Civil Engineering and Development Department

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

Monthly Environmental Monitoring and Audit Report for October 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.

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Ref.: CEDKTDT2EM00_0_0282L.21

12 November 2021

By Post and Email

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

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (October 2021) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for October 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 12 November 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

CEDD C.C.

Attn.: Mr. Tommy Wong

By Fax: 2739 0076

BTP

Attn.: Mr. Ivan Chau

By Email

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Attn.: Mr. K. S. Lee

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EXECUTIVE SUMMARY

Introduction

1. This is the 18th 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 October 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, Service Gallery A Installation
 - West bound RC Structure Construction, Blast Door installation
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel, Service Gallery Drill & Blast
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - Branch Tunnel Drill & Blast
 - 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	(Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken	
	Action Level	Limit Level	Action Level	Limit Level		
Air Quality	0	0	0	0	N/A	
Noise	0	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. No Limit Level exceedance for 24-hour TSP monitoring was recorded.
- 8. No 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	A ation 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

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 (November 2021)	Key Environmental Issues
 West bound - RC Structure Construction, Service Gallery A Installation, Blast Door Installation 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.

1 INTRODUCTION

Background

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.0km long with about 2.7km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. The EM&A programme under this Contract is governed by the two EPs (EP-451/2013 and EP-458/2013/C) and two EM&A Manuals (AEIAR-174/2013 and AEIAR-173/2013). The work areas of the T2 Main Works are shown in **Figure 1** and the works to be executed under this Contract and corresponding EPs are summarized as follows:

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

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

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

1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project").

Purpose of the Report

This is the 18th Monthly EM&A Report which summarises the impact monitoring results and 1.6 audit findings for the EM&A programme during the reporting period in October 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	
Cinotooh	Cinotech Environmental Team Independent Environmental Checker	Mr. KS Lee (ETL)	2151 2091	
Cinotech		Environmentar ream	Ms. Karina Chan	2157 3880
Ramboll		Mr. YH Hui	3465 2850	
ВТР	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, Service Gallery A Installation
 - West bound RC Structure Construction, Blast Door installation
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel, Service Gallery Drill &
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - Branch Tunnel Drill & Blast
 - 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 October 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

Permit / License No.	Valid	Status				
Permit / License No.	From	To	Status			
Environmental Permit (EP)	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 (Const	truction Dust) R	Regulation				
Ref. No.: 451120	20 Nov 2019	N/A	Valid			
Billing Account for Construction Waste Disp	Billing Account for Construction Waste Disposal					
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-RE0913-21	01 Oct 2021	30 Nov 2021	Valid			
Wastewater Discharge License						
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid			
Chemical Waste Producer License						
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid			

2 AIR QUALITY

Monitoring Requirement

2.1 According to Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 1-hour and 24-hour TSP monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Five designated monitoring stations were selected for air quality monitoring programme. **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	AM1 Tin Hau Temple	
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
1-hour TSP Dust Meter	Sibata Model No. LD-5R	2
1-lioui 151 Dust Meter	(Serial No.: 972781, 972778)	۷
	TISCH Model: TE-5170 (Serial No.: 1536)	1
HVS Sampler	GMW model: GS2310	2
	(Serial No.: 1287, 10379, 10599)	3
Calibrator	TISCH Model: TE-5025A	1
Candiator	(Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
wind 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

Instrumentation

- 2.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 2.10 The positioning of the HVS samplers are as follows:
 - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
 - No two samplers shall be placed less than 2 meter apart;
 - The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
 - A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
 - A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
 - No furnace or incinerator flue is nearby;
 - Airflow around the sampler is unrestricted;
 - The sampler is more than 20 metres from the dripline;
 - Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
 - Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
 - A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- 2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.
 - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3 µm diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
 - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.

- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (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 No Action/ Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.
- 2.16 No Action/ Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

 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 (October 2021), μg/m³
AM1 – Tin Hau Temple	CL1	707	85.8
AM2 – Sai Tso Wan Recreation Ground	CL6	266	71.4
AM3 – Yau Lai Estate Bik Lai House	CL9	507	99.0
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	70.4

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 (October 2021), μg/m³
AM1 – Tin Hau Temple	CL1	199	148.6
AM2 – Sai Tso Wan Recreation Ground	CL6	109	49.9
AM3 – Yau Lai Estate Bik Lai House	CL9	123	96.0
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office (*)	N/A ⁽¹⁾	N/A ⁽¹⁾	104.1

Remarks:

- (1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-173/2013)
- (*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)
- 2.20 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.
- 2.21 In the reporting month, the 24-hour TSP concentrations at AM1, AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/ Limit level exceedance were recorded in the reporting period.

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				L (20 min)	Façade Measurement
CM2	0=00 4000 1			L ₁₀ (30 min.) dB(A)	Façade Measurement
СМЗ	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Façade Measurement
CM4	weekdays			L _{eq} (30 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

Equipment Model		Quantity
Integrating Cound Lavel Mater	BSWA 308 (Serial No.: 580156)	1
Integrating Sound Level Meter	SVAN 957 (Serial No.: 23851)	1
Calibrator	ST-120 (Serial No.: 181001608)	1

Monitoring Methodology and QA/QC Procedure

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

Maintenance and Calibration

- 3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level

meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 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**.

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 (October 2021), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	74.8
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	74.0
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	73.0
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	68.5
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	69.5

3.14 The results at CM2, CM3, CM4 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 CM1 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 fluctuation of road traffic near Eastern Cross Harbour Tunnel Toll Plaza. 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.
- 8.2 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

Mitigation Measures for Cultural Heritage

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

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

9 LANDSCAPE AND VISUAL IMPACT

- 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 07, 15, 22 and 26 October 2021 in the reporting month. Site inspection of the IEC was conducted on 07 October 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 Date		Observations and Recommendations	Follow-up
Air Quality	07 Oct 2021	NRMM labels of PME are missing	NRMM are displayed.
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	Noise barrier was erected to block the direct view of noise source from NSR.
Water Quality	N/A	There was no observation in the reporting period.	N/A
Feelogy N/A		There was no observation in the reporting period.	N/A
Landscape and Visual N/A		There was no observation in the reporting period.	N/A
Waste / Chemical Management N/A		There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

• 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;
 - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain; and,
 - Make sure mitigation measure for dust suppression are implemented on site.

Monitoring Schedule

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

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

14.5 This is the 18th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

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

Site Audit

14.9 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

14.10 No 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:

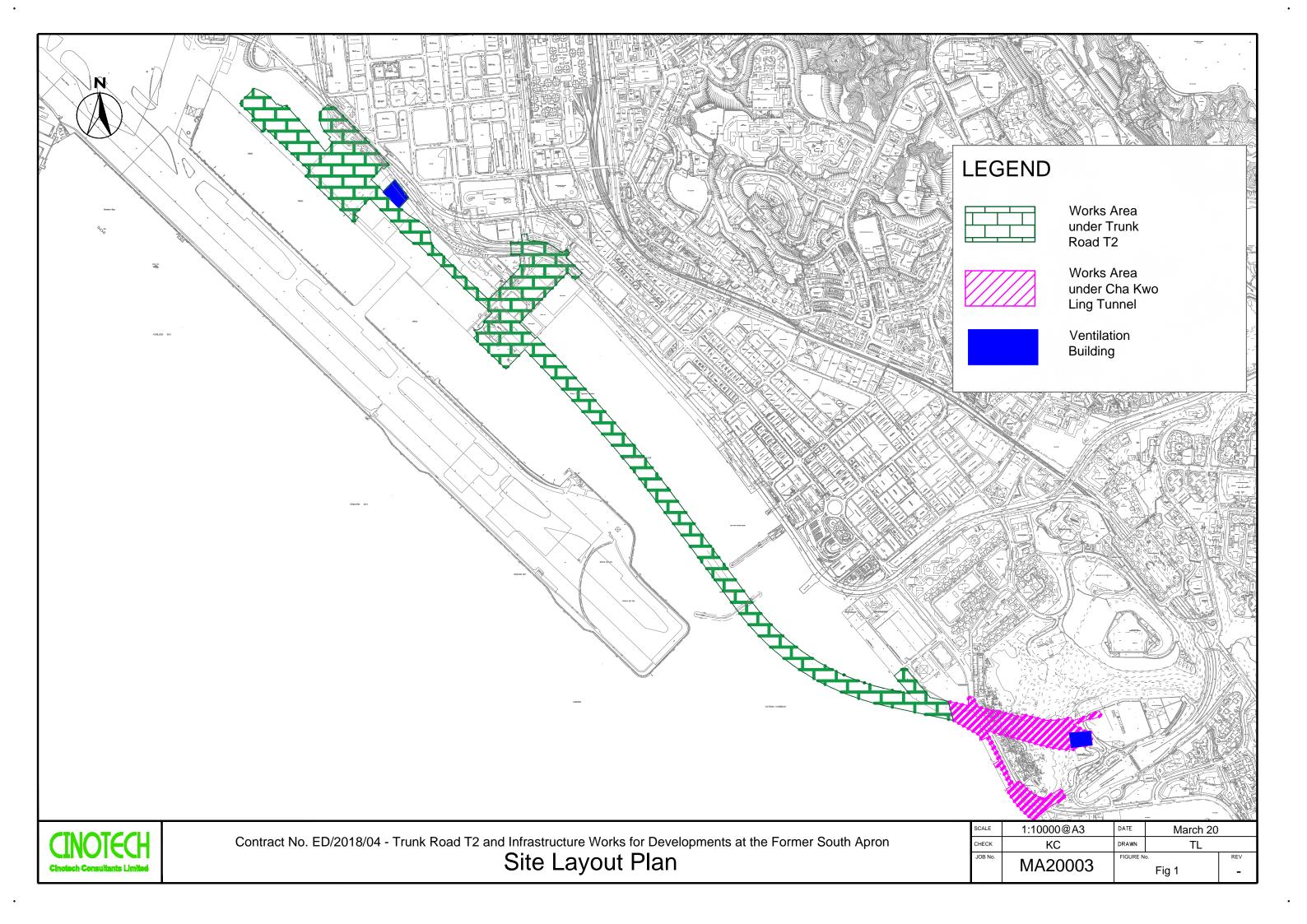
.Construction Noise Impact

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

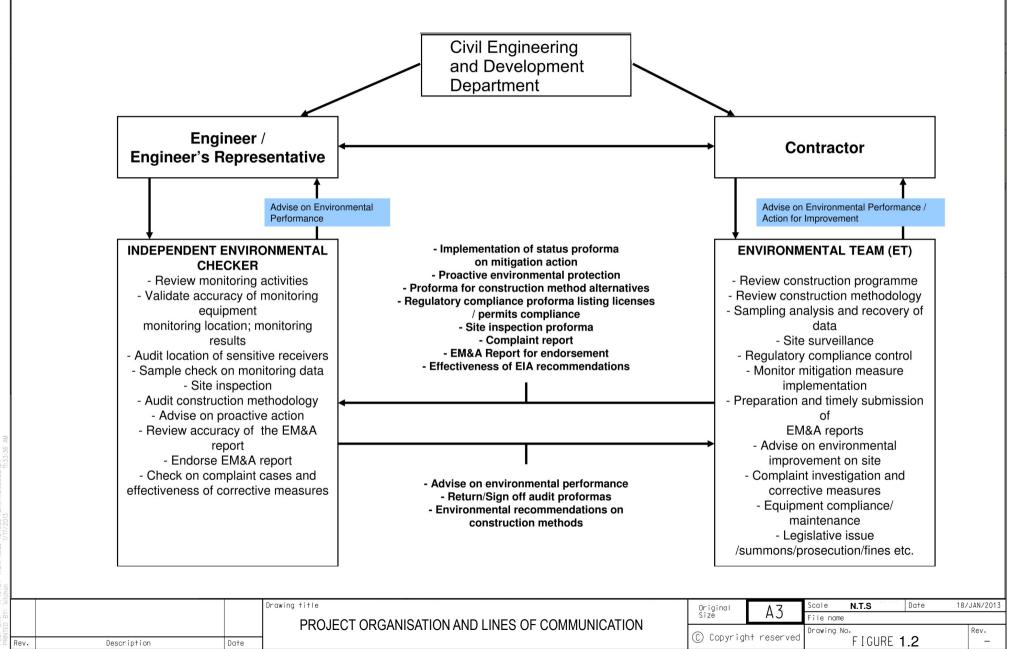
Air Quality

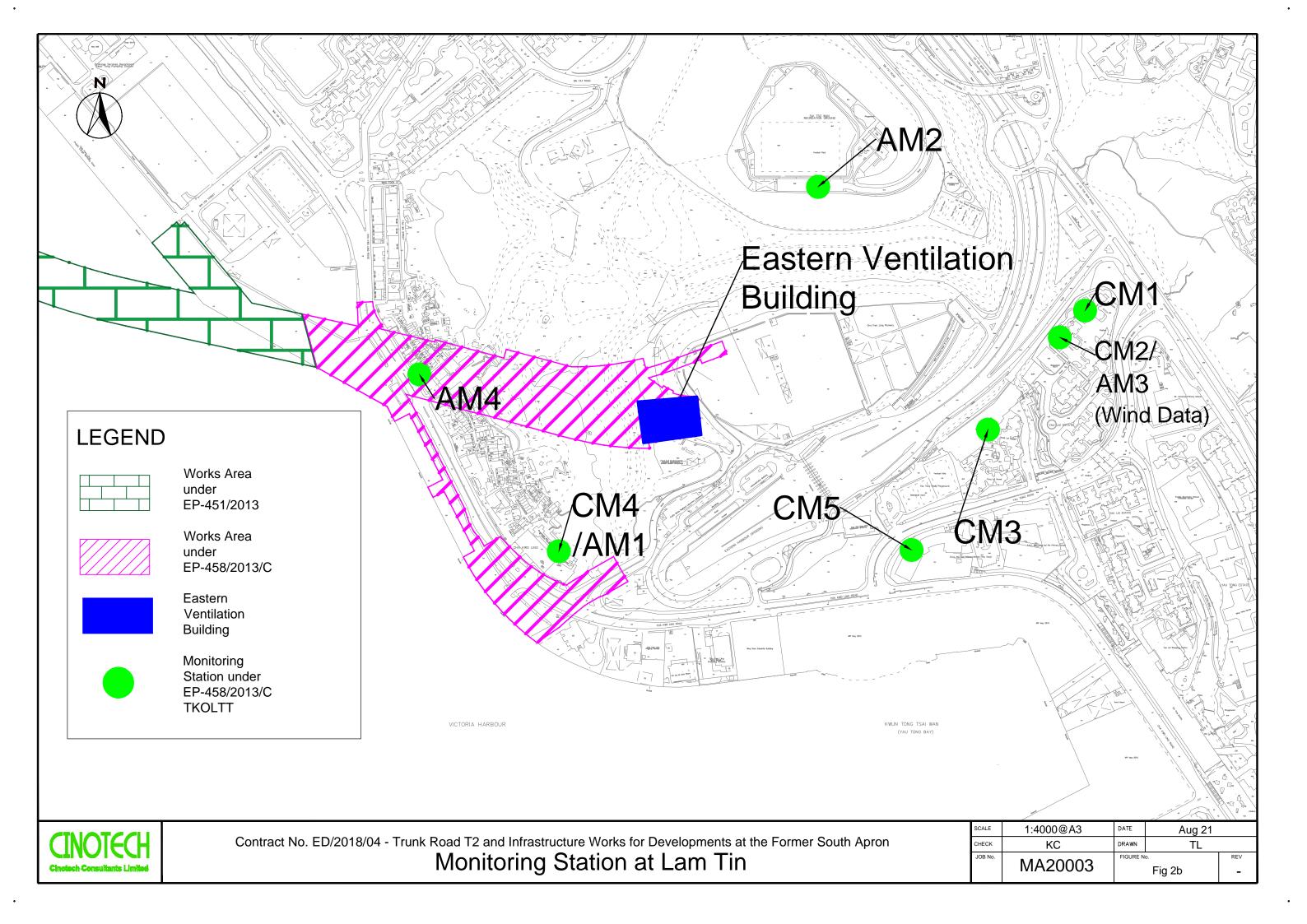
• NRMM labels shall be displayed at the conspicuous position of regulated machines.

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

CINOTECH CONSULTANTS LIMITED

Digital Dust Indicator



Date of Calibration 2-Oct-21

Certificate of Calibration

Description:

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

Manufacturer:	Sibata Scientific	Technology LTD.	Validity of Calibration Record 2-Dec-21					
Model No.:	LD-5R							
Serial No.:	972778							
Equipment No.:	SA-01-07		Sensitivity	0.001 mg/m3	_			
High Volume Sa	mpler No.: A	<u>-01-03</u>	Before Sensi	tivity Adjustment	735 CPM			
Tisch Calibration Orifice No.: 3864 After Sensitiv		vity Adjustment	735 CPM					
Calibration of 1 hr TSP								
Calibration	Laser Dust Monitor		HVS					
Point	Mass Concentration (μg/m3) X-axis		Mass concentration (μg/m³) Y-axis					
1	65.0			127.0				
2	58.0		121.0					
3	49.0		112.0					
Average		57.3		120.0				
Slope , mw =0.9404								
			Correlation	Factor				
Particaulate Concentration by High Volume Sampler (μg/m³)			120.0					
	centration by Dus	st Meter (µg/m³)		57.3				
Measureing time					60.0			
Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]			2.1					
The Dust Monitor Factor (CF) betw	or was compared veen the Dust Mo	he instruction manual with a calibrated Hig nitor and High Volur	h Volume San ne Sampler.	-	was used to gene	rate the Correlation		
Calibrated by: Technica	al Officer (Wong	Shing Kwai)	-		-let Manager (Henr	1 1		

CINOTECH CONSULTANTS LIMITED

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

CINOTECH CONSULTANTS LIMITED



Certificate of Calibration

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

Description:	Digital Dust I	ndicator		Date of	of Calibration	2-Oct-21
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibr	ration Record	2-Dec-21
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	734 CPM	
	_	Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	М	ass Concentration (μg/ X-axis	m3)	Mas	s concentration (μ Y-axis	g/m ³)
1		64.0			127.0	
2		56.0			121.0	
3		45.0			112.0	
Average		55.0			120.0	
Slope , mw = Correlation co	0.791 pefficient* =	0.9997		cept, bw =	76.4835	
Particoulate Con	contration by E	Se High Volume Sampler (t Correlation F	actor	120.0	
		Dust Meter (μg/m³)	<u>μ</u> g/ш)		120.0 55.0	
Measureing time	•	oust Weter (μg/III)			60.0	
Set Correlation I				I	00.0	
	•	pler / Dust Meter, (μ	g/m3)]	2.2		
The Dust Monitor Factor (CF) betw	or was compare ween the Dust N	o the instruction manual of with a calibrated High Monitor and High Voluted by HOKLAS laborated	gh Volume Sam me Sampler.	•	was used to gener	ate the Correlation
Calibrated by:		ng Shing Kwai)	_	Approved by: Projec	t Manager (Henry	



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	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	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		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 = \Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta) $ $Va = \Delta Vol((Pa-\Delta P)/Pa)$						
Qstd=	Vstd/ΔTime	Qa= Va/ΔTime				
For subsequent flow rate calculations:						
$\mathbf{Qstd} = \frac{1}{m} \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right) $ $\mathbf{Qa} = \frac{1}{m} \left(\left(\sqrt{\Delta H \left(Ta/Pa \right)} \right) - b \right)$						

Standard Conditions					
Tstd: 298.15 °K					
Pstd: 760 mm Hg					
	Key				
ΔH: calibrator manometer reading (in H2O)					
ΔP: rootsmeter manometer reading (mm Hg)					
Ta: actual absolute temperature (°K)					
Pa: actual barometric pressure (mm Hg)					
b: intercept					
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



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 Sp	peed, 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

High Precision Chemical Testing Limited Rm 1904, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong

Tel: (852) 3841 4388 Email: info@hpct.com.hk



APPLICANT: Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Test Report No.: 00122 Date of Issue: 2021-05-12

Date Received: 2021-05-07 Test Period 2021-05-10 to

2021-05-10

Next Due Date: 2022-05-10

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

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

Test conditions:

Room Temperature : 22-25 degree Celsius

Relative Humidity : 35-70%

Method reference:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Measuring equipment:

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

High Precision Chemical Testing Limited Rm 1904, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong

Tel: (852) 3841 4388 Email: info@hpct.com.hk



Test Report

Results:

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

REMARK:

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

End of Donout
End of Report

PREPARED AND CHECKED BY:

For and On Behalf of **High Precision Chemical Testing Limited**

Laboratory Director (CHAN Hon-Fai)



File No. MA16034/05/0031

Project No.	AM1 - Tin Hau	Temple					
Date:	10-A	ug-21	Next Due Date:	10-	Oct-21	Operator:	SK
Equipment No.:	A-0	1-05	Model No.:	G	S2310	Serial No.	10599
			•			·	
			Ambient C	ondition			
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 (ΙΔΠ X	(1 a/ /00) X (2)0/	[a) ₁ -bc ₃ / II	
		•	Calibration of T	ΓSP 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	13.2		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
Slope, mw = Correlation		0.	.9971 calibrate.		-0.185	64	
			Set Point Ca	lculation			
	eld Calibration C	,					
From the Regres	sion Equation, th	ie "Y" value acc	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 (T	Га / 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



File No. MA16034/08/0031

Project No.	AM2 - Sai Tso	Wan Recreation	Ground			-	
Date:	10-A	10-Aug-21 Ne		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) X (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	11115 1211411	Digitature.			. Date	10 /1ug-21
Checked by:	Henry	Leung	Signature:	- lem	y day	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. MA16034/54/0031

Project No.	AM4(A) - Cha I	Kwo Ling Public	Cargo Working A	rea Administra	tive Office		
Date:	10-A	ug-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	
			ifice Transfer Star				
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 C			Set Point Ca	llculation			
	eld Calibration C	,					
From the Regres	sion Equation, th	ie "Y" value acco	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	Γa / 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. MA16034/05/0032

Project No.	AM1 - Tin Hau	Temple					
Date:	9-00	et-21	Next Due Date:	9-I	Dec-21	Operator:	SK
Equipment No.:	A-0	1-05	Model No.:	G	S2310	Serial No.	10599
			Ambient C	ondition	T		
Temperatu	re, Ta (K)	299.5	Pressure, Pa	(mmHg)		753.6	
		Ori	ifice Transfer Star	ndard Inform	ation		
Serial	No.	3864	Slope, mc	0.05846	Intercept	t, bc	-0.00313
Last Calibra	ation Date:	11-Jan-21		nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	$(298/Ta)]^{1}$	/2
Next Calibra	ation Date:	11-Jan-22			(Pa/760) x (298/7		
			Calibration of	TSP Sampler		****	
Calibration	AII (aultius)		fice	Ontal (CEMA)	AW (III/C) :	HVS	(0) (200 /F \1/2
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} /-axis
1	13.3		3.62	62.02	9.1		3.00
2	9.8		3.11	53.24	7.0		2.63
3	7.4		2.70	46.27	5.2		2.27
4	5.2		2.27	38.80	3.2		1.78
5	3.0		1.72	29.48	2.0		1.40
Slope, mw = Correlation		0	.9968 calibrate.		-0.110	8	
a d man E'			Set Point Ca	lculation			
	eld Calibration C	,					
From the Regres	sion Equation, th	e "Y" value acc	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	$[98/Ta]^{1/2}$		
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.32							
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:	K	<u> </u>	Date:	9-Oct-21
Checked by:	Henry	Leung	Signature:	- lem	Jan _	Date:	9-Oct-21



File No. MA16034/08/0032

Project No.	AM2 - Sai Tso	Wan Recreation	Ground			-	
Date:	9-Oct-21		Next Due Date:	9-I	Dec-21	Operator:	SK
Equipment No.:	A-0	1-08	Model No.:	GS	S2310	Serial No.	1287
			Ambient C	Condition			
Temperatur	re, Ta (K)	299.5	Pressure, Pa	(mmHg)		753.6	
		Ōi	fice Tuenafou S4e	ndand 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		
Tiont carrott	ation Bute.			<u> </u>	() (.,,	
			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} V-axis
1	13.2		3.61	61.78	9.0		2.98
2	10.2		3.17	54.32	6.6		2.55
3	7.9	:	2.79	47.81	4.9		2.20
4	5.2	2	2.27	38.80	3.3		1.80
5	3.0		1.72	29.48	2.0		1.40
	coefficient* =		9976	Intercept, bw :	-0.060	95	
*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 acce	ording to				
		mw v O	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	/ (Ра/760) v (20	08/Ta)l ^{1/2}		
		mw x Q	gsta · bw — [Δw 2	(1 a/ /00) X (2)	76/ 1 a)j		
Therefore, Se	t Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (Ta / 298) =	4.14		
Remarks:							
•							
				,	1		
Conducted by:	Wong Sl	ning Kwai	Signature:	X	7	Date:	9-Oct-21
Conducted by.	Trong Si	g 1xwai	Signature.			Date.) OCE-21
Checked by:	Henry	Leung	Signature:	- lem	y day	Date:	9-Oct-21



