2.1			
9 Sep 2021	12:00 PM	NW	3.5			
9 Sep 2021	1:00 PM	NW	3.5			
9 Sep 2021	2:00 PM	NW	4.8			
9 Sep 2021	3:00 PM	NW	4.4			
9 Sep 2021	4:00 PM	NW	3.9			
9 Sep 2021	5:00 PM	NW	3.5			
9 Sep 2021	6:00 PM	NW	3.0			
9 Sep 2021	7:00 PM	NW	2.6			
9 Sep 2021	8:00 PM	NW	1.7			
9 Sep 2021	9:00 PM	NW	2.1			
9 Sep 2021	10:00 PM	NW	1.7			
9 Sep 2021	11:00 PM	NW	0.8			
10 Sep 2021	12:00 AM	NW	0.8			
10 Sep 2021	1:00 AM	NW	0.3			
10 Sep 2021	2:00 AM	NNW	0.8			
10 Sep 2021	3:00 AM	NNW	0.3			
10 Sep 2021	4:00 AM	E	0.0			
10 Sep 2021	5:00 AM	NW	0.3			
10 Sep 2021	6:00 AM	SE	0.0			
10 Sep 2021	7:00 AM	SE	0.3			
10 Sep 2021	8:00 AM	SE	0.8			
10 Sep 2021	9:00 AM	ESE	0.8			
10 Sep 2021	10:00 AM	E	0.8			
10 Sep 2021	11:00 AM	WNW	0.3			

September 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
10 Sep 2021	12:00 PM	Е	0.8			
10 Sep 2021	1:00 PM	NNW	1.7			
10 Sep 2021	2:00 PM	NW	4.4			
10 Sep 2021	3:00 PM	NW	3.9			
10 Sep 2021	4:00 PM	NW	4.8			
10 Sep 2021	5:00 PM	NW	4.4			
10 Sep 2021	6:00 PM	NW	3.5			
10 Sep 2021	7:00 PM	NW	3.5			
10 Sep 2021	8:00 PM	NW	2.6			
10 Sep 2021	9:00 PM	NW	2.6			
10 Sep 2021	10:00 PM	NW	1.2			
10 Sep 2021	11:00 PM	W	0.8			
11 Sep 2021	12:00 AM	WNW	0.3			
11 Sep 2021	1:00 AM	WNW	0.8			
11 Sep 2021	2:00 AM	NW	0.8			
11 Sep 2021	3:00 AM	NW	0.8			
11 Sep 2021	4:00 AM	W	0.3			
11 Sep 2021	5:00 AM	W	0.3			
11 Sep 2021	6:00 AM	W	0.3			
11 Sep 2021	7:00 AM	NW	0.3			
11 Sep 2021	8:00 AM	W	0.3			
11 Sep 2021	9:00 AM	WNW	0.8			
11 Sep 2021	10:00 AM	NW	1.7			
11 Sep 2021	11:00 AM	NW	3.5			
11 Sep 2021	12:00 PM	NW	1.7			
11 Sep 2021	1:00 PM	NW	4.4			
11 Sep 2021	2:00 PM	NW	5.3			
11 Sep 2021	3:00 PM	NW	5.3			
11 Sep 2021	4:00 PM	NW	3.0			
11 Sep 2021	5:00 PM	NW	3.0			
11 Sep 2021	6:00 PM	NW	3.0			
11 Sep 2021	7:00 PM	NW	3.0			
11 Sep 2021	8:00 PM	NW	1.7			
11 Sep 2021	9:00 PM	NW	2.1			
11 Sep 2021	10:00 PM	NW	2.1			
11 Sep 2021	11:00 PM	NW	2.6			
12 Sep 2021	12:00 AM	NW	2.1			
12 Sep 2021	1:00 AM	NW	1.2			
12 Sep 2021	2:00 AM	NW	0.8			
12 Sep 2021	3:00 AM	NW	1.7			
12 Sep 2021	4:00 AM	NW	0.8			
12 Sep 2021	5:00 AM	NW	0.0			
12 Sep 2021	6:00 AM	ESE	0.3			
12 Sep 2021	7:00 AM	SE	0.3			
12 Sep 2021	8:00 AM	W	0.3			
12 Sep 2021	9:00 AM	NW	1.2			
12 Sep 2021	10:00 AM	NW	1.7			
12 Sep 2021	11:00 AM	NW	2.6			
12 Sep 2021	12:00 PM	NW	3.0			
12 Sep 2021	1:00 PM	NW	2.6			
12 Sep 2021	2:00 PM	NW	2.6			
12 Sep 2021	3:00 PM	NW	3.9			
12 Sep 2021	4:00 PM	NW	3.9			
12 Sep 2021	5:00 PM	NW	4.4			
12 Sep 2021	6:00 PM	NW	3.5			
12 Sep 2021	7:00 PM	W	0.8			
12 Sep 2021	8:00 PM	NW	0.8			

September 2021					
	Wind Speed a	and Directions			
Date	Time	Wind Speed m-s	Direction		
12 Sep 2021	9:00 PM	NW	0.8		
12 Sep 2021	10:00 PM	NW	1.2		
12 Sep 2021	11:00 PM	W	0.8		
13 Sep 2021	12:00 AM	WNW	0.3		
13 Sep 2021	1:00 AM	NW	0.8		
13 Sep 2021	2:00 AM	W	0.3		
13 Sep 2021	3:00 AM	W	0.3		
13 Sep 2021	4:00 AM	WNW	0.0		
13 Sep 2021	5:00 AM	WNW	0.3		
13 Sep 2021	6:00 AM	W	0.3		
13 Sep 2021	7:00 AM	NW	0.8		
13 Sep 2021	8:00 AM	W	0.8		
13 Sep 2021	9:00 AM	WSW	0.3		
13 Sep 2021	10:00 AM	NW	0.3		
13 Sep 2021	11:00 AM	NW	0.8		
13 Sep 2021	12:00 PM	NNW	0.8		
13 Sep 2021	1:00 PM	NNW	1.2		
13 Sep 2021	2:00 PM	NNW	1.2		
13 Sep 2021	3:00 PM	W	1.2		
13 Sep 2021	4:00 PM	WNW	0.3		
13 Sep 2021	5:00 PM	NW	1.2		
13 Sep 2021	6:00 PM	NW	1.7		
13 Sep 2021	7:00 PM	NW	1.2		
13 Sep 2021	8:00 PM	SE	0.3		
13 Sep 2021	9:00 PM	SE	0.3		
13 Sep 2021	10:00 PM	ESE	0.8		
13 Sep 2021	11:00 PM	ESE	0.3		
14 Sep 2021	12:00 AM	NNW	0.8		
14 Sep 2021	1:00 AM	NNW	0.8		
14 Sep 2021	2:00 AM	NW	1.2		
14 Sep 2021	3:00 AM	NW	0.3		
14 Sep 2021	4:00 AM	N	0.0		
14 Sep 2021	5:00 AM	NW	0.3		
14 Sep 2021	6:00 AM	NW	0.0		
14 Sep 2021	7:00 AM	NW	0.3		
14 Sep 2021	8:00 AM	SE	0.3		
14 Sep 2021	9:00 AM	Е	0.8		
14 Sep 2021	10:00 AM	W	1.2		
14 Sep 2021	11:00 AM	WNW	1.2		
14 Sep 2021	12:00 PM	NW	1.2		
14 Sep 2021	1:00 PM	WNW	1.2		
14 Sep 2021	2:00 PM	W	1.2		
14 Sep 2021	3:00 PM	NNW	2.1		
14 Sep 2021	4:00 PM	NNW	1.2		
14 Sep 2021	5:00 PM	NW	1.2		
14 Sep 2021	6:00 PM	NW	1.2		
14 Sep 2021	7:00 PM	NW	1.2		
14 Sep 2021	8:00 PM	WNW	0.8		
14 Sep 2021	9:00 PM	WNW	0.3		
14 Sep 2021	10:00 PM	WNW	0.8		
14 Sep 2021	11:00 PM	W	0.8		
15 Sep 2021	12:00 AM	W	0.8		
15 Sep 2021	1:00 AM	W	0.8		
15 Sep 2021	2:00 AM	WNW	0.8		
15 Sep 2021	3:00 AM	WNW	1.2		
15 Sep 2021	4:00 AM	WNW	0.8		
15 Sep 2021	5:00 AM	W	0.8		

September 2021					
	Wind Speed a	and Directions			
Date	Time	Wind Speed m-s	Direction		
15 Sep 2021	6:00 AM	WNW	1.2		
15 Sep 2021	7:00 AM	WNW	1.2		
15 Sep 2021	8:00 AM	WNW	1.2		
15 Sep 2021	9:00 AM	WNW	0.8		
15 Sep 2021	10:00 AM	W	0.8		
15 Sep 2021	11:00 AM	NW	1.7		
15 Sep 2021	12:00 PM	NNW	0.8		
15 Sep 2021	1:00 PM	WNW	1.2		
15 Sep 2021	2:00 PM	NW	1.2		
15 Sep 2021	3:00 PM	W	1.2		
15 Sep 2021	4:00 PM	WNW	0.8		
15 Sep 2021	5:00 PM	NW	0.8		
15 Sep 2021	6:00 PM	WNW	0.8		
15 Sep 2021	7:00 PM	WNW	0.3		
15 Sep 2021	8:00 PM	NW	0.8		
15 Sep 2021	9:00 PM	NW NY	0.8		
15 Sep 2021	10:00 PM	W	0.3		
15 Sep 2021	11:00 PM	W	0.3		
16 Sep 2021	12:00 AM	W	0.3		
16 Sep 2021	1:00 AM	W	0.3		
16 Sep 2021	2:00 AM	W	0.3		
16 Sep 2021	3:00 AM	W	0.3		
16 Sep 2021	4:00 AM	W	0.3		
16 Sep 2021	5:00 AM	SE	0.3		
16 Sep 2021	6:00 AM	ESE	0.3		
16 Sep 2021	7:00 AM	W	0.3		
16 Sep 2021	8:00 AM	SE	0.0		
16 Sep 2021	9:00 AM	SE	1.2		
16 Sep 2021	10:00 AM	ESE	1.2		
16 Sep 2021	11:00 AM	SE	0.8		
16 Sep 2021	12:00 PM	E	0.8		
16 Sep 2021	1:00 PM	NW	0.8		
16 Sep 2021	2:00 PM	NW	2.6		
16 Sep 2021	3:00 PM	NW	4.4		
16 Sep 2021	4:00 PM	NW	4.4		
16 Sep 2021	5:00 PM	NW	3.5		
16 Sep 2021	6:00 PM	NW	3.5		
16 Sep 2021	7:00 PM	NW	3.5		
16 Sep 2021	8:00 PM	NW	3.0		
16 Sep 2021	9:00 PM	NW	2.6		
16 Sep 2021	10:00 PM	NNE	0.8		
16 Sep 2021	11:00 PM	NNE	0.3		
17 Sep 2021	12:00 AM	NNE NW	0.0		
17 Sep 2021	1:00 AM		0.3		
17 Sep 2021	2:00 AM	SE	0.3		
17 Sep 2021	3:00 AM	NW NW	0.8		
17 Sep 2021	4:00 AM	NW SE	0.3		
17 Sep 2021	5:00 AM	SE SE	0.3		
17 Sep 2021	6:00 AM	SE SE			
17 Sep 2021	7:00 AM 8:00 AM	E E	0.0		
17 Sep 2021		<u>Е</u> Е	+		
17 Sep 2021	9:00 AM 10:00 AM	E E	1.7		
17 Sep 2021		E E			
17 Sep 2021	11:00 AM 12:00 PM	ESE	2.1		
17 Sep 2021 17 Sep 2021	12:00 PM 1:00 PM	SE	1.7		
	2:00 PM	NW			
17 Sep 2021	2.00 PM	IN W	0.8		

September 2021							
Wind Speed and Directions							
Date	Time	Wind Speed m-s	Direction				
17 Sep 2021	3:00 PM	NW	1.7				
17 Sep 2021	4:00 PM	NW	1.7				
17 Sep 2021	5:00 PM	NW	2.1				
17 Sep 2021	6:00 PM	NW	2.1				
17 Sep 2021	7:00 PM	NW	2.1				
17 Sep 2021	8:00 PM	NW	2.1				
17 Sep 2021	9:00 PM	NW	2.6				
17 Sep 2021	10:00 PM	NW	2.1				
17 Sep 2021	11:00 PM	NW	1.7				
18 Sep 2021	12:00 AM	NW	1.2				
18 Sep 2021	1:00 AM	NW	0.8				
18 Sep 2021	2:00 AM	NW	0.3				
18 Sep 2021	3:00 AM	ESE	0.3				
18 Sep 2021	4:00 AM	ESE	0.0				
18 Sep 2021	5:00 AM	ESE	0.0				
18 Sep 2021	6:00 AM	ESE	0.8				
18 Sep 2021	7:00 AM	ESE	0.3				
18 Sep 2021	8:00 AM	Е	0.8				
18 Sep 2021	9:00 AM	Е	1.7				
18 Sep 2021	10:00 AM	Е	1.7				
18 Sep 2021	11:00 AM	Е	2.1				
18 Sep 2021	12:00 PM	Е	2.1				
18 Sep 2021	1:00 PM	Е	2.6				
18 Sep 2021	2:00 PM	Е	1.2				
18 Sep 2021	3:00 PM	ESE	1.2				
18 Sep 2021	4:00 PM	Е	1.2				
18 Sep 2021	5:00 PM	Е	1.7				
18 Sep 2021	6:00 PM	Е	1.7				
18 Sep 2021	7:00 PM	Е	1.7				
18 Sep 2021	8:00 PM	Е	0.8				
18 Sep 2021	9:00 PM	ESE	0.8				
18 Sep 2021	10:00 PM	SE	0.3				
18 Sep 2021	11:00 PM	ESE	0.3				
19 Sep 2021	12:00 AM	SE	0.8				
19 Sep 2021	1:00 AM	ESE	0.8				
19 Sep 2021	2:00 AM	Е	1.2				
19 Sep 2021	3:00 AM	SE	1.2				
19 Sep 2021	4:00 AM	ESE	0.8				
19 Sep 2021	5:00 AM	Е	1.7				
19 Sep 2021	6:00 AM	Е	1.7				
19 Sep 2021	7:00 AM	Е	2.6				
19 Sep 2021	8:00 AM	Е	2.6				
19 Sep 2021	9:00 AM	Е	2.6				
19 Sep 2021	10:00 AM	Е	3.0				
19 Sep 2021	11:00 AM	Е	3.5				
19 Sep 2021	12:00 PM	Е	3.0				
19 Sep 2021	1:00 PM	Е	2.1				
19 Sep 2021	2:00 PM	Е	1.2				
19 Sep 2021	3:00 PM	ESE	1.7				
19 Sep 2021	4:00 PM	Е	1.7				
19 Sep 2021	5:00 PM	ESE	1.2				
19 Sep 2021	6:00 PM	SE	0.8				
19 Sep 2021	7:00 PM	SE	0.8				
19 Sep 2021	8:00 PM	ESE	1.2				
19 Sep 2021	9:00 PM	SE	1.2				
19 Sep 2021	10:00 PM	W	0.8				
19 Sep 2021	11:00 PM	SE	0.3				

September 2021							
Wind Speed and Directions							
Date	Time	Wind Speed m-s	Direction				
20 Sep 2021	12:00 AM	ESE	0.8				
20 Sep 2021	1:00 AM	SE	1.7				
20 Sep 2021	2:00 AM	ESE	1.7				
20 Sep 2021	3:00 AM	ESE	2.1				
20 Sep 2021	4:00 AM	Е	2.6				
20 Sep 2021	5:00 AM	Е	3.0				
20 Sep 2021	6:00 AM	Е	3.0				
20 Sep 2021	7:00 AM	Е	3.5				
20 Sep 2021	8:00 AM	Е	3.5				
20 Sep 2021	9:00 AM	ESE	4.8				
20 Sep 2021	10:00 AM	Е	4.4				
20 Sep 2021	11:00 AM	ESE	3.5				
20 Sep 2021	12:00 PM	ESE	2.6				
20 Sep 2021	1:00 PM	E	2.1				
20 Sep 2021	2:00 PM	ESE	2.1				
20 Sep 2021	3:00 PM	ESE	1.7				
20 Sep 2021	4:00 PM	ESE	1.7				
20 Sep 2021	5:00 PM	W	0.8				
20 Sep 2021	6:00 PM	SE	1.2				
20 Sep 2021	7:00 PM	SE	0.8				
20 Sep 2021	8:00 PM	SE	0.3				
20 Sep 2021	9:00 PM	SSE	0.8				
20 Sep 2021 20 Sep 2021	10:00 PM	ESE	0.8				
20 Sep 2021 20 Sep 2021	11:00 PM	ESE	1.2				
21 Sep 2021	12:00 AM	ESE	2.1				
21 Sep 2021 21 Sep 2021	1:00 AM	ESE	1.7				
-			1.7				
21 Sep 2021	2:00 AM	ESE	+				
21 Sep 2021	3:00 AM	ESE	2.1				
21 Sep 2021	4:00 AM 5:00 AM	E ESE	2.1				
21 Sep 2021							
21 Sep 2021	6:00 AM	ESE	1.7				
21 Sep 2021	7:00 AM	ESE	1.2				
21 Sep 2021	8:00 AM	NNW	0.8				
21 Sep 2021	9:00 AM	SE	1.7				
21 Sep 2021	10:00 AM	SE	1.7				
21 Sep 2021	11:00 AM	E	1.2				
21 Sep 2021	12:00 PM	E	1.2				
21 Sep 2021	1:00 PM	NNW	1.7				
21 Sep 2021	2:00 PM	WNW	1.7				
21 Sep 2021	3:00 PM	WNW	1.2				
21 Sep 2021	4:00 PM	WNW	1.2				
21 Sep 2021	5:00 PM	WNW	0.8				
21 Sep 2021	6:00 PM	WNW	1.2				
21 Sep 2021	7:00 PM	WNW	0.8				
21 Sep 2021	8:00 PM	WNW	0.8				
21 Sep 2021	9:00 PM	WNW	0.8				
21 Sep 2021	10:00 PM	WNW	0.3				
21 Sep 2021	11:00 PM	WNW	0.8				
22 Sep 2021	12:00 AM	WNW	0.3				
22 Sep 2021	1:00 AM	WNW	0.3				
22 Sep 2021	2:00 AM	WNW	0.3				
22 Sep 2021	3:00 AM	WNW	0.0				
22 Sep 2021	4:00 AM	SE	0.0				
22 Sep 2021	5:00 AM	SSE	0.3				
22 Sep 2021	6:00 AM	WNW	0.3				
22 Sep 2021	7:00 AM	NE	0.0				
22 Sep 2021	8:00 AM	WNW	0.3				

September 2021							
Wind Speed and Directions							
Date	Time	Wind Speed m-s	Direction				
22 Sep 2021	9:00 AM	WNW	0.3				
22 Sep 2021	10:00 AM	WNW	0.8				
22 Sep 2021	11:00 AM	Е	0.8				
22 Sep 2021	12:00 PM	ESE	0.8				
22 Sep 2021	1:00 PM	WNW	1.2				
22 Sep 2021	2:00 PM	WNW	1.2				
22 Sep 2021	3:00 PM	NNW	1.7				
22 Sep 2021	4:00 PM	NNW	1.2				
22 Sep 2021	5:00 PM	NNW	1.7				
22 Sep 2021	6:00 PM	NW	0.8				
22 Sep 2021	7:00 PM	WNW	1.2				
22 Sep 2021	8:00 PM	WNW	0.3				
22 Sep 2021	9:00 PM	WNW	0.3				
22 Sep 2021	10:00 PM	WNW	0.3				
22 Sep 2021	11:00 PM	WNW	0.3				
23 Sep 2021	12:00 AM	WNW	0.3				
23 Sep 2021	1:00 AM	WNW	0.3				
23 Sep 2021	2:00 AM	WNW	0.3				
23 Sep 2021	3:00 AM	WNW	0.3				
23 Sep 2021	4:00 AM	ESE	0.3				
23 Sep 2021	5:00 AM	SSE	0.3				
23 Sep 2021	6:00 AM	SSE	0.0				
23 Sep 2021	7:00 AM	SE	0.0				
23 Sep 2021	8:00 AM	SE	0.8				
23 Sep 2021	9:00 AM	SE	1.2				
23 Sep 2021	10:00 AM	SE	1.2				
23 Sep 2021	11:00 AM	SE	0.8				
23 Sep 2021	12:00 PM	ESE	0.8				
23 Sep 2021	1:00 PM	N	0.8				
23 Sep 2021	2:00 PM	NNW	3.5				
23 Sep 2021	3:00 PM	NNW	3.0				
23 Sep 2021	4:00 PM	NNW	3.9				
23 Sep 2021	5:00 PM	NNW	3.0				
23 Sep 2021	6:00 PM	NNW	3.0				
23 Sep 2021	7:00 PM	NNW	1.7				
23 Sep 2021	8:00 PM	WNW	0.3				
23 Sep 2021	9:00 PM	WNW	0.3				
23 Sep 2021	10:00 PM	WNW	0.3				
23 Sep 2021	11:00 PM	WNW	0.8				
24 Sep 2021	12:00 AM	WNW	0.3				
24 Sep 2021	1:00 AM	NW	0.3				
24 Sep 2021	2:00 AM	W	0.3				
24 Sep 2021	3:00 AM	W	0.3				
24 Sep 2021	4:00 AM	WNW	0.3				
24 Sep 2021	5:00 AM	WNW	0.0				
24 Sep 2021	6:00 AM		0.0				
24 Sep 2021	7:00 AM	WSW	0.0				
24 Sep 2021	8:00 AM	WNW	0.3				
24 Sep 2021	9:00 AM	WNW	0.3				
24 Sep 2021	10:00 AM	SSE	0.3				
24 Sep 2021	11:00 AM	ESE	1.2				
24 Sep 2021	12:00 PM	NNW	1.7				
24 Sep 2021	1:00 PM	NE	1.2				
24 Sep 2021	2:00 PM	NNW	0.8				
24 Sep 2021	3:00 PM	WNW	1.7				
24 Sep 2021	4:00 PM	WNW	1.2				
24 Sep 2021	5:00 PM	NNW	1.7				

September 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
24 Sep 2021	6:00 PM	NNW	1.2			
24 Sep 2021	7:00 PM	WNW	0.3			
24 Sep 2021	8:00 PM	WNW	0.3			
24 Sep 2021	9:00 PM	WNW	0.3			
24 Sep 2021	10:00 PM	WNW	0.3			
24 Sep 2021	11:00 PM	WNW	0.3			
25 Sep 2021	12:00 AM	NW	0.8			
25 Sep 2021	1:00 AM	NW	0.8			
25 Sep 2021	2:00 AM	NW	0.0			
25 Sep 2021	3:00 AM	NW	0.0			
25 Sep 2021	4:00 AM	W	0.0			
25 Sep 2021	5:00 AM	Е	0.0			
25 Sep 2021	6:00 AM	SSE	0.0			
25 Sep 2021	7:00 AM	SSE	0.0			
25 Sep 2021	8:00 AM	SSE	0.3			
25 Sep 2021	9:00 AM	SE	1.2			
25 Sep 2021	10:00 AM	SE	1.2			
25 Sep 2021	11:00 AM	ESE	0.8			
25 Sep 2021	12:00 PM	ESE	1.2			
25 Sep 2021	1:00 PM	SE	1.2			
25 Sep 2021	2:00 PM	NNW	1.7			
25 Sep 2021	3:00 PM	NNW	3.9			
25 Sep 2021	4:00 PM	NNW	3.9			
25 Sep 2021	5:00 PM	NNW	3.0			
25 Sep 2021	6:00 PM	NNW	2.1			
25 Sep 2021	7:00 PM	NNW	1.7			
25 Sep 2021	8:00 PM	WNW	0.3			
25 Sep 2021	9:00 PM	WNW	0.3			
25 Sep 2021	10:00 PM	NW	0.3			
25 Sep 2021	11:00 PM	WNW	0.3			
26 Sep 2021	12:00 AM	W	0.3			
26 Sep 2021	1:00 AM	NW	0.0			
26 Sep 2021	2:00 AM	W	0.3			
26 Sep 2021	3:00 AM	W	0.0			
26 Sep 2021	4:00 AM	W	0.0			
26 Sep 2021	5:00 AM		0.0			
26 Sep 2021	6:00 AM		0.0			
26 Sep 2021	7:00 AM	W	0.0			
26 Sep 2021	8:00 AM	SE	0.0			
26 Sep 2021	9:00 AM	ESE	1.2			
26 Sep 2021	10:00 AM	SE	1.2			
26 Sep 2021	11:00 AM	ESE	1.2			
26 Sep 2021	12:00 PM	ESE	1.2			
26 Sep 2021	1:00 PM	E	1.7			
26 Sep 2021	2:00 PM	NNW	3.5			
26 Sep 2021	3:00 PM	NNW	3.9			
26 Sep 2021	4:00 PM	NNW	5.3			
26 Sep 2021	5:00 PM	NNW	3.5			
26 Sep 2021	6:00 PM	NNW	2.1			
26 Sep 2021	7:00 PM	NNW	2.1			
26 Sep 2021	8:00 PM	NNW	2.6			
26 Sep 2021	9:00 PM	NNW	1.2			
26 Sep 2021	10:00 PM	WNW	0.3			
26 Sep 2021	11:00 PM	SE	0.8			
27 Sep 2021	12:00 AM	SE	0.3			
27 Sep 2021	1:00 AM	SSE	0.3			
27 Sep 2021 27 Sep 2021	2:00 AM	SE	0.8			
50p 2021	0011111	SE SE	0.0			

September 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
27 Sep 2021	3:00 AM	SE	0.3			
27 Sep 2021	4:00 AM	SE	0.0			
27 Sep 2021	5:00 AM	SE	0.0			
27 Sep 2021	6:00 AM	SSE	0.0			
27 Sep 2021	7:00 AM	SSE	0.0			
27 Sep 2021	8:00 AM	SE	0.8			
27 Sep 2021	9:00 AM	SE	0.8			
27 Sep 2021	10:00 AM	SE	1.7			
27 Sep 2021	11:00 AM	SE	3.5			
27 Sep 2021	12:00 PM	ESE	3.0			
27 Sep 2021	1:00 PM	ESE	1.7			
27 Sep 2021	2:00 PM	ESE	1.2			
27 Sep 2021	3:00 PM	ESE	1.7			
27 Sep 2021	4:00 PM	NNW	1.7			
27 Sep 2021	5:00 PM	NNW	2.1			
27 Sep 2021	6:00 PM	NW	0.3			
27 Sep 2021	7:00 PM	Е	0.3			
27 Sep 2021	8:00 PM	NNE	0.3			
27 Sep 2021	9:00 PM	ESE	0.3			
27 Sep 2021	10:00 PM	SE	0.8			
27 Sep 2021	11:00 PM	SSE	0.8			
28 Sep 2021	12:00 AM	SSE	0.3			
28 Sep 2021	1:00 AM	SE	0.3			
28 Sep 2021	2:00 AM	SE	0.8			
28 Sep 2021	3:00 AM	SE	0.0			
28 Sep 2021	4:00 AM	SSE	0.0			
28 Sep 2021	5:00 AM	SE	0.3			
28 Sep 2021	6:00 AM	SE	0.0			
28 Sep 2021	7:00 AM	SSE	0.3			
28 Sep 2021	8:00 AM	SSE	0.3			
28 Sep 2021	9:00 AM	SE	0.8			
28 Sep 2021	10:00 AM	SE	1.2			
28 Sep 2021	11:00 AM	SE	1.7			
28 Sep 2021	12:00 PM	NNW	1.2			
28 Sep 2021	1:00 PM	NNE	1.2			
28 Sep 2021	2:00 PM	NNE	1.2			