File No. MA16034/03/0032

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	9-Oct-21		Next Due Date:	9-I	Dec-21	Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	299.5	Pressure, Pa			753.6	
	-/ \ / <u> </u>		,	(8)	-		
		Ori	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	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$) x (298/Ta)] ^{1/2}	2
Next Calibra	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			•				
			Calibration of T	ΓSP 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		(50) x (298/Ta)] ^{1/2} (-axis
1	13.3		3.62	62.02	9.1	,	3.00
2	10.3		3.19	54.58	6.8	2	2.59
3	8.2		2.84	48.71	5.4	2	2.31
4	5.6		2.35	40.26	3.5		1.86
5	2.9		1.69	28.99	2.0		1.40
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0486 coefficient* =	<u> </u>	.9983		-0.049	98	
From the TSP Fi	eld Calibration (Curve, take Qstd		il culturo il			
		ne "Y" value acc					
From the Regres	sion Equation, u	ic i value acci	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	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.22		
Remarks:							
Conducted by:	Wong Sh	ning Kwai	Signature:	K	<u></u>	Date:	9-Oct-21
Checked by:	Henry	Leung	Signature:	- -lem	y day_	Date:	9-Oct-21



File No. MA16034/54/0032

Project No.	AM4(A) - Cha I	Kwo Ling Public	Cargo Working A	rea Administra	tive Office		
Date:	9-00	t-21	Next Due Date:	9-I	Dec-21	Operator:	SK
Equipment No.:	A-0	1-54	Model No.:	TE	E-5170	Serial No.	1536
			Ambient C		I		
Temperatu	re, Ta (K)	299.5	Pressure, Pa	(mmHg)		753.6	
		Ori	ifice Transfer Star	ndard Informa	ation		
Serial	l No.	3864	Slope, mc	0.05846	Intercept	t, bc	-0.00313
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	$(298/Ta)^{1}$	/2
Next Calibra	ation Date:	11-Jan-22			(Pa/760) x (298/7		
	<u> </u>	0	Calibration of	ISP Sampler		IIVO	
Calibration	AII (arifica)		fice	Oatd (CEM)	AW (HVC)	HVS	(0) (200/T)1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y-axis
1	13.2		3.61	61.78	9.4		3.05
2	10.6		3.23		7.4		2.70
3	7.6	:	2.74	46.89	5.1		2.24
4	5.6	:	2.35	40.26	3.6		1.88
5	3.0		1.72	29.48	1.9		1.37
Slope, mw = Correlation		0	.9996 calibrate.		-0.191	4	
Enome the TCD E	ield Calibration C	Sumue delle Oedd	Set Point Ca	uculation			
From the Regres	ssion Equation, th	e "Y" value acc	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	Γa / 298) =	4.27		
Domontro							
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:	K	<u></u>	Date:	9-Oct-21
Checked by:	Henry	Leung	Signature:	_ \-lem	Jan _	Date:	9-Oct-21



Calibration Certificate

0025914

Object 1: SVAN957 SLM Customer: Cinotech Consultants Limited Serial No. /Ref. No. : 23851 / N-08-12 RM 1710, Technology Park, Object 2: Microphone Serial No. /Ref. No. : 18 On Lai Street, Shatin, N.T. 43676 Hong Kong Customer Code: Manufacturer: SVEC09005 Svantek 0025914 Date of calibration: 22/01/2021 Certificate No.: Date of the recommended re-calibration: 22/01/2022 Handle by: E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
	94.0dB	93.6dB	-0.4dB	+/- 1.5dB	1
ſ	114.0dB	113.5dB	-0.5dB	+/- 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

+/- 0.2 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

Approved by

Calibration Technician

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

CINOTECH CONSULTANTS LIMITED

Digital Dust Indicator



Date of Calibration 2-Aug-21

Certificate of Calibration

Description:

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

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	
Calibration of 1 hr 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 Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] 2.3					
In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler. Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)						
Calibrated by: Technica		ng Shing Kwai)	-		t Manager (Henry	, (

APPENDIX C WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity (%) ²	Precipitation (mm) ³
1-Oct-21	30.3	79	Trace
2-Oct-21	30.0	74	0.0
3-Oct-21	28.8	79	1.9
4-Oct-21	29.8	71	0.0
5-Oct-21	30.1	69	Trace
6-Oct-21	29.5	69	Trace
7-Oct-21	28.8	75	43.9
8-Oct-21	25.5	94	329.7
9-Oct-21	26.5	91	130.3
10-Oct-21	26.8	86	45.1
11-Oct-21	28.5	68	0.0
12-Oct-21	25.1	65	0.2
13-Oct-21	25.8	89	57.7
14-Oct-21	27.8	86	13.3
15-Oct-21	26.2	85	4.6
16-Oct-21	26.8	73	Trace
17-Oct-21	24.2	68	0.0
18-Oct-21	23.9	70	0.0
19-Oct-21	25.7	75	0.0
20-Oct-21	26.8	78	0.1
21-Oct-21	24.2	80	0.7
22-Oct-21	19.3	77	Trace
23-Oct-21	20.5	75	0.0
24-Oct-21	22.1	69	0.0
25-Oct-21	23.1	66	0.0
26-Oct-21	25.1	69	0.0
27-Oct-21	25.6	76	Trace
28-Oct-21	25.7	77	0.1
29-Oct-21	25.5	76	1.1
30-Oct-21	24.4	81	2.4
31-Oct-21	24.3	75	0.0

(Reporting Month: October 2021)

Remarks:

Source - Hong Kong Observatory

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

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
1 Oct 2021	12:00 AM	ENE	0.5	
1 Oct 2021	1:00 AM	NE	0.3	
1 Oct 2021	2:00 AM	NNE	0.2	
1 Oct 2021	3:00 AM	ENE	0.2	
1 Oct 2021	4:00 AM	ENE	0.3	
1 Oct 2021	5:00 AM	ENE	0.2	
1 Oct 2021	6:00 AM	ENE	0.2	
1 Oct 2021	7:00 AM	ENE	0.3	
1 Oct 2021	8:00 AM	Е	1.8	
1 Oct 2021	9:00 AM	Е	0.4	
1 Oct 2021	10:00 AM	ENE	0.5	
1 Oct 2021	11:00 AM	Е	0.4	
1 Oct 2021	12:00 PM	ENE	0.3	
1 Oct 2021	1:00 PM	Е	0.4	
1 Oct 2021	2:00 PM	ENE	0.4	
1 Oct 2021	3:00 PM	Е	0.2	
1 Oct 2021	4:00 PM	ENE	0.2	
1 Oct 2021	5:00 PM	NE	0.2	
1 Oct 2021	6:00 PM	SSE	0.2	
1 Oct 2021	7:00 PM	ENE	0.3	
1 Oct 2021	8:00 PM	ENE	0.3	
1 Oct 2021	9:00 PM	ENE	0.3	
1 Oct 2021	10:00 PM	ENE	0.3	
1 Oct 2021	11:00 PM	ENE	0.3	
2 Oct 2021	12:00 AM	Е	0.4	
2 Oct 2021	1:00 AM	Е	0.2	
2 Oct 2021	2:00 AM	ENE	0.2	
2 Oct 2021	3:00 AM	ENE	0.2	
2 Oct 2021	4:00 AM	ENE	0.2	
2 Oct 2021	5:00 AM	ENE	0.2	
2 Oct 2021	6:00 AM	ENE	0.2	
2 Oct 2021	7:00 AM	ENE	0.2	
2 Oct 2021	8:00 AM	ENE	0.2	
2 Oct 2021	9:00 AM	ENE	0.2	
2 Oct 2021	10:00 AM	NE	0.2	
2 Oct 2021	11:00 AM	NNW	0.2	
2 Oct 2021	12:00 PM	ENE	0.3	
2 Oct 2021	1:00 PM	ESE	0.3	
2 Oct 2021	2:00 PM	ENE	0.2	
2 Oct 2021	3:00 PM	ESE	0.2	
2 Oct 2021	4:00 PM	SE	0.1	
2 Oct 2021	5:00 PM	S	0.3	
2 Oct 2021	6:00 PM	SE	0.2	
2 Oct 2021	7:00 PM	ENE	0.3	
2 Oct 2021	8:00 PM	E	0.6	
2 Oct 2021	9:00 PM	ENE	0.2	
2 Oct 2021	10:00 PM	ENE	0.1	
2 Oct 2021	11:00 PM	E	0.1	
3 Oct 2021	12:00 AM	E	0.1	
3 Oct 2021	1:00 AM	NE NE	0.1	
3 Oct 2021	2:00 AM	NE NE	0.1	
3 Oct 2021	3:00 AM	NE	0.1	
3 Oct 2021	4:00 AM	NNE	0.1	
3 Oct 2021	5:00 AM	ENE	0.1	
3 Oct 2021	6:00 AM	NE ENE	0.1	
3 Oct 2021	7:00 AM	ENE	0.1	
3 Oct 2021	8:00 AM	NNE	0.1	

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
3 Oct 2021	9:00 AM	NE	0.1	
3 Oct 2021	10:00 AM	Е	0.1	
3 Oct 2021	11:00 AM	ENE	0.2	
3 Oct 2021	12:00 PM	NE	0.2	
3 Oct 2021	1:00 PM	ENE	0.2	
3 Oct 2021	2:00 PM	SW	0.3	
3 Oct 2021	3:00 PM	S	0.3	
3 Oct 2021	4:00 PM	SE	0.1	
3 Oct 2021	5:00 PM	ESE	0.1	
3 Oct 2021	6:00 PM	ESE	0.1	
3 Oct 2021	7:00 PM	NE	0.1	
3 Oct 2021	8:00 PM	NE	0.1	
3 Oct 2021	9:00 PM	NE	0.1	
3 Oct 2021	10:00 PM	ENE	0.1	
3 Oct 2021	11:00 PM	ENE	0.1	
4 Oct 2021	12:00 AM	ENE	0.1	
4 Oct 2021	1:00 AM	ENE	0.1	
4 Oct 2021	2:00 AM	ENE	0.1	
4 Oct 2021	3:00 AM	ENE	0.1	
4 Oct 2021	4:00 AM	NE	0.1	
4 Oct 2021	5:00 AM	ENE	0.1	
4 Oct 2021	6:00 AM	ENE	0.1	
4 Oct 2021	7:00 AM	ENE	0.1	
4 Oct 2021	8:00 AM	NE	0.1	
4 Oct 2021	9:00 AM	ENE	0.1	
4 Oct 2021	10:00 AM	WNW	0.1	
4 Oct 2021	11:00 AM	W	0.1	
4 Oct 2021	12:00 PM	SE	0.1	
4 Oct 2021	1:00 PM	WSW	0.7	
4 Oct 2021	2:00 PM	SW	0.3	
4 Oct 2021	3:00 PM	SW	0.5	
4 Oct 2021	4:00 PM	W	0.1	
4 Oct 2021	5:00 PM	W	0.1	
4 Oct 2021	6:00 PM	SW	0.1	
4 Oct 2021	7:00 PM	SSW	0.1	
4 Oct 2021	8:00 PM	Е	0.1	
4 Oct 2021	9:00 PM	NE	0.1	
4 Oct 2021	10:00 PM	NNE	0.1	
4 Oct 2021	11:00 PM	ENE	0.1	
5 Oct 2021	12:00 AM	NE	0.1	
5 Oct 2021	1:00 AM	ENE	0.1	
5 Oct 2021	2:00 AM	NNE	0.1	
5 Oct 2021	3:00 AM	NE	0.1	
5 Oct 2021	4:00 AM	Е	0.1	
5 Oct 2021	5:00 AM	ENE	0.1	
5 Oct 2021	6:00 AM	NE	0.1	
5 Oct 2021	7:00 AM	ENE	0.1	
5 Oct 2021	8:00 AM	SW	0.1	
5 Oct 2021	9:00 AM	S	0.1	
5 Oct 2021	10:00 AM	SE	0.1	
5 Oct 2021	11:00 AM	ESE	0.2	
5 Oct 2021	12:00 PM	NE	0.3	
5 Oct 2021	1:00 PM	ENE	0.2	
5 Oct 2021	2:00 PM	ENE	0.3	
5 Oct 2021	3:00 PM	ENE	0.2	
5 Oct 2021	4:00 PM	Е	0.1	
5 Oct 2021	5:00 PM	ENE	0.1	

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
5 Oct 2021	6:00 PM	Е	0.2	
5 Oct 2021	7:00 PM	ENE	0.1	
5 Oct 2021	8:00 PM	ESE	0.1	
5 Oct 2021	9:00 PM	NE	0.1	
5 Oct 2021	10:00 PM	ENE	0.1	
5 Oct 2021	11:00 PM	ENE	0.1	
6 Oct 2021	12:00 AM	Е	0.1	
6 Oct 2021	1:00 AM	NE	0.1	
6 Oct 2021	2:00 AM	NNE	0.1	
6 Oct 2021	3:00 AM	NNE	0.1	
6 Oct 2021	4:00 AM	NNE	0.4	
6 Oct 2021	5:00 AM	NE	0.1	
6 Oct 2021	6:00 AM	NNE	0.2	
6 Oct 2021	7:00 AM	NE	0.9	
6 Oct 2021	8:00 AM	E	0.1	
6 Oct 2021	9:00 AM	ESE	0.2	
6 Oct 2021	10:00 AM	NW	0.2	
6 Oct 2021	11:00 AM	NE	0.3	
6 Oct 2021	12:00 PM	NE NE	0.3	
6 Oct 2021 6 Oct 2021	1:00 PM	ENE ENE	0.1	
6 Oct 2021	2:00 PM	NNE	0.1	
6 Oct 2021	3:00 PM	NNE	0.1	
6 Oct 2021	4:00 PM	NNE	0.2	
6 Oct 2021	5:00 PM	ENE	0.1	
6 Oct 2021	6:00 PM	E	0.4	
6 Oct 2021	7:00 PM	NE NE	0.2	
6 Oct 2021	8:00 PM	NE NE	0.2	
6 Oct 2021	9:00 PM	N	0.2	
6 Oct 2021	10:00 PM	E	0.8	
6 Oct 2021	11:00 PM	NE	0.2	
7 Oct 2021	12:00 AM	N	0.5	
7 Oct 2021	1:00 AM	ENE	0.9	
7 Oct 2021	2:00 AM	NE	0.4	
7 Oct 2021	3:00 AM	NNE	0.2	
7 Oct 2021	4:00 AM	ENE	0.3	
7 Oct 2021	5:00 AM	N	0.2	
7 Oct 2021	6:00 AM	NE	0.4	
7 Oct 2021	7:00 AM	N	0.1	
7 Oct 2021	8:00 AM	NNE	0.4	
7 Oct 2021	9:00 AM	NE	0.2	
7 Oct 2021	10:00 AM	N	0.6	
7 Oct 2021	11:00 AM	ENE	0.5	
7 Oct 2021	12:00 PM	ENE	0.2	
7 Oct 2021	1:00 PM	N	0.3	
7 Oct 2021	2:00 PM	NW	0.7	
7 Oct 2021	3:00 PM	NE	1.0	
7 Oct 2021	4:00 PM	NNE	0.1	
7 Oct 2021	5:00 PM	ENE	0.3	
7 Oct 2021	6:00 PM	NE	0.1	
7 Oct 2021	7:00 PM	ENE	0.4	
7 Oct 2021	8:00 PM	NNE	0.7	
7 Oct 2021	9:00 PM	NE	0.2	
7 Oct 2021	10:00 PM	E	0.1	
7 Oct 2021	11:00 PM	ENE	0.1	
8 Oct 2021	12:00 AM	NE NE	0.1	
8 Oct 2021	1:00 AM	ENE	0.2	
8 Oct 2021	2:00 AM	SW	1.5	
3 300 2021		5 11	1	

	October 2021				
	Wind Speed	and Directions			
Date	Time	Wind Speed m-s	Direction		
8 Oct 2021	3:00 AM	S	0.1		
8 Oct 2021	4:00 AM	SE	1.5		
8 Oct 2021	5:00 AM	N	0.9		
8 Oct 2021	6:00 AM	NE	0.1		
8 Oct 2021	7:00 AM	NE	0.2		
8 Oct 2021	8:00 AM	SE	0.2		
8 Oct 2021	9:00 AM	Е	0.2		
8 Oct 2021	10:00 AM	ENE	0.3		
8 Oct 2021	11:00 AM	ENE	0.7		
8 Oct 2021	12:00 PM	NNW	2.5		
8 Oct 2021	1:00 PM	NNE	0.8		
8 Oct 2021	2:00 PM	ENE	0.2		
8 Oct 2021	3:00 PM	NNE	0.1		
8 Oct 2021	4:00 PM	NE	0.3		
8 Oct 2021	5:00 PM	NE	0.7		
8 Oct 2021	6:00 PM	ENE	0.5		
8 Oct 2021	7:00 PM	ENE	0.1		
8 Oct 2021	8:00 PM	NNE	0.4		
8 Oct 2021	9:00 PM	ENE	0.1		
8 Oct 2021	10:00 PM	N	0.1		
8 Oct 2021	11:00 PM	NNE	0.6		
9 Oct 2021	12:00 AM	Е	0.1		
9 Oct 2021	1:00 AM	N	0.6		
9 Oct 2021	2:00 AM	ESE	0.1		
9 Oct 2021	3:00 AM	NE	0.1		
9 Oct 2021	4:00 AM	ENE	0.2		
9 Oct 2021	5:00 AM	ENE	2.1		
9 Oct 2021	6:00 AM	Е	0.1		
9 Oct 2021	7:00 AM	ENE	1.0		
9 Oct 2021	8:00 AM	NNE	0.1		
9 Oct 2021	9:00 AM	N	1.4		
9 Oct 2021	10:00 AM	NE	0.1		
9 Oct 2021	11:00 AM	NNE	0.3		
9 Oct 2021	12:00 PM	N	0.3		
9 Oct 2021	1:00 PM	N	0.4		
9 Oct 2021	2:00 PM	N	0.1		
9 Oct 2021	3:00 PM	ENE	0.2		
9 Oct 2021	4:00 PM	NE	0.1		
9 Oct 2021	5:00 PM	NNE	0.1		
9 Oct 2021	6:00 PM	ENE	0.1		
9 Oct 2021	7:00 PM	NE	0.1		
9 Oct 2021	8:00 PM	ENE	0.3		
9 Oct 2021	9:00 PM	NNE	0.2		
9 Oct 2021	10:00 PM	NE E	0.1		
9 Oct 2021	11:00 PM	E	0.2		
10 Oct 2021	12:00 AM	ENE	0.1		
10 Oct 2021	1:00 AM	NE ENE	0.1		
10 Oct 2021	2:00 AM	ENE	0.1		
10 Oct 2021	3:00 AM	SW	0.1		
10 Oct 2021	4:00 AM	S	0.1		
10 Oct 2021	5:00 AM	SE	0.2		
10 Oct 2021	6:00 AM	NNE	0.1		
10 Oct 2021	7:00 AM	NE NE	0.1		
10 Oct 2021	8:00 AM	NE N	0.1		
10 Oct 2021	9:00 AM	N	0.4		
10 Oct 2021	10:00 AM	ENE	0.1		
10 Oct 2021	11:00 AM	NE	0.1		

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
10 Oct 2021	12:00 PM	NNE	0.1	
10 Oct 2021	1:00 PM	WNW	0.3	
10 Oct 2021	2:00 PM	NE	0.1	
10 Oct 2021	3:00 PM	NE	0.1	
10 Oct 2021	4:00 PM	ENE	0.1	
10 Oct 2021	5:00 PM	ENE	0.1	
10 Oct 2021	6:00 PM	ENE	0.1	
10 Oct 2021	7:00 PM	ENE	0.1	
10 Oct 2021	8:00 PM	NE	0.1	
10 Oct 2021	9:00 PM	Е	0.1	
10 Oct 2021	10:00 PM	ENE	0.1	
10 Oct 2021	11:00 PM	ENE	0.1	
11 Oct 2021	12:00 AM	ENE	0.1	
11 Oct 2021	1:00 AM	NE	0.1	
11 Oct 2021	2:00 AM	SSW	0.1	
11 Oct 2021	3:00 AM	NE	0.1	
11 Oct 2021	4:00 AM	NE	0.1	
11 Oct 2021	5:00 AM	NE	0.1	
11 Oct 2021	6:00 AM	ENE	0.1	
11 Oct 2021	7:00 AM	ENE	0.1	
11 Oct 2021	8:00 AM	Е	0.2	
11 Oct 2021	9:00 AM	N	0.5	
11 Oct 2021	10:00 AM	ESE	0.1	
11 Oct 2021	11:00 AM	ENE	0.2	
11 Oct 2021	12:00 PM	N	0.3	
11 Oct 2021	1:00 PM	NE	0.1	
11 Oct 2021	2:00 PM	ENE	0.1	
11 Oct 2021	3:00 PM	SSE	0.1	
11 Oct 2021	4:00 PM	Е	0.1	
11 Oct 2021	5:00 PM	ENE	0.3	
11 Oct 2021	6:00 PM	ENE	0.1	
11 Oct 2021	7:00 PM	NE	0.1	
11 Oct 2021	8:00 PM	ENE	0.1	
11 Oct 2021	9:00 PM	NE	0.1	
11 Oct 2021	10:00 PM	ENE	0.1	
11 Oct 2021	11:00 PM	ENE	0.1	
12 Oct 2021	12:00 AM	ENE	0.1	
12 Oct 2021	1:00 AM	ENE	0.1	
12 Oct 2021	2:00 AM	NE	0.1	
12 Oct 2021	3:00 AM	<u>E</u>	0.1	
12 Oct 2021	4:00 AM	E	0.1	
12 Oct 2021	5:00 AM	NNE	0.1	
12 Oct 2021	6:00 AM	ENE	0.1	
12 Oct 2021	7:00 AM	NE NE	0.1	
12 Oct 2021	8:00 AM	NE NE	0.1	
12 Oct 2021	9:00 AM	NNE	0.3	
12 Oct 2021	10:00 AM	ENE	0.2	
12 Oct 2021	11:00 AM	NE	0.1	
12 Oct 2021	12:00 PM	ENE	0.1	
12 Oct 2021	1:00 PM	ENE	0.2	
12 Oct 2021	2:00 PM	ENE	0.1	
12 Oct 2021	3:00 PM	E	0.1	
12 Oct 2021	4:00 PM	E	0.3	
12 Oct 2021	5:00 PM	ENE	0.5	
12 Oct 2021	6:00 PM	ENE	0.1	
12 Oct 2021	7:00 PM	NE NE	0.1	
12 Oct 2021	8:00 PM	NE	0.1	

Date	October 2021				
12 Oct 2021					
12 Oct 2021			_	Direction	
12 Oct 2021		1			
13 Oct 2021 12:00 AM					
13 Oct 2021					
13 Oct 2021 2:00 AM					
13 Oct 2021					
13 Oct 2021					
13 Oct 2021 5:00 AM NNE 0.5 13 Oct 2021 6:00 AM ENE 0.7 13 Oct 2021 7:00 AM ENE 0.8 13 Oct 2021 8:00 AM NE 0.9 13 Oct 2021 10:00 AM ENE 1.2 13 Oct 2021 11:00 AM ENE 1.2 13 Oct 2021 11:00 AM NNE 1.1 13 Oct 2021 12:00 PM ENE 1.2 13 Oct 2021 12:00 PM NNE 1.3 13 Oct 2021 12:00 PM NNE 1.1 13 Oct 2021 12:00 PM NNE 1.1 13 Oct 2021 12:00 PM NNE 1.1 13 Oct 2021 12:00 PM ENE 1.2 13 Oct 2021 13:00 PM ENE 1.1 13 Oct 2021 4:00 PM ENE 1.1 13 Oct 2021 5:00 PM ENE 1.1 13 Oct 2021 5:00 PM ENE 1.1 13 Oct 2021 7:00 PM SW 1.9 13 Oct 2021 7:00 PM SW 1.9 13 Oct 2021 8:00 PM SE 1.6 13 Oct 2021 10:00 PM SE 1.6 13 Oct 2021 11:00 PM SE 0.3 14 Oct 2021 11:00 PM SE 0.3 14 Oct 2021 12:00 AM ESE 0.5 14 Oct 2021 10:00 AM ENE 0.3 14 Oct 2021 10:00 AM ENE 0.5 14 Oct 2021 10:00 AM ENE 0.					
13 Oct 2021					
13 Oct 2021					
13 Oct 2021		1			
13 Oct 2021					
13 Oct 2021		+			
13 Oct 2021		9:00 AM			
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13 Oct 2021					
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	15 Oct 2021	5:00 AM	NNE	0.2	