September 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
28 Sep 2021	3:00 PM	SE	1.2			
28 Sep 2021	4:00 PM	SE	1.7			
28 Sep 2021	5:00 PM	SE	1.7			
28 Sep 2021	6:00 PM	SE	2.6			
28 Sep 2021	7:00 PM	SE	2.1			
28 Sep 2021	8:00 PM	SE	2.1			
28 Sep 2021	9:00 PM	SE	1.7			
28 Sep 2021	10:00 PM	SE	1.2			
28 Sep 2021	11:00 PM	SE	2.1			
29 Sep 2021	12:00 AM	SE	2.1			
29 Sep 2021	1:00 AM	SE	2.1			
29 Sep 2021	2:00 AM	SE	2.1			
29 Sep 2021	3:00 AM	SE	2.1			
29 Sep 2021	4:00 AM	SE	2.1			
29 Sep 2021	5:00 AM	SE	1.7			
29 Sep 2021	6:00 AM	SE	0.8			
29 Sep 2021	7:00 AM	SE	1.7			
29 Sep 2021	8:00 AM	SE	1.2			
29 Sep 2021	9:00 AM	SE	1.7			
29 Sep 2021	10:00 AM	SE	1.7			
29 Sep 2021	11:00 AM	SE	1.2			
29 Sep 2021	12:00 PM	SE	1.2			
29 Sep 2021	1:00 PM	SE	1.7			
29 Sep 2021	2:00 PM	SE	1.2			
29 Sep 2021	3:00 PM	SE	1.2			
29 Sep 2021	4:00 PM	SE	2.1			
29 Sep 2021	5:00 PM	SSE	1.2			
29 Sep 2021	6:00 PM	SE	0.8			
29 Sep 2021	7:00 PM	SE	0.3			
29 Sep 2021	8:00 PM	SE	0.8			
29 Sep 2021	9:00 PM	SE	0.3			
29 Sep 2021	10:00 PM	SSE	0.8			
29 Sep 2021	11:00 PM	SSE	2.1			
30 Sep 2021	12:00 AM	SE	1.2			
30 Sep 2021	1:00 AM	SE	0.3			
30 Sep 2021	2:00 AM	SE	0.3			
30 Sep 2021	3:00 AM	SE	0.3			
30 Sep 2021	4:00 AM	ESE	0.3			
30 Sep 2021	5:00 AM	ESE	1.2			
30 Sep 2021	6:00 AM	ESE	0.8			
30 Sep 2021	7:00 AM	ESE	1.2			
30 Sep 2021	8:00 AM	NNW	1.2			
30 Sep 2021	9:00 AM	NNW	0.8			
30 Sep 2021	10:00 AM	NW	0.8			
30 Sep 2021	11:00 AM	E	1.7			
30 Sep 2021	12:00 PM	NNE	1.2			
30 Sep 2021	1:00 PM	ESE	0.8			
30 Sep 2021	2:00 PM	SE	1.2			
30 Sep 2021	3:00 PM	SSE	1.2			
30 Sep 2021	4:00 PM	SSE	1.2			
30 Sep 2021	5:00 PM	SE	1.7			
30 Sep 2021	6:00 PM	SE	1.2			
30 Sep 2021	7:00 PM	SE	1.2			
30 Sep 2021	8:00 PM	SSE	1.2			
30 Sep 2021	9:00 PM	SE	1.2			
30 Sep 2021	10:00 PM	SE	1.2			
30 Sep 2021	11:00 PM	SSE	0.8			

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

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 (September 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Sep	2-Sep	3-Sep	4-Sep
						24-hrs TSP
5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep
	1-hr TSP X3				1-hr TSP X3	
	Noise				1-III 15F A5	
	TOBE					
				24-hrs TSP		
12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep
19-5ер	20-зер	21-зер	22-5ер	25-зер	24-3ер	23-зер
		1-hr TSP X3			1-hr TSP X3	
		Noise				
	241 map					
	24-hrs TSP			24-hrs TSP		
26-Sep	27-Sep	28-Sep	29-Sep	30-Sep		
20 Бер	27 Бер	20 Бер	2, 5ср	30 Бер		
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
		27-113 131				
	11 4 6	4 (1	eather safety concerns et	`		

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

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 (October 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	•				1-Oct	2-Oct
3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
		1-hr TSP X3 Noise				
	24-hrs TSP					24-hrs TSP
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
	1-hr TSP X3 Noise				1-hr TSP X3	
			24.1 TCD			
			24-hrs TSP			
17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
			1-hr TSP X3 Noise			
		24-hrs TSP				
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
		1-hr TSP X3 Noise				
	24-hrs TSP					24-hrs TSP
31-Oct						
The selection of the second of the selection of the second						

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

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 (November 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov
	1-hr TSP X3 Noise				1-hr TSP X3	
				24-hrs TSP		
7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov
				1-hr TSP X3 Noise		
			24-hrs TSP			
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
			1-hr TSP X3 Noise			
		24-hrs TSP				
21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov
		1-hr TSP X3 Noise				
	24-hrs TSP					24-hrs TSP
28-Nov	29-Nov	` 30-Nov				
	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

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 (December 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Dec	2-Dec	3-Dec	4-Dec
					1-hr TSP X3	
				24-hrs TSP		
5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec
				1-hr TSP X3 Noise		
			24-hrs TSP			
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec
			1-hr TSP X3 Noise			
		24-hrs TSP				
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec
		1-hr TSP X3 Noise			1-hr TSP X3	
	24-hrs TSP			24-hrs TSP		
26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	
				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

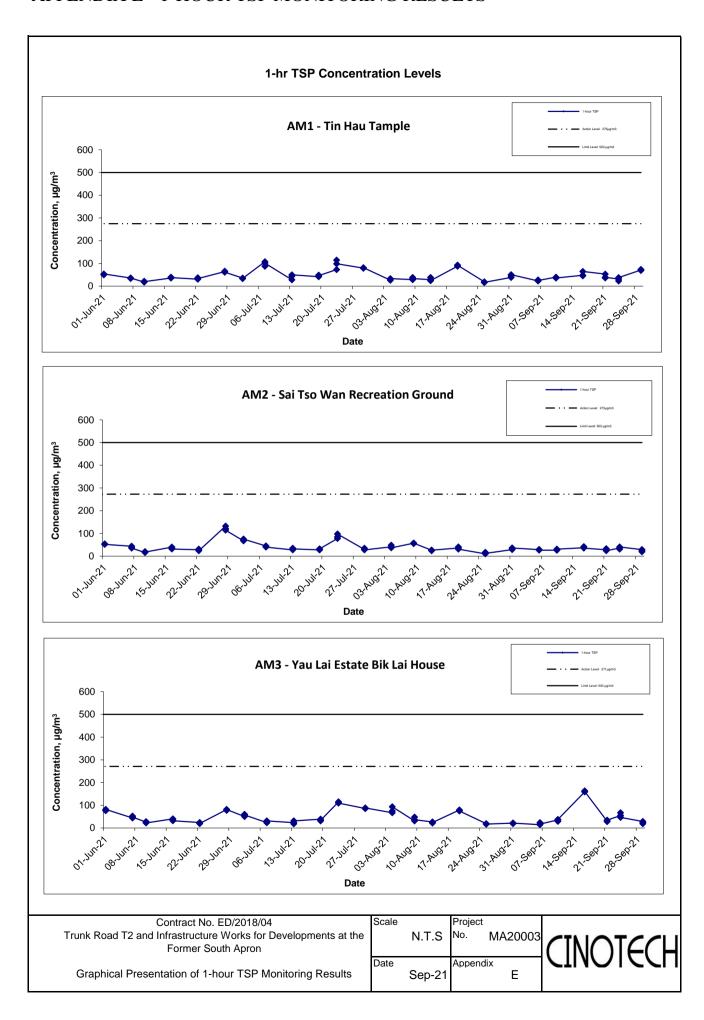
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

6-Sep-21 14:00 Sunny 23.1 6-Sep-21 15:00 Sunny 27.3 6-Sep-21 16:00 Sunny 25.2 10-Sep-21 13:00 Sunny 39.9 10-Sep-21 13:00 Sunny 39.9 10-Sep-21 14:00 Sunny 37.8 10-Sep-21 15:00 Sunny 35.7 16-Sep-21 15:00 Rainy 48.0 16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 45.6 16-Sep-21 18:00 Sunny 36.8 21-Sep-21 13:00 Sunny 36.8 21-Sep-21 11:00 Sunny 36.8 21-Sep-21 11:00 Sunny 39.1 24-Sep-21 11:00 Cloudy 37.8 24-Sep-21 11:00 Cloudy 37.8 29-Sep-21 13:00 Sunny 71.3 29-Sep-21 11:00 Sunny 73.6 29-Sep-21 11:00 Sunny 73.6 29-Sep-21 11:00 Sunny 73.6	Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Sep-21 16:00 Sunny 25.2 10-Sep-21 13:00 Sunny 39.9 10-Sep-21 14:00 Sunny 37.8 10-Sep-21 15:00 Sunny 35.7 16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 48.0 16-Sep-21 18:00 Rainy 45.6 16-Sep-21 18:00 Rainy 45.6 16-Sep-21 18:00 Rainy 30.8 21-Sep-21 18:00 Rainy 30.8 21-Sep-21 18:00 Sunny 30.8 21-Sep-21 18:00 Sunny 30.8 21-Sep-21 18:00 Sunny 39.1 21-Sep-21 18:00 Sunny 39.1 21-Sep-21 18:00 Sunny 39.1 21-Sep-21 18:00 Cloudy 31.5 21-Sep-21 18:00 Cloudy 31.5 22-Sep-21 18:00 Cloudy 37.8 22-Sep-21 18:00 Sunny 77.3	6-Sep-21	14:00	Sunny	
10-Sep-21 13:00 Sunny 39.9 10-Sep-21 14:00 Sunny 37.8 10-Sep-21 15:00 Sunny 35.7 16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	6-Sep-21	15:00	Sunny	27.3
10-Sep-21 14:00 Sunny 37.8 10-Sep-21 15:00 Sunny 35.7 16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	6-Sep-21	16:00	Sunny	25.2
10-Sep-21 15:00 Sunny 35.7 16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	10-Sep-21	13:00	Sunny	39.9
16-Sep-21 16:00 Rainy 48.0 16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	10-Sep-21	14:00	Sunny	37.8
16-Sep-21 17:00 Rainy 45.6 16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	10-Sep-21	15:00	Sunny	35.7
16-Sep-21 18:00 Rainy 64.8 21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 15:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	16-Sep-21	16:00	Rainy	48.0
21-Sep-21 13:00 Sunny 52.9 21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	16-Sep-21	17:00	Rainy	45.6
21-Sep-21 14:00 Sunny 36.8 21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	16-Sep-21	18:00	Rainy	64.8
21-Sep-21 15:00 Sunny 39.1 24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	21-Sep-21	13:00	Sunny	52.9
24-Sep-21 10:00 Cloudy 31.5 24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	21-Sep-21	14:00	Sunny	36.8
24-Sep-21 11:00 Cloudy 23.1 24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	21-Sep-21	15:00	Sunny	39.1
24-Sep-21 13:00 Cloudy 37.8 29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	24-Sep-21	10:00	Cloudy	31.5
29-Sep-21 9:00 Sunny 71.3 29-Sep-21 10:00 Sunny 73.6	24-Sep-21	11:00	Cloudy	23.1
29-Sep-21 10:00 Sunny 73.6	24-Sep-21	13:00	Cloudy	37.8
	29-Sep-21	9:00	Sunny	71.3
29-Sep-21 11:00 Sunny 69.0	29-Sep-21	10:00	Sunny	73.6
	29-Sep-21	11:00	Sunny	69.0
Average 43.5		_	Average	43.5
			Minimum	23.1

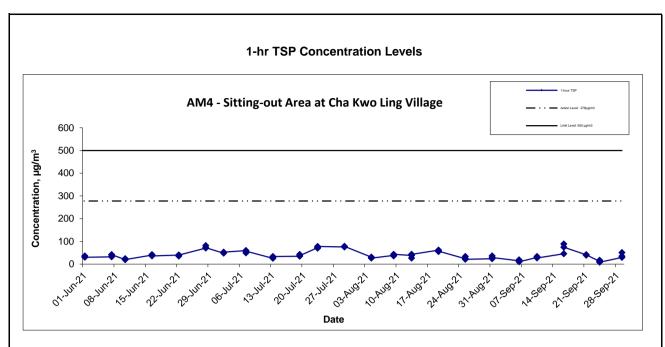
ocation AM2 -	Sai Tso Wai	n Recreation Grou	und
Date	Time	Weather	Particulate Concentration (µg/m 3)
6-Sep-21	9:00	Sunny	28.8
6-Sep-21	10:00	Sunny	28.8
6-Sep-21	11:00	Sunny	26.4
10-Sep-21	9:00	Sunny	26.4
10-Sep-21	10:00	Sunny	26.4
10-Sep-21	11:00	Sunny	31.2
16-Sep-21	9:00	Sunny	37.4
16-Sep-21	10:00	Sunny	41.8
16-Sep-21	11:00	Sunny	35.2
21-Sep-21	9:00	Sunny	28.6
21-Sep-21	10:00	Sunny	33.0
21-Sep-21	11:00	Sunny	24.2
24-Sep-21	9:00	Sunny	36.0
24-Sep-21	10:00	Sunny	31.2
24-Sep-21	11:00	Sunny	40.8
29-Sep-21	9:00	Sunny	28.8
29-Sep-21	10:00	Sunny	24.0
29-Sep-21	11:00	Sunny	19.2
		Average	30.5
		Maximum	41.8
		Minimum	19.2

Location AM3 -	· Yau Lai Esta	te Bik Lai House	
Date	Time	Weather	Particulate Concentration (µg/m 3)
6-Sep-21	9:00	Cloudy	14.7
6-Sep-21	10:00	Cloudy	23.1
6-Sep-21	11:00	Cloudy	16.8
10-Sep-21	9:00	Fine	35.7
10-Sep-21	10:00	Fine	29.4
10-Sep-21	11:00	Fine	37.8
16-Sep-21	9:00	Fine	158.4
16-Sep-21	10:00	Fine	163.2
16-Sep-21	11:00	Fine	160.8
21-Sep-21	9:00	Sunny	29.9
21-Sep-21	10:00	Sunny	27.6
21-Sep-21	11:00	Sunny	34.5
24-Sep-21	9:00	Sunny	54.6
24-Sep-21	10:00	Sunny	67.2
24-Sep-21	11:00	Sunny	46.2
29-Sep-21	9:00	Cloudy	28.8
29-Sep-21	10:00	Cloudy	24.0
29-Sep-21	11:00	Cloudy	19.2
		Average	54.0
		Maximum	163.2
		Minimum	14.7

Date	Time	Weather	Particulate Concentration (µg/m 3
6-Sep-21	15:00	Sunny	14.7
6-Sep-21	16:00	Sunny	18.9
6-Sep-21	17:00	Sunny	10.5
10-Sep-21	15:00	Sunny	29.4
10-Sep-21	16:00	Sunny	33.6
10-Sep-21	17:00	Sunny	27.3
16-Sep-21	14:00	Rainy	45.6
16-Sep-21	15:00	Rainy	88.8
16-Sep-21	16:00	Rainy	74.4
21-Sep-21	16:00	Sunny	41.4
21-Sep-21	17:00	Sunny	39.1
21-Sep-21	18:00	Sunny	41.4
24-Sep-21	13:00	Cloudy	12.6
24-Sep-21	14:00	Cloudy	16.8
24-Sep-21	15:00	Cloudy	8.4
29-Sep-21	13:00	Sunny	29.9
29-Sep-21	14:00	Sunny	50.6
29-Sep-21	15:00	Sunny	34.5
		Average	34.3
	ľ	Maximum	88.8
	Ī	Minimum	8.4



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
Graphical Presentation of 1-hour TSP Monitoring Results

Scale Project
No. MA20003

Date Sep-21 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	eight (g)	Particulate	Elapse	Time	Sampling	Flow Rate	e (m³/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)
4-Sep-21	Sunny	302.8	757.9	3.7048	3.8083	0.1035	8833.7	8857.7	24.0	1.22	1.22	1.22	1754.4	59.0
9-Sep-21	Sunny	301.2	757.6	3.6843	3.8718	0.1875	8857.7	8881.7	24.0	1.22	1.22	1.22	1758.4	106.6
15-Sep-21	Sunny	302.7	758.7	3.6920	4.5438	0.8518	8881.7	8905.7	24.0	1.22	1.22	1.22	1755.5	485.2
20-Sep-21	Sunny	302.2	758.5	3.6429	3.8486	0.2057	8905.7	8929.7	24.0	1.22	1.22	1.22	1756.7	117.1
23-Sep-21	Sunny	301.7	761.0	3.6555	3.8845	0.2290	8929.7	8953.7	24.0	1.22	1.22	1.22	1760.6	130.1
28-Sep-21	Sunny	302.7	757.7	3.6655	4.0862	0.4207	8953.7	8977.7	24.0	1.22	1.22	1.22	1754.6	239.8
													Min	59.0
													Max	485.2

Average 189.6

Note:

Bold means Action Level exceedance of 24-hour TSP

Bold with underline means Limit Level exceedance of 24-hour TSP

Location AM2 - Sai Tso Wan Recreation Ground

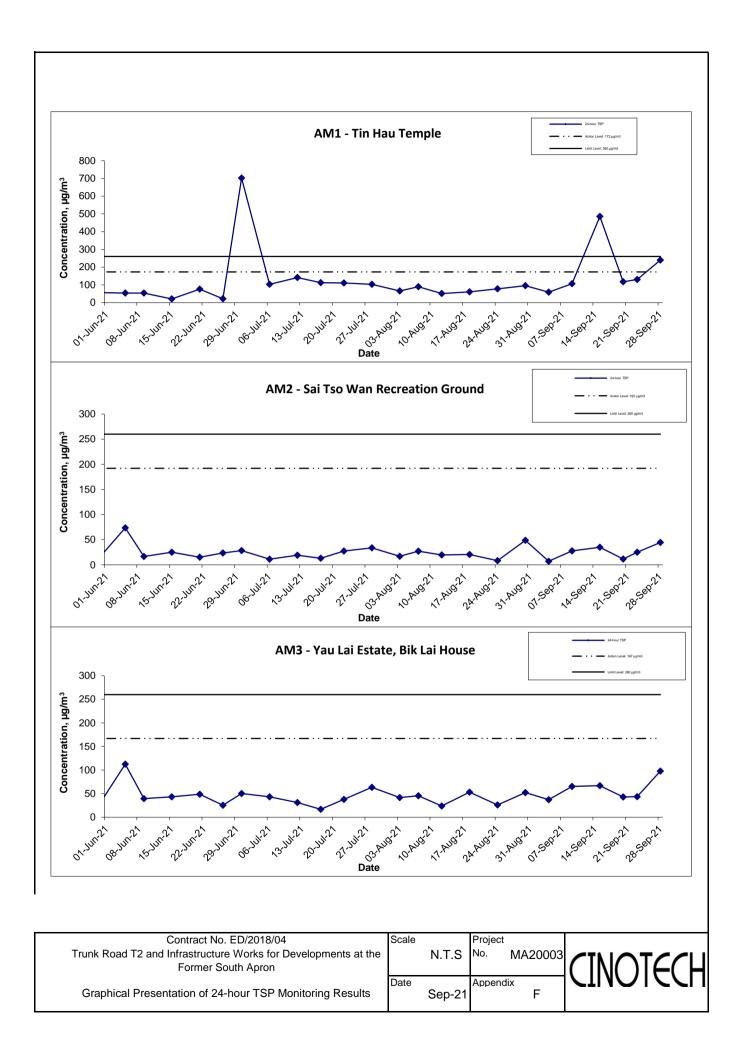
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Sep-21	Sunny	302.8	757.9	3.6933	3.7057	0.0124	29467.0	29491.0	24.0	1.22	1.22	1.22	1755.1	7.1
9-Sep-21	Sunny	301.2	757.6	3.6887	3.7374	0.0487	29491.0	29515.0	24.0	1.22	1.22	1.22	1759.4	27.7
15-Sep-21	Sunny	302.7	758.7	3.6437	3.7050	0.0613	29515.0	29539.0	24.0	1.22	1.22	1.22	1756.4	34.9
20-Sep-21	Sunny	302.2	758.5	3.7259	3.7458	0.0199	29539.0	29563.0	24.0	1.22	1.22	1.22	1757.7	11.3
23-Sep-21	Sunny	301.7	761.0	3.7326	3.7767	0.0441	29563.0	29587.0	24.0	1.22	1.22	1.22	1761.9	25.0
28-Sep-21	Sunny	302.7	757.7	3.6887	3.7668	0.0781	29587.0	29611.0	24.0	1.22	1.22	1.22	1755.4	44.5
					<u> </u>						<u> </u>		Min	7.1
													Max	44.5
													Average	25.1

Location AM3 - Yau Lai Estate, Bik Lai House

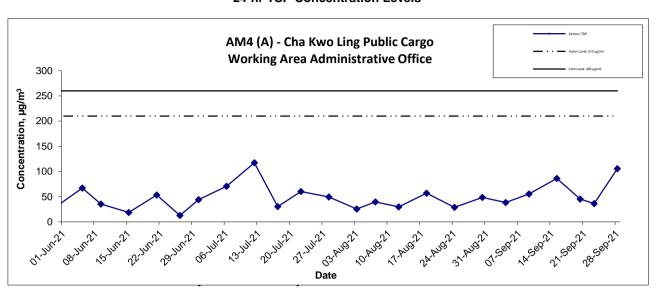
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Sep-21	Sunny	302.8	757.9	3.7093	3.7743	0.0650	4208.8	4232.8	24.0	1.22	1.22	1.22	1752.8	37.1
9-Sep-21	Sunny	301.2	757.6	3.6675	3.7820	0.1145	4232.8	4256.8	24.0	1.22	1.22	1.22	1757.1	65.2
15-Sep-21	Sunny	302.7	758.7	3.6844	3.8016	0.1172	4256.8	4280.8	24.0	1.22	1.22	1.22	1754.1	66.8
20-Sep-21	Sunny	302.2	758.5	3.7075	3.7829	0.0754	4280.8	4304.8	24.0	1.22	1.22	1.22	1755.3	43.0
23-Sep-21	Sunny	301.7	761.0	3.6891	3.7656	0.0765	4304.8	4328.8	24.0	1.22	1.22	1.22	1759.5	43.5
28-Sep-21	Sunny	302.7	757.7	3.6833	3.8548	0.1715	4328.8	4352.8	24.0	1.22	1.22	1.22	1753.0	97.8
													Min	37.1
													Max	97.8
													Average	58.9

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

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	Time	Sampling	Flow Rate	e (m³/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)
4-Sep-21	Sunny	302.8	757.9	3.7247	3.7922	0.0675	14565.7	14589.7	24.0	1.22	1.22	1.22	1752.5	38.5
9-Sep-21	Sunny	301.2	757.6	3.6864	3.7841	0.0977	14589.7	14613.7	24.0	1.22	1.22	1.22	1756.6	55.6
15-Sep-21	Sunny	302.7	758.7	3.6557	3.8071	0.1514	14613.7	14637.7	24.0	1.22	1.22	1.22	1753.8	86.3
20-Sep-21	Sunny	302.2	758.5	3.6649	3.7444	0.0795	14637.7	14661.7	24.0	1.22	1.22	1.22	1755.0	45.3
23-Sep-21	Sunny	301.7	761.0	3.6545	3.7183	0.0638	14661.7	14685.7	24.0	1.22	1.22	1.22	1758.9	36.3
28-Sep-21	Sunny	302.7	757.7	3.6809	3.8662	0.1853	14685.7	14709.7	24.0	1.22	1.22	1.22	1752.8	105.7
													Min	36.3
													Max	105.7
													Average	61.3



24-hr TSP Concentration Levels



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
Graphical Presentation of 24-hour TSP Monitoring Results

Scale	N.T.S	Project No.	MA20003
Date	Sep-21	Append	ix F



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

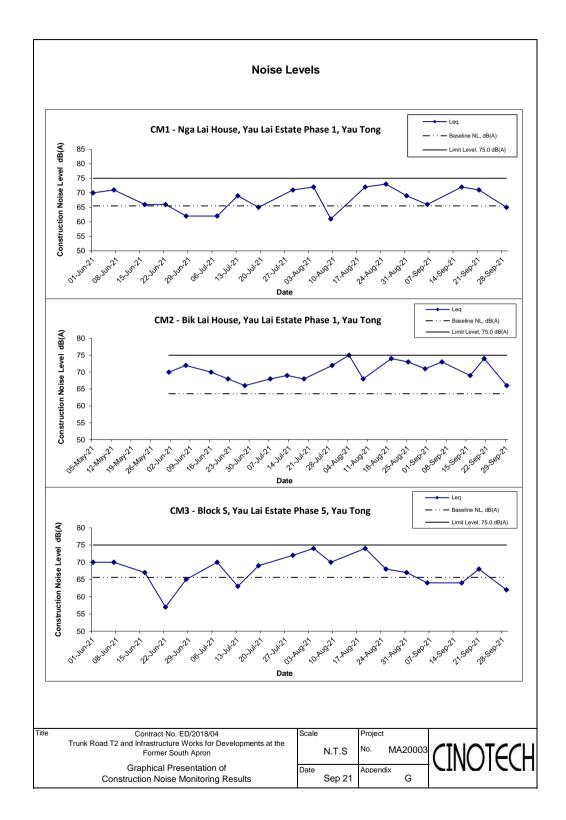
Location CM1 -	ocation CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong										
					Unit:	dB (A) (30-min)					
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level				
Date	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
6 Sep 2021	10:45	Sunny	68.8	69.5	67.2	65.5	66				
16 Sep 2021	13:00	Cloudy	72.9	73.4	60.9	65.5	72				
21 Sep 2021	10:45	Sunny	72.1	73.8	69.3	65.5	71				
29 Sep 2021	9:42	Fine	68.5	70.9	65.1	65.5	65				

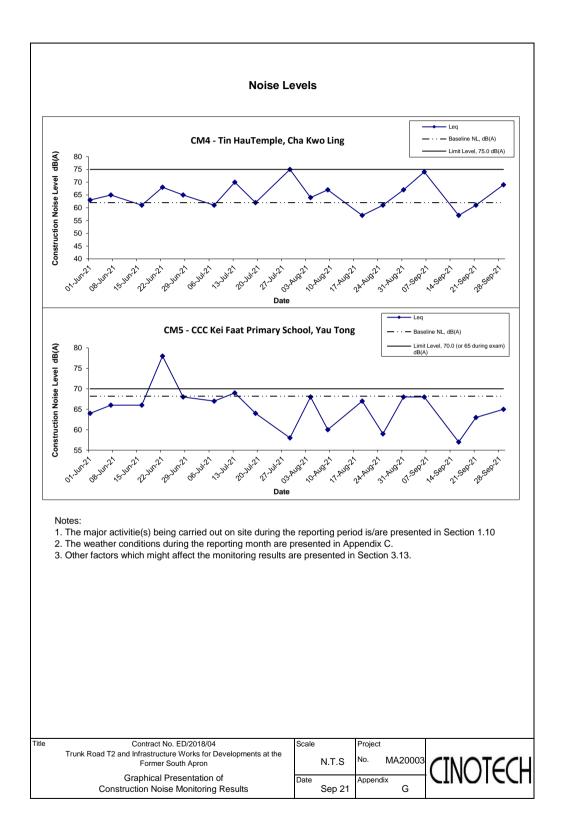
Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong									
					Unit:	dB (A) (30-min)			
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Buto	Time		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
6 Sep 2021	10:00	Sunny	73.8	73.4	70.7	63.6	73		
16 Sep 2021	11:00	Cloudy	70.2	68.8	66.5 63.6	63.6	69		
21 Sep 2021	9:50	Sunny	74.3	75.6	71.1	63.6	74		
29 Sep 2021	9:00	Fine	68.1	71.3	65.2	63.6	66		

Location CM3 -	Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong							
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Tillic	VVCatrici						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
6 Sep 2021	11:30	Sunny	68.0	68.8	66.5	65.6	64	
16 Sep 2021	13:00	Cloudy	68.0	66.7	63.7	65.6	64	
21 Sep 2021	11:30	Sunny	70.2	71.4	67.9	65.6	68	
29 Sep 2021	10:22	Fine	67.2	70.3	64.4	65.6	62	

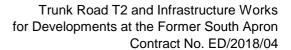
Location CM4 -	Location CM4 - Tin Hau Temple, Cha Kwo Ling								
					Unit:	dB (A) (30-min)			
Date	Time	e Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Date	Time	VVCatrici							
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
6 Sep 2021	13:45	Sunny	74.7	72.2	59.7	62.0	74		
16 Sep 2021	16:30	Rainy	63.3	64.8	57.7	62.0	57		
21 Sep 2021	13:30	Sunny	60.8	63.1	55.6	62.0	61 Measured ≦ Baseline		
29 Sep 2021	13:07	Fine	70.1	73.4	67.7	62.0	69		

Location CM5 - CCC Kei Faat Primary School, Yau Tong								
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Tillio	vvcatrici			_	_	_	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
6 Sep 2021	15:30	Sunny	68.1	70.6	64.3	68.2	68 Measured ≦ Baseline	
16 Sep 2021	14:00	Cloudy	68.5	71.6	62.5	68.2	57	
21 Sep 2021	14:10	Sunny	69.3	70.7	65.9	68.2	63	
29 Sep 2021	11:28	Fine	65.2	68.1	61.9	68.2	65 Measured ≦ Baseline	





APPENDIX H
WASTE GENERATION IN THE
REPORTING MONTH





Name of Department: CEDD

Monthly Summary Waste Flow Table for 2021 (CKL)