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
15 Oct 2021	6:00 AM	ENE	0.2	
15 Oct 2021	7:00 AM	ENE	0.2	
15 Oct 2021	8:00 AM	ENE	0.1	
15 Oct 2021	9:00 AM	ESE	0.1	
15 Oct 2021	10:00 AM	NE	0.4	
15 Oct 2021	11:00 AM	ENE	1.5	
15 Oct 2021	12:00 PM	ENE	0.2	
15 Oct 2021	1:00 PM	Е	1.2	
15 Oct 2021	2:00 PM	WSW	0.2	
15 Oct 2021	3:00 PM	N	0.2	
15 Oct 2021	4:00 PM	SW	0.1	
15 Oct 2021	5:00 PM	NE	0.6	
15 Oct 2021	6:00 PM	NE	0.2	
15 Oct 2021	7:00 PM	SE	0.2	
15 Oct 2021	8:00 PM	NE	0.1	
15 Oct 2021	9:00 PM	NE	0.1	
15 Oct 2021	10:00 PM	NE	0.1	
15 Oct 2021	11:00 PM	ENE	0.1	
16 Oct 2021	12:00 AM	NE	0.2	
16 Oct 2021	1:00 AM	ENE	0.1	
16 Oct 2021	2:00 AM	Е	0.1	
16 Oct 2021	3:00 AM	Е	0.2	
16 Oct 2021	4:00 AM	NE	0.1	
16 Oct 2021	5:00 AM	Е	0.1	
16 Oct 2021	6:00 AM	NNE	0.1	
16 Oct 2021	7:00 AM	ENE	0.2	
16 Oct 2021	8:00 AM	NE	0.2	
16 Oct 2021	9:00 AM	ESE	0.5	
16 Oct 2021	10:00 AM	NNE	0.2	
16 Oct 2021	11:00 AM	SSE	0.1	
16 Oct 2021	12:00 PM	ENE	0.1	
16 Oct 2021	1:00 PM	ENE	0.2	
16 Oct 2021	2:00 PM	Е	0.1	
16 Oct 2021	3:00 PM	ENE	0.1	
16 Oct 2021	4:00 PM	ENE	0.1	
16 Oct 2021	5:00 PM	ENE	0.1	
16 Oct 2021	6:00 PM	ESE	0.1	
16 Oct 2021	7:00 PM	SE	0.1	
16 Oct 2021	8:00 PM	<u>E</u>	0.1	
16 Oct 2021	9:00 PM	ESE	0.1	
16 Oct 2021	10:00 PM	ENE	0.1	
16 Oct 2021	11:00 PM	NE NE	0.1	
17 Oct 2021	12:00 AM	ENE	0.2	
17 Oct 2021	1:00 AM	NE NE	0.4	
17 Oct 2021	2:00 AM	NE NE	2.8	
17 Oct 2021	3:00 AM	NE NNE	0.5	
17 Oct 2021	4:00 AM	NNE	0.1	
17 Oct 2021	5:00 AM	NNE	0.1	
17 Oct 2021	6:00 AM	NNE	0.1	
17 Oct 2021	7:00 AM	E	0.4	
17 Oct 2021	8:00 AM	NNE	0.2	
17 Oct 2021	9:00 AM	NNE	0.6	
17 Oct 2021	10:00 AM	E	0.1	
17 Oct 2021	11:00 AM	NNE	0.2	
17 Oct 2021	12:00 PM	NNW	0.2	
17 Oct 2021	1:00 PM	NE NE	0.1	
17 Oct 2021	2:00 PM	NE	0.1	

October 2021				
	Wind Speed a	and Directions		
Date	Time	Wind Speed m-s	Direction	
17 Oct 2021	3:00 PM	WNW	0.1	
17 Oct 2021	4:00 PM	NE	0.1	
17 Oct 2021	5:00 PM	ENE	0.1	
17 Oct 2021	6:00 PM	ENE	0.1	
17 Oct 2021	7:00 PM	Е	0.1	
17 Oct 2021	8:00 PM	NE	0.1	
17 Oct 2021	9:00 PM	NNE	0.6	
17 Oct 2021	10:00 PM	N	0.2	
17 Oct 2021	11:00 PM	ENE	0.2	
18 Oct 2021	12:00 AM	NE	0.2	
18 Oct 2021	1:00 AM	N	1.6	
18 Oct 2021	2:00 AM	Е	0.4	
18 Oct 2021	3:00 AM	ENE	0.3	
18 Oct 2021	4:00 AM	NE	0.4	
18 Oct 2021	5:00 AM	E	0.3	
18 Oct 2021	6:00 AM	NE	0.3	
18 Oct 2021	7:00 AM	NE	0.2	
18 Oct 2021	8:00 AM	ENE	0.1	
18 Oct 2021	9:00 AM	NE	0.2	
18 Oct 2021	10:00 AM	Е	0.2	
18 Oct 2021	11:00 AM	ENE	0.7	
18 Oct 2021	12:00 PM	NNW	0.1	
18 Oct 2021	1:00 PM	NE	0.2	
18 Oct 2021	2:00 PM	NE	0.2	
18 Oct 2021	3:00 PM	NNE	0.4	
18 Oct 2021	4:00 PM	ENE	0.2	
18 Oct 2021	5:00 PM	ENE	0.2	
18 Oct 2021	6:00 PM	ESE	0.2	
18 Oct 2021	7:00 PM	ENE	0.1	
18 Oct 2021	8:00 PM	ESE	0.2	
18 Oct 2021	9:00 PM	NNE	1.8	
18 Oct 2021	10:00 PM	NE	0.8	
18 Oct 2021	11:00 PM	NNE	0.7	
19 Oct 2021	12:00 AM	NE	0.1	
19 Oct 2021	1:00 AM	NE	0.1	
19 Oct 2021	2:00 AM	NE	0.3	
19 Oct 2021	3:00 AM	ENE	0.2	
19 Oct 2021	4:00 AM	ESE	0.2	
19 Oct 2021	5:00 AM	SSE	0.1	
19 Oct 2021	6:00 AM	NE NE	0.6	
19 Oct 2021	7:00 AM	NE NE	0.2	
19 Oct 2021	8:00 AM	ENE	0.7	
19 Oct 2021	9:00 AM	ENE	0.4	
19 Oct 2021	10:00 AM	ESE	1.5	
19 Oct 2021	11:00 AM	NE NE	0.1	
19 Oct 2021	12:00 PM	N	0.4	
19 Oct 2021	1:00 PM	NE NE	0.1	
19 Oct 2021	2:00 PM	NW	0.1	
19 Oct 2021	3:00 PM	NE NE	0.1	
19 Oct 2021	4:00 PM	ENE	0.6	
19 Oct 2021	5:00 PM	NE NE	0.2	
19 Oct 2021	6:00 PM	NNE	0.4	
19 Oct 2021	7:00 PM	ENE	0.1	
19 Oct 2021	8:00 PM	NE NE	0.1	
19 Oct 2021	9:00 PM	ENE	0.3	
19 Oct 2021	10:00 PM	NNE	0.6	
19 Oct 2021	11:00 PM	NE	0.2	

October 2021						
	Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction			
20 Oct 2021	12:00 AM	Е	0.1			
20 Oct 2021	1:00 AM	ENE	1.0			
20 Oct 2021	2:00 AM	NE	0.7			
20 Oct 2021	3:00 AM	ENE	0.1			
20 Oct 2021	4:00 AM	SW	1.4			
20 Oct 2021	5:00 AM	S	0.1			
20 Oct 2021	6:00 AM	SE	0.3			
20 Oct 2021	7:00 AM	NNW	0.9			
20 Oct 2021	8:00 AM	ENE	0.2			
20 Oct 2021	9:00 AM	NNE	0.2			
20 Oct 2021	10:00 AM	NW	0.3			
20 Oct 2021	11:00 AM	NNE	0.1			
20 Oct 2021	12:00 PM	NE NE	0.1			
20 Oct 2021	1:00 PM	E	0.1			
20 Oct 2021	2:00 PM	NNW	1.0			
20 Oct 2021 20 Oct 2021	3:00 PM	N	0.1			
		NNE	1			
20 Oct 2021 20 Oct 2021	4:00 PM 5:00 PM	NNE N	0.3			
20 Oct 2021	6:00 PM	N	0.5			
20 Oct 2021	7:00 PM	W	0.6			
20 Oct 2021	8:00 PM	NE_	0.3			
20 Oct 2021	9:00 PM	ENE	1.7			
20 Oct 2021	10:00 PM	NE	0.1			
20 Oct 2021	11:00 PM	NE	0.2			
21 Oct 2021	12:00 AM	ENE	0.1			
21 Oct 2021	1:00 AM	NE	0.2			
21 Oct 2021	2:00 AM	NE	0.3			
21 Oct 2021	3:00 AM	N	0.4			
21 Oct 2021	4:00 AM	NE	0.3			
21 Oct 2021	5:00 AM	NNE	0.1			
21 Oct 2021	6:00 AM	ESE	0.2			
21 Oct 2021	7:00 AM	ENE	0.2			
21 Oct 2021	8:00 AM	NNE	0.1			
21 Oct 2021	9:00 AM	Е	1.4			
21 Oct 2021	10:00 AM	N	0.4			
21 Oct 2021	11:00 AM	ENE	1.0			
21 Oct 2021	12:00 PM	ENE	0.1			
21 Oct 2021	1:00 PM	NNE	0.2			
21 Oct 2021	2:00 PM	NE NE	1.6			
21 Oct 2021	3:00 PM	N	0.5			
21 Oct 2021	4:00 PM	NE	0.2			
21 Oct 2021 21 Oct 2021	5:00 PM	NNE	0.2			
21 Oct 2021	6:00 PM	ENE	0.1			
21 Oct 2021 21 Oct 2021	7:00 PM	N	0.1			
21 Oct 2021 21 Oct 2021	8:00 PM	NW	0.1			
21 Oct 2021 21 Oct 2021	9:00 PM	N N	0.1			
			1			
21 Oct 2021	10:00 PM	NNE	0.2			
21 Oct 2021	11:00 PM	NE	0.2			
22 Oct 2021	12:00 AM	ENE	0.3			
22 Oct 2021	1:00 AM	NE NE	0.1			
22 Oct 2021	2:00 AM	NNE	1.2			
22 Oct 2021	3:00 AM	NNE	0.1			
22 Oct 2021	4:00 AM	NNE	0.1			
22 Oct 2021	5:00 AM	NE	1.2			
22 Oct 2021	6:00 AM	SE	0.1			
22 Oct 2021	7:00 AM	NE	0.1			
22 Oct 2021	8:00 AM	S	0.3			

October 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
22 Oct 2021	9:00 AM	ENE	0.2		
22 Oct 2021	10:00 AM	NE	1.0		
22 Oct 2021	11:00 AM	Е	1.4		
22 Oct 2021	12:00 PM	NNE	0.9		
22 Oct 2021	1:00 PM	NNW	4.2		
22 Oct 2021	2:00 PM	NE	0.9		
22 Oct 2021	3:00 PM	ENE	0.9		
22 Oct 2021	4:00 PM	NNE	1.4		
22 Oct 2021	5:00 PM	N	0.7		
22 Oct 2021	6:00 PM	ENE	0.7		
22 Oct 2021	7:00 PM	N	0.1		
22 Oct 2021	8:00 PM	ENE	0.1		
22 Oct 2021	9:00 PM	E	0.1		
22 Oct 2021	10:00 PM	NNE	0.4		
22 Oct 2021	11:00 PM	N	0.4		
23 Oct 2021	12:00 AM	NNE	0.3		
23 Oct 2021	1:00 AM	ENE	0.1		
23 Oct 2021	2:00 AM	Е	2.3		
23 Oct 2021	3:00 AM	NE	0.3		
23 Oct 2021	4:00 AM	ENE	0.1		
23 Oct 2021	5:00 AM	Е	1.2		
23 Oct 2021	6:00 AM	NE	0.1		
23 Oct 2021	7:00 AM	ENE	0.3		
23 Oct 2021	8:00 AM	NE	1.6		
23 Oct 2021	9:00 AM	Е	0.4		
23 Oct 2021	10:00 AM	NE	0.5		
23 Oct 2021	11:00 AM	NE	1.1		
23 Oct 2021	12:00 PM	ENE	1.7		
23 Oct 2021	1:00 PM	NE	0.7		
23 Oct 2021	2:00 PM	Е	0.1		
23 Oct 2021	3:00 PM	NE	0.5		
23 Oct 2021	4:00 PM	Е	0.8		
23 Oct 2021	5:00 PM	Е	0.4		
23 Oct 2021	6:00 PM	NNE	0.2		
23 Oct 2021	7:00 PM	NNE	1.3		
23 Oct 2021	8:00 PM	ESE	0.2		
23 Oct 2021	9:00 PM	ENE	0.1		
23 Oct 2021	10:00 PM	NNE	0.1		
23 Oct 2021	11:00 PM	NE	0.1		
24 Oct 2021	12:00 AM	ENE	0.1		
24 Oct 2021	1:00 AM	NE	0.1		
24 Oct 2021	2:00 AM	NW	0.1		
24 Oct 2021	3:00 AM	NE	0.2		
24 Oct 2021	4:00 AM	NE	0.1		
24 Oct 2021	5:00 AM	ENE	0.3		
24 Oct 2021	6:00 AM	ENE	0.3		
24 Oct 2021	7:00 AM	NE	0.1		
24 Oct 2021	8:00 AM	ENE	0.6		
24 Oct 2021	9:00 AM	ESE	0.2		
24 Oct 2021	10:00 AM	NE	0.4		
24 Oct 2021	11:00 AM	ENE	0.5		
24 Oct 2021	12:00 PM	ENE	0.2		
24 Oct 2021	1:00 PM	NNE	0.2		
24 Oct 2021	2:00 PM	ENE	0.5		
24 Oct 2021	3:00 PM	ENE	0.1		
24 Oct 2021	4:00 PM	ENE	0.1		
24 Oct 2021	5:00 PM	NE	0.1		

October 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
24 Oct 2021	6:00 PM	ENE	0.1		
24 Oct 2021	7:00 PM	ENE	0.1		
24 Oct 2021	8:00 PM	N	0.1		
24 Oct 2021	9:00 PM	NE	0.1		
24 Oct 2021	10:00 PM	NNE	0.1		
24 Oct 2021	11:00 PM	Е	0.1		
25 Oct 2021	12:00 AM	ENE	0.1		
25 Oct 2021	1:00 AM	ENE	0.1		
25 Oct 2021	2:00 AM	Е	0.1		
25 Oct 2021	3:00 AM	<u>E</u>	0.1		
25 Oct 2021	4:00 AM	ENE	0.1		
25 Oct 2021	5:00 AM	ENE	0.1		
25 Oct 2021	6:00 AM	NE	0.1		
25 Oct 2021	7:00 AM	NE	0.1		
25 Oct 2021	8:00 AM	E	0.1		
25 Oct 2021	9:00 AM	<u>E</u>	0.1		
25 Oct 2021	10:00 AM	NE	0.4		
25 Oct 2021	11:00 AM	NNE	0.3		
25 Oct 2021	12:00 PM	ENE	0.6		
25 Oct 2021	1:00 PM	NE	0.1		
25 Oct 2021	2:00 PM	ENE	0.1		
25 Oct 2021	3:00 PM	NNE	0.4		
25 Oct 2021	4:00 PM	NE	0.4		
25 Oct 2021	5:00 PM	Е	0.1		
25 Oct 2021	6:00 PM	ENE	0.1		
25 Oct 2021	7:00 PM	NE	0.1		
25 Oct 2021	8:00 PM	ENE	0.1		
25 Oct 2021	9:00 PM	SW	0.1		
25 Oct 2021	10:00 PM	S	0.1		
25 Oct 2021	11:00 PM	SE	0.1		
26 Oct 2021	12:00 AM	Е	0.1		
26 Oct 2021	1:00 AM	ENE	0.1		
26 Oct 2021	2:00 AM	ENE	0.1		
26 Oct 2021	3:00 AM	ENE	0.1		
26 Oct 2021	4:00 AM	ENE	0.1		
26 Oct 2021	5:00 AM	NE	0.1		
26 Oct 2021	6:00 AM	Е	0.1		
26 Oct 2021	7:00 AM	NE	0.1		
26 Oct 2021	8:00 AM	ENE	0.1		
26 Oct 2021	9:00 AM	ENE	0.2		
26 Oct 2021	10:00 AM	W	0.1		
26 Oct 2021	11:00 AM	ENE	0.9		
26 Oct 2021	12:00 PM	NNE	0.1		
26 Oct 2021	1:00 PM	SE	0.1		
26 Oct 2021	2:00 PM	SSE	0.1		
26 Oct 2021	3:00 PM	Е	0.1		
26 Oct 2021	4:00 PM	ENE	0.1		
26 Oct 2021	5:00 PM	ENE	0.1		
26 Oct 2021	6:00 PM	ENE	0.1		
26 Oct 2021	7:00 PM	ESE	0.1		
26 Oct 2021	8:00 PM	ESE	0.1		
26 Oct 2021	9:00 PM	ENE	0.1		
26 Oct 2021	10:00 PM	ENE	0.1		
26 Oct 2021	11:00 PM	Е	0.1		
27 Oct 2021	12:00 AM	ENE	0.1		
27 Oct 2021	1:00 AM	Е	0.1		
27 Oct 2021	2:00 AM	ENE	0.1		

October 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
27 Oct 2021	3:00 AM	NE	0.2		
27 Oct 2021	4:00 AM	Е	0.1		
27 Oct 2021	5:00 AM	NNE	0.1		
27 Oct 2021	6:00 AM	NNE	0.1		
27 Oct 2021	7:00 AM	Е	0.2		
27 Oct 2021	8:00 AM	ESE	0.1		
27 Oct 2021	9:00 AM	ENE	0.1		
27 Oct 2021	10:00 AM	ENE	0.1		
27 Oct 2021	11:00 AM	NE	0.1		
27 Oct 2021	12:00 PM	WSW	0.1		
27 Oct 2021	1:00 PM	SE	0.1		
27 Oct 2021	2:00 PM	ENE	0.1		
27 Oct 2021	3:00 PM	ENE	0.2		
27 Oct 2021	4:00 PM	ENE	0.1		
27 Oct 2021	5:00 PM	Е	0.1		
27 Oct 2021	6:00 PM	Е	0.2		
27 Oct 2021	7:00 PM	ENE	0.1		
27 Oct 2021	8:00 PM	SSE	0.1		
27 Oct 2021	9:00 PM	ENE	0.1		
27 Oct 2021	10:00 PM	ENE	0.1		
27 Oct 2021	11:00 PM	SSE	0.1		
28 Oct 2021	12:00 AM	ENE	0.2		
28 Oct 2021	1:00 AM	E	0.1		
28 Oct 2021	2:00 AM	NE	0.1		
28 Oct 2021	3:00 AM	ENE	0.1		
28 Oct 2021	4:00 AM	NE	0.1		
28 Oct 2021	5:00 AM	ENE	0.1		
28 Oct 2021	6:00 AM	NNE	0.1		
28 Oct 2021	7:00 AM	ENE	0.1		
28 Oct 2021	8:00 AM	NE	0.1		
28 Oct 2021	9:00 AM	NE	0.1		
28 Oct 2021	10:00 AM	NE	0.1		
28 Oct 2021	11:00 AM	NNE	0.1		
28 Oct 2021	12:00 PM	ENE	0.1		
28 Oct 2021	1:00 PM	NE	0.1		
28 Oct 2021	2:00 PM	ENE	0.3		

October 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
28 Oct 2021	3:00 PM	NNE	0.1		
28 Oct 2021	4:00 PM	NE	0.1		
28 Oct 2021	5:00 PM	Е	0.1		
28 Oct 2021	6:00 PM	ENE	0.1		
28 Oct 2021	7:00 PM	NE	0.1		
28 Oct 2021	8:00 PM	ENE	0.1		
28 Oct 2021	9:00 PM	SW	0.2		
28 Oct 2021	10:00 PM	S	0.1		
28 Oct 2021	11:00 PM	SE	0.2		
29 Oct 2021	12:00 AM	ENE	0.2		
29 Oct 2021	1:00 AM	ENE	0.2		
29 Oct 2021	2:00 AM	ENE	0.2		
29 Oct 2021	3:00 AM	NE	0.2		
29 Oct 2021	4:00 AM	NE	0.2		
29 Oct 2021	5:00 AM	ENE	0.2		
29 Oct 2021	6:00 AM	NE	0.2		
29 Oct 2021	7:00 AM	Е	0.3		
29 Oct 2021	8:00 AM	ENE	0.2		
29 Oct 2021	9:00 AM	Е	0.2		
29 Oct 2021	10:00 AM	NNE	0.2		
29 Oct 2021	11:00 AM	Е	0.2		
29 Oct 2021	12:00 PM	WSW	0.3		
29 Oct 2021	1:00 PM	NNE	0.6		
29 Oct 2021	2:00 PM	NNE	0.2		
29 Oct 2021	3:00 PM	ENE	0.3		
29 Oct 2021	4:00 PM	N	0.2		
29 Oct 2021	5:00 PM	NE	0.4		
29 Oct 2021	6:00 PM	ENE	0.2		
29 Oct 2021	7:00 PM	N	0.4		
29 Oct 2021	8:00 PM	NE	0.1		
29 Oct 2021	9:00 PM	NE	0.1		
29 Oct 2021	10:00 PM	N	0.1		
29 Oct 2021	11:00 PM	NNW	0.1		
30 Oct 2021	12:00 AM	NNE	0.1		
30 Oct 2021	1:00 AM	NE	0.1		
30 Oct 2021	2:00 AM	NNE	0.1		
30 Oct 2021	3:00 AM	ENE	0.1		
30 Oct 2021	4:00 AM	NE	0.1		
30 Oct 2021	5:00 AM	ENE	0.1		
30 Oct 2021	6:00 AM	NE	0.1		
30 Oct 2021	7:00 AM	NNE	0.1		
30 Oct 2021	8:00 AM	NE	0.1		
30 Oct 2021	9:00 AM	NNE	0.1		
30 Oct 2021	10:00 AM	E	0.2		
30 Oct 2021	11:00 AM	NE	0.2		
30 Oct 2021	12:00 PM	ENE	0.2		
30 Oct 2021	1:00 PM	E	0.1		
30 Oct 2021	2:00 PM	E	0.1		
30 Oct 2021	3:00 PM	NNE	0.1		
30 Oct 2021	4:00 PM	E	0.2		
30 Oct 2021	5:00 PM	ENE	0.1		
30 Oct 2021	6:00 PM	ENE	0.1		
30 Oct 2021	7:00 PM	ENE	0.1		
30 Oct 2021	8:00 PM	ENE	0.1		
30 Oct 2021	9:00 PM	E	0.1		
30 Oct 2021	10:00 PM	ENE	0.1		
30 Oct 2021	11:00 PM	Е	0.1		

October 2021 Wind Speed and Directions					
31 Oct 2021	12:00 AM	ESE	0.1		
31 Oct 2021	1:00 AM	NNE	0.1		
31 Oct 2021	2:00 AM	NE	0.1		
31 Oct 2021	3:00 AM	ENE	0.1		
31 Oct 2021	4:00 AM	ENE	0.1		
31 Oct 2021	5:00 AM	Е	0.1		
31 Oct 2021	6:00 AM	ESE	0.1		
31 Oct 2021	7:00 AM	NE	0.1		
31 Oct 2021	8:00 AM	SE	0.1		
31 Oct 2021	9:00 AM	NE	0.2		
31 Oct 2021	10:00 AM	NNE	0.1		
31 Oct 2021	11:00 AM	Е	0.1		
31 Oct 2021	12:00 PM	Е	0.3		
31 Oct 2021	1:00 PM	SE	0.1		
31 Oct 2021	2:00 PM	S	0.1		
31 Oct 2021	3:00 PM	SE	0.5		
31 Oct 2021	4:00 PM	ENE	0.1		
31 Oct 2021	5:00 PM	Е	0.1		
31 Oct 2021	6:00 PM	ESE	0.1		
31 Oct 2021	7:00 PM	ENE	0.1		
31 Oct 2021	8:00 PM	SSE	0.1		
31 Oct 2021	9:00 PM	ESE	0.1		
31 Oct 2021	10:00 PM	Е	0.1		
31 Oct 2021	11:00 PM	NNE	0.1		

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

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

Impact Air and Noise Monitoring Schedule (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
3-00	4-001	3-001	0-001	7-001	8-001	9-001
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
	24-1118 131					24-IIIS 13P
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
	1-hr TSP X3				1-hr TSP X3	
	Noise				1-III 15P X3	
	TOISE					
			24-hrs TSP			
17 Oct	19 Oat	19-Oct	20-Oct	21 Oct	22-Oct	23-Oct
17-Oct	18-Oct	19-001	20-Oct	21-Oct	22-Oct	23-Oct
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
		24-IIIS 13F				
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
		1.1 TOD VA				
		1-hr TSP X3 Noise				
		TVOISC				
	24-hrs TSP					24-hrs TSP
21.0.4						
31-Oct						
771 1 1 1 1 1	nged due to unforeseen cit		1 6			

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-De
					1-hr TSP X3	
				24-hrs TSP		
5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-De
				1-hr TSP X3 Noise		
			24-hrs TSP			
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-De
			1-hr TSP X3 Noise			
		24-hrs TSP				
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-De
		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

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (January 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jan
	2.7					0.7
2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan
	1-hr TSP X3				1-hr TSP X3	
	Noise				1-III 131 X3	
	- 1444					
				24-hrs TSP		
23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan
25-Jan	24-Jan	25-Jan	Zo-jan	Z/-Jan	28-Jan	29-jan
				1-hr TSP X3		
				Noise		
			241 TCD			
			24-hrs TSP			
30-Jan	31-Jan					