	Actua	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual C	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	4.858	4.842	0.000	4.842	0.016	0.000	0.000	0.000	0.000	0.400	0.005
February	5.450	5.428	0.000	5.428	0.022	0.000	0.000	0.000	0.000	0.000	0.008
March	5.710	5.679	0.000	5.679	0.031	0.000	0.000	0.000	0.000	2.400	0.007
April	7.352	7.339	0.000	7.339	0.013	0.000	0.000	0.000	0.000	3.000	0.006
May	8.713	8.669	0.000	8.669	0.044	0.000	0.000	0.000	0.000	0.000	0.008
June	5.834	5.817	0.000	5.817	0.017	0.000	0.000	0.000	0.000	0.000	0.014
Sub-total	37.918	37.775	0.000	37.774	0.144	0.000	0.000	0.000	0.000	5.800	0.049
July	4.812	4.624	0.000	4.624	0.188	0.000	0.000	0.000	0.000	0.000	0.013
August	3.784	3.784	0.000	3.784	0.000	0.000	0.000	0.000	0.000	0.000	0.007
September	0.400	0.400	0.000	0.400	0.000	0.000	0.000	0.000	0.000	0.000	0.011
October											
November											
December											
Total	46.914	46.583	0.000	46.582	0.332	0.000	0.000	0.000	0.000	5.800	0.080

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

Checklist Reference Number	210901
Date	01 September 2021 (Wednesday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:210826), all item has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	01 September 2021
Checked by	Karina Chan	Zalle	01 September 2021

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

Checklist Reference Number	210909
Date	09 September 2021 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:210901), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	09 September 2021
Checked by	Karina Chan	Jeffer	09 September 2021

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

Checklist Reference Number	210917
Date	17 September 2021 (Friday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:210909), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	17 September 2021
Checked by	Karina Chan	Jeffer	17 September 2021

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

Checklist Reference Number	210923
Date	23 September 2021 (Thursday)
Time	09:30 – 12:00

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

B. Water Quality No environmental deficiency was identified during site inspection	
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.:210917), no major environmental deficiency was	
	 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

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	23 September 2021
Checked by	Karina Chan	Jeffer	23 September 2021

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

Checklist Reference Number	210930
Date	30 September 2021 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality No environmental deficiency was identified during site inspection	
	 C. Air Quality No environmental deficiency was identified during site inspection 	
210930 – R1	 D. Construction Noise Impact Contractor was reminded to check on the effectiveness of the implemented noise mitigation measure regularly. Noise barriers should be erected to block the direct view of noise source from NSR. 	D7
	 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.:210927), no major environmental deficiency was identified. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	30 September 2021
Checked by	Karina Chan	Jalle	30 September 2021

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	APCO
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	APCO
\$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 on site haul roads. • Where 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
/	All 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 sulphur diesel fuel (ULSD)	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
/	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	APCO

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?
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
\$4.9	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 effectively 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 Impac	et (Construction Phase)					
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be $1,900 \text{kg/m}^3$, with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	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
\$5.8.2	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	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	silt curtain. 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 site shall not be removed before completion of all 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 fully 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.	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
\$5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent 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
S5.8.6	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

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?
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 stornwater 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
\$5.8.8 \$5.8.8 \$5.8.8	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: • use of sediment traps; and • adequate maintenance of drainage systems to prevent flooding and overflow.	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
\$5.8.10	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
\$5.8.11	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
\$5.8.15	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
\$5.8.16	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

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?
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
\$5.8.18	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 sit 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
S5.8.21	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
S5.8.22	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
S5.8.23	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
\$5.8.25 - \$5.8.27 & 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 equive the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential 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
S5.8.28	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
	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

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?
\$5.8.32	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 runoff 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
S5.8.33	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
S5.8.36	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
S5.8.37	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

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?
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
\$5.8.41	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
\$5.8.47	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						
\$6.8.4	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

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?
\$6.8.5	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. 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 nearby watercourses.	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
\$6.8.6	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 groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements.	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
\$6.8.8	Measure to Minimize Impact on Corals Coral translocation It is recommended to translocate the affected coral colonies, except the locally common Oulastrea crispata, 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 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

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?
\$6.8.9 \$6.8.10	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
\$6.8.11	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	Ond 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)
\$8.6.4	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; are davided and avoid unnecessary generation of waste.	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$8.6.5	Good Site Practices and Waste Reduction Measures (con't) 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. Good Site Practices and Waste Reduction Measures (con't)	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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?
\$8.6.6	 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

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?
\$8.6.7	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	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
\$8.6.17 – \$8.6.20	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). 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

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?
	 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. 					
S8.6.24 - S8.6.28/ Waste Management Plan	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 excavated sediment to the barge should be controlled to avoid splashing and overflowing 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 laden 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 devices 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. Ade	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	• 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 wastes, 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 Heritage (Construction Phase)								
\$9.6.4	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		
\$9.6.4	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	ll 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: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100%	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

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?
\$11.5.10 \$11.5.25	 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 also require the presence of an appropriately qualified person, in attendance outside the 'confined area', 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 landfil	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

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. 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,					
\$11.5.10 \$11.5.25	the potential nataratios of working in continued spaces such as mannous and service channers, 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. 					
\$11.5.26 - \$11.5.31	● 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 ● periodically throughout the working day whilst workers are in the excavation. ● For excavations between 300mm and 1m deep, measurements should be carried out: • 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.	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
\$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				
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	Contractor is reminded to spray water on potential dust generated areas.	26 Aug 2021	✓
Construction 1	Noise Impact			
S4.8	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).	Contractor was reminded to check on the effectiveness of the implemented noise mitigation measure regularly. Noise barriers should be erected to block the direct view of noise source from NSR	30 Sep 2021	#
Water Quality	Impact			
Ecological Imp	pact			
Fisheries Impa	act			
Waste Manage	ement			
Landscape and	d Visual Impact			
Landfill Gas H	Hazards			

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

TAN MANIME		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 working procedures to determine possible mitigation to be implemented;
6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;
7. Assess effectiveness of Contractor's remedial actions and

keep IEC, EPD and ER informed

If exceedance stops, cease additional monitoring.

of the results;

- 4. Ensure remedial measures properly implemented;
- If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.
- 4. Resubmit proposals if problem still not under control;
- 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Construction Noise

EVENT				ACT	ION			
	ET		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.	Submit noise mitigation proposals to IEC;
	2.	Carry out investigation;	2.	Review the proposed remedial measures by the		writing;	2.	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.						

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action		
	<19%	• Ventilate to restore oxygen to >19%		
Owwan		• Stop works		
Oxygen	<18%	Evacuate personnel/prohibit entry		
		• Increase ventilation to restore oxygen to >19%		
	>100/ I EL (i a > 0.50/ by voluma)	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

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

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

Reporting Month: September 2021

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/ summon and prosecution	Nature	Investigation/Mitigation Action	Status
-	•	•	•	•	•	-

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

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

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

Reporting Month: September 2021

Table M2 Cumulative Log for 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 #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 the tunnel section at Kwun Tong Side on the evening time	
Complaint #N04	6 March conti 2021 4 a.n		The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	Noise	and night-time of the date of complaint are	

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

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

Reporting Month: September 2021

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 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. 	
Complaint #N05	Portion T1	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.	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 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

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

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

Reporting Month: September 2021

Log Ref. Loca	ation Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
	27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.		 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-RE0399-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	

APPENDIX N SUMMARY OF EXCEEDANCE

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

Appendix N – Summary of Exceedance

Reporting Period: September 2021

(A) Exceedance Report for Air Quality

One (1) Limit Level and one (1) Action Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. (µg/m³)	Level exceeded
A N / 1	15 September 2021	485.2	Limit level
AM1	28 September 2021	239.8	Action level

The investigation results for the exceedance are attached as below.

(B) Exceedance Report for Construction Noise

No Action/ Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

- Notification of Exceedances

NOE No. 210915_24hrTSP (AM1) Exceedance Level: Limit NOE No. 210928_24hrTSP (AM1) Exceedance Level: Action

Date of Air Quality Monitoring: 15 &28 September 2021

Part A – Exceedance Summary Tables

Table I: Parameter(s) – 24-hour TSP

Station	Location	Time	Weather Condition	Conc. (µg/m ³)	Action Level (μg/m³)	Limit Level (µg/m³)	Level exceeded
AM1	Tin Hau Temple	0900 (15 Sep 2021) – 0900 (16 Sep 2021)	Sunny	<u>485.2</u>	173.0	260.0	Limit
Alvii	Tili riau Temple	0900 (28 Sep 2021) – 0900 (29 Sep 2021)	Sumy	239.8	1/3.0	200.0	Action

Note: **Bold Italic** means Action Level exceedance

Bold Italic with underline means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

(a) Statement of exceedance(s)

24-hour TSP monitoring measured at AM1 on 15 and 28 September 2021 exceeded the limit and action level respectively.

(b) Cause of exceedance(s)

According to the observation of our field staff, the major dust source(s) and/or reason(s) for exceedance identified at AM1 is/are as follow:

- 1. Renovation of Tin Hau Temple began in mid-May 2021.
- 2. According to our field observation, piles of renovation material were scattered around Tin Hau Temple during the monitoring period (see the photo record). Frequent material transportation may cause dust nuisance to the surrounding
- 3. Dust generating activities (cement mixing) by renovation staff was observed on-site
- 4. Joss paper furnace was found right next to the HVS, which may affect the result if incense burning was conducted.
- 5. Non-project related construction works (TKOLTT project)
- 6. Road traffic along Cha Kwo Ling Road
- 7. RE and Contractor have confirmed that no construction activity was carried out in the vicinity of the Tin Hau Temple on 15-16 and 28-29 September 2021 under this contract.

MA20003\NOE 1 CINOTECH

- Notification of Exceedances

Photo Record (Photo Taken by ET)



Photo 1 – Recent condition of the High Volume Sampler (HVS) at AM1, Tin Hau Temple.

Debris and waste were scattered around the HVS (Taken on 29 Sep 2021)



Photo 2 – The HVS was swallowed by bags of dusty materials and the joss furnace located near the HVS. (Taken on 29 Sep 2021)

- Notification of Exceedances



- Notification of Exceedances

Part C - Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level and Action Level exceedance of 24-hour TSP recorded at station AM1 on 15 & 28 September 2021 respectively are due to the non-project related influence. Therefore, the exceedance is considered as **non-project related**.

Part D - Recommendation

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

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

MA20003\NOE 4 CINOTECH

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								021								2022
						Jun 30 06 13		Ju l 27 04 11		01 08 15	22 29		tember 12 19 2	26 03	October 10 1		Novemb 07 14			cember 12 19 2	January 02 09 16 23 [
ED/2018/04 - Trunk Road T2	635	25-Aug-20	17-Oct-22	25-Aug-20 A	18-Jan-23																Appendix A
DESIGN SUBMISSION & APPROVAL	513	23-Sep-20	21-Jun-22	28-Oct-20 A	07 - Mar-22																
GENERAL	359	06-Oct-20	20-Dec-21	30-Dec-20 A	19-Feb-22	1 1			}			· ·		- -						▼ GENE	RAL
Design Memorandum	0	06-Oct-20	06-Oct-20	21-Apr-21 A	07-Jun-21 A			11		1											1
Design Memorandum - Further Information required	0			21-Apr-21 A	16-May-21 A	orandum Fur	ther Informa	ntion required	i i	1			1						7		
Design Memorandum - 7th Sub	0				16-May-21 A	orandum - 7th	Sψb		1 1	1		1 1						1 1	1		
Design Memorandum - 7th Review	0			17-May-21 A	07-Jun-21 A	Design	Memorano	lum: 7th Review	/					1							
Design Memorandum - Approval	0		06-Oct-20		07-Jun-21 A	♦ Design	Memorano	lum - Approval	ii	1											
Construction Traffic Impact Assessment - Kai Tak Area	0	06-Oct-20	06-Oct-20	03-May-21 A	06-Sep-21 A				†					-							1
CTIA Kai Tak Area - Resubmission	0			03-May-21 A	19-Aug-21 A						CTIA Kai	Tak Area - F	Resubmission	1							
CTIA Kai Tak Area - 6th Sub	0				19-Aug-21 A			11	i i	•	CTIA Kai	Tak Area - 6	Sth Sub								
CTIA Kai Tak Area - 6th Review	0			20-Aug-21 A	06-Sep-21 A	11111		1111111	1 1	i i =		CŢIA	Kai Tak Area	a 6th Rev	iew						
CTIA Kai Tak Area - Approval	0		06-Oct-20		06-Sep-21 A			1-1	† <u> </u>	l		◆ CTIA	Kai Tak Area	Approv	al						1
ACABAS - Western Tunnel Portal	30	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A			1-1	1	1											
DDA - 2nd Review by SO	35	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A	Review by SC)												1	1 1	
DDA - SO Consent for Construction	0		24-Dec-20		18-May-21 A	Consent for C	onstruction														
ACABAS- Footbridge FB-02	20	01-Apr-21	29-Apr-21	06-Jan-22	03-Feb-22	1		1-1	1	1				1							
DDA - 1st Sub	0		01-Apr-21		06-Jan-22				T									11111			◆ DDA -1st Sub
DDA - Review by SO	28	02-Apr-21	29-Apr-21	07-Jan-22	03-Feb-22	1 1		11111	1 1	1 1									777		
DDA - Review by IP / DC	28	02-Apr-21	29-Apr-21	07-Jan-22	03-Feb-22	l		1	† <u> </u>	 				-							1
DAP - WVB	48	13-Sep-21	10-Nov-21	20-Dec-21	19-Feb-22	l 		1-1	 	1		~		- -			▼ DAP	- WVB			
DDA - Draft - Preparation by Designer	48	13-Sep-21	10-Nov-21	20-Dec-21	19-Feb-22									-							
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	01-Apr-21 A	09-Oct-21																
AIP - 3rd Review by SO	0			01-Apr-21 A	05-May-21 A	þ															
AIP - Further information required by SO	0			06-May-21 A	28-May-21 A	P Further in	formation re	quired by SO	1 1	1 1			1 1								
AIP - 4th Sub	0				28-May-21 A	√P - 4th Sụb															
AIP - 4th Review by SO	0			29-May-21 A	29-Jun-21 A			AIP - 4th Revi	ew by \$O					1							11
AIP - Further information required by SO	0			30-Jun-21 A	07-Sep-21 A							AIP	- Further infor	rmation re	quired by	so					
AIP - 5th Sub	0				07-Sep-21 A				·			♦ AIP	- 5th Sub	-							
AIP - 5th Review by SO	0			08-Sep-21 A	09-Oct-21	···			† <u>†</u>	····				-	AIP - 5t	h Review by S	SO:				1
AIP - SO Consent for DDA Submission	0		16-Feb-21		09-Oct-21			+		l				-	AIP S	O Consent for	DDA Submis	sion			
DDA Roadworks and Street Furniture	95	16-Feb-21	14-Jun-21	11-Oct-21	03-Feb-22	······································	DDA Roady	vorks and Street	Furniture	····				-							
DDA - Draft - Preparation by Designer	36	16-Feb-21	29-Mar-21	11-Oct-21	22-Nov-21				†	· · · · · · · · · · · · · · · · · · ·				-				DDA	- Draft - Pre	paration by De	signer
DDA - Draft - Final Review and prepare for 1st Sub	18	30-Mar-21	23-Apr-21	23-Nov-21	13-Dec-21	l		1		· · · · · · · · · · · · · · · · · · ·				-						DDA - Draft	Final Review and prepare for
DDA - 1st Sub	0		23-Apr-21		13-Dec-21															DDA-1stSu	b
DDA - Review by SO	28	24-Apr-21	21-May-21	14-Dec-21	10-Jan-22				† 	····											DDA - Réview b
DDA - Review by IP / DC	28	24-Apr-21	21-May-21	14-Dec-21	10-Jan-22	 		+	 	ł 											
DDA - Further information required by SO	24	22-May-21	14-Jun-21	11-Jan-22	03-Feb-22				 -	 											H
DDA Traffic Sign, Road Marking & Sign Gantry	75	21-Sep-21	20-Dec-21	01-Apr-21 A	11-Nov-21					l				-				++-			raffic Sign, Road Marking &
DDA - Review by SO	28	21-Sep-21	18-Oct-21		14-May-21 A	l		1	 	l						DDA - Reviev					
DDA - Review by IP / DC	28	21-Sep-21	18-Oct-21		03-May-21 A				¦	} 					ii						1
DDA - Further information required by SO	24	19-Oct-21	15-Nov-21		22-Jun-21 A				 	ł 								DDA - Furth	er informati	on required by	di
DDA - 2nd Sub	0		15-Nov-21		22-Jun-21 A		•		 	····							\	DDA - 2nd S	Sub		
DDA - 2nd Review by SO	35	16-Nov-21	20-Dec-21	23-Jun-21 A	08-Jul-21 A	·				····										DDA -	2nd Review by SO
DDA - Further information required by SO	0	.507 21	20 200 21	09-Jul-21 A	07-Oct-21	 		+	<u> </u>	ļ <u>i</u> i		<u> </u>		-	DDA - Fiii	rther informati	ion required h	ov SO			
DDA - 3rd Sub	0			00 0012171	07-Oct-21									- -	DDA - 3rd	!!					
25.1- Old Odb	U				01-001-21										22,1,010			1 1	1 1		
Page 1 of 27		Summary																Date	Revision		cked Approved
Data Date: 02-Oct-21			ED/	2018/0	4 Trur	ık Roa	ad T2	and I	nfras	tructure	Wo	rks					18-De		00V1	WYu	100
CriticalActivity ♦ Actual Milestone														BOII	YGU	ES	22-Fe		01V0 01V1	SPa/L SPa/L	
Actual Work				T	or Dev	eiobu	ienis	ิ ลเ 50	uın A	hiou				BOU TRAVAL	JX PUB	LICS	17-Ju		01V1 01V2	SPa/L	
♦ Baseline Milestone				Tb		h = D =	ll!	D		(0== 0	4\						09-Oc		01V3	SPa/L	
Baseline Bar				inree	viont	ns Ko	ıııng	Progra	imme	e (Sep-2	1)						02-Ju	⊦ 21	02V0	SPa/L	_o WYu
			1																		

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish							2021										2022
						June 30 06 13 20	27 04	Ju l y 11 18	25	August 01 08 15 22		September 12			October 10 17 24	31	November 07 14	21 28	05 12		02 0	January 19 16 23 3
DDA - 3rd Review by SO	0			08-Oct-21	11-Nov-21									—		1		rd Review by				
DDA - SO Consent for Construction	0		20-Dec-21		11-Nov-21												•			♦ DDA-	O Conser	t for Construction
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	0	22-Jan-21	22-Jan-21	16-Apr-21 A	21-Oct-21																11	
DDA - Further information required by SO	0			16-Apr-21 A	07-Jun-21 A	DDA - Further in	nformation re	quired by SO													1	
DDA - 4th Sub	0				07-Jun-21 A	DDA - 4th Sub						T			1 1					[
DDA - 4th Review by SO	0			08-Jun-21 A	15-Ju l -21 A			DDA -	4th Revi	ew by SO												
DDA - Further information required by SO	0			16-Jul-21 A	07-Sep-21 A							DDA - Fi	urther info	mation requ	uired by SO				· 		11	
DDA - 5th Sub	0				07-Sep-21 A						•	DDA - 5t	h Sub								1	
DDA - 5th Review by SO	0			08-Sep-21 A	21-Oct-21										DD/	5th Revi	ew by SO				1	
DDA - SO Consent for DDA Submission	0		22-Jan-21		21-Oct-21	T		<u> </u>			++	1		<u> </u>	◆ DD/	SO Con	sent for DDA	A Submission			l	
DDA Structural Health Monitoring System (SHMS)	133	28-Dec-20	11-Jun-21	23-Mar-21 A	05-Jul-21 A	DDA Struct	ıral Health M	onitoring Syst	tem (SHI	MS)	++-	1		lti		-11					1	
DDA - Draft - Preparation by Designer	36	28-Dec-20	08-Feb-21	23-Mar-21 A	05-May-21 A			: : : : : : : : : : : : : : : : : : : :			77	1				11				: <u>-</u>	1	
DDA - Draft - Final Review and prepare for 1st Sub	24	09-Feb-21	11-Mar-21	06-May-21 A	13-May-21 A	nal Review and prepare	for 1st Sub					1				11					l	
DDA - 1st Sub	0		11-Mar-21		13-May-21 A	1					++	1				1					l	
DDA - Review by SO	28	12-Mar-21	08-Apr-21	14-May-21 A	08-Jun-21 A	DDA - Review	by SO	} <u>}</u>			++-+-	+									<u> </u>	
DDA - Review by IP / DC	28	12-Mar-21	08-Apr-21	14-May-21 A		DDA - Revie						†		 							<u> </u>	
DDA - Further information required by SO	24	09-Apr-21	07-May-21	09-Jun-21 A		■ DDA - Furthe	r information	required by	50 80			+									 	
DDA - 2nd Sub	0	r. =:	07-May-21	.=	10-Jun-21 A	◆ DDA -2nd S	1 :	}				++		 							 	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	11-Jun-21 A	05-Ju l- 21 A			DA - 2nd Revie	ew by S0	o		++									 	
DDA - SO Consent for Construction	0	00 may 2 m	11-Jun-21		05-Jul-21 A			A - SO Cons				+		 							 }	
AIP Landscape Design	59	15-Nov-20	26-Jan-21	30-Dec-20 A								++									 	
AIP - Review by IP / DC	28	15-Nov-20	12-Dec-20	30-Dec-20 A		P/DC		} <u>}</u>				+									 	
AIP - Further information required by SO	0			13-Apr-21 A							-+	++								} 	 	
AIP - 3rd Sub	0			107191 2171	11-May-21 A			ļļ													 	
AIP - 3rd Review by SO	0			12-May-21 A		AIP - 3rd Revie	w by SO							 							 	
AIP - SO Consent for Construction	0		26-Jan-21	12-May-2174	07-Jun-21 A	♦ AIP - SO Conse	1	uction													ļ	
DDA Landscape Design	141	27-Jan-21	22-Jul-21	08-Jun-21 A	13-Nov-21	74 00 00100			DDA I ar	ndscape Design		+									 	
DDA - Draft - Preparation by Designer	42	27-Jan-21	19-Mar-21	08-Jun-21 A	15-Jul-21 A			¦¦		reparation by Designe	er :	+		 							 	
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Mar-21	21-Apr-21	16-Jul-21 A	28-Jul-21 A					A - Draft - Final Revie		e for 1st	Sub :	 							 	
DDA - 1st Sub	0	20 - Widi - 21	21-Apr-21	10-041-2174	28-Jul-21 A					OA - 1st Sub										}	 	
DDA - Review by SO	28	22-Apr-21	19-May-21	29-Jul-21 A	09-Sep-21 A							ΔΟΩ - ΙΙ	Review by	90							 	
DDA - Review by IP / DC	28	22-Apr-21	19-May-21	29-Jul-21 A	14-Sep-21 A			ļļ				ח	Λονιον υ y	why IP I D	<u></u>						ļ <u>-</u>	
		20-May-21			09-Oct-21	- <u> </u>		}}							DDA - Further i	nformation	reatired by			} -	 	
DDA - Further information required by SO	24	20-Way-21	17-Jun-21	10-Sep-21 A				ļļ						1		-41					ļ <u>-</u>	
DDA - 2nd Sub	0	40 1 04	17-Jun-21	40.0-4.04	09-Oct-21	<u></u>		<u> </u>						<u>-</u>	DDA - 2nd Sub	- -		2nd Poviou	h. 80		ļ}	
DDA - 2nd Review by SO	35	18-Jun-21	22-Jul-21	10-Oct-21	13-Nov-21	ļ												2nd Review			ļ <u>.</u>	
DDA - SO Consent for Construction	0		22-Jul-21		13-Nov-21			ļļ .				44					- DUA →	SO Consent	TOF GONSTR	ction	ļļ	
DEPRESSED ROAD [DPR]	120	23-Sep-20	19-Feb-21	29-Apr-21 A	27-Nov-21	<mark>-</mark>		}													ļ 	
DDA DPR - Portal Structure DDA - Draft - Preparation by Designer	120 30	23-Sep-20 23-Sep-20	19-Feb-21 30-Oct-20	29-Apr-21 A		DA - Draft - Preparation	hyDesigno	ļ			-+-	. 								} 	 	
· · · · · · · · · · · · · · · · · · ·					,			}		<u></u>	<u></u>	μDΦ - μ)raft - Fino	Review on	id prepare for	let Suh				} 	 	
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	04-Dec-20	29-May-21 A										I IVENIEW 91		- Houb					ļ	
DDA - 1st Sub	0	0E D 00	04-Dec-20	00 0 01 1	08-Sep-21 A			} <u></u>			<u>-</u> -	DDA - 1	จเ Oulp 	<u> </u>	DA Port						ļ <u>-</u>	
DDA - Review by SO	28	05-Dec-20	01-Jan-21	09-Sep-21 A	08-Oct-21			ļ <u>-</u>				.ii	i	14	DA Review b	-41				ļ <u>ļ</u>	ļ <u>.</u>	
DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21	09-Sep-21 A	08-Oct-21			ļļļ						<u>-</u> -	DA - Review b		rinformati				ļ <u>-</u>	
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21	09-Oct-21	23-Oct-21	ļ		ļļļ				ļļ		ļ .		-41		required by	o∪ ¦ ·		ļļ	
DDA - 2nd Sub	0	40.1 -:	15-Jan-21	010:5:	23-Oct-21			ļļļ				ļļ		 	→ DI	DA 2nd Si	ıo į		0-4/5		ļļ	
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	24-Oct-21	27 - Nov-21		- 1	<u> </u>		<u> </u>		1 1				1 1	; ;	UDĄ -	2nd Revie	w by SO		
Page 2 of 27 ♦ Mlestone	_	Summary															Date		Revision	Che	cked	Approved
Data Date: 02-Oct-21			FD/2	2018/0	4 Tru	nk Road T	2 and	d Infr	astr	ucture W	/orks	/					18-Dec-1			WYu		
CriticalActivity ♦ Actual Milestone											. 0.110			BOUV	GUES		22-Feb-2			SPa/Ll SPa/Ll		NYu NYu
Actual Work				T	סני טפי	velopment	s at s	South	ι Ар) ON			T	RAVAUX	PUBLICS		09-Apr-2 17-Jul-20			SPa/LI		//Yu //Yu
♦ Baseline Milestone				TL	N / 1	L - D - III.	D			(0 04)							09-Oct-2			SPa/LI		//Yu
Baseline Bar				ınree	iviont	hs Rolling:	Pro@	gramr	ne	(Sep-21)							02-Jul-21			SPa/Ll		ΛΥu
			1																			_

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2021												2022	
						June 30 06 13 20	27 04	July 111	18 25	01	August 08 15 22	29 05	Septemb 12		6 03	Octo		4 31	Novemb 07 14		28 05	December 12		02 0	January 09 16	1 23 D
DDA - SO Consent for Construction	0		19-Feb-21		27-Nov-21										T						DDA - SC					
Stage 1A Completion	0		19-Feb-21		27-Nov-21								-							•	Stage 1A	Complet	ion			
WEST VENTILATION BUILDING [WVB]	247	14-Nov-20	14-Sep-21	28-Oct-20 A	18-Dec-21								• v	VEST VEN	TILATIO	N BUIL	DING [WV	/B]								
DDA WVB - ELS Design (DCRA + Dewatering & Pumping T	0	08-Feb-21	08-Feb-21	02-Apr-21 A	27-Ju l- 21 A																					
DDA - 4th Review by SO	0			02-Apr-21 A	04-May-21 A	0																			- 1	
DDA - Further information required by SO	0			05-May-21 A	11-May-21 A	ormation required by S	Φ																			
DDA - 5th Sub	0				11-May-21 A																					
DDA - 5th Review by SO	0			12-May-21 A	16-Jun-21 A	DDA-	5th Review b	y SO																		
DDA - Further information required by SO	0			17-Jun-21 A	20-Jul-21 A				DDA - F	urther in	nformation require	ed by SO														
DDA - 6th Sub	0				20-Ju l- 21 A			<	DDA - 6	th Sub																
DDA - 6th Review by SO	0			21-Jul-21 A	27-Ju l- 21 A				<u> </u>	DA - 6th	Review by SO		Ţ	1		1										
DDA - SO Consent for Construction	0		08-Feb-21		27-Jul-21 A				♦ D	DA - SC	Consent for Cor	nstruction	1	1	1	1										
DDA WVB - Accommodation (SoA)	79	30-Dec-20	09-Apr-21	29-Oct-20 A	09-Oct-21	1	i li							ii	1	1	i				1	1				1
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	29-Oct-20 A	12-Ju l- 21 A			DDA	-Review b	y I P / D	C															
DDA - Further information required by SO	0			09-Mar-21 A	12-Ju l- 21 A	! ! !	: :	DDA	- Further i	nformati	on required by So	o														
DDA - 3rd Sub	0				12-Ju l -21 A			◆ DDA	- 3rd Sub				1		1											
DDA - 3rd Review by SO	0			13-Jul-21 A	09-Oct-21	1 1 1 1	i I i					·-ii				DDA	3rd Rev	iew by SC)	11	1	1		1	<u> </u>	i i
DDA - SO Consent for Construction	0		09-Apr-21		09-Oct-21		1111			1		1111			††	♦ DDA	SO Con	sent for ¢	onstructio	n		1		1		1 1
DDA WVB - Permanent Structure	78	11-Mar-21	17-Jun-21	03-Feb-21 A	17-Jul-21 A	DD A	WVB Perma	anent Stru	ucture	*****		11-1	+	† <u> </u>	††		† 	-111				1		† <u>†</u>		1
DDA - Review by IP / DC	28	11-Mar-21	07-Apr-21	03-Feb-21 A	13-May-21 A	py I P / DC	1							1	1		ļ					11		ļ		1
DDA - Further information required by SO	30	08-Apr-21	13-May-21	20-Mar-21 A	13-May-21 A	nformation required by	\$0								1	1				1						1
DDA - 2nd Sub	0		13-May-21		13-May-21 A			†					·	1	1	1					-1	1		ļ		1 1
DDA - 2nd Review by SO	35	14-May-21	17-Jun-21	14-May-21 A	17-Ju l -21 A		<u></u>		DDA - 2nd	Review	by SO		†	† <u>†</u>	††		ii	-111		1	1	1		1		i i
DDA - SO Consent for Construction	0		17-Jun-21		17-Jul-21 A	→	i - - -	♦ I	DDA - SO	Consein	t for Construction	11-1		† <u> </u>	++	1	ii					1		ļ		11
DDA WVB - ABWF	151	11-Mar-21	11-Sep-21	14-May-21 A	18-Dec-21		·	 					DD/	4 WVB;- Al	BWF	1	† <u>†</u>	: :				· †		†		††
DDA - Draft - Preparation by Designer	45	11-Mar-21	07-May-21	14-May-21 A	14-Aug-21 A		·	·				aft - Prepara	tion by D	Designer	11		† 					·		†		†
DDA - Draft - Final Review and prepare for 1st Sub	24	08-May-21	05-Jun-21	16-Aug-21 A	10-Sep-21 A	#	i - -						DDA	- Draft - Fi	inal Revi	ew and	prepare fo	or 1st Sub			1	1				1
DDA - 1st Sub	0		05-Jun-21		10-Sep-21 A	♦	1			1			DD A	1st Sub	1	1		: :				· †		†		1
DDA - Review by SO	28	06-Jun-21	03-Ju l- 21	11-Sep-21 A	08-Oct-21							111					Reviewb	y SO				·		ļ		††
DDA - Review by IP / DC	28	06-Jun-21	03-Ju l- 21	11-Sep-21 A	08-Oct-21							11-1				DDA	Review b	y IP / DC						††		1
DDA - Further information required by SO	30	05-Ju l -21	07-Aug-21	09-Oct-21	13-Nov-21	 	†	 				††-†		† <u> </u>	-				DI	DA - Furt	ner informa	tion requi	red by SO	†		††
DDA - 2nd Sub	0		07-Aug-21		13-Nov-21	 	† <u>-</u>	 		♦		++	+	 	++				♦ DI	DA - 2nd	Sub	·				
DDA - 2nd Review by SO	35	08-Aug-21	11-Sep-21	14-Nov-21	18-Dec-21	 	1-1-1	 						 	+	·	ļ						DDA - 2nd	Review I	by SO	1
DDA - SO Consent for Construction	0	· ·	11-Sep-21		18-Dec-21	 	† 	† 				++-+	\(\frac{1}{\phi}\)	 	++	· †	 					•	DDA - SC	Conseint	for Constr	ruction :
DDA WVB - General Building Plan	77	16-Jun-21	14-Sep-21	28-Oct-20 A	09-Oct-21	-							-	DDA WVB	Genera	Buildir	ig Plan									1
DDA - Review by IP / DC	28	16-Jun-21	13-Ju l- 21	28-Oct-20 A	12-Ju l- 21 A			📛 DÞA	A - Review			1111	1	1	1	1				11	1	1				1 1
DDA - Further information required by SO	0			09-Mar-21 A	12-Ju l- 21 A		; <u> </u>	DDA	- Further i	nformati	on required by S	o			††		 					11		ļ		†
DDA - 3rd Sub	0				12-Ju l- 21 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t - 	♦ DDA	- 3rd Sub			111	· · · · · ·	 	††		 					1				††
DDA - 3rd Review by SO	0			13-Jul-21 A	09-Oct-21	1-1	1	·							+	DDA	3rd Rev	iew by SC				· [ļ		††
DDA - SO Consent for Construction	0		14-Sep-21		09-Oct-21	1-11	†	††-		·		†††	♦	 	††	♦ DDA	SO Con	sent for C	onstructio	n :	1-1-	††		 		††
DDA WVB - Aesthetic Design	199	14-Nov-20	20-Ju l -21	18-Feb-21 A	16-Dec-21	 			▼ DDA W	VB - Aes	sthetic Design	111		† -	††	ļ	† 					·				
DDA - Draft - Preparation by Designer	48	14-Nov-20	12-Jan-21	18-Feb-21 A	03-May-21 A	n by Designer	1111			1			1	1	1	1	1 1	-111	1	1	1	11	<u>-</u>	1 1		111
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	04-May-21 A	13-May-21 A	nal Review and prepar	e for 1st Sub	·				111		ii	1		i	: :			1	ii		†		††
DDA - 1st Sub	0		09-Feb-21		13-May-21 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T- - -	1					·-	T	††	1	: -			-11	1-1-	1		1		:il
DDA - Review by SO	28	10-Feb-21	09-Mar-21	14-May-21 A	03-Jun-21 A	DDA - Review by S	10	ļ				11-1				1						1		ļ		††
DDA - Review by IP / DC	28	10-Feb-21	09-Mar-21	14-May-21 A	08-Oct-21			·							+	DDA	Reviewb	y IP / DC			1-1-	††		İ		††
						<u> </u>							-	<u> </u>	1			- 11 - 1			T 5:	inter	- i	المما	· · · · · ·	<u> </u>
Page 3 of 27 ♦ Milestone Planned Bar	:	Summary		001515	. —				_										18-De	Date	Rev 00V1	ision	Chec WYu	кеа	Appro	oved
Data Date: 02-Oct-21			ED/2	2018/0	4 Fru	nk Road T	2 an	d In	trast	truc	ture W	orks/							22-Fe		01V0		SPa/LLo	,	WYu	
◆ Actual Miestone				f	or De	velopmen	ts at	Sou	ith A	pro	n				BOL	JYG	UES		09-Ap		01V1		SPa/LL	_	WYu	
Actual Work ♦ Baseline Milestone					J. J		a.		, ,	٠. ح	•				KAVA	UX P	UBLICS		17-Ju		01V2		SPa/LL	_	WYu	
Baseline Bar				Three	Mont	ths Rolling	Pro	gran	nme	(5	en-21\								09-0		01V3		SPa/LL	_	WYu	
				111100	IVIOII		, , , , ,	9.41		٠,٠	- P - 1)								02-Ju	⊢ 21	02V0		SPa/LL	ין כ	WYu	

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 80 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 2
DDA - Further information required by SO	24	10-Mar-21	10-Apr-21	04-Jun-21 A	19-Jun-21 A	
DDA - 2nd Sub	0		10-Apr-21		19-Jun-21 A	♦ DDA-2nd'Sub
DDA - 2nd Review by SO	35	11-Apr-21	15-May-21	20-Jun-21 A	14-Oct-21	DDA -[2nd Review by SO]
DDA - 2nd Review by IP	35	11-Apr-21	15-May-21	20-Jun-21 A	14-Oct-21	DDA - 2nd Review by IP
DDA - Further information required by SO	24	17-May-21	15-Jun-21	15-Oct-21	11-Nov-21	DDA -Further information required by \$0
DDA - 3rd Sub	0		15-Jun-21		11-Nov-21	♦ DDA -3rd Sub
DDA - 3rd Review by SO	35	16-Jun-21	20-Ju l- 21	12-Nov-21	16-Dec-21	IDDA -3rd Review by SO
DDA - SO Consent for Construction	0		20-Ju l- 21		16-Dec-21	◆ DDA -SO Consent for Construction
SOUTH APRON ROAD WORKS	483	30-Oct-20	21-Jun-22	01-Apr-21 A		
AIP Road L10 (S)	0	30-Oct-20	30-Oct-20	27-Apr-21 A		
AIP - 4th Review by SO	0			27-Apr-21 A		
AIP - SO Consent for DDA Submission	0		30-Oct-20		10-May-21 A	√ for DDA Şubmisşion
DDA Road L10 (S) + Outfall 2 - Permanent Utility Design	0	26-Feb-21	26-Feb-21	09-Apr-21 A	26-May-21 A	
DDA - 4th Review by SO	0			09-Apr-21 A	•	
DDA - SO Consent for Construction	0		26-Feb-21		26-May-21 A	A SO Consent for Construction
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking	0	25-May-21	25-May-21	16-Apr-21 A		A Road L10 (S) - Alignment, Traffic Sign, Road Marking and Traffic Light
DDA - 3rd Review by SO	0	,	,	16-Apr-21 A		<u> </u>
DDA - Further information required by SO	0			04-May-21 A	•	
DDA - 4th Sub	0			, .	12-Jun-21 A	
DDA - 4th Review by SO	0			14-Jun-21 A		
DDA - Further information required by SO	0			25-Jun-21 A	09-Oct-21	DDA' - Further information required by SO
DDA - 5th Sub	0				09-Oct-21	◆ DDA - 5th Sub
DDA - 5th Review by SO	0			11-Oct-21	20-Nov-21	DDA - 5th Review by SO
DDA - SO Consent for Construction	0		25-May-21	11-001-21	20-Nov-21	◆ DDA - 50 Conseint for Construction
DDA Road L10 (S) - Roadworks and Street Furniture	0	19-Aug-21	19-Aug-21	01-Apr-21 A	20-Nov-21	▼ DDA Road L10 (S): - Roadworks and Street Furniture
DDA - 3rd Review by SO	0	19-Aug-21	19-Aug-21	01-Apr-21 A		
DDA - Further information required by SO	0			14-May-21 A		<u> </u>
DDA - 4th Sub	0			14 May 2171	31-May-21 A	
DDA - 4th Review by SO	0			01-Jun-21 A	21-Jun-21 A	<u> </u>
<u> </u>	0			22-Jun-21 A	02-Jul-21 A	
DDA - Further information required by SO	0			22-JUIF2 I A	02-Jul-21 A	DDA- fuller intolination required by 30
DDA - 5th Sub	-			00 1.104 4		DDA - 5th Reliew bly SO
DDA - 5th Review by SO	0			03-Jul-21 A	21-Jul-21 A	
DDA - Further information required by SO	0			22-Jul-21 A	09-Oct-21	DDA - Further information required by SO
DDA - 6th Sub	0				09-Oct-21	◆ DDA - 6th Sub
DDA - 6th Review by SO	0		40.4	11-Oct-21	20-Nov-21	DDA-6th Review by SQ
DDA - SO Consent for Construction	0		19-Aug-21		20-Nov-21	◆ DDA - \$0 Consent for Construction
DDA Foot Bridge FB-02	0	09-Mar-21	09-Mar-21	01-Apr-21 A	20-Nov-21	Sampling the street N. CO
DDA - Further information required by SO	0			01-Apr-21 A		
DDA - 3rd Sub	0			40.14 011	11-May-21 A	<u> </u>
DDA - 3rd Review by SO	0			12-May-21 A		
DDA - Further information required by SO	0			21-Jul-21 A	09-Oct-21	DDA' - Further infiprmation required by SO
DDA - 4th Sub	0				09-Oct-21	♦ DDA-4th Sub
DDA - 4th Review by SO	0			11-Oct-21	20-Nov-21	DDA - 4th Review by SO
DDA - SO Consent for Construction	0	00 1	09-Mar-21	AW 1	20-Nov-21	♦ DDA - SO Consent for Construction
AIP - Kiosk	36	03-Jan-22	16-Feb-22	07-Jan-22	21-Feb-22	
AIP - Draft - Preparation by Designer	36	03-Jan-22	16-Feb-22	07-Jan-22*	21-Feb-22	
Page 4 of 27 ♦ Milestone	_	Summary				Date Revision Checked Approve
Data Date: 02-Oct-21			FD/	2018/0	4 Tru	nk Road T2 and Infrastructure Works
Critical Activity			/			
Actual Work				10	or Dev	velopments at South Apron BOUYGUES TRAVAUX PUBLICS 09-Apr-20 01V1 SPa/LLo WYU 17-Jul-20 01V2 SPa/LLo WYU
♦ Baseline Milestone						100 Oct 200 Oc
Baseline Bar				Ihree	· Mont	ths Rolling Programme (Sep-21)
<u> </u>			l			

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish						2021			-th-sec					20:	
							ine 13 20 2		August 25 01 08 15 22		September 12 19	26 03	Octo			ovember 14 21	28 05 12		Janu 02 09	ary 16 23 D
[STE] DDA CUE L10 (N) Permanent Works	29	06-Oct-21	09-Nov-21	02-Apr-21 A	30-Oct-21							▼	-		▼ [\$TE] DDA CU	E L10 (N) Perman			
DDA - 2nd Review by SO	35	06-Oct-21	09-Nov-21	02-Apr-21 A	14-May-21 A							-	1	1 1	<u> </u>	DDA - 2nd Rev	iew by SO			
DDA - Further information required by SO	0			15-May-21 A	28-May-21 A	DA - Further	information r	equired by SO												
DDA - 3rd Review by SO	0			28-May-21 A	23-Jun-21 A		DD DD	A - 3rd Review by SO												
DDA - 3rd Sub	0				28-May-21 A	DA - 3rd Sul					T T T		1							
DDA - Further information required by SO	0			23-Jun-21 A	26-Aug-21 A					DDA Furt	ner information	required b	y SO							
DDA - 4th Sub	0				26-Aug-21 A					DDA - 4th S	Sub		[1		ii				
DDA - 4th Review by SO	0			27-Aug-21 A	08-Sep-21 A						DDA - 4th Rev	iew by SC)			1 1		1 1		
DDA - Further information required by SO	0			09-Sep-21 A	16-Sep-21 A					•	DDA -	Further in	formation	required by	0				1	
DDA - 5th Sub	0				16-Sep-21 A						◆ DDA	5th Sub				1				
DDA - 5th Review by SO	0			17-Sep-21 A	30-Oct-21					TH					DDA - 5th	Review by SC				
DDA - SO Consent for Construction	0		09-Nov-21		30-Oct-21	1								•) 💠	DDA - SO Con	sent for Constructi	αn	†	
[STE] DDA District Cooling System Permanent Works	0	09-Dec-20	09-Dec-20	13-Apr-21 A	09-Oct-21					***	1 1			1 1		† <u>†</u>		1 1		
DDA - 3rd Review by SO	0			13-Apr-21 A	06-May-21 A	SO							1							
DDA - Further information required by SO	0			07-May-21 A	02-Sep-21 A			- <u></u>		DDA	Further infor	nation req	uired by	\$O						
DDA - 4th Sub	0				02-Sep-21 A					♦ DDA	4th Sub		1		[1			
DDA - 4th Review by SO	0			03-Sep-21 A	09-Oct-21					11=			■ DDA	4th Review	by SO					
DDA - SO Consent for Construction	0		09-Dec-20		09-Oct-21			11		111	1 1		♦ DD/	SO Conser			1 1			
[STE] AIP Kai Hing Road / Lam Chak Street Modification	81	03-Nov-21	11-Feb-22	03-Nov-21	11-Feb-22					***	1 1				V	1 1 1	1 1		1 1 1	1 1
AIP - Draft - Preparation by Designer	24	03-Nov-21	30-Nov-21	03-Nov-21*	30-Nov-21											!!!!	AIP - Draft - F	reparation by	Designer	
AIP - Draft - Final Review and prepare for 1st Sub	12	01-Dec-21	14-Dec-21	01-Dec-21	14-Dec-21									1				NP - Draft - F	inal Review ar	d prepare for
AIP - 1st Sub	0		14-Dec-21		14-Dec-21						1 1			1		11		AIP - 1st Sub		
AIP - Review by SO	28	15-Dec-21	11-Jan-22	15-Dec-21	11-Jan-22												=	<u></u>	A)	P - Review by
AIP - Review by IP / DC	28	15-Dec-21	11-Jan-22	15-Dec-21	11-Jan-22	1-1				111	1						=	- }	A)	P - Review by
AIP - Further information required by SO	24	12-Jan-22	11-Feb-22	12-Jan-22	11-Feb-22						1 1 1									
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	30-Apr-21 A	15-Jun-21 A			11:::::::::::::::::::::::::::::::::::::		1111	·						-1-1			
DDA - Further information required by SO	0			30-Apr-21 A	27-May-21 A	DA - Further	information re	equired by SO												
DDA - 5th Sub	0				27-May-21 A	DA - 5th Sub														
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A			Review by SO												
DDA - SO Consent for Construction	0		16-Dec-20		15-Jun-21 A		DDA SO	Consent for Construction												
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22-Dec-20	22-Dec-20	03-May-21 A	27-Aug-21 A						1 1 1					1 1			1 1	1 1
DDA - Further information required by SO	0			03-May-21 A	09-Jul-21 A	: :	: :	DDA - Furthe	rinformation required by SO											
DDA - 4th Sub	0				09-Jul-21 A			DDA - 4th Su	b											
DDA - 4th Review by SO	0			10-Jul-21 A	26-Jul-21 A				DDA - 4th Review by SO		T 1		1							
DDA - Further information required by SO	0			27-Jul-21 A	05-Aug-21 A				DDA - Further inf	ormation requ	ired by SO									
DDA - 5th Sub	0				05-Aug-21 A				DDA - 5th Sub											
DDA - 5th Review by SO	0			06-Aug-21 A	27-Aug-21 A				: : :	DDA - 5th	Review by SO									
DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A					♦ DDA-SO	Consent for Co	nstruction	٠							
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	0	03-Dec-20	03-Dec-20	13-Apr-21 A	13-May-21 A]				
DDA - 4th Review by SO	0			13-Apr-21 A	13-May-21 A	ew by SO														
DDA - SO Consent for Construction	0		03-Dec-20		13-May-21 A	sent for Cons	truction						.][
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	21-Apr-21 A	15-Jul-21 A															
DDA - Further information required by SO	0			21-Apr-21 A	20-May-21 A	urther inform	ation required	i by SO												
DDA - 5th Sub	0				20-May-21 A	h Sụb										JJ				
DDA - 5th Review by SO	0			21-May-21 A	15-Jul-21 A	1 1	1. 1	DDA - 5	th Review by SO											
DDA - SO Consent for Construction	0		03-Dec-20		15-Jul-21 A			♦ DDA -S	O Consent for Construction											
Page 5 of 27 ♦ Milestone		Summary														Date	Revision	Chec	ked A	pproved
1 age 3 61 27	_	Juninary	ED#	2040/0	л Т <u></u>	de Da	~4 T) and late-	otruoturo 14	larks					1	8-Dec-19	00V1	WYu		_P p.0104
Data Date: 02-Oct-21			ED/						structure V	VOIKS		P.C	uve	LIFC		2-Feb-20	01V0	SPa/LLo		
◆ Actual Miestone Actual Work				f	or Dev	/elopr	nents	s at South	Apron			TRAV	UYG	UES		9-Apr-20	01V1	SPa/LLo		
♦ ♦ Baseline Milestone						•			•			110747	- IOA F			7-Jul-20	01V2 01V3	SPa/LLo		
Baseline Bar				Three	Mont	hs Ro	lling	Programn	ne (Sep-21))						9-Oct-20 2-Jul-21	01V3 02V0	SPa/LLo		
									\ 1 /						Ĕ		1,7=	15. 66 220		

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		_		_			2021											2022	
						June 30 06 13 20	27 04	July 11 18 25	5 01 0	August 15 22		Septemb 12		26 03	October 10 17	24 3	No 31 07	vember 14 21	 28 05	Decemb 12		02	January 09 16	1 23 D
[STE] AIP Road L10 (N)	69	24-Dec-21	21-Mar-22	01-Apr-21 A	17-Sep-21 A																V			
AIP - Review by IP / DC	28	24-Dec-21	20-Jan-22	01-Apr-21 A	08-Ju l- 21 A																=	1 1		AIP - R
AIP - Review by SO	28	24-Dec-21	20-Jan-22	01-Apr-21 A	20-May-21 A																=	1		AIP - R
AIP - Further information required by SO	0			20-May-21 A	08-Ju l- 21 A			AIP - Further info	ormation req	uired by SO														
AIP - 2nd Review by SO	0			08-Ju l- 21 A	21-Jul-21 A		<u> </u>	AIP	- 2nd Reviev	v by SO												I		T
AIP - 2nd Sub	0				08-Ju l- 21 A		♦	AIP - 2nd Sub	1		1111	1												1
AIP - Further information required by SO	24	21-Jan-22	21-Feb-22	22-Ju l- 21 A	10-Aug-21 A	1													11-1					1 1
AIP - 3rd Sub	0		21-Feb-22		10-Aug-21 A			1 1	•	·	1													1 1
AIP - 3rd Review by SO	28	22-Feb-22	21-Mar-22	11-Aug-21 A	24-Aug-21 A	1								1					1-1					1
AIP - Further information required by SO	0			25-Aug-21 A	07-Sep-21 A	1				_		A I P - Fu	rther infor	rmation re	quired by S	0			i-1i			li	·	i i
AIP - 4th Sub	0				07-Sep-21 A						•	AIP - 4th	Sub						1111					1
AIP - 4th Review by SO	0			08-Sep-21 A	17-Sep-21 A	1						 -	AIP - 4th	h Review L	y SO	·						l		††
AIP - SO Consent for DDA Submission	0		21-Mar-22		17-Sep-21 A						11-1	•		1					1-1-1			1 1		1
[STE] DDA Road L10 (N) - Permanent Utility Design	72	22-Mar-22	21-Jun-22	12-Ju l- 21 A	15-Nov-21						1-1			1								1		1
DDA - Draft - Preparation by Designer	6	22-Mar-22	28-Mar-22	12-Ju l- 21 A	23-Ju l- 21 A	1																1		1
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	24-Jul-21 A	28-Ju l- 21 A						TH			1	· · · · ·	T			[]	· [· · · · · ·	1 T	·	Til
DDA - 1st Sub	0		04-Apr-22		28-Jul-21 A	1 1 1 1 1 1 1		•	>		1111	1		1		1			111			1 1		111
DDA - Review by SO	28	05-Apr-22	02-May-22	29-Ju l- 21 A	28-Aug-21 A	1						+		1								1		††
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	29-Ju l- 21 A	08-Oct-21	1-111								+		1			Hi					T
DDA - Further information required by SO	12	03-May-22	17-May-22	30-Aug-21 A	11-Oct-21														1-1					1
DDA - 2nd Sub	0		17-May-22		11-Oct-21	1-1-1-1					11-1			1	•	1			i-ii			1		1
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	12-Oct-21	15-Nov-21	1					††			-				· · · · · · · · · · · · · · · · · · ·	1-1			1		1
DDA - SO Consent for Construction	0		21-Jun-22		15-Nov-21	 					1-1			-		+		•	1-1			 -		††
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Ma	60	05-Apr-22	21-Jun-22	19-Apr-21 A	13-Nov-21						† † <u> </u>			-					- 			l		††
DDA - Review by SO	28	05-Apr-22	02-May-22	19-Apr-21 A	27-May-21 A	1-1-1-1					11-1			1		1			1111			1		11
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	19-Apr-21 A	21-May-21 A	1					1-1			1								1		1
DDA - Further information required by SO	12	03-May-22	17-May-22	27-May-21 A	26-Jul-21 A						††					· † · · · ·						1		1
DDA - 2nd Sub	0		17-May-22		26-Jul-21 A	1		•			11-1	·		-		1			1-1			1		1
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	27-Ju l -21 A	05-Aug-21 A	 			-		††	· · · · · ·		-		1			1-1					1
DDA - Further information required by SO	0			06-Aug-21 A	07-Sep-21 A	t-:-:-:						DDA - F	urther info	ormation r	equired by	so			- 			l		ii
DDA - 3rd Sub	0			-	07-Sep-21 A						•	DDA - 3	rd Sub	-										†
DDA - 3rd Review by SO	0			08-Sep-21 A	20-Sep-21 A	1					1111		DDA -	- 3rd Revi	ew by SO				f-ff			1	1	1
DDA - Further information required by SO	0			21-Sep-21 A	09-Oct-21	1					11-1			-	DDA - Fu	rther inform	nation req	ired by SO	1-1			1		1
DDA - 4th Sub	0				09-Oct-21	 					†-	· 			DDA - 4tl	h Sub			}			 -		†
DDA - 4th Review by SO	0			10-Oct-21	13-Nov-21						 							DDA - 4th	Review by	so		-		++
DDA - SO Consent for Construction	0		21-Jun-22		13-Nov-21	1					1-1													ii
[STE] DDA Road L10 (N) - Roadworks and Street Furniture	60	05-Apr-22	21-Jun-22	19-Apr-21 A	19-Oct-21	1					 	+				+						<u> </u>		††
DDA - Review by SO	28	05-Apr-22	02-May-22	·	10-Jun-21 A						††- 			-		· † · · · ·			1-1			lii-		††
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	20-Apr-21 A	11-Jun-21 A	 					††- 			1					11-1-		 	 	·	
DDA - Further information required by SO	12	03-May-22	17-May-22	10-Jun-21 A	21-Ju l -21 A						11-1	†		1					1-1			11		1
DDA - 2nd Sub	0		17-May-22		21-Ju l- 21 A	1-1111111111111	1:::	•			†††			1					1-1			1		††
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	22-Ju l- 21 A	18-Aug-21 A	1					††- 	+		11		·			1-1					††
DDA - Further information required by SO	0			19-Aug-21 A		1					DDA Furth	er inform	nation req	ured by S	0	- 			<u> </u>			lit		††
DDA - 3rd Sub	0			-	25-Aug-21 A	1				•	DDA - 3rd S	: Su¦b		††		† -			11-1			1t-	· 	ttl
DDA - 3rd Review by SO	0			26-Aug-21 A		1						DDA - 3	rd Review	v by SO		† 						 		††
DDA - Further information required by SO	0			08-Sep-21 A		1					1 1			17	ation requir	ed by SO						li		
		Summary		•	*	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>			11 -	- 11		- i - i	Date	Rev	vision	Che	cked	Appro	ved
Tage 0 01 27	_	Summary		2040/0	л т	ak Dood Ti	2	ا املاء	-tr4	tura M	ماده						18	-Dec-19	00V1	0.011	WYu		, ippir	
Data Date: 02-Oct-21			⊏D/∠			nk Road T					OIKS			D.C.	V6			!-Feb-20	01V0		SPa/LL		WYu	
◆ Actual Milestone Actual Work				fo	or Dev	/elopments	s at S	South /	Apror	า			(,	BOU TRAVAI	YGUE JX PUBI	ics)		-Apr-20	01V1		SPa/LL		WYu	
♦ ♦ Baseline Milestone						•			•						- X 1 9 2			'-Jul-20	01V2		SPa/LL SPa/LL		WYu WYu	
Baseline Bar				Three	Mont	hs Rolling	Proc	ramm	e (Se	ep-21)								-Oct-20 -Jul-21	01V3 02V0		SPa/LL SPa/LL		WYu	
			<u> </u>			<u> </u>		*	`	. ,		_							102.0		10. 00 11	-		