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

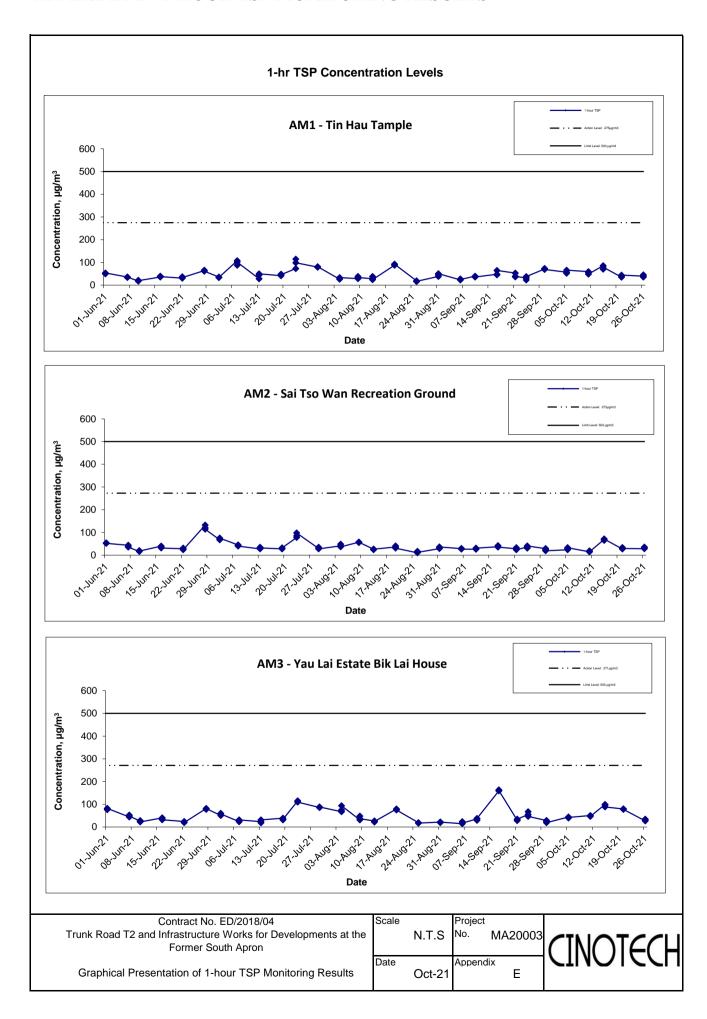
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

ocation AM1 -	Tin Hau Ten	ple	
Date	Time	Weather	Particulate Concentration (µg/m ³)
5-Oct-21	10:00	Sunny	57.2
5-Oct-21	11:00	Sunny	52.8
5-Oct-21	12:00	Sunny	66.0
11-Oct-21	13:10	Sunny	59.4
11-Oct-21	14:10	Sunny	55.0
11-Oct-21	15:10	Sunny	48.4
15-Oct-21	12:30	Rainy	85.8
15-Oct-21	13:30	Rainy	70.4
15-Oct-21	14:30	Rainy	79.2
20-Oct-21	12:15	Sunny	35.2
20-Oct-21	13:15	Sunny	39.6
20-Oct-21	14:15	Sunny	44.0
26-Oct-21	10:00	Sunny	39.9
26-Oct-21	11:00	Sunny	45.6
26-Oct-21	12:00	Sunny	36.1
		Average	54.3
		Maximum	85.8
	1	Minimum	35.2

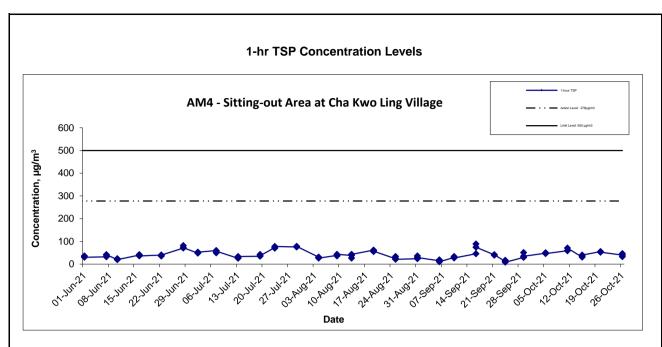
Date	Time	Weather	Particulate Concentration (µg/m ³)
5-Oct-21	9:00	Sunny	24.2
5-Oct-21	10:00	Sunny	28.6
5-Oct-21	11:00	Sunny	33.0
11-Oct-21	9:00	Cloudy	14.7
11-Oct-21	10:00	Cloudy	18.9
11-Oct-21	11:00	Cloudy	14.7
15-Oct-21	9:00	Cloudy	69.3
15-Oct-21	10:00	Cloudy	65.1
15-Oct-21	11:00	Cloudy	71.4
20-Oct-21	9:00	Sunny	27.3
20-Oct-21	10:00	Sunny	33.6
20-Oct-21	11:00	Sunny	29.4
26-Oct-21	9:00	Sunny	28.6
26-Oct-21	10:00	Sunny	33.0
26-Oct-21	11:00	Sunny	35.2
		Average	35.1
		Maximum	71.4
		Minimum	14.7

Date	Time	Weather	Particulate Concentration (µg/m 3)
5-Oct-21	14:00	Sunny	44.0
5-Oct-21	15:00	Sunny	39.6
5-Oct-21	16:00	Sunny	41.8
11-Oct-21	15:15	Sunny	50.6
11-Oct-21	16:15	Sunny	48.4
11-Oct-21	17:15	Sunny	46.2
15-Oct-21	9:15	Rainy	99.0
15-Oct-21	10:15	Rainy	96.8
15-Oct-21	11:15	Rainy	88.0
20-Oct-21	15:30	Sunny	79.2
20-Oct-21	16:30	Sunny	79.2
20-Oct-21	17:30	Sunny	77.0
26-Oct-21	13:30	Sunny	26.6
26-Oct-21	14:30	Sunny	34.2
26-Oct-21	15:30	Sunny	30.4
		Average	58.7
		Maximum	99.0
		Minimum	26.6

Location AM4 -	Sitting-out /	Area at Cha Kwo	Ling Village
Date	Time	Weather	Particulate Concentration (μg/m 3)
5-Oct-21	13:00	Sunny	48.3
5-Oct-21	14:00	Sunny	50.4
5-Oct-21	15:00	Sunny	46.2
11-Oct-21	10:05	Sunny	59.4
11-Oct-21	11:05	Sunny	59.4
11-Oct-21	12:05	Sunny	70.4
15-Oct-21	16:00	Rainy	30.8
15-Oct-21	17:00	Rainy	35.2
15-Oct-21	18:00	Rainy	39.6
20-Oct-21	9:00	Sunny	55.0
20-Oct-21	10:00	Sunny	52.8
20-Oct-21	11:00	Sunny	52.8
26-Oct-21	10:00	Sunny	39.6
26-Oct-21	11:00	Sunny	33.0
26-Oct-21	12:00	Sunny	46.2
		Average	47.9
		Maximum	70.4
		Minimum	30.8



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



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	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-Oct-21	calm	303.0	760.0	2.7476	2.9112	0.1636	9009.4	9033.4	24.0	1.22	1.22	1.22	1756.2	93.2
9-Oct-21	Cloudy	299.7	755.8	3.7350	3.8181	0.0831	9033.4	9057.4	24.0	1.22	1.22	1.22	1760.6	47.2
13-Oct-21	Rainy	299.8	755.4	3.7140	3.7788	0.0648	9057.4	9081.4	24.0	1.22	1.22	1.22	1753.1	37.0
19-Oct-21	Sunny	299.3	763.6	3.7017	3.9180	0.2163	9081.4	9105.4	24.0	1.23	1.22	1.22	1763.7	122.6
25-Oct-21	Sunny	300.9	763.2	3.6956	3.9569	0.2613	9105.4	9129.4	24.0	1.22	1.22	1.22	1758.5	148.6
30-Oct-21	Sunny	297.4	765.1	3.6780	3.8890	0.2110	9128.6	9152.6	24.0	1.23	1.23	1.23	1770.6	119.2
													Min	37.0
													Max	148.6
													Average	94.6

Location AM2 - Sai Tso Wan Recreation Ground

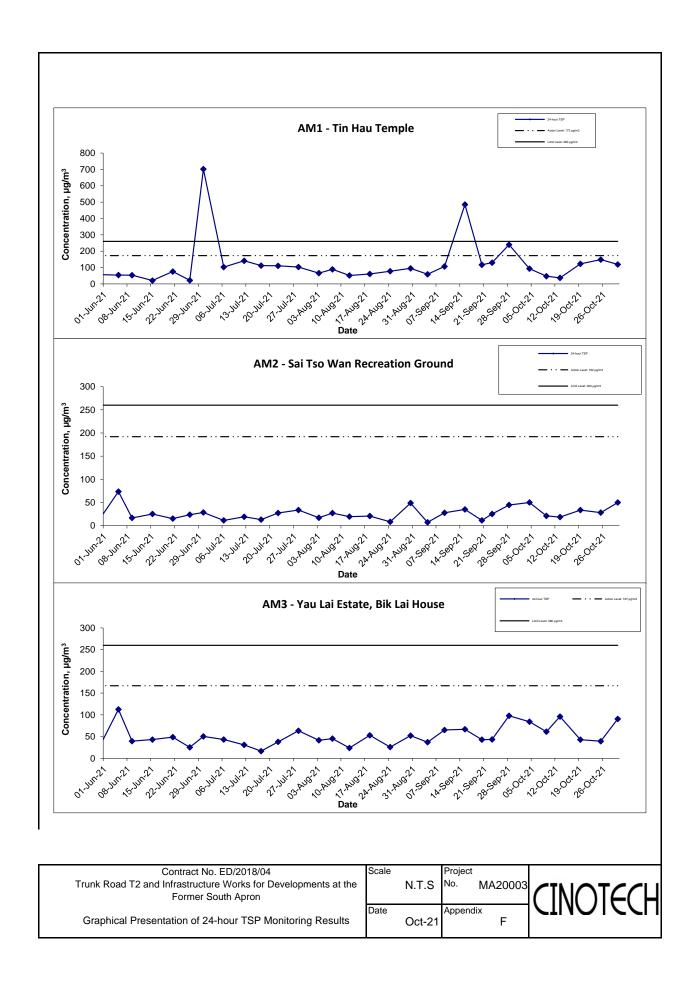
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Oct-21	calm	303.0	760.0	3.6821	3.7697	0.0876	30043.0	30067.0	24.0	1.22	1.22	1.22	1757.1	49.9
9-Oct-21	Cloudy	299.7	755.8	3.713	3.7500	0.0370	30067.0	30091.0	24.0	1.22	1.22	1.22	1761.9	21.0
13-Oct-21	Rainy	299.8	755.4	3.6616	3.6938	0.0322	30091.1	30115.1	24.0	1.22	1.22	1.22	1753.8	18.4
19-Oct-21	Sunny	299.3	763.6	3.708	3.7672	0.0592	30115.1	30139.1	24.0	1.23	1.22	1.23	1764.6	33.5
25-Oct-21	Sunny	300.9	763.2	3.6857	3.7350	0.0493	30139.1	30163.1	24.0	1.22	1.22	1.22	1759.4	28.0
30-Oct-21	Sunny	297.4	765.1	3.7297	3.8181	0.0884	30163.1	30187.1	24.0	1.23	1.23	1.23	1771.7	49.9
		•	•	-									Min	18.4
													Max	49.9
													Average	33.4

Location AM3 - Yau Lai Estate, Bik Lai House

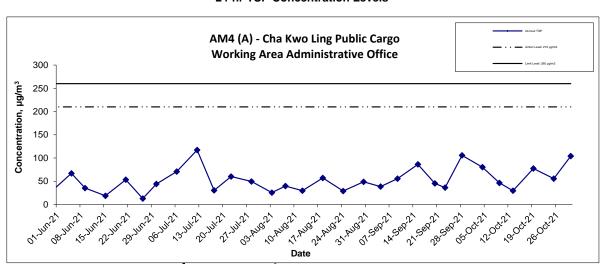
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Oct-21	calm	303.0	760.0	3.6919	3.8397	0.1478	4521.7	4545.7	24.0	1.22	1.22	1.22	1754.8	84.2
9-Oct-21	Cloudy	299.7	755.8	3.6999	3.8077	0.1078	4545.7	4569.7	24.0	1.22	1.22	1.22	1759.5	61.3
13-Oct-21	Rainy	299.8	755.4	3.7023	3.8707	0.1684	4569.7	4593.7	24.0	1.22	1.22	1.22	1753.9	96.0
19-Oct-21	Sunny	299.3	763.6	3.667	3.7427	0.0757	4601.4	4625.4	24.0	1.23	1.22	1.23	1764.8	42.9
25-Oct-21	Sunny	300.9	763.2	3.683	3.7523	0.0693	4625.4	4649.4	24.0	1.22	1.22	1.22	1759.5	39.4
30-Oct-21	Sunny	297.4	765.1	3.6744	3.8350	0.1606	4649.4	4673.4	24.0	1.23	1.23	1.23	1771.9	90.6
													Min	39.4
													Max	96.0
													Average	69.1

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	(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-Oct-21	calm	303.0	760.0	3.6743	3.8151	0.1408	14521.8	14545.8	24.0	1.22	1.22	1.22	1754.4	80.3
9-Oct-21	Cloudy	299.7	755.8	3.699	3.7807	0.0817	14545.8	14569.8	24.0	1.22	1.22	1.22	1758.9	46.4
13-Oct-21	Rainy	299.8	755.4	3.6718	3.7237	0.0519	14569.8	14593.8	24.0	1.22	1.22	1.22	1752.9	29.6
19-Oct-21	Sunny	299.3	763.6	3.6614	3.7980	0.1366	14593.8	14617.8	24.0	1.23	1.22	1.22	1763.1	77.5
25-Oct-21	Sunny	300.9	763.2	3.7343	3.8320	0.0977	14617.8	14641.8	24.0	1.22	1.22	1.22	1758.2	55.6
30-Oct-21	Sunny	297.4	765.1	3.6903	3.8745	0.1842	14641.8	14665.8	24.0	1.23	1.23	1.23	1769.8	104.1
													Min	29.6
													Max	104.1
													Average	65.6



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

CINOTECH

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

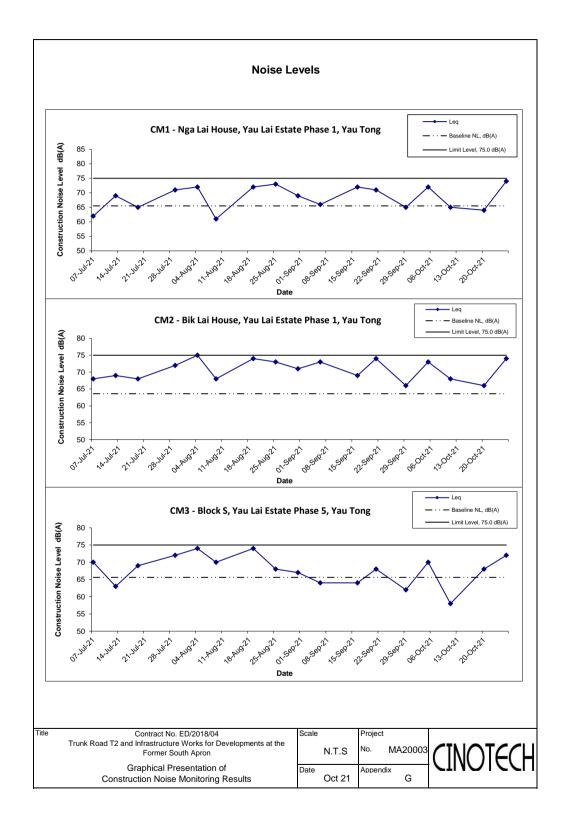
Location CM1	Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong											
					Unit:	dB (A) (30-min)						
Date	Date Time Wea		Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Date	Tillic	vvcatrici										
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
5 Oct 2021	14:30	Sunny	73.0	74.2	71.3	65.5	72					
11 Oct 2021	14:45	Sunny	68.1	69.8	66.3	65.5	65					
20 Oct 2021	16:05	Sunny	67.7	69.1	66.2	65.5	64					
26 Oct 2021	11:15	Sunny	74.8	76.6	73.0	65.5	74					

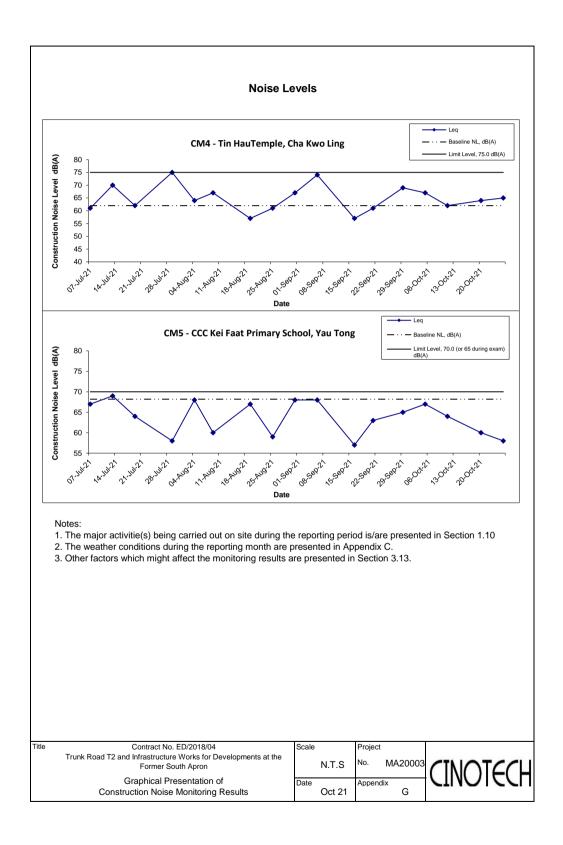
Location CM2	Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong											
				Unit: dB (A) (30-min)								
Date	Date Time		Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Date	Time	Weather		_		_	_					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}					
5 Oct 2021	14:00	Sunny	73.2	74.8	71.2	63.6	73					
11 Oct 2021	15:15	Sunny	69.2	70.6	67.6	63.6	68					
20 Oct 2021	15:30	Sunny	67.7	68.7	66.5	63.6	66					
26 Oct 2021	13:00	Sunny	74.0	76.4	70.1	63.6	74					

Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong										
				Unit: dB (A) (30-min)						
Date	Date Time		Measured Noise Level			Baseline Level	Construction Noise Level			
Date										
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
5 Oct 2021	15:00	Sunny	71.2	73.5	70.9	65.6	70			
11 Oct 2021	16:00	Sunny	66.3	67.6	65.0	65.6	58			
20 Oct 2021	16:45	Sunny	69.8	72.3	60.9	65.6	68			
26 Oct 2021	13:30	Sunny	73.0	74.8	70.7	65.6	72			

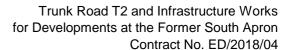
Location CM4 - Tin Hau Temple, Cha Kwo Ling								
			Unit: dB (A) (30-min)					
Date Time		Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	11110	11341101						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
5 Oct 2021	13:00	Sunny	68.5	70.9	60.1	62.0	67	
11 Oct 2021	13:00	Sunny	62.0	64.0	59.3	62.0	62 Measured ≦ Baseline	
20 Oct 2021	12:15	Sunny	66.0	68.0	63.2	62.0	64	
26 Oct 2021	14:00	Sunny	67.1	69.4	60.0	62.0	65	

Location CM5 - CCC Kei Faat Primary School, Yau Tong									
			Unit: dB (A) (30-min)						
Date	Date Time		Measured Noise Level			Baseline Level	Construction Noise Level		
Date		Weather							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
5 Oct 2021	13:45	Sunny	67.4	70.1	63.2	68.2	67 Measured ≦ Baseline		
11 Oct 2021	14:10	Sunny	69.5	71.5	66.4	68.2	64		
20 Oct 2021	13:00	Sunny	68.8	70.9	64.8	68.2	60		
26 Oct 2021	14:30	Sunny	68.6	71.2	65.4	68.2	58		





APPENDIX H
WASTE GENERATION IN THE
REPORTING MONTH





Name of Department: CEDD

Monthly Summary Waste Flow Table for 2021 (CKL)

	Actual Quantities of Inert C&D Materials Generated Monthly							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	0.026	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0.000	0.016
November			_	_	_	_	_	_	_		_
December											
Total	46.940	46.583	0.000	46.582	0.358	0.000	0.000	0.000	0.000	5.800	0.096

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	211007
Date	07 October 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	
211007-R1	• NRMM labels of PME are missing.	C21
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	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.:210930). The follow-up action of item 210930-R1 needed to be reviewed on next audit session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	07 October 2021
Checked by	Karina Chan	Zalle	07 October 2021

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

Checklist Reference Number	211015
Date	15 October 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.:211007), all items has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	15 October 2021
Checked by	Karina Chan	Zalle	15 October 2021

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

Checklist Reference Number	211022
Date	22 October 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.:211015), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	22 October 2021
Checked by	Karina Chan	Zeller	22 October 2021

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

Checklist Reference Number	211026
Date	26 October 2021 (Tuesday)
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.:211022), no major environmental deficiency was	
	• Follow up on the previous session (Ref No.:211022), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	26 October 2021
Checked by	Karina Chan	Zalle	26 October 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						
S3.8.1	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
/	Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low 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 (Constr	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)			L L		
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
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
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site.	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	Other good site practices should be undertaken during filling operations include: • all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; • floating single silt curtain shall be employed for all marine works; • all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; • adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; • loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; • any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; • construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and • before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
\$5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: - Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) - The temporary barrier fully enclosing the dredging and underwater filling works 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
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS

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?
\$5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.8 S5.8.8	use of sediment traps; and adequate maintenance of drainage systems to prevent flooding and overflow.	runon and rand-based construction				
\$5.8.9	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 AI 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
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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 reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater 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
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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?
S5.8.32	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 nn-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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
S5.8.35	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
\$5.8.39	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
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	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
\$5.8.43	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
\$5.8.44	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
\$5.8.45	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
\$5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; • chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and • storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent wegetation 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	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	Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	Compensation for Vegetation Loss • Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	wqo
Waste Management ((Construction Phase)					
\$8.6.3	Good Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$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 carefully to minimize amount of waste generated 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.	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?
S8.6.6	Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$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 should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. 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.	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?
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 excaveted 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 method is a me	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 H	eritage (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	l 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)					
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below:	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment
511.5.9	Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	rioteca the workers from fandilli gas hazards		Consultation Zone	23	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	Safety Measures For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. Where there are any temporary site offices, or any other building	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?
\$11.5.10 \$11.5.25	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, and that appropriate monitoring procedures are in place to preven thazards 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.					
S11.5.26 - S11.5.31	 ■ 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 Im 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 	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	automated monitoring system. 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	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	NRMM labels of PME are missing.	7 Oct 2021	✓
Construction	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 Im	pact			
Fisheries Impa	act			
Waste Manage	ement			
Landscape and	d Visual Impact			
Landfill Gas I	Hazards			

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

TAN MANIME		ACT	TION	
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: October 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: October 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	Portion T1	6 March 2021	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 considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when 	Closed

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: October 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: October 2021

Log Ref. Location	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: October 2021

(A) Exceedance Report for Air Quality

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

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

(B) Exceedance Report for Construction Noise

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).