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				2021									2022	
						June July 06 13 20 27 04 11	August 18 25 01 08 15 2		ptember	26 03	October 10 17	24 31	November 07 14 2	21 28 (Decem 05 12			January 9 16	23 1
DDA - 4th Sub	0				14-Sep-21 A	00 10 20 21 01 11	10 20 01 00 10 2		◆ DDA - 41		10 11	21 01	0, 11		1 12	10 20	02 0	0 10	20 3
DDA - 4th Review by SO	0			15-Sep-21 A	19-Oct-21						D	DA - 4th Rev	iew by SO						
DDA - SO Consent for Construction	0		21-Jun-22		19-Oct-21	· · · · · · · · · · · · · · · · · · ·					•					1	1		
[STE] DDA Road L10 (N) - Street Lighting	72	22-Mar-22	21-Jun-22	12-Jul-21 A	21-Oct-21	 										! <u>-</u>	 		
DDA - Draft - Preparation by Designer	6	22 - Mar-22	28-Mar-22	12-Jul-21 A	16-Ju l- 21 A											1	1		
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	17-Jul-21 A	20-Jul-21 A		=						· · · · · · · · · · · · · · · · · · ·			1 1	1		
DDA - 1st Sub	0		04-Apr-22		20-Jul-21 A	}	•										ļ		
DDA - Review by SO	28	05-Apr-22	02-May-22	21-Ju l- 21 A	16-Aug-21 A														
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	21-Jul-21 A	16-Sep-21 A	} <u>{</u>			-							1	1		
DDA - Further information required by SO	12	03-May-22	17-May-22	17-Aug-21 A	16-Sep-21 A				-							! <u>-</u>			
DDA - 2nd Sub	0		17-May-22		16-Sep-21 A				•							1	ii		
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	17-Sep-21 A	21-Oct-21	}	····										ļ		
DDA - SO Consent for Construction	0		21-Jun-22		21-Oct-21						•					: <u>:</u>			
SUPPORTING UNDERGROUND STRUCTURE [SUS]	228	03-Oct-20	13-Jul-21	03-May-21 A	23-Feb-22	▼ s	UPPORTING UNDERGROUND ST	RUCTURE [SU\$]									ļ		
AIP SUS - Internal Structure	145	03-Oct-20	29-Mar-21	03-May-21 A	13-Nov-21	<u> </u>											† 		
AIP - Draft - Preparation by Designer	72	03-Oct-20	29-Dec-20	03-May-21 A	12-Jun-21 A	AIP - Draft - Preparation by De	signer										1		
AIP - Draft - Final Review and prepare for 1st Sub	14	30-Dec-20	15-Jan-21	14-Jun-21 A	23-Jun-21 A	AIP - Draft - Final Re	eview and prepare for 1st Sub									11			
AIP - 1st Sub	0		15-Jan-21		23-Jun-21 A	◆ AIP - 1st Sub													
AIP - Review by SO	28	16-Jan-21	12-Feb-21	24-Jun-21 A	19-Ju l- 21 A		■ AIP - Review by SO									† <u>†</u>	ļ		
AIP - Review by IP / DC	28	16-Jan-21	12-Feb-21	24-Jun-21 A	08-Oct-21		<u> </u>		·i		AIP - Review	v by I P / DC							
AIP - Update & prepare for 2nd Sub	12	16-Feb-21	01-Mar-21	20-Jul-21 A	16-Oct-21	} <u> </u>					AIP	Update & p	repare for 2nd S	Sub		1	1		
AIP - 2nd Sub	0		01-Mar-21		16-Oct-21						♦ AIP	2nd Sub				† <u>†</u>	 		
AIP - 2nd Review by SO	28	02-Mar-21	29-Mar-21	17-Oct-21	13-Nov-21								AIP - 2	nd Review by	/ SQ	1			
AIP - SO Consent for DDA Submission	0		29-Mar-21		13-Nov-21	 - - - 							♦ AIP i S	O Consent fo	or DDA Su	bmission	ļ		
DDA SUS -Internal Structure	83	30-Mar-21	13-Jul-21	15-Nov-21	23-Feb-22	i i i v Di	DA SUS - Internal Structure												
DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	15-Nov-21	28-Dec-21												DDA - Draft	- Prepara	ation by
DDA - Draft - Final Review and prepare for 1st Sub	24	17-May-21	15-Jun-21	29-Dec-21	26-Jan-22	<u></u>										·	ļ		— b
DDA - 1st Sub	0		15-Jun-21		26-Jan-22	♦										! <u>-</u>			♦ D
DDA - Review by SO	28	16-Jun-21	13-Ju l- 21	27-Jan-22	23-Feb-22											1	1		
DDA - Review by IP / DC	28	16-Jun-21	13-Jul-21	27-Jan-22	23-Feb-22	}										·	 		
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	133	17-Nov-20	03-May-21	30-Nov-20 A	13-Oct-21	G SHAFT [C&C / LS]										<u> </u>			
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	0	22-Dec-20	22-Dec-20	24-Apr-21 A	13-Oct-21											1			
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A	DDA - Further information required by	SO												
DDA - 4th Sub	0				04-Jun-21 A	DDA-4th Sub										1	1		
DDA - 4th Review by SO	0			05-Jun-21 A	16-Ju l- 21 A	<u>iiiiiii</u>	DDA - 4th Review by SQ					·i					1		
DDA - Further information required by SO	0			17-Jul-21 A	07-Oct-21						DDA - Furthe	r information	required by SC			1 1			
DDA - 5th Sub	0				07-Oct-21					•	DDA - 5th Su	b				1			
DDA - 5th Review by SO	0			08-Oct-21	13-Oct-21					-	DDA -	th Review b	y SO						
DDA - SO Consent for Construction	0		22-Dec-20		13-Oct-21	``````````````````\					◆ DDA - S	O Consent	or Construction			1	1		
Stage 2A Completion	0		22-Dec-20		13-Oct-21						♦ \$tage 2	A Completio	n i			<u> </u>	 		
DDA - LS Tympanum Structure for TBM Launching	61	16-Feb-21	03-May-21	29-Jan-21 A	16-Jun-21 A	ure for TBM Launching										1	1		
DDA - Further information required by SO	36	16-Feb-21	29-Mar-21	29-Jan-21 A	22-May-21 A	her information required by SO						1					1		
DDA - 2nd Sub	0		29-Mar-21		22-May-21 A	Sub	[T		
DDA - 2nd Review by SO	35	30-Mar-21	03-May-21	23-May-21 A	16-Jun-21 A	DDA - 2nd Réview by SO			<u>-</u>										
DDA - SO Consent for Construction	0		03-May-21		16-Jun-21 A	◆ DDA - SO Consent for Con	struction										†		
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scher	0	03-Mar-21	03-Mar-21	24-Apr-21 A	11-Oct-21							·i				1	1		
T		_						· · · · · ·				'	Dot-		ovicios	Char	kod	Anne	·od
Page 7 of 27 Page 7 of 27 Planned Bar Planned Bar		Summary		2040/2	4 -	D 1.T0 ::		., .					Date 18-Dec-19		evision	WYu Chec	keu	Approv	vea
Data Date: 02-Oct-21			ED/2	2018/0	4 Trui	Road T2 and Ir	ntrastructure V	vorks					22-Feb-20			SPa/LLo	v /v	۷Yu	
♦ Actual Miestone				f	or Dev	lopments at Soi	uth Apron			BOU	YGUES		09-Apr-20			SPa/LLd		V Yu	
Actual Work Actual Work Baseline Milestone				•	- 0					IKAVAL	A PUBLIC	13	17-Jul-20			SPa/LLo		۷Yu	
Baseline Bar				Three	Mont	Rolling Progra	mme (Sen-21)				1	09-Oct-20	_		SPa/LLo		VYu NV.	
							(30p 21	,					02-Jul-21	10200	1	SPa/LLo	۷	VYu	

Dur	02V0 Start	02V0 Finish	Start	Finish																							
					June 30 06 13 20) 27			25 01			29			26				31			28 05			6 02		
0			24-Apr-21 A	04-Jun-21 A	$\overline{}$																				1		
0				04-Jun-21 A	DDA - 4th Sub		1			7											1				1	1 1	
0			05-Jun-21 A	16-Ju l- 21 A				DDA -	4th Revie	w by SO		111							11		-1				1	†	
0			17-Ju i -21 A	05-Oct-21	T	7	1				 	4				DD/	A - Furl	ther infor	mation red	uired by	so		·· <u> </u>			††	
0				05-Oct-21	T-11		1	-1		7		111				♦ DDA	A - 5†h	Sub	11		1				1	1 1	
0			06-Oct-21	11-Oct-21						+							DDA	5th Rev	iew by S	o ;						11	
0		03-Mar-21		11-Oct-21	1					++		++				•	DDA	- SO Cor	nsent for (Constructi	οή						
111	17-Nov-20	01-Apr-21	30-Nov-20 A	02-Sep-21 A	 					+		†+															
18	17-Nov-20	07-Dec-20	30-Nov-20 A	12-Jun-21 A	DDA - Dr	rafit - Pre	paration b	y Designer				1111							-1 -								
6	08-Dec-20	14-Dec-20	14-Jun-21 A	02-Jul-21 A			DDA - D	raft - Final I	Review an	nd prepare	for 1st Su	Ь							11							††	
0		14-Dec-20		02-Ju l -21 A	† 	•	DDA 1s	st Sub		-†		1111							-111-							1	
28	15-Dec-20	11-Jan-21	03-Ju l- 21 A	16-Ju l- 21 A		777	 	DDA -	Review by	y SO		†							- -					}		+	
28	15-Dec-20	11-Jan-21	03-Ju l- 21 A	16-Ju l -21 A	 	+++1		DDA -	Review by	y i P / DC		++-+							1							++	
36	12-Jan-21	25-Feb-21	17-Ju l -21 A	30-Aug-21 A	 							DDA	- Furthe	r informat	tion req	uired by	y SQ		- -							+	
0		25-Feb-21		30-Aug-21 A	 		††			++		♦ DDA	- 2nd Si	ub					·#							††	
35	26-Feb-21	01-Apr-21	31-Aug-21 A	-	 							† 	DA - 2nd	Review t	by SO				- -							††	
0		01-Apr-21		02-Sep-21 A	 		† <u>-</u>					4-4-4-				structio	n ¦							}		† †	
87	22-Nov-20	10-Mar-21	20-Feb-21 A	08-Jul-21 A								+														++	
28	22-Nov-20	19-Dec-20		07-Jun-21 A	DDA - Réview	νby IP /	DC			++		111							1							††	
36	21-Dec-20	03-Feb-21			DDA - Further	r informa	ation requir	ed by SO		+		††††							1					ļ <u>-</u>		†	
0		03-Feb-21		07-Jun-21 A								1111							- -							†+	
35	04-Feb-21	10-Mar-21	08-Jun-21 A	08-Ju l -21 A			DD DD	A 2nd Re	view by S	SO		††+†							- -							†	
0		10-Mar-21		08-Ju l- 21 A	 		♦ DD	A - SO Cor	nsent for C	Canstructio	on ;	+															
220	29-Nov-20	28-Aug-21	02-Jan-21 A	28-Dec-21			 					▼ \$UB-9	SEA TBM	I TUNNEL												++	
81	13-Dec-20	24-Mar-21			T		 			+		†††							- -							++	
28	13-Dec-20	09-Jan-21		28-Ju l- 21 A	, , ,				DA DA	Review	by IP / DC	1111							11i-		-				1	T	
30	11-Jan-21	17-Feb-21	21-Apr-21 A	28-Ju l -21 A					DA	- Further i	nformation	required	by SO						-11						-11	††	
0		17-Feb-21		28-Ju l- 21 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1111	♦ ÞDA	2nd Sub	 	1111		1					111-		-		·i		1	1	
35	18-Feb-21	24-Mar-21	29-Ju l- 21 A	30-Aug-21 A	T-11		1					DDA	2nd R	eview by	so				1		1		1		-	1	
0		24-Mar-21		30-Aug-21 A	1-11							♦ DDA	- SO C	onsent for	Constr	uction			- -								
132	02-Jan-21	16-Jun-21	02-Jan-21 A	15-Oct-21	▼ DDA	- Sub-s	ea Tunhel	- TBM Con	finement	+		1111							1						-	†***†	
36	02-Jan-21	16-Feb-21	02-Jan-21 A	01-May-21 A	by Designer		1	111		7				1					11-11		1		1			111	
24	17-Feb-21	16-Mar-21	03-May-21 A	07-Jun-21 A	DDA - Draft -	Final Re	eview and	prepare for	1st Sub	1		111							11						1	††	
0		16-Mar-21		07-Jun-21 A	DDA - 1st Sub	b	1 1	111		1111		TH		1					11		1		·i	[<u> </u>	1	T	1
28	17-Mar-21	13-Apr-21	08-Jun-21 A	08-Ju l -21 A						7		1111							111-	1	1				1	11	
28	17-Mar-21	13-Apr-21	08-Jun-21 A	10-Sep-21 A									DD DD	A Revie	w by P	/DC			11		-				1	++	
24	14-Apr-21	12-May-21	09-Ju l -21 A	10-Sep-21 A	T-11-11-11-1		븎						DD	A Furthe	er inforn	nation r	require	d by SO	- II i -		1				1	1 1	
0		12-May-21		10-Sep-21 A	T-1		1					111	◆ DD	A 2nd \$	Sub				11						1	++	
35	13-May-21	16-Jun-21	11-Sep-21 A	15-Oct-21	 		1			·†····		1111					-	DA - 2nd	Review	y SO			·- 			††	
0		16-Jun-21		15-Oct-21	\		1			+		111					♦ D	DA SO	Consent	for Constr	ru¢tion					††	
73	29-Nov-20	01-Mar-21	28-Apr-21 A	20-Nov-21	 					+		***							- -							††	
28	29 - Nov-20	26-Dec-20	28-Apr-21 A	28-May-21 A	DA Review by SO	111	1			++		111		1					11				·		1	††	
28	29-Nov-20	26-Dec-20	28-Apr-21 A	08-Oct-21	1 1 1												DDA - F	Review by	/ i P / DC		1			ii	1	T	
24	28-Dec-20	25-Jan-21	29-May-21 A	16-Oct-21							<u>-</u>							DDA - Fu	rther info	mation re	quired b	y\$O			1	11	
0		25-Jan-21		16-Oct-21	1-1		i					1111					•	DDA - 2n	d Sub				·-i		1	††	
35	26-Jan-21	01-Mar-21	17-Oct-21	20-Nov-21			† <u>†</u>			+		1111					i		-41		DDA	- 2nd Rev	iew by S	b	-#	††	
	_				L			- 1					'	- 1					4						ookod	, i	pproved
•	Summary	·	004070	4 T		TC		1.6				,								_		_	110131		cukeu	A	proved
		∟ D/2	2018/0	4 Trur	nk Road	12	and	ıntra	astru	ıctui	re W	ork	s							_		01V0			Lo	WYu	
			fe	or Dev	velopmer	nts a	at S	outh	Apr	ron					BO	YUC	YGU	JES)	09-Ap	r-20	01V1				_	
					•				•				\		IKA	VAU)	A PU	nrif2				01V2				_	
			Three	Mont	hs Rolling	a P	roar	amn	ne (Sen	-21)															_	
						J.	· - 5'	2.7.111	(۲	· /									∪∠-JU	F4	10210		Jora/L	LU	Į V V T U	
	0 0 0 0 0 0 0 0 1111 18 6 0 0 28 28 36 0 35 0 0 87 28 36 0 0 35 35 0 0 220 81 28 24 0 0 35 28 28 24 0 0 35 28 28 24 0 0 35	0 0 0 0 0 0 0 0 0 0	0	0	0 24-Apr-21 A 04-Jun-21 A 0 05-Jun-21 A 16-Jul-21 A 0 05-Jun-21 A 16-Jul-21 A 0 05-Jun-21 A 16-Jul-21 A 0 05-Oct-21 0 05-Oct-21 11-Oct-21 0 05-Oct-21 11-Oct-21 11-Oct	0	0									Section Sect	Section Sect	Section Sect	Column	March Marc		Subject Subj					

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January BO 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16
DDA - SO Consent for Construction	0		01-Mar-21		20-Nov-21	
DDA Tunnel - General Building Plan	147	02-Mar-21	28-Aug-21	02-Jun-21 A	28-Dec-21	1 DDA Tunnel - General Building Plan
DDA - Draft - Preparation by Designer	30	02-Mar-21	09-Apr-21	02-Jun-21 A	26-Ju l- 21 A	
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Apr-21	08-May-21	27-Jul-21 A	03-Aug-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		08-May-21		03-Aug-21 A	A DDA - 1st Sub:
DDA - Review by SO	28	10-May-21	11-Jun-21	04-Aug-21 A	09-Oct-21	DDA-Review by; SO
DDA - Review by IP / DC	28	10-May-21	11-Jun-21	04-Aug-21 A	09-Oct-21	DDA - Review by: P / DC
DDA - Further information required by SO	30	12-Jun-21	19-Ju l- 21	11-Oct-21	15-Nov-21	1 DDA - Further information required by SD
DDA - 2nd Sub	0		19-Ju l- 21		15-Nov-21	1
DDA - 2nd Review by SO	35	20-Ju l -21	28-Aug-21	16-Nov-21	28-Dec-21	DDA - 2nd Review by
DDA - SO Consent for Construction	0		28-Aug-21		28-Dec-21	1 ♦ DDA - SO Consent fo
AIP - Tunnel (Sub-sea & CKL Tunnel) - Spaceproofing (SG §	0	27-Jan-21	27-Jan-21	20-Mar-21 A	06-Nov-21	
AIP - Further information required by SO	0			20-Mar-21 A	03-Aug-21 A	AIP - Further information required by SO.
AIP - 3rd Sub	0				03-Aug-21 A	A AIP - 3rd Sub
AIP - 3rd Review by SO	0			04-Aug-21 A	09-Sep-21 A	AP - \$rd Review by SO
AIP - Further information required by SO	0			10-Sep-21 A	09-Oct-21	AIP - Further information required by:SO
AIP - 4th Sub	0				09-Oct-21	
AIP - 4th Review by SO	0			10-Oct-21	06-Nov-21	1 AIP - 4th Review by SO
AIP - SO Consent for Construction	0		27-Jan-21		06-Nov-21	1 ♦ AIP - SO Consent for Construction
FER - Fire Engineering Report (SG Scheme)	112	28-Jan-21	18-Jun-21	30-Mar-21 A	23-Nov-21	TER: File Engineering Report (SG Scheme)
FER - Review by IP / DC	28	28-Jan-21	24-Feb-21	30-Mar-21 A	03-Aug-21 A	A FER-Review by IP // DC
FER - Further information required by SO	48	04-Mar-21	04-May-21	30-Apr-21 A	03-Aug-21 A	A FER - Further Information required by SO
FER - 2nd Sub	0		04-May-21		03-Aug-21 A	
FER - 2nd Review by SO	45	05-May-21	18-Jun-21	04-Aug-21 A		
FER - Further information required by SO	0	,		01-Sep-21 A	09-Oct-21	
FER - 3rd Sub	0				09-Oct-21	
FER - 3rd Review by SO	0			10-Oct-21	23-Nov-21	
FER - SO Consent for Construction	0		18-Jun-21	10 00121	23-Nov-21	<u> </u>
DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (120	28-Jan-21	28-Jun-21	27-Jan-21 A	23-Nov-21	
DDA - Review by IP / DC	28	28-Jan-21	24-Feb-21	27-Jan-21 A	12-Jul-21 A	
DDA - Further information required by SO	0			23-Feb-21 A	12-Jul-21 A	
DDA - 2nd Sub	0				12-Jul-21 A	
DDA - 2nd Review by SO	0			13-Ju l -21 A	23-Aug-21 A	
DDA - Further information required by SO	36	29-Mar-21	14-May-21	24-Aug-21 A	-	
DDA - 3rd Sub	0	Lo mai Li	14-May-21	217109 2171	09-Oct-21	
DDA - 3rd Review by SO	45	15-May-21	28-Jun-21	10-Oct-21	13-Nov-21	
DDA - SO Consent for Construction	0	may-21	28-Jun-21	.5 00(-21	23-Nov-21	
CROSS PASSAGE	342	03-Oct-20	26-Nov-21	17-Feb-21 A	07-Mar-22	OROSS PASSAGE
DDA - Cross Passage - CP Tympanum	77	18-Jun-21	16-Sep-21	20-Mar-21 A		
DDA - Review by IP / DC	28	18-Jun-21	15-Ju l- 21	20-Mar-21 A		
DDA - Further information required by SO	24	16-Ju l -21	12-Aug-21	21-Apr-21 A		
DDA - 2nd Sub	0	·	12-Aug-21		28-Jul-21 A	
DDA - 2nd Review by SO	35	13-Aug-21	16-Sep-21	29-Jul-21 A		
DDA - SO Consent for Construction	0		16-Sep-21		30-Aug-21 A	
DDA - Cross Passage - CP TBM Jacking Pipes	102	11-Feb-21	21-Jun-21	17-Feb-21 A	12-Oct-21	
DDA - Oraft - Final Review and prepare for 1st Sub	24	11-Feb-21	13-Mar-21	17-Feb-21 A		<u> </u>
					., =	
Page 9 of 27		Summary				Date Revision Checked Approv
Data Date: 02-Oct-21			ED/2	2018/0	4 Trui	unk Road T2 and Infrastructure Works
◆ ◆ Actual Milestone				f.	or Dev	BOUYGUES 19-Apr-20 011/1 SP-Allo WYU
Actual Work					טן וט	TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu
♦ Baseline Milestone Baseline Bar				Three	Mont	oths Rolling Programme (Sep-21)
				111166	IVIOIII	ILIIS Rolling Frogramme (Sep-21)
				111100	IVIOIII	U2-Jul-21 U2VU SPa/LLo WYu

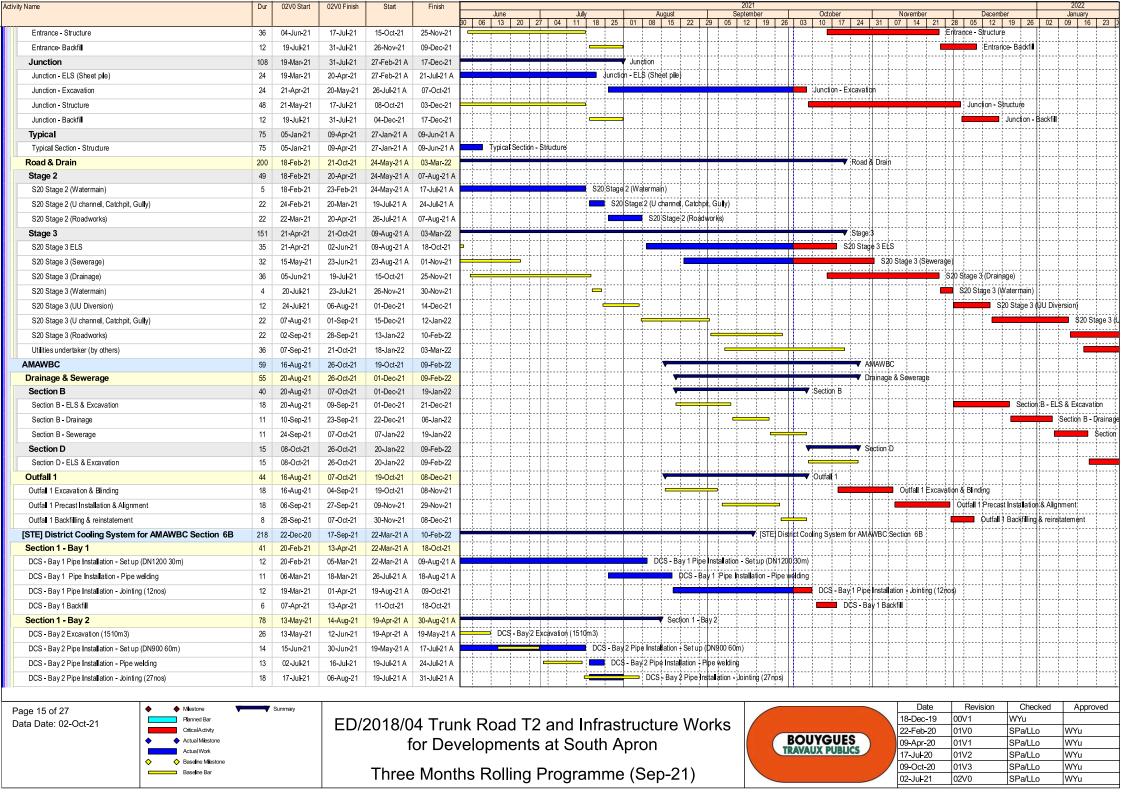
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish						2021										2	022
ŕ						June 30 06 13 20	27 04	Ju l y 11 18 25	01		September	19 26	03	October 10 17	24 31	Nover	mber 14 21	28 05	Decemb 12			nuary 16 23 0
DDA - 1st Sub	0		13-Mar-21		04-May-21 A																	
DDA - Review by SO	28	14-Mar-21	10-Apr-21	05-May-21 A	31-May-21 A	DDA - Review by SO			1					1 1								1 1 1
DDA - Review by IP / DC	28	14-Mar-21	10-Apr-21	05-May-21 A	07-Sep-21 A			<u> </u>			DDA - Revi	iew by IP	DC									
DDA - Further information required by SO	30	12-Apr-21	17-May-21	01-Jun-21 A	07-Sep-21 A		; <u>-</u>	;; <u>i</u>			DDA - Furth	herinfor	nation rec	uired by SO	·i		<u>i</u>	11-1	11			11
DDA - 2nd Sub	0		17-May-21		07-Sep-21 A	1 1 1	: :::::::::::::::::::::::::::::::::::::		1	♦	DDA - 2nd	Suþ							-1			1 1 1
DDA - 2nd Review by SO	35	18-May-21	21-Jun-21	08-Sep-21 A	12-Oct-21			·						DDA 2nd	Review b	so :						†
DDA - SO Consent for Construction	0		21-Jun-21		12-Oct-21	♦			1		11			♦ DDA SC	Consent f	r Constr	uction					1
DDA - Cross Passage - CP TBM Confinement	143	15-Mar-21	06-Sep-21	05-May-21 A	18-Dec-21					DI	DA - Cross	s Passag	je - CP †E	M Confinem	ent ;							1
DDA - Draft - Preparation by Designer	36	15-Mar-21	29-Apr-21	05-May-21 A	21-Aug-21 A			<u> </u>		DDA - Draft - Pre	eparation b	y Desig	ner									1
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Apr-21	29-May-21	23-Aug-21 A	31-Aug-21 A	1		;;;	1	DDA - D	Draft - Fina	al Review	v and prep	are for 1st S	ub		j		-11			1 1 1
DDA - 1st Sub	0		29-May-21		31-Aug-21 A				1	♦ DDA - 1	1st Sub								-1			11111
DDA - Review by SO	28	30-May-21	26-Jun-21	01-Sep-21 A	08-Oct-21			} 	1		- 			DDA Reviev	v by SO							†
DDA - Review by IP / DC	28	30-May-21	26-Jun-21	01-Sep-21 A	08-Oct-21				1					DDA Reviev	v by i P / DC							1 1 1
DDA - Further information required by SO	30	28-Jun-21	02-Aug-21	09-Oct-21	13-Nov-21	1		<u> </u>	+		†		=				DDA - Furt	her informa	tion requ	ired by SO		11
DDA - 2nd Sub	0		02-Aug-21		13-Nov-21	1-1-1-1		i i i	♦		† <u>†</u>		1		·i	• [DDA - 2nd	Sub	-ii			111111
DDA - 2nd Review by SO	35	03-Aug-21	06-Sep-21	14-Nov-21	18-Dec-21	1		ttt	-				1			 				DDA - 2nd	Review by	3D
DDA - SO Consent for Construction	0		06-Sep-21		18-Dec-21	1-::		····	1	♦	† <u>†</u>		1						•	DDA - SO	Conseint for	Construction
DDA - Cross Passage - CP TBM - DCRA	150	31-May-21	26-Nov-21	05-May-21 A	18-Dec-21			·		iii	-ii			····	i			DDA - Cro	oss Pass	age - CP TB	M - DCRA	1
DDA - Draft - Preparation by Designer	42	31-May-21	20-Ju l- 21	05-May-21 A	21-Aug-21 A	1 1 1		1 1 1		DDA - Draft - Pre	eparation b	y Desig	ner	· · · · · · · · · · · · · · · · · · ·								1 1 1
DDA - Draft - Final Review and prepare for 1st Sub	24	21-Jul-21	17-Aug-21	23-Aug-21 A	31-Aug-21 A					DDA- C	Draft - Fina	al Review	v and prep	are for 1st S	ub							
DDA - 1st Sub	0		17-Aug-21		31-Aug-21 A			I I I	1	♦ DDA-1				ii					-			1 1 1
DDA - Review by SO	28	18-Aug-21	14-Sep-21	01-Sep-21 A	08-Oct-21	1-1-1-1			1					DDA - Reviev	v by SO				-1			11
DDA - Review by IP / DC	28	18-Aug-21	14-Sep-21	01-Sep-21 A	08-Oct-21	1-1		} }	1				; [DDA Reviev	v by 🏴 / DC							11
DDA - Further information required by SO	30	15-Sep-21	22-Oct-21	09-Oct-21	13-Nov-21	1 1 1 1 1			1		┆═╪						DDA - Furt	her informa	ition requ	ired by SO		1
DDA - 2nd Sub	0		22-Oct-21		13-Nov-21	1111			1		† <u>†</u>		1	♦		• [DDA - 2nd	Sub				11
DDA - 2nd Review by SO	35	23-Oct-21	26-Nov-21	14-Nov-21	18-Dec-21	1		<u> </u>	1		11		+							DDA - 2nd	Review by	SO
DDA - SO Consent for Construction	0		26-Nov-21		18-Dec-21	1-1-1-1			1				1				♦		•	DDA SO	Consent for	Construction
DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp	141	03-Oct-20	24-Mar-21	01-Sep-21 A	10-Feb-22	upport for Excavation		hhh			† <u>†</u>	:				h						11
DDA - Draft - Preparation by Designer	42	03-Oct-20	21-Nov-20	01-Sep-21 A	09-Oct-21			}} 	1		- 			DDA - Draft	Preparation	n by Des	igner					11
DDA - Draft - Final Review and prepare for 1st Sub	24	23-Nov-20	19-Dec-20	11-Oct-21	08-Nov-21	T-1		ļ -	1		†		ī			DDA	- Draft - Fi	nal Review	and pre	oare for 1st S	ub	11
DDA - 1st Sub	0		19-Dec-20		08-Nov-21	1		ļļ	1		† <u>†</u>					♦ DDA	-1st Sub					1
DDA - Review by SO	28	20-Dec-20	16-Jan-21	09-Nov-21	06-Dec-21	1		ii	1		† <u>†</u>		1						DDA - Re	view by SO		11
DDA - Review by GEO via SO	28	20-Dec-20	16-Jan-21	09-Nov-21	06-Dec-21	1		ļ 	1										DΦA - Ré	view by GE	via SO	† <u>†</u>
DDA - Review by IP / DC	28	20-Dec-20	16-Jan-21	09-Nov-21	06-Dec-21	1-::		1			†		1			-	{		DDA - Re	view by IP	DC	1
DDA - Further information required by SO	24	18-Jan-21	17-Feb-21	07-Dec-21	06-Jan-22	1		iii	1		† 		+								DDA	Further inform
DDA - 2nd Sub	0		17-Feb-21		06-Jan-22	1		<u> </u>	1		ļ										♦ DDA	-2nd Sub
DDA - 2nd Review by SO	35	18-Feb-21	24-Mar-21	07-Jan-22	10-Feb-22	1-::		! 	1		††		† <u> </u> -									
DDA - Cross Passage - Traditional - Lining Structure	82	21-Dec-20	03-Apr-21	09-Nov-21	17-Feb-22		- 		1		T		1						1			ttt
DDA - Draft - Preparation by Designer	36	21-Dec-20	03-Feb-21	09-Nov-21	20-Dec-21				1		1 1				1	—			!	DDA-D	aft - Prepara	ation by Design
DDA - Draft - Final Review and prepare for 1st Sub	24	04-Feb-21	06-Mar-21	21-Dec-21	20-Jan-22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		} 	1		†		1		·							DDA - [
DDA - 1st Sub	0		06-Mar-21		20-Jan-22	1		[1		1 1								1			◆ DDA -1
DDA - Review by SO	28	07-Mar-21	03-Apr-21	21-Jan-22	17-Feb-22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1		†		1-1		1							
DDA - Review by IP / DC	28	07-Mar-21	03-Apr-21	21-Jan-22	17-Feb-22	1		ii	1				+									-
DDA - Cross Passage - Internal Structure	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	ructure	1-1-1	1	1		7		1					-				11111
DDA - Draft - Preparation by Designer	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22				1		1 1				1							
DDA - Cross Passage - Traditional - DCRA	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	I - DCRA		} }	1		Ť				·							1
Page 10 of 27		Summary								* 1 *						1	Date	Rev	/ision	Check	ked	Approved
Page 10 of 27 Data Date: 02-Oct-21 Mestone Planned Bar		Carrinary		2010/0	1 Tr	ak Dood T	2 00	d Infras	truc	ture Works							Dec-19	00V1		WYu		-,5p. 5700
Critical A divity			⊏D/4										0011	/CUE			eb-20	01V0		SPa/LLo		
◆ Actual Milestone Actual Work				f	or Dev	velopment	ts at 🤄	South A	۱pro	n		T	RAVALI	GUES X PUBLIC	5		Apr-20	01V1		SPa/LLo		
♦ ♦ Baseline Milestone						_	_		-							/	ul-20 Oct-20	01V2 01V3		SPa/LLo SPa/LLo		
Baseline Bar				Three	Mont	hs Rolling	, Prog	gramme	e (So	ep-21)							ul-21	02V0		SPa/LLo		
							•	-	•	. ,								1		1	1.,	

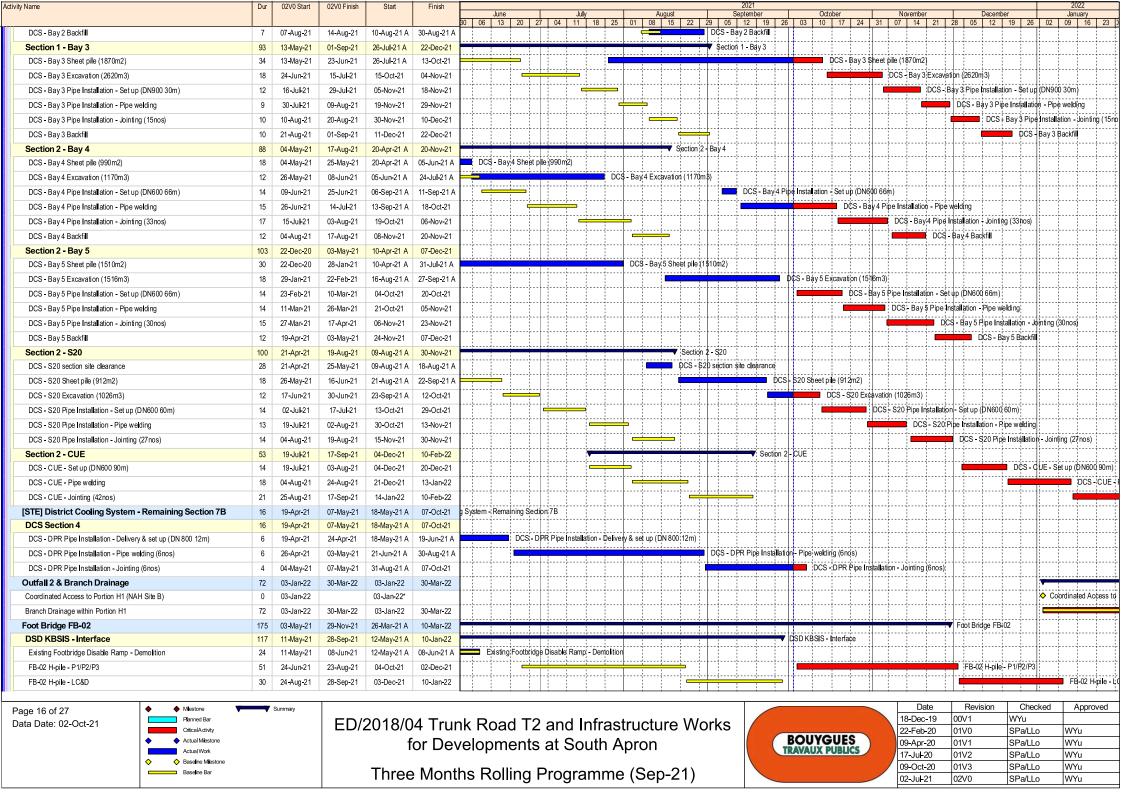
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2021												2022
· ·						June 30 06 13 20	27 04	July 1 11 1 1	18 25	01	August 08 15 22	29 05	Septemb		26 03	Octob 1 10	er 17 24	31 (November 7 14	21		Decemb I 12 I	ner 19 26		anuary 16 23
DDA - Draft - Preparation by Designer	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	00 00 10 20	21 04	1 1	10 20	01	00 10 22	20 00	12	10 2	0 00	10	17 2-7	10110	1 17	21	20 00	12	10 20	02 0.	10 20
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	144	09-Oct-20	08-Apr-21	29-Mar-21 A	26-Aug-21 A	NNEL [D&BL]	1111	·						1	1	1		11			1				
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	0	09-Oct-20	09-Oct-20	21-Apr-21 A	26-Aug-21 A		T			1				1 1	1	1					1			1	
DDA - 6th Review by SO	0			21-Apr-21 A	26-Aug-21 A			!!!				DDA 6th	Review	by SO											
DDA - SO Consent for Construction	0		09-Oct-20		26-Aug-21 A						•	DDA-SO	Consent	t for Const	truction						1				
DAmS - D&BR / D&BL Tunnel - Temp Support (SG) for Exc	0	08-Mar-21	08-Mar-21	29-Mar-21 A	18-May-21 A	eme)	Tili	T							1	1		1			1				
DAmS - 3rd Review by SO	0			29-Mar-21 A	18-May-21 A	d Review by SO																			
DAmS - SO Consent for Construction	0		08-Mar-21		18-May-21 A	O Consent for Constru	uction											1			1				
DDA - D&BR / D&BL Tunnel - Service Gallery (SG Scheme)	0	08-Apr-21	08-Apr-21	21-Apr-21 A	15-Ju l- 21 A	SG \$cheme)		1		Î				1		1					1				
DDA - Further information required by SO	0			21-Apr-21 A	27-May-21 A	DA - Further information	on required by	so]									-		
DDA - 3rd Sub	0				27-May-21 A	DA -3rd Sub																			
DDA - 3rd Review by SO	0			28-May-21 A	15-Ju l- 21 A			DD	DA - 3rd R	eview by	/ SO														
DDA - SO Consent for Construction	0		08-Apr-21		15-Ju l- 21 A		TITI	♦ :DE	OA - SO C	onsent f	or Canstruction		1	1 1	1	1					1				
EAST VENTILATION BUILDING [EVB]	403	03-Oct-20	12-Feb-22	08-Apr-21 A	17-Feb-22											1		1							
DDA - EVB - ABWF	111	03-Oct-20	17-Feb-21	04-Oct-21	17-Feb-22][[]									
DDA - Draft - Preparation by Designer	36	03-Oct-20	14-Nov-20	04-Oct-21	15-Nov-21											11		.111			ft-Prepara	1 1	- 1		
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Nov-20	12-Dec-20	16-Nov-21	13-Dec-21	T ii ii ii		[[1							1	<u></u> DD	A - Draft - F	inal Reviev	v and prepare fo
DDA - 1st Sub	0		12-Dec-20		13-Dec-21																	◆ DD	A - 1st Sub		
DDA - Review by SO	28	13-Dec-20	09-Jan-21	14-Dec-21	10-Jan-22										1	11					1				DDA - Review b
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	14-Dec-21	10-Jan-22		111							11	1	1		1			1				DDA - Review b
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	11-Jan-22	17-Feb-22		1111	1 1		1		11 11		1	1	1111		1		:	1			-	
DDA - EVB - Aesthetic Design	172	03-Oct-20	05-May-21	28-Jun-21 A	17-Feb-22	Design		·						 	1			1			1-:	†			
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	28-Jun-21 A	21-Aug-21 A	1					DI	DA - Draft - P	reparation	on by Desi	igner	11		1			1	ļ			
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	23-Aug-21 A	18-Oct-21	1 1 1 1	1111	1 1		1							DDA I	Draft - Fina	Review ar	nd prejpa	are for 1st	\$ub			
DDA - 1st Sub	0		29-Dec-20		18-Oct-21			·				-:			1	1	DD A	1st Sub			1	† <u> </u>		†	
DDA - Review by SO	28	30-Dec-20	26-Jan-21	19-Oct-21	15-Nov-21	 	++++	† 						† <u>†</u>	1	11			DD,	A - Rev	iew by SO				
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	19-Oct-21	15-Nov-21	1	1111	·				11111		1	-	11			DD/	A - Rév	ięw by IP /	pc		1	
DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	16-Nov-21	13-Dec-21	 	+	† <u>†</u>						† <u>†</u>		1		-				□ DD	A - Further	information	required by SQ
DDA - 2nd Sub	0		26-Feb-21		13-Dec-21	1	++++								-			-			1	◆ DD	A - 2nd Sub)	
DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	14-Dec-21	17-Jan-22	 		·}		·				 				-			1	-		ļ	DDA - 2n
DDA - 2nd Review by IP	35	27-Feb-21	02-Apr-21	14-Dec-21	17-Jan-22	 	+	† 		·				† <u>†</u>	-	ii	· 	-				-		÷	DDA - 2n
DDA - Further information required by SO	24	07-Apr-21	05-May-21	18-Jan-22	17-Feb-22	 	++++							 							1				
AIP Foot Bridge FT-03 [NEW]	91	09-Oct-21	27-Jan-22	09-Oct-21	27-Jan-22	 	+	· 						 								į <u>į</u>		<u> </u>	
AIP - Draft - Preparation by Designer	24	09-Oct-21	06-Nov-21	09-Oct-21*	06-Nov-21		1-1	†		+					-	<u>i</u>	·	+	NP - Draft	Prepar	ration by D	esigner,		 	
AIP - Draft - Final Review and prepare for 1st Sub	12	08-Nov-21	20-Nov-21	08-Nov-21	20-Nov-21	 	+	 						 -	-					AIP - I	Draft - Fina	Revie	w and prepa	te for 1st S	Sub
AIP - 1st Sub	0		20-Nov-21		20-Nov-21	 				·				 					· •	AIP	1st Sub	įi			
AIP - Review by SO	28	21-Nov-21	18-Dec-21	21-Nov-21	18-Dec-21	 								 	-++	ii							A I P Rev	ew by SO	
AIP - Review by IP / DC	28	21-Nov-21	18-Dec-21	21-Nov-21	18-Dec-21	 	+							 				-					A I P - Rev	ew by IP /	DC
AIP - 2nd Sub	12	19-Dec-21	30-Dec-21	19-Dec-21	30-Dec-21	 	+	† 		·				† <u> </u>	-++	ļ		-			1	ļ		AIP - 2nd	
AIP - Further information required by SO	0		30-Dec-21		30-Dec-21	 	+								-++						1		1	1 1	ner information h
AIP - 2nd Review by SO	28	31-Dec-21	27-Jan-22	31-Dec-21	27-Jan-22	 	+	ļ		·		++			-++			-			1	į		<u> </u>	
AIP - SO Consent for DDA Submission	0		27-Jan-22		27-Jan-22	 	+	 		 			+	†	-++	 					 	 		 	\
DDA Foot Bridge FT-03 [NEW]	66	22-Nov-21	12-Feb-22	22-Nov-21	12-Feb-22	 		ļ <u>-</u>		-					-++	ļ				·				ļ	
DDA - Draft - Preparation by Designer	42	22-Nov-21	12-Jan-22	22-Nov-21	12-Jan-22	1	+-+-								-++			-		===	4	i		i	DDA - Draft -
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-22	12-Feb-22	13-Jan-22	12-Feb-22	 		† 		·÷			- †	† <u> </u>	-++	ļ <u>i</u>					1	†		ļ	<u></u>
AIP EVB - Permanent Structure (SG Scheme)	0	31-Mar-21	31-Mar-21	17-Apr-21 A	09-Oct-21	 	+							 	-++	 					·				
												-: -:			-11			-11 -1			+			:	
Page 11 of 27 ♦ Mlestone	_	Summary																	Dat		Revi	sion	Chec	ked	Approved
Data Date: 02-Oct-21			ED/2	2018/0	4 Tru	nk Road ⁻	T2 an	d Int	fras	truc	ture W	Vorks							18-Dec-		00V1		WYu OD-#11		04
Critical A divity ♦ Actual Milestone															BOL	JYG	JES)	22-Feb-2 09-Apr-2		01V0 01V1		SPa/LLo		√Yu √Yu
Actual Work				10	טו טפי	velopmer	แร สเ	Sou	uı A	hio	VI I			(TRAVA	UX PL	JES IBLICS		17-Jul-2		01V2		SPa/LLo		v ru VYu
♦ ♦ Baseline Milestone Baseline Bar				Thros	1/05	ha Dallia	a Dra	arci	n na -	(0	on 24\								09-Oct-2	20	01V3		SPa/LL		vYu
Dastellie Daf				rnree	INIOU	hs Rolling	y Prog	yran	HILLIE	: (5	ep-∠ ())							02-Jul-2	1	02V0		SPa/LLo	V	√Yu
			1																						

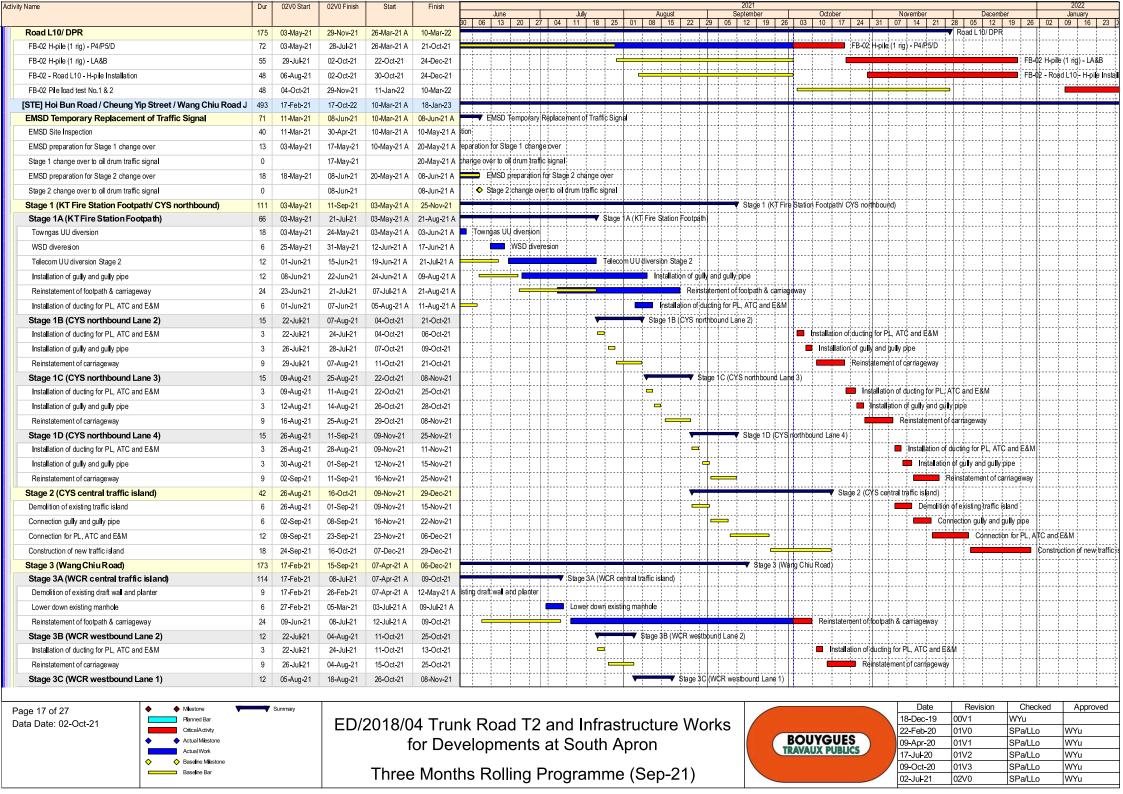
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
·						June July August September October November December January B0 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23
AIP - 6th Review by SO	0			17-Apr-21 A	28-May-21 A	
AIP - Further information required by SO	0			29-May-21 A	28-Jun-21 A	A P - Further information required by SO
AIP - 7th Review by SO	0			28-Jun-21 A	09-Oct-21	AIP - 7th Review by SO
AIP - 7th Sub	0				28-Jun-21 A	A AP - 7th Sub
AIP - SO Consent for DDA Submission	0		31-Mar-21		09-Oct-21	◆ AIP - SO Consent for DDA Submission
DDA - EVB - General Building Plan (including SoA) (SG Sch	74	03-Jan-21	07-Apr-21	08-Apr-21 A	27-Oct-21	pA) (SG Scheme);
DDA - Review by SO	28	03-Jan-21	30-Jan-21	08-Apr-21 A	04-May-21 A	
DDA - Review by IP / DC	28	03-Jan-21	30-Jan-21	08-Apr-21 A	24-Aug-21 A	
DDA - Further information required by SO	24	01-Feb-21	03-Mar-21	05-May-21 A	24-Aug-21 A	A DDA - Further/information required by SD
DDA - 2nd Sub	0		03-Mar-21		24-Aug-21 A	A
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	25-Aug-21 A	27-Oct-21	DDA - 2nd Réview by SO
DDA - SO Consent for Construction	0		07-Apr-21		27-Oct-21	◆ DDA - SO Cansent for Coastruction
DDA - EVB - Permanent Structure (SG Scheme)	116	22-May-21	08-Oct-21	22-Apr-21 A	26-Nov-21	DDA - EVB - Permanent Structure (SG Scheme)
DDA - Draft - Final Review and prepare for 1st Sub	18	22-May-21	11-Jun-21	22-Apr-21 A	04-May-21 A	A DDA - Draft- Final Review and prepate for 1st Sub
DDA - 1st Sub	0		11-Jun-21		04-May-21 A	A ◆ DDA-1st Sub
DDA - Review by SO	28	12-Jun-21	09-Ju l- 21	05-May-21 A	28-Jun-21 A	
DDA - Review by IP / DC	28	12-Jun-21	09-Ju l- 21	05-May-21 A	15-Oct-21	DDA; Reviệw by IP / DC
DDA - Further information required by SO	48	10-Ju l -21	03-Sep-21	29-Jun-21 A	22-Oct-21	DDA-Further information required by SO
DDA - 2nd Sub	0		03-Sep-21		22-Oct-21	♦ DDA-2nd Şub
DDA - 2nd Review by SO	35	04-Sep-21	08-Oct-21	23-Oct-21	26-Nov-21	DDA- 2nd Review by SQ
DDA - SO Consent for Construction	0	· ·	08-Oct-21		26-Nov-21	DDA- SO Consent for Construction
TUNNEL E&M INSTALLATION & COMMISSIONING	293	17-Oct-20	13-Oct-21	23-Dec-20 A	19-Feb-22	
DDA - E&M Tunnel Ventilation Design (SG Scheme)	163	29-Oct-20	20-May-21	30-Mar-21 A	20-Nov-21	
DDA - Draft - Preparation by Designer	48	29-Oct-20	23-Dec-20	30-Mar-21 A	08-May-21 A	A ration by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	24-Dec-20	23-Jan-21	08-May-21 A	22-May-21 A	A Draft - Final Review and prepare for 1st Sub
DDA - Review by SO	28	24-Jan-21	20-Feb-21	22-May-21 A	07-Jun-21 A	A DDA - Réview by SO
DDA - 1st Sub	0		23-Jan-21		22-May-21 A	A 1st Şub
DDA - Review by IP / DC	28	24-Jan-21	20-Feb-21	23-May-21 A	08-Oct-21	DDA + Review by IP / DC
DDA - Further information required by SO	42	22-Feb-21	15-Apr-21	08-Jun-21 A	16-Oct-21	DDA - Further information required by SO
DDA - 2nd Sub	0		15-Apr-21		16-Oct-21	♦ DDA- 2nd Şub
DDA - 2nd Review by SO	35	16-Apr-21	20-May-21	17-Oct-21	20-Nov-21	DDA - 2nd; Reviely by SQ
DDA - SO Consent for Construction	0		20-May-21		20-Nov-21	◆ DDA - SO Consent for Construction
DDA - E&M Air Purification System (WVB)	91	10-Jan-21	05-May-21	15-Mar-21 A	20-Nov-21	ation System (WVB)
DDA - Review by SO	28	10-Jan-21	06-Feb-21	15-Mar-21 A	11-May-21 A	
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	08-Oct-21	DDA - Review by IP / DC
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	16-Oct-21	DDA - Further information required by SO
DDA - 2nd Sub	0		31-Mar-21		16-Oct-21	◆ DDA-2nd Sub
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	17-Oct-21	20-Nov-21	DDA - 2nd Review by SD
DDA - SO Consent for Construction	0		05-May-21		20-Nov-21	DDA - SO Consent for Construction
DDA - E&M Fire Services Installation	133	28-Dec-20	11-Jun-21	30-Mar-21 A	01-Dec-21	DDA - E&M/Fire Services Installation
DDA - Draft - Preparation by Designer	30	28-Dec-20	01-Feb-21	30-Mar-21 A	31-May-21 A	
DDA - Draft - Final Review and prepare for 1st Sub	18	02-Feb-21	25-Feb-21	01-Jun-21 A	09-Jun-21 A	DDA - Draft - Final Review, and prepare for 1st Sub
DDA - Review by SO	28	26-Feb-21	25-Mar-21	09-Jun-21 A	08-Oct-21	DDA - Review by SO
DDA - 1st Sub	0		25-Feb-21		09-Jun-21 A	A
DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	17-Aug-21 A	A DDA-Review.by P/DC
DDA - Further information required by SO	32	26-Mar-21	07-May-21	18-Aug-21 A		
			· .			
Page 12 of 27		Summary		2040/2	4 T	Date Revision Checked Approved 18-Dec-19 00V1 WYu
Data Date: 02-Oct-21			ED/2	2018/0	4 i rui	INK ROAD 12 and Infrastructure vvorks
♦ Actual Miestone				fe	or Dev	evelopments at South Apron BOUYGUES TRAVAUX PUBLICS 17 Jul 20 01/2 SPAIL D WYU 17 Jul 20 01/2 SPAIL D WYU
Actual Work Baseline Milestone						17-Jul-20 01V2 SPa/LLo WYu
Baseline Bar				Three	Mont	oths Rolling Programme (Sep-21)
			<u> </u>			OZ-OUPZ1 OZ-VO SFAILLO WYTU

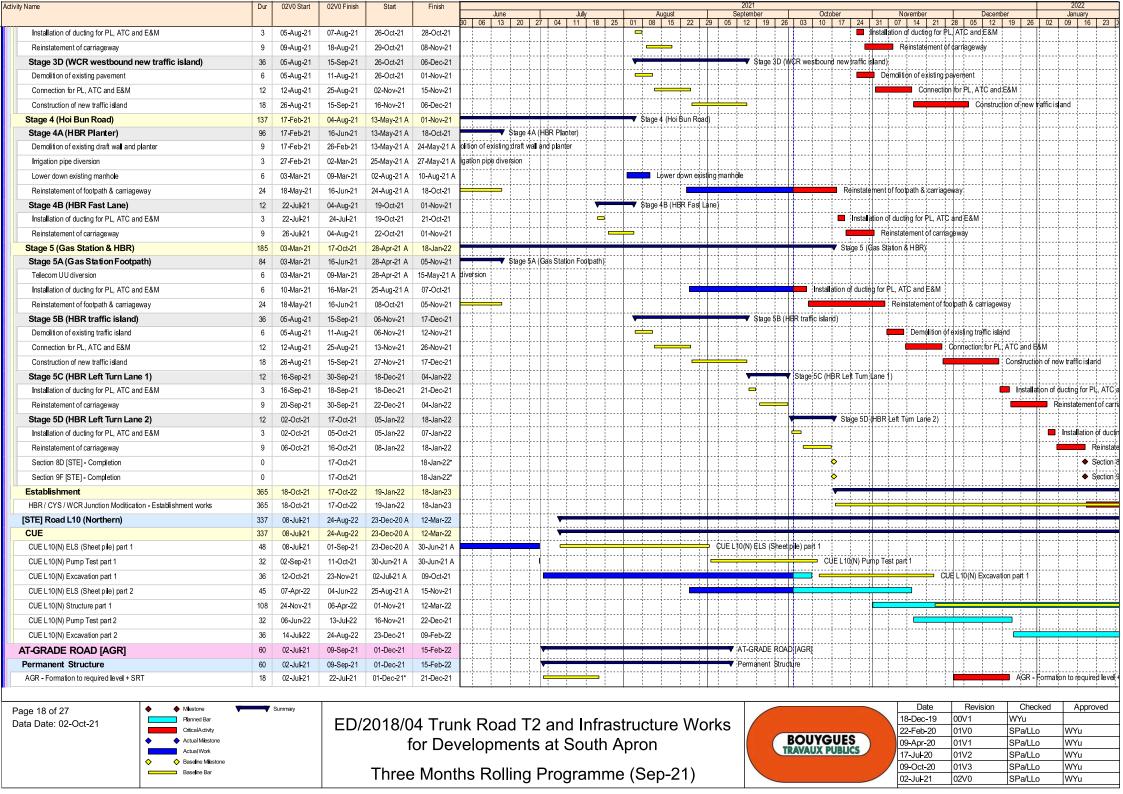
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 80 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 0
DDA - 2nd Sub	0		07-May-21		27-Oct-21	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	28-Oct-21	01-Dec-21	DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		11-Jun-21		01-Dec-21	♦ DDA - SO Consent for Construction
DDA - E&M MVAC	133	17-Dec-20	03-Jun-21	09-Apr-21 A	20-Nov-21	■ DDA -E&M MVAC
DDA - Draft - Preparation by Designer	32	17-Dec-20	26-Jan-21	09-Apr-21 A	22-May-21 A	A Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A	DDA - Draft - Final Reviewiand prepare for 1st/Sub
DDA - Review by SO	28	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A	A DDA - Review by SO
DDA - 1st Sub	0		18-Feb-21		02-Jun-21 A	√ DDA-1st Sub
DDA - Review by IP / DC	28	19-Feb-21	18-Mar-21	02-Jun-21 A	08-Oct-21	DDA+Review by IP/DQ
DDA - Further information required by SO	32	19-Mar-21	29-Apr-21	30-Jun-21 A	16-Oct-21	DDA - Further information required by \$0
DDA - 2nd Sub	0		29-Apr-21		16-Oct-21	◆ DDA-2nd Şub
DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	17-Oct-21	20-Nov-21	DDA - 2nd; Review by SD
DDA - SO Consent for Construction	0		03-Jun-21		20-Nov-21	♦ DDA - SO Consent for Construction
DDA - E&M Plumbing & Drainage System	122	22-Dec-20	26-May-21	19-Feb-21 A	17-Nov-21	A - E&M Plumbing & Drainage System
DDA - Draft - Preparation by Designer	24	22-Dec-20	21-Jan-21	19-Feb-21 A	03-Jun-21 A	
DDA - Draft - Final Review and prepare for 1st Sub	17	22-Jan-21	10-Feb-21	03-Jun-21 A	25-Jun-21 A	DDA: Draft - Final Review and prepare for 1st Sub
DDA - Review by SO	28	11-Feb-21	10-Mar-21	25-Jun-21 A	05-Jul-21 A	
DDA - 1st Sub	0		10-Feb-21	.=,	25-Jun-21 A	
DDA - Review by IP / DC	28	11-Feb-21	10-Mar-21	25-Jun-21 A	08-Oct-21	DDA - Review by IP / DC
DDA - Further information required by SO	32	11-Mar-21	21-Apr-21	06-Jul-21 A	13-Oct-21	DDA - Further information required by SO
DDA - 2nd Sub	0		21-Apr-21	30 0012171	13-Oct-21	◆ DDA - 2nd Sub
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	14-Oct-21	17-Nov-21	DDA - 2nd Réview by SO
DDA - SO Consent for Construction	0	22 /\pi 21	26-May-21	14 000 21	17-Nov-21	DDA - SQ Consent for Construction
AIP - E&M Electrical Installation	62	17-Oct-20	02-Jan-21	15-Jan-21 A	23-Jun-21 A	
AIP - Review by IP / DC	28	17-Oct-20	13-Nov-20			A piview by IP / DC
AIP - Update & prepare for 2nd Sub	18	14-Nov-20	04-Dec-20		•	A pdafe & prepare for 2nd/Sub
AIP - 2nd Review by SO	28	05-Dec-20	01-Jan-21	21-May-21 A		<u> </u>
AIP - 2nd Sub	0	00-500-20	04-Dec-20	21-Way-2174	21-May-21 A	
AIP - SO Consent for DDA Submission	0		02-Jan-21		23-Jun-21 A	
DDA - E&M Electrical Installation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	11-Dec-21	▼, the go containt a bit containt and the property of the pro
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Jul-21 A	
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Jul-21 A	15-Jul-21 A	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0	0110021	24-Feb-21	12 001 2171	15-Jul-21 A	
DDA - Review by SO	28	25-Feb-21	24-Mar-21	16-Jul-21 A	24-Aug-21 A	
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	08-Oct-21	DDA+Reviewby NP / DC
DDA - Review by IP / DC DDA - Further information required by SO	33	25-Feb-21 25-Mar-21	07-May-21	25-Aug-21 A	06-Nov-21	DDA - Further information required by SO
DDA - 2nd Sub	0	ZUTVIDI*Z I	07-May-21	20-71ug=2 1 M	06-Nov-21	DDA-1 and en information required by SC
DDA - 2nd Seview by SO	35	08-May-21	11-Jun-21	07-Nov-21	11-Dec-21	DDA - 2nd Review by SO
DDA - 2nd Review by SO DDA - SO Consent for Construction	30	UU TVId y-Z I	11-Jun-21	U1 =1NUV=Z 1	11-Dec-21	
		01 Nov 20		15 Jan 21 A		
AIP CLP Submission - Power Supply to EVB & WVB AIP - Review by IP / DC	71 28	01-Nov-20 01-Nov-20	26-Jan-21 28-Nov-20	15-Jan-21 A		A pview by IIP / DC
AIP - Review by IP / DC AIP - Update & prepare for 2nd Sub	24	30-Nov-20	29-Dec-20		•	A potate & prepare for 2nd Sub
AIP - Opdate & prepare for 2nd Sub	0	JU-11UV-ZU	29-Dec-20 29-Dec-20	00-1 GD-21 M	21-May-21 A	
		30 Dec 20		22 May 24 A	•	
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	22-May-21 A		
AIP - SO Consent for DDA Submission	0	07 1 04	26-Jan-21	04 1 04 4	23-Jun-21 A	
DDA CLP Submission - Power Supply to EVB & WVB	158	27-Jan-21	11-Aug-21	24-Jun-21 A	11-Dec-21	DDA CLP Submission - Power Supply to EVBl& WVB
Page 13 of 27	_	Summary				Date Revision Checked Approved
Data Date: 02-Oct-21 Planned Bar CriticalAdivity			ED/2	2018/0	4 Trui	nk Road T2 and Infrastructure Works
◆ Actual Milestone						BOUYGUES BOUYGUES BOUYGUES BOUYGUES BOUYGUES BOUYGUES BOUYGUES
Actual Work				I'	יי טפי	TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu
♦ Baseline Milestone Baseline Bar				Throo	Mant	
Dasaira Dai				111166	: IVIOIII	ths Rolling Programme (Sep-21)
<u> </u>						