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

AIP - 4th Review by SO		0			29-May-21 A	29 Jun 21 A	AIP - 4th Review by \$0								
AIP - Further information required by SO	0	0			30 Jun 21 A	07-Sep-21A		-	AIP - Further information required by SO	n required by SO					
AIP - 5th Sub		0				07-Sep-21A			◆ A/P - 5th Sub						
AIP - 5th Review by SO		0			08-Sep-21 A	05-Oct-21 A				AIP - 5th Review by \$O					
AIP - SO Consent for DDA Submission		0		16-Feb-21		05-Oct-21 A		 		AIP - SO Consent for DDA Submission	omission				
DDA Roadworks and Street Furniture	rniture	124	16-Feb-21	19-Jul-21	06-Oct-21 A	05-Mar-22	▼ DDA Road	DDA Roadworks and Street Furniture	9						
DDA - Draft - Preparation by Designer		98	16-Feb-21	29-Mar-21	06-0ct-21 A	17-Nov-21					DDA - Draft - Pre	фDA - фraft - Preparation by Designer	gner		/
DDA - Draft - Final Review and prepare for 1st Sub	e for 1st Sub	18	30-Mar-21	23 Apr 21	18-Nov-21	08-Dec-21						DDA Draft	inal Review and	DDA - Draft - Final Review and prepare for 1st Sub	
DDA-1st Sub		0		23-Apr-21		08-Dec-21						♦ DDA 1st Sub			
DDA - Review by SO		78	24-Apr-21	21-May-21	09-Dec-21	05-Jan-22							YGG .	DDA - Review by SO	
DDA - Review by IP / DC		78	24 Apr 21	21-May-21	09-Dec-21	05-Jan-22	T					-	YGG.	DDA - Review by IP // DC	
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Appendix A

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ACABAS- Footbridge FB-02

CTIA Kai Tak Area - 6th Review CTIA Kai Tak Area - Approval

CTIA Kai Tak Area - 6th Sub

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01-Apr-21 29 Apr 21

05-Feb-22 05-Mar-22 05-Mar-22 24 Mar 22

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15 Mar 22

15 Jan 22

10-Nov-21

13 Sep 21

AIP Roadworks and Street Furniture DDA - Draft - Preparation by Designer

15-Mar-22

15-Jan-22

10-Nov-21

24 Mar 22

25-Jan-22

13-Jul-22

DDA - Draft - Preparation by Designer

DAP - WVB

ACABAS- Footbridge FB-03

DDA - Review by IP / DC DDA - Review by SO DDA - 1st Sub

19-Aug-21 A

CTIA Kai Tak Area - Resubmission

7th Review Approval

17-May-21 A 07-Jun-21 A

17-May-21 A 07-Jun-21 A

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DESIGN SUBMISSION & APPROVAL

Activity Name

540 03-Oct-20 01-Aug-22 28-Oct-20 A 02-Apr-22

03-May-21 A 06-Sep-21 A

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Construction Traffic Impact Assessment - Kai Tak Area

Design Memorandum - 7th Review Design Memorandum - Approval

Design Memorandum

CTIA Kai Tak Area - Resubmission

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◆ CTIA Kai Tak Area - 6th Sub

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DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	04-Dec-20	29-May-21 A	08-Sep-21 A			DDA - Draft - Final Review and prepare for 1st Sub	prepare for 1st Sub				
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AIP - 3rd Review by SO

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DDA - Draft - Preparation by Designer DDA Landscape Design

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DDA - SO Consent for Construction

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DDA Structural Health Monitoring System (SHMS)

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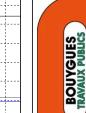
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Three Months Rolling Programme (Oct-21)

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DDA - Review by SO		78	10-Feb-21	09-Mar-21	14-May-21 A	03-Jun-21 A					 	
DDA - Review by IP / DC		78	10-Feb-21	09-Mar-21	14-May-21 A	05-Nov-21		DDA + Review by IP / DC				
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BOUYGUES TRAVAUX PUBLICS

ED/2018/04 Trunk Road T2 and Infrastructure Works

for Developments at South Apron

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Page 4 of 26 Data Date: 30-Oct-21

Three Months Rolling Programme (Oct-21)

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▼ 'DDA Road L10 (S) - Roadworks and Street Furniture

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[STE] AIP Kai Hing Road / Lam Chak Street Modification

DDA - SO Consent for Construction

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STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign

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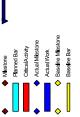
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ED/2018/04 Irunk Road 12 and Intrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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STEJ DDA Road L10 (N) - Roadworks and Street Furniture

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[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Ma

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ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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DDA - C&CALS Temporary Structure (SG Scheme)	111	17-Nov-20	01-Apr-21	30-Nov-20 A	02-Sep-21 A			 											
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DDA SUS - Internal Structure

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DDA - Draft - Final Review and prepare for 1st Sub

DDA - Draft - Preparation by Designer

AIP - SO Consent for DDA Submission

AIP - 2nd Review by SO

AIP - 2nd Sub

DDA SUS - Internal Structure

15 Jun 21

25-Mar-22

26-Feb-22

13-Jul-21

16-Jun-21

25 Mar 22

26-Feb-22

13-Jul-21

88

C&C TUNNEL/LAUNCHING SHAFT [C&C/LS]

DDA - Review by IP / DC

DDA - Review by SO

DDA - 1st Sub

03-May-21 30-Nov-20 A 09-Dec-21

AP 2nd Review by SO

AIP - Update & prepare for 2nd Sub

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AIP - Review by IP / DC

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DDA - Further information required by SO

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♦ DDA - 2nd Sub

SUPPORTING UNDERGROUND STRUCTURE ISUS

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SUPPORTING UNDERGROUND STRUCTURE [SUS]

DDA - SO Consent for Construction

DDA - 2nd Review by SO

DDA - 2nd Sub

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AIP - Draft - Final Review and prepare for 1st Sub

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AIP SUS - Internal Structure

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AIP - Update & prepare for 2nd Sub

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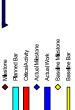
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ration by Designer

AIP - Review by SO

Page 7 of 26 Data Date: 30-Oct-21



ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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Approved

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Revision

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Page 8 of 26	♦ Mestone	Sur	Summary											Date	+	Revision	Checked	+	Approved
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 DDA - Draft- Final Review and prepare for

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DDA - Draft - Final Review and prepare for 1st Sub

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SUB-SEA TBM TUNNEL

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DDA - Special Segment for CP construction

DDA - SO Consent for Construction SUB-SEA TBM TUNNEL

DDA - 2nd Review by SO

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22-Nov-20 22-Nov-20 21 Dec 20

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DDA - LS Thrust Frame / Blocks for TBM Launching

DDA - SO Consent for Construction

DDA - 2nd Review by SO

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DDA - Further information required by SO

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DDA - 2nd Review by SD

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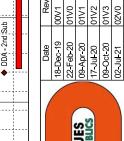
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Critical Actual Misstone

Actual Work

ED/2018/04 Irunk Road 12 and Intrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron





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■ FER - 3rd Review by SO

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FER - Further information required by SO

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Engineering Report (SG Scheme)

30-Mar-21 A 03-Aug-21 A

30-Mar-21 A 21-Dec-21

18-Jun-21 24-Feb-21

28-Jan-21 28 Jan 21

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FER - Fire Engineering Report (SG Scheme)

AIP - SO Consent for Construction

AIP - 4th Review by SO

AIP - 4th Sub

FER - Further information required by SO

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30-Apr-21 A 03-Aug-21 A

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DDA 2nd Review by SO

(SG Scheme)

A - Sub-sea Tunnel - Internal Structure (SG & Parapet)

DDA - Réview by IP / DC

12-Jul-21 A

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DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (

FER - SO Consent for Construction

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20-Mar-21 A 03-Aug-21 A

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AIP - Tunnel (Sub-sea & CKL Tunnel) - Spaceproofing (SG \$

DDA - SO Consent for Construction

AIP - Further information required by SO

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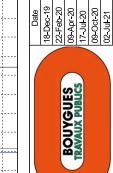
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◆ AIP - 4th Sub

Page 9 of 26 Data Date: 30-Oct-21

Actual Miestone OrticalActivity Planned Bar Mestone

ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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DDA - Cross Passage - Internal Structure		36	08-Mar-21	22 Apr 21	21-Feb-22	02-Apr-22											
DDA - Draft - Preparation by Designer		98	08-Mar-21	22 Apr 21	21-Feb-22	02-Apr-22											
DDA - Cross Passage - Traditional - DCRA		36	08-Mar-21	22 Apr 21	21-Feb-22	02-Apr-22											
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EAST VENTILATION BUILDING [EVB]

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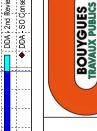
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TUNNEL E&M INSTALLATION & COMMISSIONING

SG Scheme

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DDA - E&M Tunnel Ventilation Design (SG Scheme) **FUNNEL E&M INSTALLATION & COMMISSIONING**

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DDA - EVB - Permanent Structure (SG Scheme Basement)

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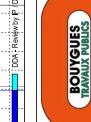
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Critical Activity

Actual Misstone

ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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Page 13 of 26	Mestone Panned Bar		Summany	L		ŀ	((-	-		•		-					18-Dec-19	00/1	>	novon -	200	
Data Date: 30-Oct-21	Ortical Activity			EU/	ED/2018/04 Irunk Road 12 and Intrastructure Works	4 	3 2 3 3	30 - Z	and In	rastr	nctri	ė,	orks					22-Feb-20	04/0	i di	SPa/Lo	MXII	

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DDA - 2nd Review by SO

◆ DDA - SO Consent for Construction

23-Jun-21 A SO Consent for DDA Submission

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AIP CLP Submission - Power Supply to EVB & WVB

DDA - SO Consent for Construction

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DDA - Draft - Final Review and prepare for 1st Sub

DDA - E&M Electrical Installation

DDA - Draft - Preparation by Designer

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SO Consent for DDA Submission

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rical Installation

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DDA - Further information required by SO

Activity Name

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Ortical Activity

Actual Misstone

ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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]	18 - De	22-Feb-20	09-Apr-20	17-Jul-20
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09-Oct-20 02-Jul-21

Entrance- Backfill	12	19-Jul-21	31-Jul-21	04-Dec-21	17 Dec 21	1			Entranc	Entrance Backfill		
Junction	108	19-Mar-21	31-Jul-21	27 Feb-21 A	28 Dec 21		Jundian					
Junction - ELS (Sheet pile)	24	19-Mar-21	20-Apr-21	27-Feb-21 A	21-Jul-21 A	Jung	Junction - ELS (Sheet pile)			 		
Junction - Excavation	24	21 Apr -21	20-May-21	26-Jul-21 A	16-Oct-21 A			Junction - Excavation				
Junction - Structure	84	21-May-21	17-Jul-21	18-Oct-21 A	11 Dec-21				Junction Structure	ncture	 	
Junction - Backfill	12	19-JuF21	31-Jul-21	13-Dec-21	28-Dec-21				1	Unction - Backfill		
Typical	259	05-Jan-21	18-Nov-21	27-Jan-21 A	22-Apr-22			Typical				
Typical Section - Structure	72	05-Jan-21	09-Apr-21	27 Jan 21 A	09-Jun-21 A	structure						
Typical Section - Utilities & E&M	25	18-Sep-21	18-Nov-21	19-Feb-22	22-Apr-22							
Road & Drain	200	18-Feb-21	21-Oct-21	24-May-21 A	16-Mar-22			Road & Drain				
Stage 2	64	18-Feb-21	20 Apr 21	24-May-21 A	07-Aug-21 A							
S20 Stage 2 (Watermain)	2	18-Feb-21	23-Feb-21	24-May-21 A	17-Jul-21 A	S20 Stag	S20 Stage 2 (Watermain)					
S20 Stage 2 (U channel, Catchpit, Gully)	22	24-Feb-21	20-Mar-21	19-Jul-21 A	24 Jul-21 A	Š	S20 Stage 2 (U channel, Catchpit, Gully)		†			
S20 Stage 2 (Roadworks)	22	22-Mar-21	20 Apr 21	26-Jul-21 A	07-Aug-21 A		S20 Stage;2 (Roadworks)					
Stage 3	151	21 Apr -21	21 Oct 21	09-Aug-21 A	16-Mar-22			Stage				
S20 Stage 3 ELS	88	21-Apr-21	02-Jun-21	09-Aug-21 A	24-Aug-21 A		S20 Stage 3 ELS					
S20 Stage 3 (Sewerage)	32	15-May-21	23 Jun-21	23-Aug-21 A	04-Sep-21 A	1	S20 Stage;3 (Sewerage)		· · · · · · · · · · · · · · · · · · ·			
S20 Stage 3 (Drainage)	æ	05-Jun-21	19-Jul-21	28-Oct-21 A	08-Dec-21				\$20 Stage 3 (Drainage)	rainage)		
S20 Stage 3 (Watermain)	4	20-JuF21	23-Jul-21	09-Dec-21	13 Dec 21				S20 Stage	S20 Stage 3 (Watermain)		
S20 Stage 3 (UU Diversion)	12	24-JuF21	06-Aug-21	14-Dec-21	29-Dec-21					S20 Stage 3 (UU Diversion)	Diversion)	
S20 Stage 3 (U channel, Catchpit, Gully)	22	07-Aug-21	01-Sep-21	30-Dec-21	25 Jan 22						S20 Stage (S20 Stage 3 (U channel, Cat
S20 Stage 3 (Roadworks)	22	02 Sep 21	28-Sep-21	26 Jan 22	23-Feb-22							<i>io</i> -
Utilities undertaker (by others)	98	07-Sep-21	21-Oct-21	31-Jan-22	16-Mar-22				T			
AMAWBC	뫙	16-Aug-21	06-Dec-21	04-Nov-21	30-Mar-22		>		▼ AMAWB¢			
Drainage & Sewerage	06	20-Aug-21	06-Dec-21	09-Dec-21	30-Mar-22				▼ Drainage & Sewerage	rage		
Section B	9	20-Aug-21	07-Oct-21	09-Dec-21	27-Jan-22		Section B	В				
Page 14 of 26	Summany	ummany							Date	vision	Checked	Approved
Oct-21			, С Ц	7/2/0	1 T	T Pood 1	ED/2018/04 Trunk Boad T2 and Infrastructure Works		18-Dec-19		WYu	
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Actual Misstone Actual Misstone				<u> </u>	or Dev	for Developments	s at South Apron	BOUTGUES TRAVALIX BIRLICE	09-Apr-20			WYu
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▼ DDA E&M CMCS

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06-Nov-21 20-Nov-21 20-Nov-21 18-Dec-21 26 Dec 21 25 Jan 22

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Start

Dur 02V0 Start 02V0 Finish

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Road \$20 3

Entrance - ELS (Sheet pile)

Entrance

03-Jun-21 13-Sep-21 A 22-Oct-21 A

13-May-21 04 Jun 21

23-Oct-21 A 03-Dec-21

17-Jul-21

24 Jun 21 A 11 Sep 21 A

12-May-21

Entrance - ELS (Sheet pile)

Entrance

Entrance - Excavation

Entrance - Structure

25-Jan-22

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13-Oct-21

09-Sep-21 22-Dec-20

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SOUTH APRON EXTERNAL WORKS

Road S20

DDA - 2nd Review by SO

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13-Nov-22

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Actual Miestone

Three Months Rolling Programme (Oct-21)



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09-Oct-20 02-Jul-21

Section 1 - Bay 3	88	13-May-21	01-Sep-21	26-Jul-21 A	08 Jan 22		Section 1 - Bay 3			
DCS - Bay 3 Sheet pile (1870m2)	8	13-May-21	23-Jun-21	26-Jul-21 A	28 Oct 21 A			DCS -Bay 3,Sheet pile (1870m2)		
DCS - Bay 3 Excavation (2620m3)	18	24 Jun 21	15-Jul-21	29-Oct-21 A	18-Nov-21			DCS - Bay 3 Excavation (2620m3)		
DCS - Bay 3 Pipe Installation - Set up (DN900 30m)	12	16-JuF21	29-Jul-21	19-Nov-21	02 Dec-21			DCS - Bay 3 Pipe Install ation - Set up (DN900 30m)	n - Set up (DN900 30m)	
DCS - Bay 3 Pipe Installation - Pipe welding	6	30-Jul-21	09-Aug-21	03-Dec-21	13-Dec-21			DÇS-Bay3 Pipe In	D¢S - Bay 3 Pipe Installation - Pipe welding	
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	14-Dec-21	24-Dec-21			DCC	DCS - Bay 3 Pipe Installation - Jointing (15nos)	
DCS - Bay 3 Backfill	10	21-Aug-21	01-Sep-21	28-Dec-21	08-Jan-22				DCS - Bay;3 Backfill	÷
Section 2 - Bay 4	88	04-May-21	17-Aug-21	20 Apr 21 A	03-Nov-21		▼ Section 2 - Bay 4			
DCS - Bay 4 Sheet pile (990m2)	18	04-May-21	25-May-21	20-Apr-21 A	05-Jun-21 A	e (990m²)				
DCS - Bay 4 Excavation (1170m3)	12	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A	2	OCS - Bay,4 Excavation (1170m3)			÷
DCS - Bay 4 Pipe Installation - Set up (DN600 66m)	4	09-Jun-21	25-Jun-21	06-Sep-21 A	11-Sep-21 A		DCS - Bay/4 Pipe Installation - Set up (DN600 66m)	Setup (DN600 66m)		†
DCS - Bay 4 Pipe Installation - Pipe welding	15	26-Jun-21	14-Jul-21	13-Sep-21 A	02-Oct-21 A			DCS - Bay,4 Pipe Installation - Pipe welding		
DCS - Bay 4 Pipe Installation - Jointing (33nos)	17	15-JuF21	03-Aug-21	04-Oct-21 A	16-Oct-21 A			DCS-Bay/4 Pipe Installation - Jointing (33nos)		·
DCS - Bay 4 Backfill	12	04-Aug-21	17-Aug-21	18-Oct-21 A	03-Nov-21			DCS - Bay 4 Backfill		ļ
Section 2 - Bay 5	103	22-Dec-20	03-May-21	10-Apr-21 A	24-Dec-21	1				·
DCS - Bay 5 Sheet pile (1510m2)	30	22-Dec-20	28-Jan-21	10-Apr-21 A	31-Jul-21 A		DCS-Bay5 Sheet pile (1510m2)			<u> </u>
DCS - Bay 5 Excavation (1516m3)	82	29-Jan-21	22-Feb-21	16-Aug-21 A	27-Sep-21 A		DÇS-Bay5E	D¢S - Bay 5 Excavation (15 l6m3)		
DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	41	23-Feb-21	10-Mar-21	16-Oct-21 A	06-Nov-21			DCS - Bay,5 Pipe Installation - Set up (DN600 66th)		}
DCS - Bay 5 Pipe Installation - Pipe welding	4	11-Mar-21	26-Mar-21	08-Nov-21	23-Nov-21			DCS - Bay 5 Pipe Installation - Pipe welding	welding	
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	24-Nov-21	10-Dec-21			DCS - Bay 5 Pipe Insta	DCS - Bay 5 Pipe Installation - Jointing (30nos)	
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	11-Dec-21	24 Dec-21			DCS	DCS - Bay 5 Backfill	ļ
Section 2 - S20	100	21-Apr-21	19-Aug-21	09-Aug-21 A	08-Dec-21		Section 2 - \$20			
DCS - S20 section site clearance	82	21-Apr-21	25-May-21	09-Aug-21 A	18-Aug-21 A		DCS - \$20 section site clearance			
DCS - S20 Sheet pile (912m2)	18	26-May-21	16-Jun-21	21 Aug-21 A	22-Sep-21 A		фсs \$20 Sheet pile (912m2)	e (912m2)		
Page 15 of 26		Summary						Date Rev	evision	æ
Oct-21			Ē	2018/0	4 Trur	k Road T2	FD/2018/04 Trunk Road T2 and Infrastructure Works		WYu	
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Actual Work					or Dev	ior Developments	at South Apron	TRAVAIX PURICS	SFallo	Ī

Section

Outfall 1 Precast Installation & Alignment Outfall 1 Backfilling & reinstater

Outfall 1 Excavation & Blinding

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[STE] District Cooling System for AMAWIBC Section 6B

DCS - Bay 1 Pipe Installation - Jointing (12nos)

DCS - Bay 1 Pipe Installation - Pipe welding DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)

26-Jul-21 A 18-Aug-21 A

19-Aug-21 A 19-Oct-21 A 21-0ct-21 A 27-0ct-21 A 19-May-21 A 30-Aug-21 A 30-Jun-21 19-May-21 A 17-Jul-21 A 19-Jul-21 A 24-Jul-21 A 19-Jul-21 A 31-Jul-21 A

22 Mar 21 A 27 Oct 21 A 22 Mar-21 A 09-Aug-21 A

> 05-Mar-21 18-Mar-21

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DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)

Section 1 - Bay 1

DCS - Bay 1 Pipe Installation - Jointing (12nos)

DCS - Bay 1 Backfill Section 1 - Bay 2

DCS - Bay 1 Pipe Installation - Pipe welding

22 Mar 21 A

16-Nov-21 13 Apr 21

22 Dec-20 20-Feb-21 20 Feb 21

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[STE] District Cooling System for AMAWBC Section 6B

Outfall 1 Precast Installation & Alignment Outfall 1 Backfilling & reinstatement

Outfall 1 Excavation & Blinding

04-Nov-21 25-Nov-21 16-Dec-21

04-Sep-21

16-Aug-21 06-Sep-21 28-Sep-21

27 Sep 21

07-Oct-21

04-Nov-21

16-Aug-21

18-Feb-22

□ DCS - Bay 2 Pipe Installation - Jointing (27 nos)

DCS - Bay 2 Pipe Installation - Set up (DN900 60m) DCS - Bay 2 Pipe Installation - Pipe welding

▼ Section 1 - Bay 2

DCS Bay 2 Backfill

10-Aug-21 A 30-Aug-21 A

14-Aug-21

07 Aug 21

06-Aug-21

17-Jul 21

16-Jul-21

14-Aug-21

15 Jun 21

15-Jun-21 02-Jul-21

4

DCS - Bay 2 Pipe Installation - Set up (DN900 60m)

DCS - Bay 2 Pipe Installation - Jointing (27nos)

DCS - Bay 2 Backfill

DCS - Bay 2 Pipe Installation - Pipe welding

13.Apr.21

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DCS - Bay 1 Backfill

Section B - Sewerage

Section B - Drainage

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Section B - ELS & Excavation

Activity Name

Section B - Sewerage Section B - Drainage

Section D

Finish

Start 09-Dec-21

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27-Jan-22 30-Mar-22 17 Feb 22 30-Mar-22 24-Dec-21 24 Nov 21 15 Dec 21 24 Dec-21 20-Apr-22

28-Jan-22

26 Oct 21 06-Dec-21 07-Oct-21

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Section D - ELS & Excavation

Section D - Drainage

Outfall 1

27-Oct-21

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06-Dec-21

08-Oct-21

22 15

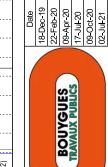
24 Sep 21

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Actual Misstone
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for Developments at South Apron

Three Months Rolling Programme (Oct-21)



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SPa/LLo SPa/LLo SPa/LLo

01V2 01V3 02V0

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Branch Drainage within Portion H1	72	03-Jan-22	30-Mar-22	03-Jan-22	30-Mar-22										
Foot Bridge FB-02	175	03-May-21	29-Nov-21	26-Mar-21 A	14-Mar-22						<u>A</u>	Foot Bridge FB-02			
DSD KBSIS - Interface	117	11-May-21	28-Sep-21	12-May-21 A	13 Jan 22				DSD KBSIS - Interface	ıfaçe					
Existing Footbridge Disable Ramp - Demolition	24	11-May-21	08-Jun-21	12-May-21 A	08-Jun-21 A	Disable Ramp - Demolition	- Demolition								
FB-02 H-pile - P1/P2/P3	51	24-Jun-21	23-Aug-21	04-Oct-21 A	06-Dec-21				-			■ FB-02 H-pile - P1/P2/P3	P1/P2/P3		
FB-02 H-pile - LC&D	8	24-Aug-21	28-Sep-21	07-Dec-21	13-Jan-22							-		FB-02 H-pile- LC&D	Ş
Road L10/ DPR	175	03-May-21	29-Nov-21	26-Mar-21 A	14 Mar-22						2	Road L10/ DPR			
FB-02 H-pile (1 rig) - P4/P5/D	72	03-May-21	28-Jul-21	26-Mar-21 A	13-Sep-21 A			FB-02 H-bile (1	(1 rig) P4/P5/D						
FB-02 H-pile (1 rig) - LA&B	FS.	29-Jul-21	02-Oct-21	14-Sep-21 A	30-Sep-21 A				FB 02 H pile	FB-02 H-pite (1 rig) - LA&B					
FB-02 - Road L10 - H-pile Installation	84	06-Aug-21	02-Oct-21	02-Oct-21 A	27-Nov-21						B 0	B-02 - Road L10 - H-pile Installation	le Installation		
FB-02 Pile load test No.1 & 2	84	04-Oct-21	29-Nov-21	14-Jan-22	14-Mar-22				-		- [] -				
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	ا 484	27-Feb-21	17 Oct 22	03-May-21 A	13-Nov-22		1								
EMSD Temporary Replacement of Traffic Signal	92	18-May-21	08-Jun-21	20-May-21 A	08 Jun 21 A	Replacement of Traffic Signal	Traffic Signal					; ; ; ; ; ; ; ; ; ; ;		1)))))))))
EMSD preparation for Stage 2 change over	\$	18-May-21	08-Jun-21	20-May-21 A	08-Jun-21 A	for Stage 2 change over	nge over								
Stage 2 change over to oil drum traffic signal	0		08-Jun-21		08-Jun-21 A	er to oil drum traffic signal	affic signal								
Stage 1 (KT Fire Station Footpath/ CYS northbound)	11	03-May-21	11-Sep-21	03-May-21 A	30-Oct-21 A			Stage 1 (Kil Fin	e Station Footpatl	Stage 1 (KT Fire Station Footpath/ CYS northbound)				1	
Stage 1A (KT Fire Station Footpath)	98	03-May-21	21-Jul-21	03-May-21 A	21-Aug-21 A		Stage 1A (KT Fire Station Footpath	Station Footpath)			†				
Towngas UU diversion	48	03-May-21	24-May-21	03-May-21 A	03-Jun-21 A		1							1	
WSD diveresion	9	25-May-21	31-May-21	12 Jun 21 A	17 Jun 21 A	ealon									
Telecom UU diversion Stage 2	12	01 Jun 21	15 Jun 21	19-Jun-21 A	21-Jul-21 A		Felecom UU diversion Stage 2	ion Stage 2							
Installation of gully and gully pipe	12	08-Jun-21	22 Jun 21	24 Jun-21 A	09-Aug-21 A		1	installation of gully and gully pipe							
Reinstatement of footpath & carriageway	24	23-Jun-21	21-Jul-21	07-Jul-21 A	21-Aug-21 A			Reinstatement of footpath & carriageway	eway						
Installation of ducting for PL, ATC and E&M	9	01-Jun-21	07 Jun 21	05-Aug-21 A	11-Aug-21 A			Installation of ducting for PL, ATC and E&M							
Stage 1B (CYS northbound Lane 2)	15	22-Jul-21	07-Aug-21	25-Aug-21 A	15-Sep-21 A			Stage 1B (CYS northbound Lane 2)							
Installation of ducting for PL, ATC and E&M	က	22-JuF21	24-Jul-21	25-Aug-21 A	01-Sep-21 A		70	Installation of ducting for PL, ATC and E&M	PL, ATC and E&I	N					
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				_	5		เราเร สเ 🔾			TRAVAUX PU	BLICS	17-Jul-20	01/2	SPa/LLo	MYu
C Baseine Mestone Baseine Bar				Three	Mont	Three Months Bolling		Programme (Oct-21)				09-Oct-20	01V3	SPa/LLo	MYu
					NIOIN ,		- 1	anning (00: 2 i)				02-Jul-21	0200	SPa/LLo	WYu

DCS

stem - Remaining Section 78

[STE] District Cooling Sy

DCS (Section 3) DCS (L10(S))

DCS CUE - Pipe welding

DCS - CUE - Set up (DN600 90m)

DCS - \$20 Pipe Installation - Jointing (27 nos)

2-CUE

21 Jan 22

30-Dec-21

13-Dec-21 31-Dec-21 22-Jan-22 19-Feb-22 19-Feb-22

03-Aug-21 24-Aug-21 17-Sep-21 16-Nov-21

19-Jul-21

04-Aug-21 25-Aug-21 18 Sep 21 18 Sep 21

18-Feb-22 20 Apr 22 20-Apr-22 02-Mar 22 02 Mar 22 02 Mar 22 02 Mar 22

18-May-21 A

19-Apr-21

190 8

STEJ District Cooling System - Remaining Section 7B

DCS (Section 3)

DCS (L10(S))

Overal DCS - Testing & Commissioning

Testing & Commissioning DCS - CUE - Jointing (42nos) DCS - CUE - Pipe welding

21-Oct-21 21 Oct 21 21 Oct 21

16-Nov-21 03-Dec-21 03-Dec-21

14-Jan-22 14-Jan-22

DCS S20 Pipe Installation - Pipe welding

DCS - S20 Pipe Installation - Set up (DN600 60m

Novembe

October

2021

September

16-Oct-21 A

23-Sep-21 A 18-Oct-21 A

30 Jun 21

17-Jul-21 02-Aug-21

02-Jul-21 19-Jul-21

4 5

DCS - S20 Excavation (1026m3)
DCS - S20 Pipe Installation - Set up (DN600 60m)

Activity Name

DCS - S20 Pipe Installation - Jointing (27nos)

DCS - CUE - Set up (DN600 90m)

Section 2 - CUE

DCS - S20 Pipe Installation - Pipe welding

Finish

Start

Dur 02V0 Start 02V0 Finish

22-Nov-21 08 Dec 21 18-Feb-22

08-Nov-21

23-Nov-21 13-Dec-21

19-Aug-21

04-Aug-21

17-Sep-21

19-Jul-21

♦ Coordinated Access to Portion H1 (NAH Site B)

DCS - DPR Pipe Installation - Jointing (6nos)

DCS - DPR Pipe Installation - Pipe welding (6nos)

PR Pipe Installation - Delivery & set up (DN 800 12m)

18-May-21 A | 19-Jun-21 A

24 Apr 21

19-Apr 21 26-Apr-21

DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)

DCS - L10(S) CH327-400 Sheet pile

DCS Section 4

DCS - DPR Pipe Installation - Pipe welding (6nos)

DCS - DPR Pipe Installation - Jointing (6nos)

Outfall 2 & Branch Drainage

Coordinated Access to Portion H1 (NAH Site B)

21 Jun 21 A 30 Aug 21 A

03-May-21

07-May-21 31-Aug-21 A 05-Oct-21 A

04 May 21

03 Jan 22

30-Mar-22

03 Jan 22

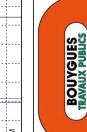
18-May-21 A 05-Oct-21 A

07-May-21

19 Apr 21

14 Jan 22

03-Dec-21 03-Dec-21



Reinstatement of carriageway	ത	26-Jul-21	04-Aug-21	19-Aug-21 A	31-Aug-21 A			Reinstatemen	Reinstatement of carriage way	way							
Stage 3C (WCR westbound Lane 1)	12	05-Aug-21	18-Aug-21	01-Sep-21 A	29-Sep-21 A		S St	Stage 3C (W¢R westbound Lane 1	nd Lane 1)								
Installation of ducting for PL, ATC and E&M	က	05-Aug-21	07-Aug-21	01-Sep-21 A	14-Sep-21 A		0		nstallation o	Installation of ducting for PL, ATC and E&M	∑		L				
Reinstatement of carriageway	თ	09-Aug-21	18-Aug-21	16-Sep-21 A	29-Sep-21 A				-	Reinstatement of carriageway	way.						
Stage 3D (WCR westbound new traffic island)	98	05-Aug-21	15-Sep-21	02-0ct-21 A	13-Nov-21		•	-	\$tage 3D (V	Stage 3D (WCR westbound new traffic island)	sland)						
Demolition of existing pavement	9	05 Aug 21	11-Aug-21	02-0ct-21 A	12 Oct 21 A		 		 	Demolition o	Demolition of existing pavement						÷
Connection for PL, ATC and E&M	12	12 Aug 21	25-Aug-21	13-0ct-21 A	20 Oct 21 A		- - 			Con	Connection for PL, ATC and E&N	rd E&M					
Construction of new traffic island	81	26-Aug-21	15-Sep-21	21-Oct-21 A	13-Nov-21						Co	struction of n	Construction of new traffic island				ļ
Stage 4 (Hoi Bun Road)	125	03-Mar-21	04-Aug-21	02-Aug-21 A	21-Sep-21 A		Stage 4 (Hoi Bun Road)	n Road)									
Stage 4A (HBR Planter)	\$	03-Mar-21	16-Jun-21	02-Aug-21 A	08-Sep-21 A	IBR Planter)		 					 				
Lower down existing manhole	9	03-Mar-21	09-Mar-21	02-Aug-21 A	10-Aug-21 A		Lower do	wer down existing manhole	 								
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	24-Aug-21 A	08-Sep-21 A			Reins	tatement of f	Reinstatement of flootpath & carriageway							
Stage 4B (HBR Fast Lane)	12	22-Jul-21	04-Aug-21	01-Sep-21 A	21-Sep-21 A		▼ Stage 4B (HBR Fast:Lane)	Fast Lane)									
Installation of ducting for PL, ATC and E&M	က	22-Jul-21	24-Jul-21	01-Sep-21 A	08-Sep-21 A	70		Instal	ation of duct	nstallation of ducting for PL, ATC and E&M							
Reinstatement of carriageway	ი	26-Jul-21	04-Aug-21	09-Sep-21 A	21-Sep-21 A				Reinst	Reinstatement of carriageway							
Stage 5 (Gas Station & HBR)	179	10-Mar-21	17-0ct-21	24-Aug-21 A	13-Nov-21					V Stage 5	Stage 5 (Gas Station & HBR)						
Stage 5A (Gas Station Footpath)	282	10-Mar-21	16-Jun-21	25-Aug-21 A	05-Oct-21 A	sas Station Footpath)											
Installation of ducting for PL, ATC and E&M	9	10-Mar-21	16-Mar-21	25-Aug-21 A	20-Sep-21 A				nstalla	Installation of ducting for PL, ATC and E&M	and E&M						
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	21-Sep-21 A	05-Oct-21 A				I -	Reinstatement of fo	Reinstatement of footpath & carriageway						
Stage 5B (HBR traffic island)	98	05-Aug-21	15-Sep-21	24-Aug-21 A	22-Sep-21 A		>	-	\$tage 5B (F	Stage 5B (HBR traffic island)							
Demolition of existing traffic island	9	05-Aug-21	11-Aug-21	24-Aug-21 A	31-Aug-21 A		 	Demolition of	Demolition of existing traffic island	icisland							
Connection for PL, ATC and E&M	12	12 Aug 21	25-Aug-21	01 Sep 21 A	07-Sep-21 A			O O O	ction for PL,	Connection for PL, ATC and E&M	1						
Construction of new traffic island	85	26-Aug-21	15-Sep-21	08-Sep-21 A	22-Sep-21 A				Cons	Construction of new traffic Island	p		L				
Stage 5C (HBR Left Turn Lane 1)	12	16-Sep-21	30-Sep-21	30-Sep-21 A	23 Oct 21 A					Stage 5C (HBR Left Tum Lane 1)	n Lane 1)						
_													Date	Revision	Checked	Approved) day
Dage 17 of 26		Summary											רמום	Nevision	Cleana	257	ממת

Connection for PL, ATC and E&N

Connection gully and gully pipe Demolition of existing traffic island

Construction of n

ing Chiu Road

Stage 3 (Wa

Stage:3A (WCR central traffic island)

Lower down existing manhole

03-Jul-21 A 09-Jul-21 A

05-Mar-21 08-Jul-21

12-Jul-21 A 13-Aug-21 A 14-Aug-21 A 31-Aug-21 A

08-Jul-21

09-Jun-21

04-Aug-21 24-Jul-21

03-Jul-21 A 13-Aug-21 A

27-Feb-21 27 Feb 21

Stage 3A (WCR central traffic island)

Stage 3B (WCR westbound Lane 2)

Reinstatement of footpath & carriageway

Lower down existing manhole

Installation of ducting for PL, ATC and E&M

14-Aug-21 A 18-Aug-21 A

22-Jul-21

Installation of ducting for PL, ATC and E&M

Stage 3B (WCR westbound Lane 2)

Installation of ducting for PL, ATC and E&M

Reinstatement of carriageway

northbound Lane 4)

Installation of ducting for PL, ATC and E&M Installation of gully and gully pipe

1 0

> 09-Oct-21 A 30-Oct-21 A 09-Oct-21 A | 12-Oct-21 A 01-Sep-21 13-Oct-21 A 19-Oct-21 A 20-Oct-21 A 30-Oct-21 A

11-Sep-21

Stage 1D (CYS northbound Lane 4) Installation of ducting for PL, ATC and E&M

Installation of gully and gully pipe

Reinstatement of carriageway

28-Aug-21

30-Sep-21 A 08-Oct-21 A

25-Aug-21

09-Oct-21 A

04-Oct-21 A

01-Sep-21

26-Aug-21 02-Sep-21 09-Sep-21

10-Nov-21

04-Oct-21 A

16-Oct-21

26-Aug-21

Stage 2 (CYS central traffic island)

Demolition of existing traffic island

Connection for PL, ATC and E&M Construction of new traffic island Stage 3 (Wang Chiu Road)

Connection gully and gully pipe

Installation of gully and gully pipe

Reinstatement of carriageway

11-Sep-21

08-Sep-21 11-Oct-21 A 16-Oct-21 A

18-Oct-21 A | 26-Oct-21 A

23-Sep-21

10-Nov-21 13-Nov-21

27-Oct-21 A

16 Oct 21 15-Sep-21

24 Sep 21

27 Feb 21

03-Jul-21 A

C (CYS northbound Lane;3)

08-Sep-21 A 15-Sep-21 A 16-Sep-21 A 08-Oct-21 A 16-Sep-21 A 21-Sep-21 A 14-Aug-21 | 22-Sep-21A | 29-Sep-21A

07-Aug-21

29-Jul-21

25-Aug-21 11-Aug-21

09-Aug-21 09-Aug-21 12-Aug-21 16-Aug-21 26-Aug-21 26-Aug-21 30-Aug-21 02-Sep-21

Stage 1C (CYS northbound Lane 3) Installation of ducting for PL, ATC and E&M

Installation of gully and gully pipe

Activity Name

03-Sep-21 A

Start

Dur 02V0 Start 02V0 Finish

October

September

Reinstatement of carriage Installation of gully and gully pipe

Stage 2 (CMS central traffic island)

Page 17 of 26 Data Date: 30-Oct-21

Three Months Rolling Programme (Oct-21)

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



WYu MYu WYu

SPa/LLo SPa/LLo SPa/LLo

01//3

09-Oct-20 02-Jul-21

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SPa/LLo SPa/LLo

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00 0171 01/2

AGR - Formation to required level + SRT		18	02-Jul-21	22-Jul-21	04-Feb-22*	24-Feb-22												<u>.</u>
AGR - Sub-base + SRT		18	23-Jul-21	12-Aug-21	25-Feb-22	17 Mar 22									‡	†		
DEPRESSED ROAD [DPR]		246	3 03-Mar-21	29-Dec-21	13-May-21 A	25-Mar-22	1) 1	1						DEPRE	EPRESSED ROAD IDPRI		
Excavation & Strutting		11	11-Mar-21	16 Jun 21	17-May-21 A	17-Sep-21 A	& Strutting											
Shallow Section (46m)		5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A												
Excavation part 2 CH5948-CH6008		2	11-Mar-21	16-Mar-21	28 Jun 21 A	03-Jul-21 A	Excavation part	Excavation part 2, CH5948-CH6008										
Zone 3 (Ch6080 - 6121)		6	16-Apr-21	26 Apr 21	17-May-21 A	19-Jun-21 A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							 		 	† ! ! !
Excv to FEL (5,500m³)		6	16-Apr-21	26-Apr-21	17-May-21 A	19-Jun-21 A	EL (5,500m³)		J									
Zone 4 (Ch6121 - 6150)		4	23-Apr-21	16 Jun 21	12-Jul-21 A	17-Sep-21 A	5121 - 6150)	 										
Strut S3 installation (4 nos)		00	23-Apr-21	03-May-21	12-Jul-21 A	17-Jul-21 A	TS T	Strut S3 installation (4 nos)	J									
Excv to S4 (1,550m³) part 1		9	04-May-21	06-May-21	19-Jul-21 A	21-Aug-21 A			Excv, to S4;(1,550m³) part 1	art 1								
Excv to S4 (1,550m³) part 2		4	07-May-21	11-May-21	23-Aug-21 A	26-Aug-21 A			Excv to S4 (1,550m³) part:2	nt³) part:2								†
Strut S4		4	04 Jun 21	08-Jun-21	28-Aug-21 A	30-Aug-21 A) 	Strut S4						 			
FEL		9	09-Jun-21	16-Jun-21	10-Sep-21 A	17-Sep-21 A												}
Permanent Structure		198	3 03-Mar-21	01-Nov-21	13-May-21 A	25-Jan-22						Permanent Structure	fructure					
Shallow Section		33	17-Mar-21	24-May-21	19-Jul-21 A	30-Oct-21 A												
Part 2 (Ch5997 - 6008)		23	17-Mar-21	24-May-21	19-Jul-21 A	30-Oct-21 A												
Plate Load Test		2	17-Mar-21	22-Mar-21	19-Jul-21 A	24-Jul-21 A		Plate Load Test										
Blinding		6	23-Mar-21	01-Apr-21	26-Jul-21 A	07-Aug-21 A		Blinding										ļ
Base Slab		12	07-Apr-21	20-Apr-21	09-Aug-21 A	19-Aug-21 A			Base \$lab									
Drainage, Watermain & UU		10	08-Apr-21	19-Apr-21	10-Aug-21 A	18-Aug-21 A		1-	Drainage, Watermain & UU									
Retaining Wall		18	21-Apr-21	12-May-21	27-Sep-21 A	02-Oct-21 A				<u></u>	Retaining Wall							
Waterproofing		6	13-May-21	24-May-21	11-0ct-21 A	30-Oct-21 A					<u>.</u> .	■ Waterproofing						
Zone 1 (Ch6008 - 6045)		108	3 26-Mar-21	07-Aug-21	13-May-21 A	17-Nov-21		▼ Zone 1	Zone 1 (Ch6008 -6045)									
Blinding & Waterproofing		6	26-Mar-21	09-Apr-21	13-May-21 A	08-Jun-21 A	oojjing											
				_											-	-	ŀ	
Page 18 of 26 ◆	◆ Mestone		▼ Summany											Date	Revision			Approved
Data Date: 30-Oct-21	Planned Bar				/2018/	14 Tri 11	FD/2018/04 Trunk Road T2	To and In	and Infrastructure Works	Works.				18-Dec-19	00/1	n.W.		
	OfficalActivity				0.00	5 - 1 	0001	1	יון מטנו מטנמו (702		I OAII O	6	22-Feb-20	01/0	SPa/LLo		
	Actual Westone Actual Work					or De	for Developments	nts at Sou	at South Apron		<u>ن</u>	TRAVAUX PUBLICS	LICS	09-Apr-20	01/1	SPa/LLo		
~	Baseine Mestone													02-101-71	2010	Sra/LD	n v	

February 06 | 13 | 20 |

Installation of ducting for PL, ATC and E&M

Reinstatement of carriageway Stage 5D (HBR teft Turn Lane 2)

November

October

September

August

◆ Section 8D [STE] - Completion Reinstatement of carriageway

◆ Section 9F [STE] - Completion

CUE L10(N) Excavation part 1

CUE L10(N) Pump Test part 1

CUEL10(N) ELS (Sheet pile) part

23 Dec 20 A 30 Jun 21 A 30 Jun-21 A 30 Jun-21 A 02-Jul-21 A 20-Oct-21 A

> 11 Oct 21 23-Nov-21

02-Sep-21

12 Oct 21

25-Aug-21 A 02-Dec-21

04-Jun-22

07-Apr-22 06-Jun-22

45

CUE L10(N) ELS (Sheet pile) part 2

CUE L10(N) Pump Test part 2

CUE L10(N) Structure part 1

CUE L10(N) Excavation part 1

CUE L10(N) Pump Test part 1

12 Jan 22 19-Apr-22 26-Feb-22 17 Mar 22 17 Mar 22

03-Dec-21

13-Jul-22 06-Apr-22

03-Dec-21 13-Jan-22 04-Feb-22

24-Nov-21

24-Aug-22 12-Aug-21 12-Aug-21

14 Jul 22

02-Jul-21

AT-GRADE ROAD [AGR]

Permanent Structure

CUE L10(N) Excavation part 2

04-Feb-22

19-Apr-22

24-Aug-22 01-Sep-21

23-Dec-20 A 23 Dec-20 A

24-Aug-22

08-Jul-21 08-JuF21 08-Jul-21

18-Oct-21

HBR / CYS / WCR Junction Moditication - Establishment works

Establishment

[STE] Road L10 (Northern)

CUE L10(N) ELS (Sheet pile) part 1

18 Oct 21

365 365 337

14-Nov-21

13-Nov-21* 13-Nov-21* 13-Nov-22 13-Nov-22 19-Apr-22

14-Nov-21

13-Nov-21 03-Nov-21 13-Nov-21

01-Nov-21

30-Sep-21 17-Oct-21 05-Oct-21 16-Oct-21 17-0ct-21 17-Oct-21 17 Oct 22 17-Oct-22

20 Sep 21

Installation of ducting for PL, ATC and E&M

Installation of ducting for PL, ATC and E&M Stage 5D (HBR Left Turn Lane 2)

Section 8D [STE] - Completion Section 9F [STE] - Completion

Reinstatement of carriageway

02-Oct-21 02-Oct-21

12

06-Oct-21

01-Nov-21 04-Nov-21

30 Sep-21 A 12-Oct-21 A

Start

Dur 02V0 Start 02V0 Finish

AT-GRADE ROAD [AGR]

Data Date: 30-Oct-21

Actual Miestone Planned Bar Critical Activity

ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



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SPa/LLo SPa/LLo

01V2 02V0

09-Oct-20 02-Jul-21 17-Jul-20

	-					- 1	- 1			- 1	- 1		- 4
Drainage, Watermain & UU	6	17-Jun-21	26-Jun-21	09-Oct-21 A	25-Oct-21 A				Drainage, Watermain'& UU				
Strut S1 removal	9	30-Jun-21	07-Jul-21	01-Nov-21	06-Nov-21	1			Strut S1 removal				
Zone 3 (Ch6080 - 6121)	8) 27 Apr 21	02-Aug-21	03-Jul-21 A	20-Nov-21		▼ Zohe 3 (Ch6080 - 6121)					ļ	<u> </u>
Plate Load Test (deleted)	2	5 27 Apr 21	03-May-21	03-Jul-21 A	03-Jul-21 A	Plate Load Test (deleted)	leted)						
Blinding & Waterproofing	6	04-May-21	13-May-21	09-Jul-21 A	27-Jul-21 A		■ Blinding & Waterprodfing						L
Base Slab	15	5 14-May-21	01 Jun 21	28-Jul-21 A	01-Sep-21 A		Base Slab	Slab					
Strut S3 removal	9	02 Jun 21	08 Jun-21	13-Sep-21 A	18-Sep-21 A			Strut S3 removal					
South Apron Adit Wall	21	1 09-Jun-21	05-Jul-21	20-Sep-21 A	20-Oct-21 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	South Apron Adit Wall				
Road Slab	12	2 06-JuF21	19-Jul-21	21-0ct-21 A	03-Nov-21				Road Slab				
Drainage, Watermain & UU	10	07 Jul 21	17-Jul-21	21-Oct-21 A	02-Nov-21				Drainage, Watermain & UU				
Strut S2 & S1 removal	12	2 20 Jul 21	02-Aug-21	08-Nov-21	20-Nov-21	1			Struigs & Stremoval	S1 removal			
Zone 4 (Ch6121 - 6150)	147	7 07-May-21	11-Nov-21	01-Sep-21 A	25-Jan-22				Zone 4 (¢h6121 - 6150)				
Plate Load Test	2	07-May-21	12-May-21	01 Sep 21 A	03-Sep-21 A		- Pa	■ Plate Load Test					
Blinding & Waterproofing	9	13-May-21	20-May-21	27-Sep-21 A	02-Oct-21 A	 		Blinding & Waterproofing	aterproofing	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			
Base Slab part 1	12	2 21-May-21	l 03 Jun 21	04-Oct-21 A	12-Oct-21 A			Bas	Base Slab parr 1				
BS P2	0	25-Jun-21	06-Jul-21	13-0ct-21 A	19-Oct-21 A	 - <u>-</u>			BS P2				
Remove S4	es .	07 Jul 21	09-Jul-21	20-Oct-21 A	22 Oct 21 A	0			Remove S4				
BS P3	9	10-JuF21	16-Jul-21	22-0ct-21 A	25-Oct-21 A	1			BS BS			ļ	
BS P4	6	17 Jul 21	27-Jul-21	26-Oct-21 A	28-Oct-21 A				BS P4				
Remove S3	6	28-JuF21	06-Aug-21	29-Oct-21 A	30-Oct-21 A				Remove S3				
South Apron Adit Wall / Sump Pit	21	1 07-Aug-21	31-Aug-21	01-Nov-21	24-Nov-21				A thros	South Apron Adit Wall / Sump Pi	<u>+</u>		
Road Slab	12	2 01-Sep-21	14-Sep-21	25-Nov-21	08-Dec-21					Road Slab			
Strut S2 & S1 removal	92	3 15-Sep-21	07-Oct-21	09-Dec-21	31-Dec-21						Strut S2 & \$1 removal		
Retaining Wall	9) 08 Oct 21	20 Oct 21	03-Jan-22	13-Jan-22						Retaining Wall	IR.	
Stage 2B Completion - AGR, DPR, SAS, C&C & LS for TBM Access	0		20-Oct-21		13-Jan-22				♦		◆ Stage 2B Co	Stage 2B Completion - AGR, DPR, SAS	DPR, SAS
Drainage, Watermain & UU	10	21-Oct-21	01-Nov-21	14-Jan-22	25-Jan-22							Drainage, Watermain & UU	nain & UU
			-					-		-	ŀ	ł	
Page 19 of 26		Summany									evision	Checked App	Approved
Data Date: 30-Oct-21 Genred Bar Orbical Activity			ED/	′2018/C	√4 Trur	ik Road T	ED/2018/04 Trunk Road T2 and Infrastructure Works	ure Works		18-Dec-19 (22-Feb-20 (00V1 WYu 01V0	ı XX	
♦ ♦ Actual Missione				+	or Dev	for Developments	is at South Apron		BOUYGUES				
Acutal Work Charles Westone						-			INAVAOA POBLICA				
				Three	Mont	Three Months Rolling	Programme (Oct-21)	1-21)		09-Oct-20	01V3 SPa/LLo	n M o	
				; : :		2	- 1	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.					