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022	
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 5	
DDA - Draft - Preparation by Designer	48	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Ju l- 21 A		
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Ju l- 21 A	DDA -Draft -Final Review and prepare for 1şt Sub	
DDA - 1st Sub	0		28-Apr-21		15-Ju l- 21 A	. ♦ DDA -:1st Sub	
DDA - Review by SO	28	29-Apr-21	26-May-21	16-Ju l- 21 A	24-Aug-21 A	DDA - Review/by SO:	
DDA - Review by IP / DC	28	29-Apr-21	26-May-21	16-Ju l -21 A	08-Oct-21	DDA-Review by IP / DC	
DDA - Further information required by SO	34	27-May-21	07-Ju i -21	25-Aug-21 A	06-Nov-21	DDA - Further information required by SO	
DDA - 2nd Sub	0		07-Ju l -21		06-Nov-21	◆ DDA-2nd\Sub	
DDA - 2nd Review by SO	35	08-Ju l -21	11-Aug-21	07-Nov-21	11-Dec-21	DDA- 2nd;Review by SD	
DDA - SO Consent for Construction	0		11-Aug-21		11-Dec-21	◆ DDA-SO Consent for Construction	
AIP - E&M Tunnel Lighting Design	91	03-Dec-20	25-Mar-21	23-Dec-20 A	09-Jun-21 A		
AIP - Review by IP / DC	28	03-Dec-20	30-Dec-20	23-Dec-20 A	03-May-21 A		
AIP - Update & prepare for 2nd Sub	45	31-Dec-20	25-Feb-21	13-Jan-21 A	03-May-21 A	A for 2nd Sub	
AIP - 2nd Review by SO	28	26-Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A	AIP - 2hd Review by SO	
AIP - 2nd Sub	0		25-Feb-21		03-May-21 A		
AIP - SO Consent for DDA Submission	0		25-Mar-21		09-Jun-21 A	AIP - SO Consent for DDA Submission	
DDA - E&M Tunnel Lighting Design	131	26-Mar-21	03-Sep-21	10-Jun-21 A	19-Feb-22	▼ DDA- E&M/TunnelLighting Design	
DDA - Draft - Preparation by Designer	22	26-Mar-21	24-Apr-21	10-Jun-21 A	09-Oct-21	DDA'- Draft - Preparatión by Designér	
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	11-Oct-21	25-Oct-21	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		10-May-21		25-Oct-21	◆ DDA - 1st Sub	
DDA - Review by SO	28	11-May-21	07-Jun-21	26-Oct-21	22-Nov-21	DØA-Réview by SO	
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	26-Oct-21	22-Nov-21	DDA- Review by IP / DC	
DDA - Further information required by SO	44	08-Jun-21	30-Ju l- 21	23-Nov-21	15-Jan-22	DDA- Futh	
DDA - 2nd Sub	0		30-Ju i -21		15-Jan-22	♦ DDA-2nd;S	
DDA - 2nd Review by SO	35	31-Ju l -21	03-Sep-21	16-Jan-22	19-Feb-22		
AIP - E&M CMCS	78	17-Feb-21	25-May-21	26-Apr-21 A	22-Jul-21 A	- E&M CMCS	
AIP - Review by SO	28	17-Feb-21	16-Mar-21			A IP-Review by SQ	
AIP - Update & prepare for 2nd Sub	32	17-Mar-21	27-Apr-21	26-Apr-21 A	28-Jun-21 A	AIP - Update & prepare for 2nd Sub	
AIP - Review by IP / DC	28	17-Feb-21	16-Mar-21				
AIP - 2nd Review by SO	28	28-Apr-21	25-May-21	28-Jun-21 A	22-Jul-21 A	AP - 2nd Review by SO	
AIP - 2nd Sub	0	,	27-Apr-21		28-Jun-21 A	♦ AIP - 2nd Sub	
AIP - SO Consent for DDA Submission	0		25-May-21		22-Jul-21 A	◆ AIP - SO Consent for DDA Submission	
DDA - E&M CMCS	117	26-May-21	13-Oct-21	23-Jul-21 A	11-Feb-22	DDA-E&M CMCS	
DDA - Draft - Preparation by Designer	22	26-May-21	21-Jun-21	23-Jul-21 A	18-Oct-21	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Jun-21	06-Ju l -21	19-Oct-21	01-Nov-21	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		06-Ju l- 21		01-Nov-21	◆ DDA - 1st Sub	
DDA - Review by SO	28	07-Ju l -21	03-Aug-21	02-Nov-21	29-Nov-21	DDA - Réview by SO	
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	02-Nov-21	07-Dec-21	DDA - Reviewby PI/DC	
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	08-Dec-21	07-Jan-22	DDA Further inform	
DDA - 2nd Sub	0	-9	08-Sep-21		07-Jan-22	◆ DDA-2nd Şub	
DDA - 2nd Review by SO	35	09-Sep-21	13-Oct-21	08-Jan-22	11-Feb-22		
SOUTH APRON EXTERNAL WORKS	536	22-Dec-20	17-Oct-22	23-Dec-20 A	18-Jan-23		
Road S20	235	05-Jan-21	21-Oct-21	27-Jan-21 A	03-Mar-22	▼ Road \$20	
CUE	168	05-Jan-21	31-Jul-21	27-Jan-21 A	17-Dec-21		
Entrance	84	21-Apr-21	31-Ju l -21	24-Jun-21 A	09-Dec-21	Entrance	
Entrance - ELS (Sheet pile)	18	21-Apr-21	12-May-21	24-Jun-21 A	11-Sep-21 A	Entrance - ELS (\$heet pile)	
Entrance - Excavation	18	13-May-21	03-Jun-21	13-Sep-21 A	13-Oct-21	■ Entrance - Excavatión	
T		_					
Page 14 of 27 Pate Pate 20 Oct 21		Summary		2040/2	4 -	Date Revision Checked Approved 18-Dec-19 00V1 WYU WYU	
Data Date: 02-Oct-21	caticalAdivity ED/2018/04 Frunk Road 12 and intrastructure vvorks						
for Developments at South Apron						velopments at South Apron BOUYGUES 09-Apr-20 01V1 SPa/LLo WYu	
Actual Work Baseline Milestone				•		Tr ddi 20 OT d 20 OT d 20 OT d	
Baseline Bar	Baseline Bar				Mont	ths Rolling Programme (Sep-21)	
						UZ-JUPZ1 UZVU OF ALLU WYU	





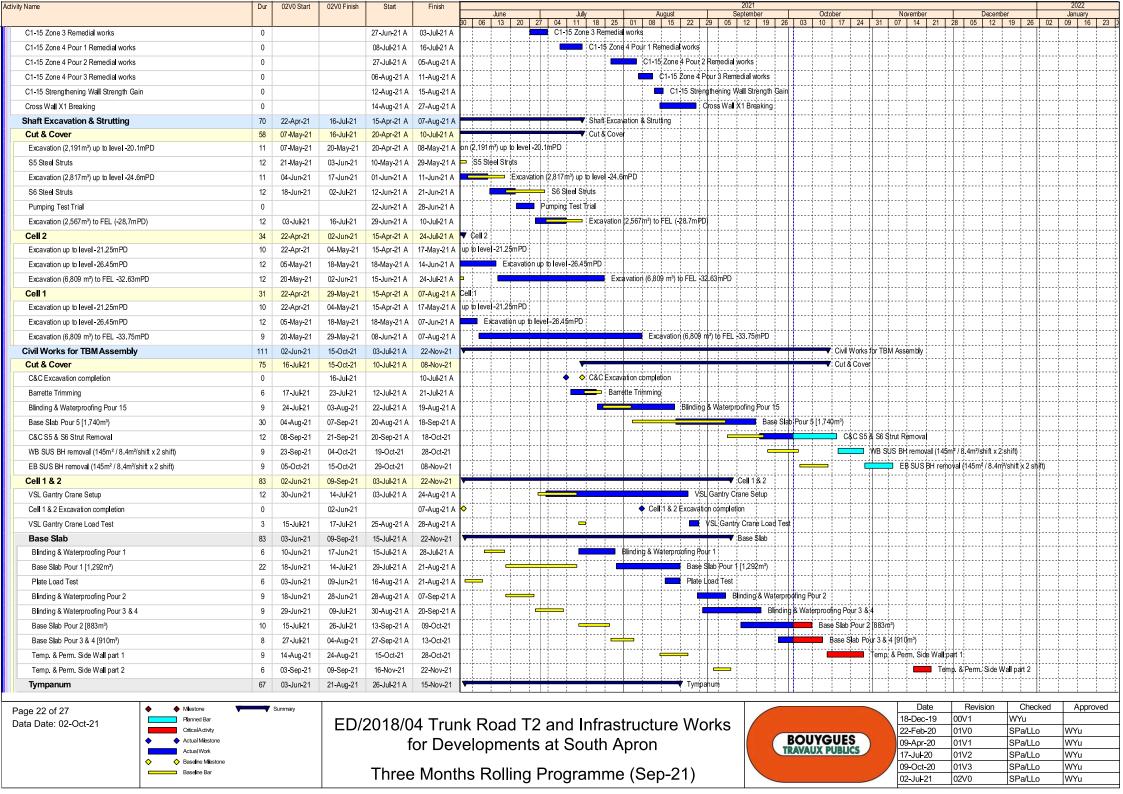


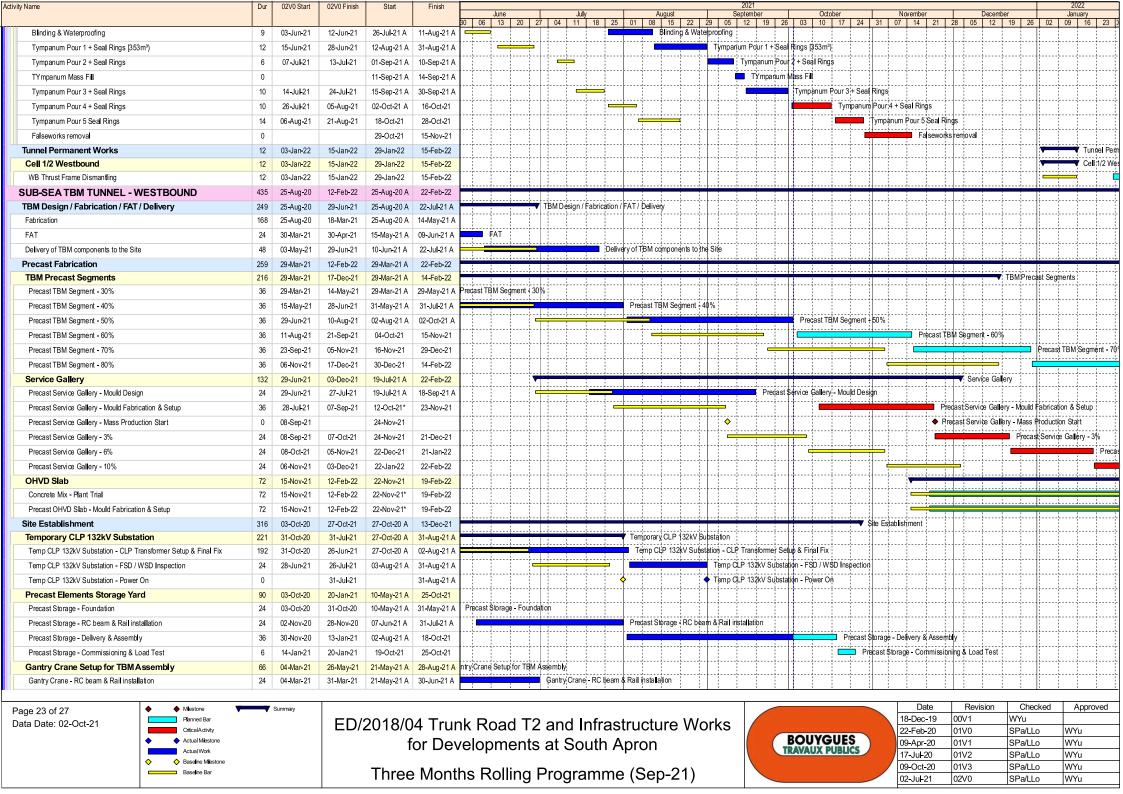


Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022	
,						June July August September October November December Janua B0 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09	
AGR - Sub-base + SRT	18	23-Ju l -21	12-Aug-21	22-Dec-21	14-Jan-22		GR - Sub-b
AGR - Drainage & Gully Installation part 1	24	13-Aug-21	09-Sep-21	15-Jan-22	15-Feb-22		1 1
DEPRESSED ROAD [DPR]	178	03-Mar-21	07-Oct-21	19-Apr-21 A	31-Jan-22	DEPRESSED ROAD [DPR]	
Excavation & Strutting	77	11-Mar-21	16-Jun-21	19-Apr-21 A	17-Sep-21 A	A Excavation & Strutting	
Shallow Section (46m)	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Ju l- 21 A		1
Excavation part 2 CH5948-CH6008	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Ju l- 21 A	A Excavation part 2 CH5948-CH6008	
Zone 3 (Ch6080 - 6121)	23	26-Mar-21	26-Apr-21	19-Apr-21 A	19-Jun-21 A		
Strut S3 Installation (4 nos)	8	26-Mar-21	08-Apr-21	19-Apr-21 A	15-May-21 A	A Mation (4 nos)	
Excv to FEL (5,500m³)	9	16-Apr-21	26-Apr-21	17-May-21 A	19-Jun-21 A	A Excv to FEL (5,500m²)	1 1
Zone 4 (Ch6121 - 6150)	57	08-Apr-21	16-Jun-21	27-Apr-21 A	17-Sep-21 A	A Zone 4(Ch6121 - 6150)	1
Excv to S3 (3,400m³)	7	08-Apr-21	15-Apr-21	27-Apr-21 A	18-May-21 A	A (3,400m³)	
Strut S3 installation (4 nos)	8	23-Apr-21	03-May-21	12-Ju i- 21 A	17-Ju l -21 A	Strut S3 installation (4 nos)	
Excv to S4 (1,550m³) part 1	3	04-May-21	06-May-21	19-Ju l- 21 A	21-Aug-21 A	A Excv to S4 (1,550m²) part 1	1
Excv to S4 (1,550m³) part 2	4	07-May-21	11-May-21	23-Aug-21 A	26-Aug-21 A	A Excv (o S4 (1,550m)*) part 2	
Strut S4	4	04-Jun-21	08-Jun-21	28-Aug-21 A			
FEL	6	09-Jun-21	16-Jun-21	10-Sep-21 A			
Permanent Structure	178	03-Mar-21	07-Oct-21	13-May-21 A	31-Jan-22		
Shallow Section	53	17-Mar-21	24-May-21	19-Jul-21 A	13-Oct-21		
Part 2 (Ch5997 - 6008)	53	17-Mar-21	24-May-21	19-Ju l- 21 A	13-Oct-21	2 (Ch5997; -6008)	
Plate Load Test	5	17-Mar-21	22-Mar-21	19-Ju l- 21 A	24-Ju l -21 A	A Plate Load Test	
Blinding	9	23-Mar-21	01-Apr-21	26-Ju l- 21 A	07-Aug-21 A	A Blinding	1
Base Slab	12	07-Apr-21	20-Apr-21	09-Aug-21 A	19-Aug-21 A	A Base Şlab	
Drainage, Watermain & UU	10	08-Apr-21	19-Apr-21	10-Aug-21 A	18-Aug-21 A	A Drainage Watermain & UÜ	
Retaining Wall	18	21-Apr-21	12-May-21	27-Sep-21 A	02-Oct-21 A	A Retaining Wall	
Waterproofing	9	13-May-21	24-May-21	04-Oct-21	13-Oct-21	Waterproofing	
Zone 1 (Ch6008 - 6045)	108	26-Mar-21	07-Aug-21	13-May-21 A	20-Dec-21		
Blinding & Waterproofing	9	26-Mar-21	09-Apr-21	13-May-21 A			
Base Slab	15	10-Apr-21	27-Apr-21	09-Jun-21 A	26-Ju l -21 A	A Base Slab	
DCS Pipes	18	26-Mar-21	20-Apr-21	21-Jun-21 A	18-Sep-21 A		
South Apron Adit Wall	21	06-May-21	31-May-21	16-Aug-21 A			
Strut S3 removal	6	28-Apr-21	05-May-21	21-Aug-21 A			
SP Removal	6	06-May-21	12-May-21	27-Sep-21 A	06-Oct-21		
Blinding & Waterproofing	6	13-May-21	20-May-21	07-Oct-21	13-Oct-21		
Road Slab	12	01-Jun-21	15-Jun-21	15-Oct-21	28-Oct-21		
Drainage, Watermain & UU	10	02-Jun-21	12-Jun-21	16-Oct-21	27-Oct-21		
Waterproofing and Backfilling	9	16-Jun-21	25-Jun-21	29-Oct-21	08-Nov-21		
Strut S1 removal	6	26-Jun-21	03-Jul-21	09-Nov-21	15-Nov-21		
	21				09-Dec-21		
Retaining Wall Waterproofing and Backfilling		05-Jul-21	28-Jul-21	16-Nov-21 10-Dec-21	20-Dec-21		filling
Zone 2 (Ch6045 - 6080)	9	29-Jul-21	07-Aug-21				
Plate Load Test	74 5	08-Apr-21	07-Jul-21 13-Apr-21	15-Jun-21 A 15-Jun-21 A			
		08-Apr-21				<u></u>	
Blinding & Waterproofing	9	14-Apr-21	23-Apr-21	22-Jun-21 A			
Base Slab	15	24-Apr-21	12-May-21		04-Aug-21 A		
Strut S3 removal	6	13-May-21	20-May-21	07-Aug-21 A			
South Apron Adit Wall	21	21-May-21	15-Jun-21	23-Aug-21 A	06-Oct-21		
Road Slab	12	16-Jun-21	29-Jun-21	07-Oct-21	21-Oct-21	Road Slab	<u>i i</u>
Page 19 of 27 ♦ Milestone		Summary				Date Revision Checked Ap	proved
Page 19 of 27 Data Date: 02-Oct-21		Curinitaly		0010/0	4 T∽	Ink Road T2 and Infrastructure Works	
Critical A di vity			ED/2				
♦ Actual Milestone Actual Work				fe	or Dev	evelopments at South Apron BOUYGUES 109-Apr-20 01V1 SPa/LLo WYU 17-101-20 01V2 SPa/LLo WYU	
Actual vvork						170 O O O O O O O O O O O O O O O O O O O	
Baseline Bar				Three	Mont	ths Rolling Programme (Sep-21)	
						OZ-OUPZ1 OZ-VO OF GILLO WILL	

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2021											2022	
						June 30 06 13 2	20 27		July 1 18 2	5 01 08	August 15 22		Septembe 12	r 19 26	03	October 10 17	24 31	November 07 14	21 2		Decembe	r 19 26	02 (January 09 16	23 1
Strut S1 removal	6	30-Jun-21	07-Ju l- 21	22-Oct-21	28-Oct-21	00 10 2	-	=			10 22	20 00		10 20				\$1 removal		.5 00		10 20	, v <u>-</u>	10	1 20 1
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	28-Oct-21	06-Nov-21		=				1 1						-	■ Drainage, V	Vatermai	n & UU					1
Zone 3 (Ch6080 - 6121)	80	27-Apr-21	02-Aug-21	03-Jul-21 A	02-Dec-21					▼ Zone 3	(Ch6080 - 612	(1)	1		11 1						!!-				1
Plate Load Test (deleted)	5	27-Apr-21	03-May-21	03-Ju l- 21 A	03-Ju l- 21 A		0	Plate Lo	oad Test (de le	eted)															
Blinding & Waterproofing	9	04-May-21	13-May-21	09-Ju l- 21 A	27-Ju l- 21 A					Blinding & W			i					·			ii-				1
Base Slab	15	14-May-21	01-Jun-21	28-Ju l- 21 A	01-Sep-21 A							Base 9	Slab												
Strut S3 removal	6	02-Jun-21	08-Jun-21	13-Sep-21 A	18-Sep-21 A	+								Strut S3	removal										
South Apron Adit Wall	21	09-Jun-21	05-Ju l- 21	20-Sep-21 A	18-Oct-21		+++			1	1 1		1	,		1 1	th Apron A	∖dit Wa l							
Road Slab	12	06-Ju l -21	19-Ju l- 21	22-Oct-21	04-Nov-21											· · · · · ·		Road Slab							!
Drainage, Watermain & UU	10	07-Ju l -21	17-Ju l- 21	08-Nov-21	18-Nov-21			-	=		1 1									, Waterm	ain & UU				
Strut S2 & S1 removal	12	20-Ju l -21	02-Aug-21	19-Nov-21	02-Dec-21				-	+										■ Strut	2 & S	removal			
Zone 4 (Ch6121 - 6150)	127	07-May-21	07-Oct-21	01-Sep-21 A	31-Jan-22	1 1 1	1 1		1 1		- 		;;- 		▼ Z	one 4 (Ch612	21 - 6150)								1
Plate Load Test	5	07-May-21	12-May-21	01-Sep-21 A	03-Sep-21 A					1		Plate	Load T	est		1 1									
Blinding & Waterproofing	6	13-May-21	20-May-21	27-Sep-21 A	02-Oct-21 A									-	Blindi	ng & Waterpr									
Base Slab part 1	12	21-May-21	03-Jun-21	04-Oct-21	18-Oct-21	FIIII							T			Bas	eSlab par	ti i			[<u> </u> -				
BS P2	9	25-Jun-21	06-Ju l- 21	19-Oct-21	28-Oct-21			-					T			-	BS P	2			[
Remove S4	3	07-Ju l -21	09-Ju l- 21	29-Oct-21	01-Nov-21			-									₩ R	temove S4							
BS P3	6	10-Ju l -21	16-Ju l- 21	02-Nov-21	08-Nov-21			<u> </u>	-								_	■ B\$P3							
BS P4	9	17-Jul-21	27-Ju l -21	09-Nov-21	18-Nov-21				-									-	BS P4						
Remove S3	9	28-Ju l -21	06-Aug-21	19-Nov-21	29-Nov-21															Remove	S3				
South Apron Adit Wall / Sump Pit	21	07-Aug-21	31-Aug-21	30-Nov-21	23-Dec-21				T	<u> </u>	1 1		T							1		Sout	Apron Ac	dit Wall / S	ump Pit
Road Slab	12	01-Sep-21	14-Sep-21	24-Dec-21	10-Jan-22						1		- 1									—		Road SI	b
Strut S2 & S1 removal	18	15-Sep-21	07-Oct-21	11-Jan-22	31-Jan-22								=			1 1						;			
DPR SUS Interface	91	03-Mar-21	24-Jun-21	21-Jun-21 A	09-Sep-21 A		▼ DPR\$L	JS Interfa	ace		1 1														
SUS Dwall removal up to -3.0mPD	9	03-Mar-21	12-Mar-21	21-Jun-21 A	26-Jun-21 A	-		Dwa ll ren	noval up to -3	3.0mPD															
BH -6.85mPD	6	16-Apr-21	22-Apr-21	29-Jun-21 A	17-Ju l- 21 A		-		= BH-6.8	5mPD															
BH-10.5mPD	6	07-May-21	13-May-21	29-Ju l- 21 A	07-Aug-21 A					— B⊦	1 10.5mPD														
BH -15.15mPD	7	17-Jun-21	24-Jun-21	28-Aug-21 A	09-Sep-21 A		-						BH - 15	15m PD											
WEST VENTILATION BUILDING [WVB]	184	14-Apr-21	22-Nov-21	11-Mar-21 A	10-Feb-22						1			-					▼ WES	T VENTIL	ATIONE	UILDING	[WVB]		
Delay Events	0			21-Apr-21 A	12-Jun-21 A																				
SP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	08-May-21 A	page -due to Fatal /					.		<u> </u>		<u> </u>						ll.		ll]	
KP Drilling Stoppage - due to Fatal Accident	0			21-Apr-21 A	12-Jun-21 A	KP Drill			to Fatal Accid	dent													<u> </u>		
KP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	17-May-21 A	ion Stoppage - due	to Fatal Acc	ident	<u>i</u> j		.ii			İ				<u>.ijj</u>			<u> </u>		<u> </u>		
ELS system & Foundation	79	14-Apr-21	19-Ju l- 21	11-Mar-21 A	25-Oct-21				ELS s	system & Foun	dation		ļļ					.[]]			ll.		ļ <u>l</u>		1
Sheet Pile	48	14-Apr-21	10-Jun-21		28-Jul-21 A	▼ Sheet Pile							ļ <u>.</u>		ļ <u>i</u> .			.ļļļ					ļļ		ļļ
WVB - Sheet Piles Installation 100% completion	48	14-Apr-21	10 Jun 21	11-Mar-21 A							et Piles Installa	uon 100% co	mpletion	1 				.ļļ			ļļ-		ļ <u>.</u>		
King Post	53	15-May-21	19-Jul-21	20-Apr-21 A	25-Oct-21				▼ King F	rost :			ļļ.					-}			ļļ-		ļ -		
North KP Drilling (KP9 & KP10) @ 2d/no	38	15-May-21 28-May-21	30-Jun-21 01-Jun-21	20-Apr-21 A 20-Apr-21 A	06-Jul-21 A 18-May-21 Δ	KP Drilling (KP9 &	No RP10 @ 3					} 	ļ								}}-		ļ -		ļ}
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31-May-21	03-Jun-21	07-Jun-21 A		□ KP Installati			& KP10) lm 2	2d/mo															
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15-May-21	20-May-21							uting (KP3 & K	P4) @ 2d/no		 		 						ļ <u></u>		 -		 }
KP Installation & Grouting (KP11 & KP12) @ 2d/no	1	26-Jun-21	30-Jun-21		06-Jul-21 A					Grouting (KP11	-+	d/no	 					·}					ļ -		
South	38	21-May-21	06-Jul-21	03-Jun-21 A				▼ South				<u> </u>	ļļ								ļ <u></u> -				
KP Installation & Grouting (KP5 & KP6) @ 2d/no	4	21-May-21	25-May-21		08-Jun-21 A	I KP Installat	tion & Grout		i i	2d/no			† 		 						-				
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21				i i	- 1	1	(P12) @ 2d/no			 								-		 		
KP Install ation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A					i i	PInstallation &		:	2d/no		 			- 			 -		 		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1 1	- 1	1 -1			1 7 3	1 1	- :	B :	1 1	:	1 1 1	1	1	: i	- !	1: :	- 1	: :
Page 20 of 27	_	Summary																Da	_	Revis	sion	Chec	ked	Appro	ved
Data Date: 02-Oct-21			ED/2	2018/0	4 Trui	nk Road	T2 a	ınd	Infras	structi	ure W	orks						18-Dec-	-	00V1		WYu CDa/LL		IADA:	
Critical Activity ♦ Actual Milestone						elopme:									BOU	YGUES X PUBLIC		22-Feb- 09-Apr-	$\overline{}$	01V0 01V1		SPa/LLo		WYu WYu	
Actual Work				10	טו טפי	Globine	iilə d	ر کار	Julii	~hioii				I	RAVAU	X PUBLIC	S	17-Jul-2	$\overline{}$	01V2		SPa/LL		WYu	
♦ ♦ Baseline Milestone ■ Baseline Bar				Throo	Mont	he Dallin	o Dr	oar	amm	0 (90	n 21\						1	09-Oct-	20	01V3		SPa/LL	o \	WYu	
				111166	IVIOIII	hs Rollin	iy Fl	ugi	amm	 30	μ-Z I)							02-Jul-2	21	02V0		SPa/LL	o \	WYu	
		_	_	_																					