November

October

September

August

and Backfilling

Waterpho

South Apron Adit Wall

Strut S3 removal

Base Slab

▼ Zone 2¦(Ch6045 - 6080)

06-Nov-21

26-Oct-21 A

03-Jul-21 28-Jul-21

Waterproofing and Backfilling

Strut S1 removal

Retaining Wall

Drainage, Watermain & UU

Blinding & Waterproofing

Road Slab

South Apron Adit Wall

Base Slab DCS Pipes

Activity Name

Strut S3 removal

SP Remova

Waterproofing and Backfilling Zone 2 (Ch6045 - 6080)

Blinding & Waterproofing

Plate Load Test

South Apron Adit Wall

Road Slab

Strut S3 removal

Base Slab

17-Nov-21

08-Nov-21

07-Aug-21

29-Jul-21 08-Apr-21 08 Apr 21 14-Apr-21 24-Apr-21

oad Test

15 Jun 21 A 21 Jun 21 A

13-Apr-21 23-Apr-21 12-May-21

07-Jul-21 15-Jun-21 A 06-Nov-21

22-Jun-21 A 03-Jul-21 A

04-Aug-21 A

10-Jul-21 A

07-Aug-21 A | 14-Aug-21 A 15-Jun-21 23-Aug-21 A 07-Oct-21 A

20-May-21

13-May-21

29-Jun-21 | 08-Oct-21 A | 26-Oct-21 A

16 Jun 21 21-May-21

12

Retaining Wall

Waterproofing and Backfilling

Strut S1 removal

Drainage, Watermain & UU

Blinding & Waterpropfing

SP Removal

South Apron Adit Wall

Strut S3 removal

31-May-21 16-Aug-21 A 27-Sep-21 A 05-May-21 21-Aug-21 A 24-Aug-21 A

06-May-21

20-Apr-21 27 Apr 21

26 Mar 21

8 7

09-Jun-21 A 26-Jul-21 A 21 Jun 21 A 18-Sep 21 A

Finish

Start

Dur 02V0 Start 02V0 Finish

20-May-21 11-Oct-21 A 13-Oct-21 A

18-Oct-21 A

14-Oct-21 A

15-Jun-21

12-Jun-21 14-Oct-21 A 18-Oct-21 A 25-Jun-21 19-Oct-21 A 23-Oct-21 A 25-Oct-21 A 26-Oct-21 A

12-May-21 27-Sep-21 A 09-Oct-21 A

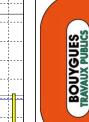
06-May-21

28 Apr 21

13-May-21 01-Jun-21 02-Jun-21 16-Jun-21 26-Jun-21 05-Jul-21

DCS Pipe

Road Slab



	P	12-101-20	23-Dec-21	20-0air22	22 IVIGI - 22						
DPR- Drainage, Watermains & UU Installation CH5962-6080	24 0	02-Nov-21	29-Nov-21	26-Jan-22	25-Feb-22						
DPR - Drainage, Watermains & UU Installation CH6080-6150	24 3	30-Nov-21	29-Dec-21	26-Feb-22	25-Mar-22						
WEST VENTILATION BUILDING [WVB]	201	14 Apr 21	11-Dec-21	11-Mar-21 A	11-Mar-22				▼ WEST VENTILAR	WEST VENTILATION BUILDING [WVB]	
Delay Events	0			21-Apr-21 A	12-Jun-21 A						
KP Drilling Stoppage - due to Fatal Accident	0			21 Apr 21 A	12-Jun-21 A	ppage - oue to Fatal Accident					
ELS system & Foundation	79	14 Apr 21	19-Jul-21	11-Mar-21 A	20-Oct-21 A	▼ ELS system & Foundation	ion				
Sheet Pile	48	14 Apr 21	10-Jun-21	11 Mar 21 A	28-Jul-21 A						
WVB - Sheet Piles Installation 100% completion	48	14-Apr-21	10-Jun-21	11 Mar 21 A	28-Jul-21 A	WVB - Sheet P	WVB - Sheet Piles Installation 100% completion				
King Post	53	15-May-21	19-Jul-21	07-Jun-21 A	20-Oct-21 A	▼ King Pos					
North	38	15-May-21	30-Jun-21	07 Jun 21 A	06-Jul-21 A	North					
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31-May-21	03-Jun-21	07 Jun 21 A	07-Jun-21 A	buting (KP9 & KP10) @2d/np					
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15-May-21	20-May-21	26-Jun-21 A	02-Jul-21 A	KP Installation & Grouting (KP3;& KP4) @ 2d/no) @ 2d/no				
KP Installation & Grouting (KP11 & KP12) @ 2d/ho	4	26 Jun 21	30-Jun-21	03-Jul-21 A	06-Jul-21 A	KP Installation & Grouting (KP11 & KP12) @ 2d/no	KP12) @ 2d/no				
South	38 2	21 May-21	06-Jul-21	08-Jun-21 A	30-Jul-21 A	South					
KP Installation & Grouting (KP5 & KP6) @ 2d/no	4	21-May-21	25-May-21	08-Jun-21 A	08-Jun-21 A	routing (KP5 & KP6) @ 2d/np					
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21	28 Jun 21 A	02-Jul-21 A	KP Dilling (KP11 & KP12) @ 2d/no					
KP Installation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A	23-Jul-21 A	KP Installation & Gr	KP Irstallation & Grouting (KP ! & KP?) @ 2d/no				
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Jul-21	26-Jul-21 A	29-Jul-21 A	KP Drilling (KP7 & KP8) @ 2d/no	P7 & KP8) @ 2d/no			1	
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-Jul-21	06-Jul-21	30-Jul-21 A	30-Jul-21 A	KP Installation	KP Installation & Grouting (KP7 & KP8) @ 24/no				
Steel Platform Location	39	02-Jun-21	19-Jul-21	21 Jun 21 A	20-Oct-21 A	Steel Platform Location					
KP Drilling (DP1 - DP6) 6 nos @ 34ho	18	02-Jun-21	23-Jun-21	21 Jun 21 A	09-Aug-21 A	X X	KP Drilling (DP1 - DP6) 6 nos @ 34mo				
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18 0	05-Jun-21	26-Jun-21	05-Jul-21 A	14-Aug-21 A		KP installation (DP1 - DP6) 6 nos @2d/nb				
Steel Deck Erection	18	28-Jun-21	19-Jul-21	06-Oct-21 A	20-0ct-21 A			Steel Deck Erection			
Wells Installation	40 2	21-May-21	08-Jul-21	26-Jul-21 A	04-Sep-21 A	Wells Installation					
North	22 2	21 May-21	16-Jun-21	26-Jul-21 A	02-Sep-21 A						
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6 2	21-May-21	27-May-21	26-Jul-21 A	10-Aug-21 A		Pumping Well Installation - 6 nos x 2 rigs (Zone 3)				
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	0 9	01-Jun-21	07 Jun-21	23-Aug-21 A	28-Aug-21 A		Pumping Well Installation - 6 nps x 2 rigs (Zone 1)	(Zone 1)			
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	2	08-Jun-21	16-Jun-21	30-Aug-21 A	02-Sep-21 A		Pumping Well Installation - 7 nos x 2 rigs (Zorie 2)	ngs (Zone 2)			
South	34 2	28-May-21	08-Jul-21	12-Aug-21 A	04-Sep-21 A	South					
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3 2	28-May-21	31-May-21	12-Aug-21 A	04-Sep-21 A		Pumping Well Installation - 3 nbs x 2 rigs (Zone 6)	2 rigs (Zone 6)			
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	5	07-JuF21	08-Jul-21	23-Aug-21 A	25-Aug-21 A		Pumping Well Installation - 2 nds x 2 rigs (Zone 5)	ne 5)			
Steel Platform Location		24 Jun 21	03-Jul-21	11-Aug-21 A	18-Aug-21 A	Steel Platform Loration					
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)		24-Jun-21	03-Jul-21	11 Aug-21 A	18-Aug-21 A		Pumping Well Installation -:11 nos x 3 rigs (Zone 4)				
Excavation & Strutting		09-JuF21	11-Dec-21	06-Sep-21 A	11-Mar-22	•			Excavation & Strutting	ıtting	
Pumping Test		09-Ju F 21	20-Jul-21	06-Sep-21 A	18-Sep-21 A		Pumping Test				
Excavation to below Strut S1 10,010m³	4	21-JuF21	09-Aug-21	20-Sep-21 A	05-Nov-21	 		Excavation to below \$trut S1 10,010m ³	trut S1 10,010m³		
_										ŀ	-
Page 20 of 26	Sum	Summany	Ĺ	0,0	ŀ	- - -			Date Re 18-Dec-19 00V1	Kevision Checked	ked Approved
Data Date: 30-Oct-21			EU/,	2018/0	4 	ED/2018/04 Irunk Road I2 and Ir	and Intrastructure Works				WYu
◆ ◆ Actual Mestone				4	or Dev	for Developments at Sou	at South Apron	BOUYGUES			
Actual work A Baseine Milestone							_	INAMAN POBLES			
Baseline Bar				Three	Mont	Three Months Rolling Progra	Programme (Oct-21)		09-Oct-20 01V3	V3 SPa/LLO	n WYu
						- 1					

DPR-C

Road & Drain

February 06 | 13 | 20 |

November

October

September

August

BH 15.15mPD

■ BH 10.5mPD

13-May-21 29-Jul-21 A 07-Aug-21 A

07-May-21 17-Jun-21

24-Jun-21 28-Aug-21 A 09-Sep-21 A

14 Jan 22 14 Jan 22 18-Feb-22 26-Jan-22

28-Dec-21 20-Nov-21

21-Oct-21 21-Oct-21

17-Feb-22 24-Mar-22

24-Mar-22 25 Mar 22

28-Dec-21

22-Nov-21 02-Nov-21

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DPR - CH6080-6150 - Reinstatement Works DPR - CH6080-6150 - Sheet Pile cutting

Road & Drain

29-Dec-21

JS Dwall removal up to -3.0mPD BH-685mPD

21 Jun-21 A 26 Jun-21 A

12-Mar-21

03-Mar-21 16-Apr-21

SUS Dwall removal up to -3.0mPD

BH-15.15mPD Misselaneuos

BH-10.5mPD

BH-6.85mPD

DPR SUS Interface

29 Jun 21 A 17 Jul 21 A

22 Apr 21

09-Sep-21 A

21 Jun 21 A

Finish

Start

Dur 02V0 Start 02V0 Finish

		:												
Eastbound		30 82	08-Dec-21	15-Mar-22	22-Jan-22	30-Apr-22								1-
SUS - EB - ISCG Assembly		18	08 Dec-21	30-Dec-21	22-Jan-22	15-Feb-22					 		Sus	SUS EB
SUS - EB - Corbel Structure		90	31-Dec-21	15-Mar-22	16-Feb-22	30-Apr-22								
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]		211 06	05-May-21	15-Jan-22	18-May-21 A	11-Mar-22						C&C TUNNEL / LAUNCHING SHAFT	AUNCHING SHA	HAFT
Delay Events		0			28-May-21 A	27-Aug-21 A								
C1-15 Zone 2 Pour 2 Remedial works		0			28-May-21 A	03-Jun-21 A	emedial works							
C1-15 Zone 2 Pour 3 Remedial works		0			04 Jun 21 A	08-Jun-21 A	3 Remedial works							·
C1-15 Zone 3 Remedial works		0			27 Jun 21 A	03-Jul-21 A	C1-(5 Zone 3 Remedial works,							
C1-15 Zone 4 Pour 1 Remedial works		0			08-Jul-21 A	16-Jul-21 A	C1-15 Zone 4 Pour 1 Remedial works	medialworks						
C1-15 Zone 4 Pour 2 Remedial works		0			27-Jul-21 A	05-Aug-21 A	C1-13	C1-15 Zone 4 Pour 2 Remedial works						
C1-15 Zone 4 Pour 3 Remedial works		0			06-Aug-21 A	11-Aug-21 A		C1-15 Zone 4 Pour 3 Remedial works						
C1-15 Strengthening Wall Strength Gain		0			12-Aug-21 A	15-Aug-21 A		C1-15 Strengthehing Wall Strength Gain						ļ
Cross Wall X1 Breaking		0			14-Aug-21 A	27-Aug-21 A		Cross Wall X1 Breaking						
Shaft Excavation & Strutting		90	05-May-21	16-Jul-21	18-May-21 A	07-Aug-21 A	Shaft: Excavation & Strutting	Ď.						
Cut & Cover		33	04-Jun-21	16-Jul-21	01-Jun-21 A	10-Jul-21 A	Cut & Cover							
Excavation (2,817m³) up to level -24.6mPD		=	04 Jun-21	17 Jun 21	01 Jun 21 A	11-Jun-21 A	(2,817m³) up to level -24.6mPD							}
S6 Steel Struts		12 18	18-Jun-21	02-Jul-21	12-Jun-21 A	21-Jun-21 A	Se Steel Struts							
Pumping Test Trial		0			22-Jun-21 A	28-Jun-21 A	Pumping Test Trial							
Excavation (2,567m³) to FEL (-28.7mPD)		12 0	03-JuF21	16-Jul-21	29-Jun-21 A	10-Jul-21 A	Excavation (2,567tm²) to FEL (-28.7mPD)	FEL (-28.7mPD)						
Cell 2		24 06	05-May-21	02 Jun 21	18-May-21 A	24 Jul-21 A								
Excavation up to level -26.45mPD		12 06	05-May-21	18-May-21	18-May-21 A	14-Jun-21 A	to level-26.45mPD							
Excavation (6,809 m³) to FEL -32.63mPD		12 20	20-May-21	02-Jun-21	15-Jun-21 A	24-Jul-21 A	Excavation (6,800	Excavation (6,809 m³) to FEL -32.63mPD						
Cell 1		21 06	05-May-21	29-May-21	18-May-21 A	07-Aug-21 A								
Excavation up to level -26.45mPD		12 06	05-May-21	18-May-21	18-May-21 A	07-Jun-21 A	el-26.45mPD							
Excavation (6,809 m³) to FEL -33.75mPD		9 20	20-May-21	29-May-21	08-Jun-21 A	07-Aug-21 A	Exce	Excavation (6,809 m³) tọ FEL -33.75mPD						
000	Mostros	Varman S.	,ueu							Date	Revision	Checked	Approved	Ţ,
Page 21 01 20 Data Date: 30-Oct-21	Planned Bar	•	 }	ED/	018/0	4 Trur	k Road T2 and I	ED/2018/04 Trunk Boad T2 and Infrastructure Works		18-Dec-19	00/1	WYu		
	Ortical Activity			7	5	5	ווי ויסמט וע	יייו מפנו מפנמו כי איפוואפ	STICKLICE	22-Feb-20	01/0	SPa/LLo	ΜΥu	
	Actual Milestone Actual Mode				Ψ <u></u>	or Dev	for Developments at Sc	at South Apron	BOUTGUES TPAVAIIX PIRIICS	09-Apr-20	01V1	SPa/LLo	WYu	
\	◆ Baseline Mestone								CARGO LORANA	17-Jul-20	01V2	SPa/LLo	MWn	
	■ Baseine Bar				Three	Mont	Three Months Rolling Progra	Programme (Oct-21)		09-Oct-20	01/3	SPa/LLo	n, n, n	
							- 1	`		201	21-2		5	

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Excavation to b Strut

Strut S3 Pre-loading Strut S3 Installation

Excavation to below Strut S3 11,905m3

Excavation to below Strut S2 11,076m

Strut S1 Pre-bading

Strut S2 Installation

\$trut S2 Pre loading:

11-Jan-22

16-Dec-21 22 Dec-21

17 Jan 22 19 Jan 22 09-Feb-22

15-Dec-21

14-Dec-21

20-Sep-21 16-Oct-21 22 Oct 21 25-Oct-21

18 Sep 21 21 Sep 21 28 Sep 21

17-Sep-21

26-Aug-21

8

9

Excavation to below Strut S2 11,076m3

Strut S2 Installation Strut S2 Pre-loading

Bulk Excavation Start Strut S1 Installation Strut S1 Pre-loading 09-Sep-21

13-Nov-21 04-Dec-21 13-Dec-21

12-Nov-21 15-Nov-21 20-Nov-21

19-Aug-21

18 Aug 21 20-Aug-21

30-Sep-21 A 20 Sep 21 A

17-Aug-21

26-Jul 21

8 7 19-Feb-22

20 Jan 22 25-Jan-22

11-Nov-21

15 20

Excavation to below Strut S4 8,930m3

Strut S4 Installation Strut S4 Pre-loading

22-Nov-21

18-Jan-22

23-Oct-21 26-Oct-21 30-Oct-21

8

23

Excavation to below Strut S3 11,905m3

Strut S3 Installation Strut S3 Pre-loading 22-Feb-22 11 Mar 22 30 Apr 22

21-Feb-22

24-Nov-21

23-Nov-21 25-Nov-21

23-Feb-22

11-Dec-21

15-Dec-21 15-Dec-21

15-Mar-22 07-Dec-21 07-Dec-21

20 Oct 21 20-Oct-21

120

SUPPORTING UNDERGROUND STRUCTURE [SUS

Excavation to FEL 9,230m³

42

15

21-Jan-22

21 Jan 22

15-Dec-21* 20-Dec-21*

03-Nov-21

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19-Jan-22 30 Apr 22 12 Feb 22

16-Nov-21

20-Oct-21

20 Jan 22

07-Dec-21

20 Jan 22

07-Dec-21

20 Jan 22

15-Mar-22

17-Nov-21 17-Nov-21 17-Nov-21

Tunnel Internal Structure & Finishing

SUS - WB - ISCG Assembly

Westbound

SUS - WB Partition Wall CH6150-6237

SUS - EB Partition Wall CH6150-6260

Permanent Structure

February 06 | 13 | 20 |

2022

November

October

2021

September

Finish

Start

Dur 02V0 Start 02V0 Finish

SUS - EB Partition Wall CH6150

Permanent Structur

SUS - WB Partition Wall CH6150.6

SUS-WB



													-
Base Slab Pour 3 & 4 [910m³)	00	27-Jul-21	04-Aug-21	27-Sep-21 A	16-Oct-21 A		1		Base Slab Pour 3,& 4 [910m³)				
Temp. & Perm. Side Wall part 1	6	14-Aug-21	24-Aug-21	13-Oct-21 A	23-Oct-21 A	ļ			Temp & Perm Side Wall part 1			 	
Temp. & Perm. Side Wall part 2	9	03-Sep-21	09-Sep-21	30-Nov-21	06-Dec-21					Temp. & Per	Temp. & Perm. Side Wall part 2		
Tympanum	<i>L</i> 9	03-Jun-21	21-Aug-21	26-Jul-21 A	29-Nov-21		Tympanum	Em					
Blinding & Waterproofing	6	03-Jun-21	12-Jun-21	26-Jul-21 A	11-Aug-21 A		Blinding & Waterproofing	proofing					
Tympanum Pour 1 + Seal Rings [353m²)	12	15-Jun-21	28 Jun-21	12-Aug-21 A	31-Aug-21 A		-	Tympanum Pour 1 + Seal Rings [353m³)					
Tympanum Pour 2 + Seal Rings	9	07-Jul-21	13-Jul-21	01 Sep 21 A	10-Sep-21 A		1	Tympanum Pour 2 + Seal Rings					
TYmpanum Mass Fill	0			11-Sep-21 A	14-Sep-21 A			TV mpanum Mass Filli					
Tympanum Pour 3 + Seal Rings	9	14-JuF21	24-Jul-21	15-Sep-21 A	30-Sep-21 A			munipamum (Tympanum	Tympanum Pour 3 # Seat Rings				
Tympanum Pour 4 + Seal Rings	9	26-Jul-21	05-Aug-21	02-Oct-21 A	30-Oct-21 A		1		Tymbanum Pour 4 + Seal Rings	Rings			
Tympanum Pour 5 Seal Rings	4	06-Aug-21	21-Aug-21	01-Nov-21	11-Nov-21				Tympanum Po	Tympanum Pour 5 Seal Rings			
Falseworks removal	0			12-Nov-21	29-Nov-21					Falseworks removal			
Tunnel Permanent Works	12	03-Jan-22	15-Jan-22	26-Feb-22	11-Mar-22		J					Tunnel Permanent Works	orks
Cell 1/2 Westbound	12	03-Jan-22	15-Jan-22	26-Feb-22	11-Mar-22							Cell 1/2 Westbound	
WB Thrust Frame Dismantling	12	03-Jan-22	15-Jan-22	26-Feb-22	11-Mar-22								
SUB-SEA TBM TUNNEL - WESTBOUND	380	31-Oct-20	12-Feb-22	27 Oct 20 A	06-Apr-22								SUB-SEA TI
TBM Design / Fabrication / FAT / Delivery	72	30-Mar-21	29-Jun-21	15-May-21 A	22-Jul-21 A	TBM Design / Fabrication / FAT / Delivery	n/FAT/ Delivery					 	
FAT	24	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A	\	1			 	 		
Delivery of TBM components to the Site	48	03-May-21	29 Jun 21	10-Jun-21 A	22-Jul-21 A	De	Delivery of TBM components to the Site	Site					
Precast Fabrication	223	15-May-21	12-Feb-22	31-May-21 A	06-Apr-22								▼ Precast Fab
TBM Precast Segments	216	15-May-21	04-Feb-22	31-May-21 A	06-Apr-22							1	TBM Precast Segmi
Precast TBM Segment - 40%	98	15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A		Precast TBM Segment -40%	%					
Precast TBM Segment - 50%	æ	29-Jun-21	10-Aug-21	02-Aug-21 A	02-Oct-21 A				Precast TBM Segment 150%	 			
Precast TBM Segment - 60%	98	11-Aug-21	21-Sep-21	04-Oct-21 A	23-Nov-21				-	Predast.TBM Segment - 60%	%09		
Precast TBM Segment - 70%	æ	23 Sep 21	05-Nov-21	24-Nov-21	07-Jan-22						e B	Precast TBM Segment - 70%	
Page 22 of 26 ◆ ♦ Mestone		Summary								Date	Revision	Checked	Approved
Data Date: 30-Oct-21			È	2018/0	Trink	T Pood 1	2 and Infracti	ED/2018/04 Trunk Boad T2 and Infractructure Works		18-Dec-19	9 00V1	WYu	
			֝֟֝֝֟֝֝֟֝֝֝֟֝֝֟֝	0 0	5 - -	יייייייייייייייייייייייייייייייייייייי	ב מוות ווווומטוו	actal c volva	POLIVOILLE	22-Feb-20			WYu
◆ ◆ Actual Mestone				ч_	or Dev	for Developments	s at South Apron	lon	BOOTGUES	09-Apr-20	01V1	SPa/LLo V	WYu
Actual Work				•		····		=	I KAVAUA PUBLICS	11 - 17	0,00		, .

February 06 | 13 | 20 |

November

October

September

August 15

Civil Works for

Cut & Cove

4m2/shift x 2 shift)

Base Slab Pour 2 [883m³)

Blinding & Waterproofing Pour 3 & #

dfing Pour 2

Blinding & Waterp

VSL Gantry Crane Load Tes

◆ Cell:1 & 2 Excavation completion

03-Jul-21 A 24-Aug-21 A

14-Jul-21

12

02 Jun 21

03-Jul-21 A 06-Dec-21

02-Jun-21 30-Jun-21

05 Oct 21

07-Aug-21 A

25-Aug-21 A 28-Aug-21 A

17 Jul 21

15 Jul 21

15-Jul-21 A 06-Dec-21

09-Sep-21

03-Jun-21

15-Jul-21 A 28-Jul-21 A

17 Jun 21

10-Jun-21

21-Aug-21 A

29-Jul-21 A

14-Jul-21

18-Jun-21

16-Aug-21 A 21-Aug-21 A 28-Jun-21 28-Aug-21 A 07-Sep-21 A

09-Jun-21

03-Jun-21 18 Jun 21 30-Aug-21 A | 20-Sep-21 A 13 Sep 21 A 07 Oct 21 A

09-Jul-21

29 Jun 21

Blinding & Waterproofing Pour 3 & 4

Base Slab Pour 2 [883m3)

Blinding & Waterproofing Pour 2

Blinding & Waterproofing Pour 1

Base Slab Pour 1 [1,292m³)

Plate Load Test

Cell 1 & 2 Excavation completion

VSL Gantry Crane Setup

Cell 1 & 2

VSL Gantry Crane Load Test

Base Slab

26-Jul-21

■ Base Slab

Base Slab Pour 1:[1,292m³)

Blinding & Waterproofing Four

Cell 1 & 2 VSL Gantry Crane Setup

■ WB SUS BH removal (145m²/8 4m²/shift x 2 shift) EB SUS BH removal (145m²/

C&C S5 & S6 Strut Remov

Base Slab

Blinding & Waterproofing Pour 15

03-Aug-21 22-Jul-21 A 19-Aug-21 A

12-Jul-21 A 21-Jul-21 A

23-Jul-21

17-Jul-21

20-Sep-21 A 12-Oct-21 A 13-Oct-21 A 21-Oct-21 A 22-Oct-21 A 26-Oct-21 A

> 04-Oct-21 15-Oct-21 09-Sep-21

WB SUS BH removal (145m2 / 8.4m2/shift x 2 shift) EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)

C&C S5 & S6 Strut Removal Base Slab Pour 5 [1,740m³)

20-Aug-21 A 18-Sep-21 A

07-Sep-21 21-Sep-21

04-Aug-21 08-Sep-21 23-Sep-21

24 Jul 21

Blinding & Waterproofing Pour 15

C&C Excavation completion

Barrette Trimming

C&C Excavation completion Barrette Trimming

26-Oct-21 A

10-Jul-21 A 03-Jul-21 A Start

15-Oct-21

16-Jul-21

75 0

Civil Works for TBM Assembly

16-Jul-21

06-Dec-21

Dur 02V0 Start 02V0 Finish

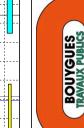
10-Jul-21 A

Data Date: 30-Oct-21

Planned Bar
Critical Activity
Actual Misstone

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

Three Months Rolling Programme (Oct-21)



Predast/TBM Segment - 60%		Date	18-Dec-19 00V1	22-Feb-20 01V0	09-Apr-20 01V1	17-Jul-20 01V2
<u>د</u> - ا	<u>-</u>				UES	FICS