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022	
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 1	
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Ju l- 21	26-Ju l- 21 A	29-Ju l- 21 A		.0 20 5
KP Insta∎ation & Grouting (KP7 & KP8) @ 2d/no	4	02-Ju l -21	06-Ju l- 21	30-Jul-21 A	30-Jul-21 A	A I KP Installation & Grouting (KP7 & KP8) @ 2d/no	
Steel Platform Location	39	02-Jun-21	19-Ju l -21	21-Jun-21 A	25-Oct-21	I ▼ Steel Platform Location	
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	09-Aug-21 A	A KP Drilling (DP) - DP6) 6 nos @ 30/no	
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Ju l- 21 A	14-Aug-21 A		
Steel Deck Erection	18	28-Jun-21	19-Jul-21	04-Oct-21	25-Oct-21		
Wells Installation	40	21-May-21	08-Jul-21	26-Jul-21 A	04-Sep-21 A	A Wels installation	
North	22	21-May-21	16-Jun-21		02-Sep-21 A		
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21		10-Aug-21 A		
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	23-Aug-21 A	28-Aug-21 A	A Pumping Well Installation - 6 r/os x 2 rigs (Zone 1)	
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	30-Aug-21 A			
South	34	28-May-21	08-Ju l -21	12-Aug-21 A			
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21	12-Aug-21 A			
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Jul-21	08-Jul-21	23-Aug-21 A			
Steel Platform Location	8	24-Jun-21	03-Ju l -21	11-Aug-21 A			
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)	8	24-Jun-21	03-Jul-21	11-Aug-21 A			
Excavation & Strutting	114	09-Jul-21	22-Nov-21	06-Sep-21 A	10-Feb-22		
Pumping Test	12	09-Jul-21	20-Jul-21	06-Sep-21 A	18-Sep-21 A		
Excavation to below Strut S1 10,010m³	17	21-Jul-21	09-Aug-21	20-Sep-21 A	25-Oct-21		
Bulk Excavation Start	0	21-Jul-21		20-Sep-21 A		♦ Bulk Excavation Start	
Strut S1 Installation	20	26-Jul-21	17-Aug-21	30-Sep-21 A	02-Nov-21		
Strut S1 Pre-loading	2	18-Aug-21	19-Aug-21	03-Nov-21	04-Nov-21		
Excavation to below Strut S2 11,076m ³	18	-		05-Nov-21	25-Nov-21		
·		20-Aug-21	09-Sep-21				
Strut S2 Installation	20	26-Aug-21	17-Sep-21	11-Nov-21	03-Dec-21		
Strut S2 Pre-loading	2	18-Sep-21	20-Sep-21	04-Dec-21	06-Dec-21		
Excavation to be low Strut S3 11,905m³	20	21-Sep-21	16-Oct-21	07-Dec-21	31-Dec-21		
Strut S3 Installation	20	28-Sep-21	22-Oct-21	13-Dec-21	07-Jan-22		Installation
Strut S3 Pre-loading	2	23-Oct-21	25-Oct-21	08-Jan-22	10-Jan-22		S3 Pre-load
Excavation to below Strut S4 8,930 m ³	15	26-Oct-21	11-Nov-21	11-Jan-22	27-Jan-22	2	E
Strut S4 Installation	20	30-Oct-21	22-Nov-21	15-Jan-22	10-Feb-22		
SOUTH APRON ADIT	20	11-Jun-21	06-Ju l- 21	19-Apr-21 A	05-May-21 A	A V SOUTHAPRON ADIT	!!
South Apron Adit - Sheet piling	20	11-Jun-21	06-Ju l- 21	19-Apr-21 A	05-May-21 A	A South Apron Addit - Sheet piling	
SUPPORTING UNDERGROUND STRUCTURE [SUS	60	20-Oct-21	30-Dec-21	15-Dec-21	15-Feb-22	2 V SUPPORTING	UNDERGR
Permanent Structure	42	20-Oct-21	07-Dec-21	15-Dec-21	21-Jan-22	2 ▼ Permanent Structure	
SUS - EB Partition Wall CH6150-6260	30	03-Nov-21	07-Dec-21	15-Dec-21*	21-Jan-22		SUS
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	20-Dec-21*	19-Jan-22		SUS-W
Tunnel Internal Structure & Finishing	36	17-Nov-21	30-Dec-21	20-Jan-22	15-Feb-22	2 ▼ Tunnel Inter∳al	Structure &
Westbound	18	17-Nov-21	07-Dec-21	20-Jan-22	12-Feb-22	2 Vestboûnd	
SUS - WB - ISCG Assembly	18	17-Nov-21	07-Dec-21	20-Jan-22	12-Feb-22		
Eastbound	18	08-Dec-21	30-Dec-21	22-Jan-22	15-Feb-22		
SUS - EB - ISCG Assembly	18	08-Dec-21	30-Dec-21	22-Jan-22	15-Feb-22		
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	221	22-Apr-21	15-Jan-22	15-Apr-21 A	15-Feb-22		C&C TUNNE
Delay Events	0			19-May-21 A			
C1-15 Zone 2 Pour 1 Remedial works	0			19-May-21 A			
C1-15 Zone 2 Pour 2 Remedial works	0			•		A C1-15 Zone 2 Pour 2 Remedial works	<u>ii</u> l
C1-15 Zone 2 Pour 3 Remedial works	0			04-Jun-21 A	08-Jun-21 A	A C1-15 Zone 2 Pour 3 Remédial works	
ļ			1				
Page 21 of 27	-	Summary				10.7 10 2011	oroved
Data Date: 02-Oct-21 Planned Bar Critical Activity			ED/2	2018/0	4 Trur	JNK ROAD 12 and Initastructure vvorks	
◆ Actual Milestone				f	or Dev	evelopments at South Apron BOUYGUES OPAPI-20 OTV1 SPA/LLO WYU TRAVAUX PUBLICS OPAPI-20 OTV1 SPA/LLO WYU TRAVAUX PUBLICS	
Actual Work				11	יטם וכי	TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu	
♦ ⇔ Baseline Milestone Baseline Bar				Three	Mont	oths Rolling Programme (Sep-21)	
				111166	IVIOLI	ILLIS ROIIIII Programme (Sep-21)	





Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish							2021							2022	
							ine 13 20		uly 18 25	August 01 08 15		September	26 03	October 10 1	7 24 31	November 07 14 21		ember 2 19 26	January 02 09 1	y 6 23 D
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21	28-Jun-21 A	24-Aug-21 A							e Delivery & As								
Gantry Crane - Commissioning & Load Test	6	20-May-21	26-May-21	25-Aug-21 A	28-Aug-21 A						Gantry C	rane Commiss	sioning & L	oad Test						
Slurry Treatment Plant	156	04-Mar-21	10-Sep-21	18-Feb-21 A	13-Dec-21							▼ Slurry Treatn								
Slurry Treatment Plant - Civil works	36	04-Mar-21	19-Apr-21	18-Feb-21 A	04-Sep-21 A			1 : :			Sli	urry Treatment F	Plant Civi	lworks						
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	20-Sep-21 A							Slu		nent Plant - I	Delivery & Ass	embly				
Slurry Treatment Plant - Installation	48	20-May-21	16-Ju l- 21	20-May-21 A	18-Oct-21	-										ent Plant - Installation				
Slurry Treatment Plant - Commissioning	24	17-Ju l -21	13-Aug-21	19-Oct-21	15-Nov-21											Slürry Tre	eatment Plant - 0	ommissioning		
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	16-Nov-21	13-Dec-21				1 1	_		-		1				Slurry Treatme	nt Plant - CNP A	pplication
Mortar Plant	108	18-Jan-21	02-Jun-21	15-Jul-21 A	25-Oct-21	▼ Mortar Pl	ant												ļ	
Mortar Plant - Civil works	36	18-Jan-21	04-Mar-21	15-Ju l- 21 A	18-Sep-21 A					: : :			ar Plant - C	Civil works						
Mortar Plant - Installation	48	04-Mar-21	04-May-21	02-Aug-21 A	25-Sep-21 A			-1-1						lant - Install					1 1	
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	27-Sep-21 A	25-Oct-21	F 1			1 1			- 				Plant - Commi sionin	g		1 1 1	
DG Store / Medical Lock	267	01-Dec-20	27-Oct-21	01-Dec-20 A	29-Nov-21										V DGS	tore / Medical Lock			l	
Hyperbaric Intervention - LD consultation & Approval	144	01-Dec-20	31-May-21	01-Dec-20 A	06-Sep-21 A			1 ; ;				Hyperbaric Inter	vention - L	D consu l tati	ion & Approva l	I				
DG Store / Medical Lock Installation	48	02-Aug-21	27-Sep-21	07-Sep-21 A	01-Nov-21											DG Store / Medical Lo				
DG Store / Medical Lock - FSD Approval	24	28-Sep-21	27-Oct-21	02-Nov-21	29-Nov-21			111111						<u></u>	<u> </u>		DĠ Store / N	ledical Lock - F	\$D Approval	
TBMAssembly	113	18-Ju l -21	01-Dec-21	22-Ju l- 21 A	16-Dec-21							 -		1 1	 		TBM Asser	nb i ly	li	
WB TBM 1st Delivery	0		18-Ju l- 21		22-Jul-21 A				♦ WB TI	BM 1st Delivery				1						
Lifting S5/S6/S4/Cross Beam	0			30-Aug-21 A	01-Sep-21 A			11111	1 1		iftine Liftine	g \$5/S6/\$4/Cros	ss Beam	11111			1 1		1 1 1	
Main Drive with displacement Cylinder	0			02-Sep-21 A	04-Sep-21 A						■ Ma	ain Drive with dis	splacemen	nt Cylinder					lii	
Lifting S3/S7/S2/S8 & S1 Installation	0			05-Sep-21 A	11-Sep-21 A				1 1			Lifting S3/S7	7/S2/ S 8 &	S1 Installati	ion				ii	
Shield Bolts torquing & Interior Shiled Joint Welding	0			12-Sep-21 A	01-Oct-21 A								Shie	eld Bolts tor	quing & Interio	r \$hiled Joint Welding			ļ <u>-</u>	
Cutterhead Installation	0			02-Oct-21 A	02-Oct-21 A							++		tterhead Ins					<u> </u>	
Cutterhead Connection to Shield	0			02-Oct-21	13-Oct-21	t i i i i			1	rtt-				Çutt	terhead Conne	ction to Shield			lt	
Shield Shifting	0			04-Oct-21	06-Oct-21	<u> </u>				r -				Shield Shift	ting				 	
Erector Preparation & Installation	0			04-Oct-21	05-Oct-21	t 				r 				Erector Pre	paration & Ins	tallation			 	
Final Shield Joint Welding	0			05-Oct-21	10-Oct-21	l				rtt-					hield Joint We				<u> </u>	
Lifting & Welding of Tailskin to Shield	0			06-Oct-21	30-Oct-21	l 				r 						ing & Welding of Tails	kin to Shield:		 	
Installation Welding Plate on Top S1	0			13-Oct-21	15-Oct-21					r -						ling Plate on Top S1			 	
1st Shifting of TBM	0			30-Oct-21	01-Nov-21	···				[st Shifting of TBM			ļ 	
Thrust Frame Installation	0			01-Nov-21	10-Nov-21	 				r 						Thrust Frame	Installation		 	
Gantry Rail Wa∎ Installation	0			01-Nov-21	10-Nov-21					_[Gantry Rail W			 	
Gantry 4 Assembly	0			10-Nov-21	13-Nov-21	l 				r 						Gantry 4 As			 	
Gantry 3 Assembly	0			13-Nov-21	15-Nov-21	 			++	[-						Gantry 3			 	
Gantry 2 Assembly	0			15-Nov-21	18-Nov-21	·				_[/2 Assembly		<u> </u>	
Segment Feeding Installation	0			18-Nov-21	20-Nov-21	·				_[nent Feeding Ins	ta ll ation	 	
Gantry 1 Assembly	0			20-Nov-21	23-Nov-21	ļ 				_[antry 1 Assembly		 	
Air / Water / Hydraulic Electrical Connections	0			23-Nov-21	02-Dec-21	l 				_[ectrical Connectio	ns
Power On	0			02-Dec-21	03-Dec-21	├ -				_[■ Power O			
Testing & Commissioning	0			03-Dec-21	16-Dec-21	·				····-								1	mmissioning	
S1281 WB TBM Break-in	0			33 200 21	16-Dec-21	<u> </u>				_[\$1281;WB	 	
WB TBM Break-in	0	01-Dec-21		16-Dec-21	10 200 21	 				_[► WB TBM Bi	ļļļ	
TBM Tunnelling	38	01-Dec-21	07-Jan-22	29-Dec-21	04-Feb-22	 				r 									TBM:Tur	nnelling
WB TBM Tunnelling CH6642-6665 B/I Plug 23m	15	01-Dec-21	15-Dec-21	29-Dec-21	12-Jan-22	 				r -							[4	TBM Tunh
WB TBM Tunneling CH6665-6710 ALL/CDG 68m	16	16-Dec-21	31-Dec-21	13-Jan-22	28-Jan-22					_[
WB TBM Tunneling CH6710-6756 ALL/CDG 114m	7	01-Jan-22	07-Jan-22	29-Jan-22	04-Feb-22	···				_[<u> </u>	
			5. 901FZZ	== vuirZZ	5.100-22			11 1	1 1			<u> </u>		<u> </u>	<u> </u>	1 - 1	1	1 -	<u> </u>	<u> </u>
Page 24 of 27		Summary														Date 18-Dec-19	Revision 00V1	. Ched	cked App	proved
Data Date: 02-Oct-21 Planned Bar Critical Activity			ED/2	2018/0	4 Trur	ık Ro	ad T <i>î</i>	2 and	Infrast	tructure \	₩orks					22-Feb-20	01V0	SPa/LL	o WYu	
◆ Actual Milestone				f	or Dev	/eloni	nent	s at So	outh A	pron			BO	UYGU	ES	09-Apr-20	01V1	SPa/LL		
Actual Work Baseline Milestone				•	J. J UV	SiSpi		. a. o.		p. 0			TRAVA	AUX PUB	SLICS	17-Jul-20	01V2	SPa/LL		
•			1													9-Oct-20	1041/2	SPa/LL	o WYu	
Baseline Bar				l hree	Montl(۱ د	ካs Rr	ıllina	Progr	amme	(Sep-21	1)					02-Jul-21	01V3 02V0	SPa/LL		

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022				
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16				
SUB-SEA TBM TUNNEL - EASTBOUND	124	19-Aug-21	18-Jan-22	06-Sep-21 A	13-Feb-22					
TBMAssembly	110	19-Aug-21	03-Jan-22	06-Sep-21 A	29-Jan-22	2 TBM Assembly				
EB TBM 2nd Delivery	0		19-Aug-21		06-Sep-21 A	A ♦ EB TBM 2nd Delivery				
Lifting S5/S6/S4/Cross Beam	0			15-Sep-21 A	18-Sep-21 A	A Lifting S5 \$6/S4/¢ross Beam				
Main Drive with displacement Cylinder	0			22-Sep-21 A	25-Sep-21 A	A Main Drive with displacement Cylinder				
Lifting S3/S7/S2/S8 & S1 Installation	0			27-Sep-21 A	12-Oct-21					
Shield Bolts torquing & Interior Shiled Joint Welding	0			12-Oct-21	20-Oct-21	1 Shield Botts forquing & Interior Shiled Joint Welding				
Cutterhead Installation	0			20-Oct-21	21-Oct-21	1 ■ Cutterflead Installation				
Cutterhead Connection to Shield	0			21-Oct-21	03-Nov-21	1 Cutterfead Connection to Shield:				
Shield Shifting	0			22-Oct-21	24-Oct-21					
Erector Preparation & Installation	0			25-Oct-21	29-Oct-21	I Erectór Preparation & Installation				
Final Shield Joint Welding	0			29-Oct-21	02-Nov-21	1 Final Shield Joint Welding				
Lifting & Welding of Tailskin to Shield	0			29-Oct-21	23-Nov-21	1 · · · · · · · · · · · · · · · ·				
Installation Welding Plate on Top S1	0			03-Nov-21	05-Nov-21	1 □ Installation Welding Plate on Top S1				
Shifting of TBM to B/I Location	0			23-Nov-21	25-Nov-21	1 ■ Shifting of TBM to B/I Location				
Thrust Frame Installation	0			25-Nov-21	04-Dec-21					
Gantry Rail Wa∎ Installation	0			26-Nov-21	07-Dec-21	1 Gantry Rail Wall Installation				
Gantry 4 Assembly	0			07-Dec-21	10-Dec-21	1 ■ Gantrly 4 As\$embly				
Gantry 3 Assembly	0			10-Dec-21	12-Dec-21	1 ■ Gantry 3 Assembly				
Gantry 2 Assembly	0			12-Dec-21	15-Dec-21	1 Gantry 2 Assembly				
Segment Feeding Installation	0			15-Dec-21	16-Dec-21					
Gantry 1 Assembly	0			16-Dec-21	19-Dec-21	1 ■ Gaptry 1 Assembly				
Air / Water / Hydraulic Electrical Connections	0			19-Dec-21	30-Dec-21	1 Air / Water / Hydraulin				
Power On	0			30-Dec-21	31-Dec-21	1 Power On				
Testing & Commissioning	0			31-Dec-21	13-Jan-22	2 Testing				
S1282 EB TBM Break-in	0				13-Jan-22	2				
EB TBM Break-in	0	03-Jan-22		29-Jan-22						
TBM Tunnelling	16	03-Jan-22	18-Jan-22	29-Jan-22	13-Feb-22	2 ▼ ▼ ТВІ				
EB TBM Tunnelling CH6640-6665 B/I Plug 25m	16	03-Jan-22	18-Jan-22	29-Jan-22	13-Feb-22					
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	336	01-Feb-21	22-Mar-22	01-Feb-21 A	15-Feb-22					
CP TBM Design / Fabrication / FAT / Delivery	336	01-Feb-21	22-Mar-22	01-Feb-21 A	13-Jan-22					
Place Order	72	01-Feb-21	04-May-21	01-Feb-21 A	31-May-21 A	A Place Ortier				
Fabrication / Refurbishment	144	31-Jul-21	21-Jan-22	10-May-21 A	15-Nov-21					
Design	72	05-May-21	30-Jul-21	01-Jun-21 A	30-Ju l- 21 A	A Design				
FAT	24	22-Jan-22	22-Feb-22	16-Nov-21	13-Dec-21					
Delivery of TBM components to the Site	24	23-Feb-22	22-Mar-22	14-Dec-21	13-Jan-22					
CP Precast Lining Fabrication	64	26-Nov-21	15-Feb-22	26-Nov-21	15-Feb-22	2				
Concrete Mix - Plant Trial	40	26-Nov-21	14-Jan-22	26-Nov-21*	14-Jan-22					
CP Precast Lining Segment - Mould Fabrication & Setup	24	15-Jan-22	15-Feb-22	15-Jan-22	15-Feb-22					
CHA KWO LING ROAD WORKS	30	24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21	I CHA KWO LING ROAD WORKS				
Wai Yip Street / Cha Kwo Ling Road Junction	30	24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21					
Reinstatement	30	24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21					
Section 8E Completion	0		31-May-21		18-Oct-21	1 ♦ Séction 8È Completion				
DRILL & BREAK TUNNEL [D&BR]	246	09-Apr-21	04-Feb-22	09-Apr-21 A	11-Feb-22					
Precast Fabrication	96	09-Apr-21	03-Aug-21	09-Apr-21 A	18-Oct-21					
Precast Service Gallery - Mould Design	24	09-Apr-21	07-May-21	09-Apr-21 A	05-May-21 A	A pry Mould Design				
Page 25 of 27	_	Summary				Date Revision Checked Approve				
Data Date: 02-Oct-21	•		FD/	2018/0	4 Tru	unk Road T2 and Infrastructure Works				
Critical Activity			""							
Actual Work								Ť	or Dev	evelopments at South Apron BOUYGUES OS-Apr-20 01V1 SPa/LLo WYU 17-Jul-20 01V2 SPa/LLo WYU 17-Jul-20 01V2 SPa/LLo WYU
♦ Baseline Milestone				T L	B.4 .	20 O + 20 O O O O O O O O O O O O O O O O O O				
Baseline Bar				ınree	Wont	nths Rolling Programme (Sep-21)				
			1							

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022	
						September Sulvariance Su	
Precast Service Gallery - Mould Fabrication & Setup	24	08-May-21	05-Jun-21	06-May-21 A	16-Jul-21 A		
Precast Service Gallery - Mass Production Start	0	07-Jun-21		17-Ju l- 21 A		♦ Precast Service Gallery- Mass Production Start	
Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Ju l- 21 A	18-Oct-21		
Tunnel Excavation	214	06-Ju l -21	04-Feb-22	28-Jun-21 A	11-Feb-22		
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	40	06-Ju l -21	14-Aug-21	28-Jun-21 A	06-Oct-21	EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	03-Oct-21	13-Dec-21		0 Type D
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	39	15-Aug-21	22-Sep-21	07-Oct-21	14-Nov-21	1 EB: D&Br Tunnel - CH9040.9025 Type D: Excavation:Top	
Probe hole at CH9025	1	23-Sep-21	23-Sep-21	15-Nov-21	15-Nov-21	1 I Probe hole at CH9025	
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	16-Nov-21	25-Dec-21	1 EB D&Br/Tunnej - C	H9025-90
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	60	07-Dec-21	04-Feb-22	14-Dec-21	11-Feb-22		
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39	03-Nov-21	11-Dec-21	26-Dec-21	02-Feb-22		
DRILL & BLAST TUNNEL [D&BL]	332	14-Jan-21	28-Feb-22	05-Apr-21 A	05-Mar-22		1 1
Tunnel Excavation	286	14-Jan-21	31-Dec-21	05-Apr-21 A	07-Jan-22	2 Tunnel Excavat	ion
Eastbound	176	02-Jun-21	31-Dec-21	13-Apr-21 A	07-Jan-22	2 Eastbound	
Full Face Drill & Blast	176	02-Jun-21	31-Dec-21	13-Apr-21 A	07-Jan-22		Blast
EB - D&Bl Tunnel - CH9088-9055 Type D - Excavation	26	02-Jun-21	03-Jul-21	13-Apr-21 A	25-Jun-21 A		
EB - D&BI Tunnel - CH9160-9055 Type B/C/D - Enlargement	70	06-Ju l -21	25-Sep-21	18-Jun-21 A	13-Sep-21 A		
Probe hole at CH9055	1	05-Ju l -21	05-Jul-21	26-Jun-21 A	26-Jun-21 A		
EB - D&Bl Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	04-Oct-21	05-Nov-21	1 EB - D&BI Tunnel - Branch Tunnel S01	
EB - D&Bl Tunnel - CH9240-9055 - Bench Excavation & SG	51	01-Nov-21	31-Dec-21	06-Nov-21	07-Jan-22		ITunnel-
Westbound	170	14-Jan-21	12-Aug-21	05-Apr-21 A	09-Oct-21	▼ Westbound	
Full Face Drill & Blast	170	14-Jan-21	12-Aug-21	05-Apr-21 A	09-Oct-21		
WB - D&BI Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23-Jul-21 A	A WB - D&BITunnel - CH9246-923\$ Type A - Excavation	
WB - D&BI Tunnel - CH9188-9158 Type A - Excavation	44	01-Apr-21	28-May-21	08-Apr-21 A	22-May-21 A	A VB - D&BI Tunne(- CHg188-9) 58 Type A - Excavation	
Probe hole at CH9158	1	29-May-21	29-May-21	24-May-21 A	24-May-21 A	A Proble hold at CHI9158	
WB - D&BI Tunnel - CH9158-9138 Type A - Excavation	26	31-May-21	30-Jun-21	25-May-21 A	26-Jun-21 A	A WB - D&BI Tunnel -CH9188-9138 Typę A - Excavation	
WB - D&BI Tunnel - CH9258-9138 - SG Excavation	36	02-Ju l -21	12-Aug-21	26-Ju l- 21 A	09-Oct-21		
Tunnel Structure WB Type A	143	13-Aug-21	05-Feb-22	11-Oct-21	11-Feb-22		1 1
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	11-Oct-21	08-Nov-21		
WB - D&BI Tunnel - CH9258-9138 Type A - Base slab / Kicker	27	03-Jan-22	05-Feb-22	08-Jan-22	11-Feb-22		1 1
WB - Rebar Gantry Type A Assembly	24	03-Jan-22	29-Jan-22	08-Jan-22	08-Feb-22		
WB - W/P Gantry Type A Assembly	18	13-Jan-22	05-Feb-22	19-Jan-22	11-Feb-22		
Tunnel Structure EB Type A	48	06-Dec-21	05-Feb-22	11-Dec-21	11-Feb-22		
EB - D&Bl Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	11-Dec-21	11-Jan-22		D&Bl Tunn
EB - D&Bl Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05-Feb-22	12-Jan-22	11-Feb-22		, ,
Cross Passage	195	06-Ju l -21	28-Feb-22	04-Oct-21	05-Mar-22		
CP31	16	06-Ju l -21	23-Jul-21	04-Oct-21	22-Oct-21	▼	
CP31 - D&BI Excavation 16.7m	16	06-Ju l -21	23-Jul-21	04-Oct-21	22-Oct-21		
CP33	46	03-Jan-22	28-Feb-22	08-Jan-22	05-Mar-22		,
EB - D&BI Tunnel - CP33 48m	46	03-Jan-22	28-Feb-22	08-Jan-22	05-Mar-22		
EAST VENTILATION BUILDING [EVB]	156	10-Sep-21	21-Mar-22	13-Mar-21 A	12-Apr-22		
Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	20-Dec-21		
Westbound Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	20-Dec-21	1 Westbound Excavation	
Foundation / Portal Structure	90	30-Nov-21	21-Mar-22	21-Dec-21	12-Apr-22		
Westbound	90	30-Nov-21	21-Mar-22	21-Dec-21	12-Apr-22		
EVB - WB Earth Mat Installation	12	30-Nov-21	13-Dec-21	21-Dec-21	06-Jan-22	2	Earth Mat
Page 26 of 27 ◆ Milestone ▼		Summary					roved
Data Date: 02-Oct-21			ED/2	2018/0	4 Trur	Ink Road T2 and Infrastructure Works	
◆ Actual Milestone						22-Feb-20 OTVO SPAILLO WILL	
Actual Work				10	אט וע	evelopments at South Apron BOUYGUES 109-Apr-20 01V1 SPa/LLo WYu 17-Jul-20 01V2 SPa/LLo WYu	
♦ ♦ Baseline Milestone ■ Baseline Bar				Thrac	1/1054	00 Oct 20 041/2 CDell c 1/0/4	
Lasquia udi				inree	MON	oths Rolling Programme (Sep-21)	
			•				