WYu WYu MYu WYu

> SPa/LLo SPa/LLo SPa/LLo

> > 01//3

17-Jul-20 09-Oct-20 02-Jul-21

Liegasi Calvina Gallai) = 0/0	£7	1 7 000	0/ -00-1-	7-101-01	1000					2 (12112)	
Precast Service Gallery - 6%	24 08	08-Oct-21	05-Nov-21	13-Dec-21	12-Jan-22			-			Precast Service Gallery - 6%
Precast Service Gallery - 10%	24 06	06-Nov-21	03-Dec-21	13-Jan-22	12-Feb-22						Predast Ser
Precast Service Gallery - 20%	24 04	04 Dec-21	04 Jan 22	14-Feb-22	12-Mar-22						
OHVD Slab	72 15	15-Nov-21	12-Feb-22	18-Dec-21	18-Mar-22						▼ OHVD Slab
Concrete Mix - Plant Trial	72 15	15-Nov-21	12-Feb-22	18-Dec-21*	18-Mar-22						
Precast OHVD Slab - Mould Fabrication & Setup	72 15	15-Nov-21	12-Feb-22	18-Dec-21*	18-Mar-22						
Site Establishment	293 31	31-Oct-20	27-Oct-21	27-Oct-20 A	04-Dec-21				Site Establishment		
Temporary CLP 132kV Substation	221 31	31-Oct-20	31-Jul-21	27-Oct-20 A	31-Aug-21 A		Temporary CLP 132kV Substation				
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192 31	31-Oct-20	26-Jun-21	27 Oct 20 A	02-Aug-21 A		■ Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	Transformer, Setup & Final Fix			
Temp CLP 132kV Substation - FSD / WSD Inspection	24 28	28-Jun-21	26-Jul-21	03-Aug-21 A	31-Aug-21 A		Odwal	Temp CLP 132kV Substation - FSD / WSD Inspection	action		
Temp CLP 132kV Substation - Power On	0		31-Jul-21		31-Aug-21 A		O dmeT ◆	◆ Temp CLP 132kV Substation - Power On			J
Precast Elements Storage Yard	66 02	02-Nov-20	20 Jan 21	07 Jun 21 A	20-Nov-21						
Precast Storage - RC beam & Rail installation	24 02	02-Nov-20	28-Nov-20	07-Jun-21 A	31-Jul-21 A		Precast Storage - RC beam & Rail installation	itallation			
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21 A	13-Nov-21				Precast Storage	Pregast Storage - Delivery & Assembly	
Precast Storage - Commissioning & Load Test	6 14	14 Jan 21	20 Jan 21	15-Nov-21	20-Nov-21				Precasis	Precast Storage - Commissioning & Load Test	
Gantry Crane Setup for TBM Assembly	99	04-Mar-21	26-May-21	21-May-21 A	28-Aug-21 A	ssembly					
Gantry Crane - RC beam & Rail installation	24 04	04-Mar-21	31-Mar-21	21-May-21 A	30-Jun-21 A	Gantry Cranel - RC beam & Rail installation	Rail installation				
Gantry Crane - Delivery & Assembly	36 01	01-Apr-21	18-May-21	28-Jun-21 A	24-Aug-21 A		Gantry Crane	Gantry Crane - Delivery & Assembly			
Gantry Crane - Commissioning & Load Test	6 20	20-May-21	26-May-21	25-Aug-21 A	28-Aug-21 A		Gantry Cra	Gantry Crane - Commissioning & Load Test			
Slurry Treatment Plant	156 04	04 Mar 21	10-Sep-21	18-Feb-21 A	04-Dec-21			Slurry Treatmen: Plant			
Slurry Treatment Plant - Civil works	36	04-Mar-21	19-Apr-21	18-Feb-21 A	04-Sep-21 A		Slur	Slurry Treatment Plan: - Civil works			
Slurry Treatment Plant - Delivery & Assembly	24 20	20-Apr-21	18-May-21	31 Mar-21 A	20-Sep-21 A			Slury Treatment Plant - Delivery & Assembly	ery & Assembly		
Slurry Treatment Plant - Installation	48 20	20-May-21	16-Jul-21	20-May-21 A	25-Oct-21 A	1			Slurry Treatment Plant - Installation		
Slury Treatment Plant - Commissioning	24 17	17-JuF21	13-Aug-21	11-Oct-21 A	06-Nov-21				Slury Treatment Plant Commissioning	Commissioning	
Slurry Treatment Plant - CNP Application	24 14	14-Aug-21	10-Sep-21	08-Nov-21	04-Dec-21					Sluriy Treatment Plant CNP Application	cation
Mortar Plant	108 18	18-Jan-21	02-Jun-21	15-Jul-21 A	13-Nov-21						
Mortar Plant - Civil works	36 18	18 Jan 21	04-Mar-21	15-Jul-21 A	18-Sep-21 A		-	Mortar Plant - Civil works			
Mortar Plant - Installation	48 04	04-Mar-21	04-May-21	02-Aug-21 A	25-Sep-21 A			Mortar Plant - Installation			
Mortar Plant - Commissioning	24 05	05-May-21	02-Jun-21	27-Sep-21 A	13-Nov-21				Mortar Plant - Commissioning	mmisstoning	
DG Store / Medical Lock	267 01	01-Dec-20	27-Oct-21	01-Dec-20 A	01-Dec-21				■ DG Store / Medical Lock		
Hyperbaric Intervention - LD consultation & Approval	144 01	01-Dec-20	31-May-21	01-Dec-20 A	06-Sep-21 A	- - - - -	Ý	Hyperbaric Intervention - LD consultation & Approval			
DG Store / Medical Lock Installation	48 02	02-Aug-21	27-Sep-21	07-Sep-21 A	03-Nov-21				DG Store / Medical Lock Installation	ıstallation	
DG Store / Medical Lock - FSD Approval	24 28	28-Sep-21	27-Oct-21	04-Nov-21	01-Dec-21					DG Store / Medical Lock - FSD Approval	Te .
TBMAssembly	113 18	18-JuF21	01-Dec-21	22-Jul-21 A	24-Dec-21					TBMAssembly	
WB TBM 1st Delivery	0		18-Jul-21		22-Jul-21 A	⇔ ♦ WB TE	TBM 1st Delivery				
Lifting S5/S6/S4/Cross Beam	0			30-Aug-21 A	01-Sep-21 A		Lifting 8	Lifting \$5/S6/\$4/Cross Beam			
Main Drive with displacement Cylinder	0			02-Sep-21 A	04-Sep-21 A		Main	Main Drive with displacement Cylinder			
Lifting S3/S7/S2/S8 & S1 Installation	0			05-Sep-21 A	11-Sep-21 A			Lifting S3/S7/S2/S8 & S1 Installation			
_										ŀ	3
Page 23 of 26	Summary	any	1	0	ļ	(- -				18-Dec-19 nnv/1	Checked Approved
Data Date: 30-Oct-21			EU/	2018/0	4 	IK Koad 12	ED/2018/04 Irunk Road 12 and Infrastructure Works	re Works			SPa/LLo WYu
Actual Wiestone Actual Work				_	or De	for Developments	at South Apron		BOUYGUES TRAVAUX PUBLICS		
♦ ♦ Basefine Mestone				Ē	2		(09-Oct-20 01V3	SPa/LLo WYu
Baseline Bar				Inre	Mon	Inree Months Kolling F	Programme (Oct-21)	(LZ-1)			SPa/LLo WYu
								-			

December

November

October

September

▼ Service Gallery

■ Predast Service Gallery - 3%

Pregast Selvipe Gallery - Mould Fabrication & Setup Precast Service Gallery - Mass Production Start

Precast Service Gallery - Mould Design

27-Jul-21 19-Jul-21 A 18-Sep-21 A

07-Sep-21 20-Sep-21 A 13-Nov-21

36 28-JuF21 29-Jun-21

> Precast Service Gallery - Mould Fabrication & Setup Precast Service Gallery - Mass Production Start

Precast Service Gallery - 3%

Precast Service Gallery - Mould Design

Precast TBM Segment - 90% Precast TBM Segment - 80%

Service Gallery

54

156

08-Sep-21

0

11 Dec-21

15-Nov-21

07-Oct-21

08-Sep-21

54

12 Mar 22

19-Jul-21 A 23-Feb-22

04-Jan-22

04-Feb-22

18-Dec-21 29-Jun-21

8 98

22-Feb-22 06-Apr-22

Finish

Start

Dur 02V0 Start 02V0 Finish

WB TBM Tunnelling CH6665-6710 ATT/CDG 68m	(CDG 68m	16	16-Dec-21	31-Dec-21	10-Feb-22	25 Feb 22															
	5000	2				-															
WB TBM Tunnelling CH6710-6756 ALL/CDG 114m	/CDG 114m	7	01 Jan 22	07 Jan 22	26-Feb-22	04 Mar-22															
SUB-SEA TBM TUNNEL - EASTBOUND	ASTBOUND	124	19-Aug-21	18 Jan 22	06-Sep-21 A	13-Mar-22													SUB-SEATBM TUNNEL - EASTBC	IBM TUNNEL	- EASTBC
TBMAssembly		110	19-Aug-21	03 Jan-22	06-Sep-21 A	26-Feb-22			 	-								TBW/	TBM Assembly	 	
EB TBM 2nd Delivery		0		19-Aug-21		06-Sep-21 A					EB TBM 2nd Delivery	eliveny									
Lifting S5/S6/S4/Cross Beam		0			15-Sep-21 A	18-Sep-21 A					5	19 S5/S6/S4	Lifting S5/S6/S4/Cross Beam								
Main Drive with displacement Cylinder		0			22-Sep-21 A	25-Sep-21 A						Main Drive	with displace	Main Drive with displacement Cylinder							
Lifting S3/S7/S2/S8 & S1 Installation		0			27-Sep-21 A	12-Oct-21 A							S Guilling S	Lifting S3/S7/S2/S8 & S1 Installation	1 Installation						÷
Shield Bolts torquing & Interior Shiled Joint Welding	oint Welding	0			13-Oct-21 A	21-Oct-21 A							I	Shield Bolts to	Shield Bolts torquing & Interior Shiled Joint Welding	Shiled Joint	Welding				
Cutterhead Installation		0			26-Oct-21 A	26-Oct-21 A								■ Cutterhea	Outterhead Installation						
Cutterhead Connection to Shield		0			27-Oct-21 A	28-Oct-21 A								Cutterhe	Cutterhead Connection to Shield	to:Shield					
Shield Shifting		0			29-Oct-21 A	29-Oct-21 A								Shield Shifting	Shifting						
Erector Preparation & Installation		0			30-Oct-21 A	02-Nov-21								E.	Erector Preparation & Installation	& Installation					
Final Shield Joint Welding		0			02-Nov-21	07-Nov-21			 			 +			Final Shield Joint Welding	nt Welding	÷			 	
Lifting & Welding of Tailskin to Shield		0			02-Nov-21	28-Nov-21										Lifting &	ifting & Welding of Tailskin to Shield	skin to Shield			
Installation Welding Plate on Top S1		0			07-Nov-21	09-Nov-21									Installation Welding Plate on Top \$1	elding Plate	on Top \$1				
Shifting of TBM to B/I Location		0			28-Nov-21	30-Nov-21										Shifting	Shifting of TBM to B/I Location	Location			
Thrust Frame Installation		0			30-Nov-21	09-Dec-21							ļ 			1	Thrust Frame Installation	nstalation			
Gantry Rail Wall Installation		0			30-Nov-21	10 Dec 21			 			 +					■ Gantry Rail V	Gantry Rail Wall Installation	 		
Gantry 4 Assembly		0			10-Dec-21	13 Dec 21						 	 				Gantry 4 Assembly	ssembly			
Gantry 3 Assembly		0			13-Dec-21	15 Dec 21											Gantry?	Gantry 3 Assembly			
Gantry 2 Assembly		0			15-Dec-21	18-Dec-21											- Ganfr	■ Ganfry 2 Assembly			
Page 24 of 26	◆ Mestone	ľ	Summany										_			/	Date	Revision	Checked	H	Approved
Data Date: 30-Oct-21	Planned Bar			FD/7	FD/2018/04 Trunk Road T2	I Trim	K Ron	4 T2	n pu	and Infrastructure Works	Υ out	/orks					18-Dec-19	1000	WYu		
	Critical Activity] J	5) - -	1	5 (ו מסו מי	5				VOILE		22 Feb 20	01/0	SPa/LLo	MYu.	
	Actual Work				₽	tor Developments	əlopn	ents a	i Sou	at South Apron	َّ			TRAVAU	TRAVAUX PUBLICS		09-Apr-20	017/1	SPa/LLo	MYu.	

WB TBM Tunh

TBM:Tunnelling

Air / Water / Hydraulic Electrical Connections

■ Power On

Segment Feeding Installation

Gantry 2 Assembly

Ganfry 3 Assembly Gan'try 4 Assembly

Lifting & Welding of Tailskin to Shield

Installation Welding Plate on Top \$1

Erector Preparation & Installation Final Shield Joint Welding

1 1st Shifting of TBM | Shield:Shifting

Gantry Rail Wall Installation

Thrust Frame Installation

Gantry 1 Assembly

Testing & Commissioning ◆ S1281 WB TBM Break-in ◆ WB TBM Break-in

February 06 | 13 | 20 |

03 10 17 24 31 07 14 21 Shield Bolts forquing & Injerior Shiled Joint Welding:

Cutterhead Connection to Shield

Cutterhead Installation

Novembe

October

September

August

02-Oct-21 A 02-Oct-21 A

0 0 0 0 0 0 0 0

Shield Bolts torquing & Interior Shiled Joint Welding

Activity Name

Cutterhead Connection to Shield

Cutterhead Installation

04-0ct-21 A 12-0ct-21 A 14-Oct-21 A 14-Oct-21 A 14-Oct-21 A 14-Oct-21 A

12-Sep-21 A 01-Oct-21 A

Start

Dur 02V0 Start 02V0 Finish

21-Oct-21 A

19-Oct-21 A

22-Oct-21 A | 22-Oct-21 A

08-Nov-21 17-Nov-21

22-Oct-21 A

18-Nov-21

09-Nov-21 08-Nov-21

0

Lifting & Welding of Tailskin to Shield Installation Welding Plate on Top S1

Gantry Rail Wall Installation

Gantry 3 Assembly Gantry 2 Assembly

Gantry 4 Assembly

Thrust Frame Installation

Erector Preparation & Installation

1st Shiffing of TBM

Shield Shifting

Final Shield Joint Welding

0 0 0 0

21-Nov-21 23-Nov-21 26-Nov-21

18-Nov-21 21-Nov-21 28-Nov-21

0

23-Nov-21 26-Nov-21 28-Nov-21 01-Dec-21 10-Dec-21

01 Dec-21

10 Dec-21 11 Dec 21 24 Dec 21

24-Dec-21

11-Dec-21

0

Air / Water / Hydraulic Electrical Connections

Testing & Commissioning S1281 WB TBM Break-in

Power On

Segment Feeding Installation

Gantry 1 Assembly

04 Mar 22 09-Feb-22

01 Dec 21 01-Dec-21

01 Dec 21

15-Dec-21 07 Jan 22

WB TBM Tunnelling CH6642-6665 B/I Plug 23m

TBM Tunnelling WB TBM Break-in

24 Dec-21

17 Oct 21 A

15-Oct 21 A

Official Advist Planned Bar

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

Three Months Rolling Programme (Oct-21)



M⊀⊓ M⊀⊓ MYu WYu

WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo SPa/LLo

00V1 01V0 01V1 01V2 01//3

> 09-Oct-20 02-Jul-21 17-Jul-20

			•				
Reinstatement	8	24 Apr 21	31-May-21	19 Apr 21 A	13-Nov-21		Reinstatement
Section 8E Completion	0		31-May-21		13-Nov-21		◆ Section 8E:Completion
DRILL & BREAK TUNNEL [D&BR]	222	. 08-May-21	04-Feb-22	06-May-21 A	11-Apr-22		V DRILL & BREAKT
Precast Fabrication	72	08-May-21	03-Aug-21	06-May-21 A	13-Nov-21	▼ Precast Fabrication	
Precast Service Gallery - Mould Fabrication & Setup	24	08-May-21	05-Jun-21	06-May-21 A	16-Jul-21 A	Precast Service Gallery - Mould Fabrication & Setup	
Precast Service Gallery - Mass Production Start	0	07 Jun 21		17-Jul-21 A		◆ Precast Service Gallery + Mass; Production Start	
Precast Service Gallery	48	07 Jun 21	03-Aug-21	17-Jul-21 A	13-Nov-21		Predast Selvice Gallery.
Tunnel Excavation	214	1 06-JuF21	04-Feb-22	28-Jun-21 A	11-Apr-22		▼ Tunnel Excavation
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	9	06-JuF21	14-Aug-21	28-Jun-21 A	19-Oct-21 A	- E E	EB - D&Br Turnel - CH9055-9040/Type D - Excavation Top
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	88	15-Aug-21	22-Sep-21	20-Oct-21 A	01-Dec-21		EB - D&Br Tunnel - CH90#0-9025 Type D - Excavation Top
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	31-Oct-21	10-Jan-22		EB - D&Br Tumpel - CH9055-9020 Type D
Probe hole at CH9025	_	23-Sep-21	23-Sep-21	02-Dec-21	02-Dec-21		I Probe hale at CH9025
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	4	24 Sep-21	02-Nov-21	03-Dec-21	11-Jan-22		EB - D&Br Turnel - OH902\$-9010, Type D
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	99	07-Dec-21	04-Feb-22	11 Jan 22	11 Mar 22		
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	89	03-Nov-21	11-Dec-21	12 Jan 22	19-Feb-22		
Probe hole at CH8995	_	12-Dec-21	12-Dec-21	20-Feb-22	20-Feb-22		
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	22	13-Dec-21	31 Jan 22	21-Feb-22	11-Apr-22		
DRILL & BLAST TUNNEL [D&BL]	332	14-Jan-21	28-Feb-22	05-Apr-21 A	01-Apr-22		
Tunnel Excavation	286	14-Jan-21	31-Dec-21	05-Apr-21 A	07-Feb-22		Tunel Excavation
Eastbound	176	3 02 Jun 21	31-Dec-21	13-Apr-21 A	07-Feb-22		Eastbound
Full Face Drill & Blast	176	3 02 Jun 21	31-Dec-21	13 Apr 21 A	07-Feb-22		Y Full Face Drill & Blast
EB - D&B Tunnel - CH9088-9055 Type D - Excavation	26	02-Jun-21	03-Jul-21	13-Apr-21 A	25-Jun-21 A	EB -D&B Tunnel - CH9088-9055 Type D - Excavation	
EB - D&B Tunnel - CH9160-9055 Type B/C/D - Enlargement	02	06-Jul-21	25-Sep-21	18-Jun-21 A	13-Sep-21 A	- EB D&B Jume - CH916	EB - D&Bl Tunnel - CH9/160-9055 Type BIQ/D - Enlargement
Probe hole at CH9055	-	05-JuF21	05-Jul-21	26-Jun-21 A	26-Jun-21 A	Probe hole at CH9055	
EB - D&B Tunnel - Branch Tunnel S01	78	27 Sep-21	30-0ct-21	01-Nov-21	02-Dec-21		EB - D&B Túnnel - Branch Tunnel 501
Page 25 of 26 $\qquad \qquad \qquad$		Summany					Kevision
Data Date: 30-Oct-21			ED/	2018/0	4 Trun	ED/2018/04 Trunk Road T2 and Infrastructure Works	22-Feb-20 01V0 SPa/LLo WYu
◆ Actual Mestone				_	or Dev	for Develonments at South Anron	01V1 SPa/LLo
Actual Work				-	<u>.</u>		17-Jul-20 01V2
Consulter Washung Basefine Bar				Three	Mont	Three Months Rolling Programme (Oct-21)	01V3 SPa/LLo
							UZ-JUFZI UZVU SPAILLO WYU

Concr CP Preca

Fabrication / Refurbishment

Design

30-Jul-21 01-Jun-21 A 30-Jul-21 A

05-May-21

28 Dec 21 26 Jan 22 19 Mar 22 19-Feb-22 19 Mar 22

29-Nov-21

22-Feb-22

22 Jan 22

74

31-Dec-21

15-Feb-22 14 Jan 22

26 Nov 21 23-Feb-22

31-Dec-21* 21-Feb-22

26-Nov-21

8

15-Feb-22

29-Dec-21

22-Mar-22

27-Nov-21

21 Jan 22

144 22

22-Mar-22

05-May-21 31 Jul 21

564

ng Road Junction

13-Nov-21

19-Apr-21 A

31-May-21

Wai Yip Street / Cha Kwo Ling Road Junction

CHA KWO LING ROAD WORKS

CP Precast Lining Segment - Mould Fabrication & Setup

Concrete Mix - Plant Trial

Delivery of TBM components to the Site CP Precast Lining Fabrication 31-May-21 19-Apr-21 A 13-Nov-21

December

Novembe

October

September

August 08 | 15 | 22 |

19-Dec-21

Finish

Start

Dur 02V0 Start 02V0 Finish

22-Dec-21

19-Dec-21 22-Dec-21 03-Jan-22

0 0

Air / Water / Hydraulic Electrical Connections

Testing & Commissioning S1282 EB TBM Break-in

Power On

Segment Feeding Installation

Gantry 1 Assembly

02-Jan-22 04 Jan 22 17-Jan-22 17-Jan-22

04 Jan 22

0 0 13 Mar 22 13 Mar 22 19-Mar-22 26-Jan-22

26-Feb-22

18 Jan 22

03-Jan-22 03-Jan-22

26-Feb-22

10-May-21 A 10-May-21 A 10-May-21 A

22-Mar-22

SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a 264 05-May-21

EB TBM Tunnelling CH6640-6665 B/I Plug 25m

TBM Tunnelling

EB TBM Break-in

CP TBM Design / Fabrication / FAT / Delivery

Fabrication / Refurbishment

Design FAT

26-Feb-22

18-Jan-22

■ Air (Water / Hydraulic Electrical Connections

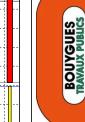
Gantry 1 Assembly

Power On

Testing & Commissioning

◆ S1282 EB TBM Break-in

TBM Tunnelling



	FB - D&BI Tinnel - Branch Tunr	ranch Tunr
	1	-
	Date	Revi
	18-Dec-19	1000
	22-Feb-20	0110
JYGUES	09-Apr-20	01V1
UX PUBLICS	17-Jul-20	01V2
	09-Oct-20	01V3
	02-Jul-21	0200

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10 144-101 154-042							≥ •	/estbound			 						
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98 Cub, Aug 1 Chu, Aug 2					WB D&		58-9138 Type /	- Excavation			 						
1.											WB - D&BI Tunn	- CH9258,91	8 SG Excavat	, Lo			
24 Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez Changez				10-Mar-22			L				 					-	Tunite Structure
27 Guanza Dario Control <				27-Nov-21					 				B - D&BI Tunne	I - CH9258-913	8 Type A SG	nstallation	
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88 Schlanz Ge-Feb-Z Feb-Ge-F Debe Z Feb-Ge-F Debe Z Debe				07-Mar-22							 				-		
49 G-Dec 2 11 Aura				10-Mar-22							 						
24 06-Dec-21 16-Jan-22 16-Ja				10-Mar-22							 						Tunipel Structure
18 Gb-lan 22 Gb-feb 22 Ti-feb 22 Ti-feb 23 Ti-fe				10-Feb-22							 				ł		EB D&BITU
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46 G6-Jul 21 25-Jul 21 26-Jul 22 26-Ju					l												
46 GS-July21 28-July22 28-Feb-22 08-Feb-22 08-Fe					l	E .				ļ	 						
46 G0-Jan-Z2 C9-Feb-Z2 O1-Apr-Z2 O1-Ap						1					 	CP31 - D8	Bl Excavation 1	6.7m			
46 GS-Jan-22 GS-Feb-22 GB-Feb-22 GF-Feb-22 GF-Feb-22 GF-Feb-22 GF-Feb-23 GF-Fe				01 Apr 22							 			•	-		
166 10. Sep 21 21. Main-22 (3. Main-22) 31. Main-22 (3. Main-22)				01 Apr 22							 						
66 10.5ep-21 29-Nov-21 13-Mar-21 A 69-be-21 7-Mar-21 A 69-be-21 B 7-Mar-21 A 7-Mar-21 B																	
66 10-Sep-21 29-Nov-21 13-Mar-21 Allar-22 31-Mar-21 Allar-22 31-Mar-22 Allar-22 31-Ma											 		Excavation				
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90 30-Nov.21 21-Mar-22 14-Mar-22 13-Mar-22 13-Ma				31-Mar-22		 					 	•					
12 30 Nov.21 13-Dec.21 10-Dec.21 20-Dec.21 10-Dec.21 10-De				31-Mar-22							 						
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60 07-Jan-22 18-Jan-22 18-Ja				17-Jan-22							 			-	1-	VB - WB Drain	age & Blinding
50 17.Sep-21 17.Nov-21 06-Jan-22 07-Mar-22 O7-Mar-22 O7-Ma				31-Mar-22							 						
Figure 50 17-Sep-21 17-Nov-21 05-Jan-22 07-Mar-22 07				07 Mar 22		 			ļ.			■ TUNNEL E	&M INSTALLAT	ON & COMMIS	SSIONING		
Indition 6 17-Sep-21 06-Jan-22 11-Jan-22 Adain-10-limit Supply Installation 36 25-Sep-21 12-Jan-22 25-Jan-22 25-Jan-				07-Mar-22							 	▼ TKO-LTT	dmin Building				
36 26-Sep-21 108-Nov-21 12-Jan-22 25-Feb-22 12 25-Sep-21 08-Nov-21 12-Jan-22 25-Jan-22 25-Jan-22 24 11-Oct-21 08-Nov-21 25-Jan-22 25-Feb-22 8 09-Nov-21 26-Feb-22 07-Mar-22				11-Jan-22					- <mark> </mark>		 				Materia	al Delivery	
12 25-Sep-21 12-Jan-22 25-Jan-22 25-				25-Feb-22						-	 -				-	1	-
24 11-Oct-21 08-Nov-21 26-Jan-22 25-Feb-22				25 Jan 22							 				-	i	Power Supply Inst
24 11-Oct-21 08-Nov-21 26-Jan-22 25-Feb-22				25-Feb-22		 				 						I	1
8 09-Nov-21 17-Nov-21 26-Feb-22				25-Feb-22													
				07-Mar-22							 1	 					

| Value | August | September | October | November | December | Dec

Dur 02V0 Start 02V0 Finish Start Finish July

51 01-Nov-21 31-Dec-21 03-Dec-21 07-Feb-22

EB - D&BI Tunnel - CH9240-9055 - Bench Excavation & SG

Activity Name

 ♦
 MAsstore

 Planned Bar
 OrizalA daity

 ♦
 Actual Misstore

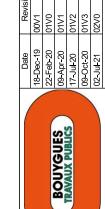
 Actual Work
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 Stassele (Misstore
 Bassele (Misstore

 Bassele Bar
 Bassele Bar

Page 26 of 26 Data Date: 30-Oct-21

ED/2018/04 Trunk Road T2 and Infrastructure Works Three Months Rolling Programme (Oct-21) for Developments at South Apron



Approved

Checked

Revision

MYu MWu WYu

WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo SPa/LLo

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