Civil Engineering and Development Department

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

Monthly Environmental Monitoring and Audit Report for August 2021

(version 1.0)

Approved By	June -
-	(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_0254L.21

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

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for August 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 17 September 2021. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

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

Y H Hui Independent Environmental Checker

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 16th 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 August 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
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - East Ventilation Building excavation
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Construction Noise

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

Air Quality

• Regularly watering on site to avoid dust generation.

Landscape and Visual

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

Environmental Monitoring Works

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

Table 1 Non-compliance (exceedance) Record for the Project in the Reporting Month					
Environment al Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken
0	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

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

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

Air Quality Monitoring

- 6. No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- 7. No 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	Event Details		Action Taken	Status	
Event	Number	Nature	Action Taken	Status	
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 (September 2021)	Key Environmental Issues
 West bound- RC Structure Construction Branch Tunnel Drill & Blast 	(A) / (B) / (C) / (D)

Note:

(A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;

(B) Noisy construction activity such as rock-breaking activities and piling works;

 $(C) \;\; Runoff from exposed slope or site area; and$

(D) Wastewater and runoff discharge from site.

1 INTRODUCTION

Background

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

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

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

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

- Monthly EM&A Report August 2021
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project").

Purpose of the Report

1.6 This is the 16th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in August 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)
- 1.8 The key contacts of the Project are shown in **Table 1.1**.

Table 1.1	Key Froject Contacts		
Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Mr. Joe Nam	5183 0830
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan	5185 4462

Table 1.1Key Project Contacts

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

Construction Activities undertaken during the Reporting Month

- 1.10 The major site activities undertaken in the reporting month included:
 - West bound Drill & Blast Tunnel, Service Gallery Drill & Blast, Service Gallery A Installation
 - East bound type C Bench Drill & Blast, Drill & Break Tunnel
 - East bound Enlargement Drill & Blast
 - CKL Junction Reinstatement works
 - East Ventilation Building excavation

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in August 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

	Valid Period		States		
Permit / License No.	From	То	Status		
Environmental Permit (EP)					
EP-451/2013	19 Sep 2013	N/A	Valid		
EP-458/2013/C	20 Jan 2017	N/A	Valid		
Notification pursuant to Air Pollution (Cons	truction Dust) F	Regulation	•		
Ref. No.: 451120	20 Nov 2019	N/A	Valid		
Billing Account for Construction Waste Disp	osal				
A/C No.: 7036016	09 Dec 2019	N/A	Valid		
Construction Noise Permit	-				
CNP No. (For Portion T1): GW-RE0399-21	05 May 2021	04 Aug 2021	Expired on 04 Aug 2021		
CNP No. (For Portion T1): GW-RE0702-21	04 Aug 2021	03 Sep 2021	Valid		
CNP No. (For Portion Q): GW-RE0251-21	24 Mar 2021	23 Sep 2021	Valid		
CNP No. (For Junction of Cha Kwo Ling Road and Wai Yip Street): GW-RE0689-21	27 Jul 2021	31Aug 2021	Expired on 31 Aug 2021		
Wastewater Discharge License					
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid		
Chemical Waste Producer License					
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid		

2 AIR QUALITY

Monitoring Requirement

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

Monitoring Locations

2.2 Five designated monitoring stations were selected for air quality monitoring programme. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.

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

Table 2.1 Air Quality Monitoring Locations

Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

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

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

Monitoring Parameters and Frequency

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

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

Monitoring Equipment

2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-173/2013), Section 2.3.1, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured

by direct reading method.

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

Table 2.5 All Quanty Monitoring Equipment				
Equipment	Model	Quantity		
	Sibata Model No. LD-5R			
1-hour TSP Dust Meter	(Serial No.: 8Y2373, 8Y2374, 972781,	6		
	972780, 972778,972779)			
	TISCH Model: TE-5170 (Serial No.: 1536)	1		
HVS Sampler	GMW model: GS2310	2		
-	(Serial No.: 1287, 10379, 10599)	3		
Calibrator	TISCH Model: TE-5025A	1		
Calibrator	(Serial No.: 3864)	1		
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1		
wind Anemonieter	(Serial No.: MC01010A44)	1		

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

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

Operating/analytical procedures for the operation of HVS

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

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- 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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.12 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. The detail of exceedance is shown in **Appendix N**.
- 2.16 No Action/ Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

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

 Table 2.4
 Major Dust Source during Air Quality Monitoring

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions (with the assessment height of 1.5 mAG) in Table 3.17 of EIA Report, AEIAR-173/2013 (as approved in 2013) as summarised in Table 2.5 and Table 2.6.

 Table 2.5
 Comparison of 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/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (August 2021), µg/m ³
AM1 – Tin Hau Temple	CL1	707	92.4
AM2 – Sai Tso Wan Recreation Ground	CL6	266	57.2
AM3 – Yau Lai Estate Bik Lai House	CL9	507	93.6
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	61.6

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 (August 2021), µg/m ³
AM1 – Tin Hau Temple	CL1	199	95.1
AM2 – Sai Tso Wan Recreation Ground	CL6	109	48.7
AM3 – Yau Lai Estate Bik Lai House	CL9	123	53.0
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office ^(*)	N/A ⁽¹⁾	N/A ⁽¹⁾	57.1

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

Remarks:

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

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

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

3 NOISE

Monitoring Requirements

3.1 According to Section 3.2.1 of the EM&A Manual (AEIAR-173/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Noise monitoring was conducted at five designated monitoring stations, namely CM1, CM2, CM3, CM4 and CM5 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.

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

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

 Table 3.2
 Frequency and Parameters of Noise Monitoring

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

Monitoring Equipment

3.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used by the ET for Agreement No. CE 59/2015 (EP) within the reporting period. Copies of calibration certificates are attached in **Appendix B**.

Table 5.5 Roise Monitoring E	Authuru	
Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial No.: 570183, 570187, 570188)	3
Calibrator	ST-120 (Serial No.: 181001637, 181001608, 181001636)	3

Table 3.3Noise Monitoring Equipment

Monitoring Methodology and QA/QC Procedure

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

Maintenance and Calibration

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

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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	
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	15
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**.

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 (August 2021), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	73.5
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	74.9
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	74.8
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	68.2
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	68.8

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

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.

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

9 LANDSCAPE AND VISUAL IMPACT

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

10 LANDFILL GAS MONITORING

Monitoring Requirement

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

11 HAZARD TO LIFE

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

12 ENVIRONMENTAL AUDIT

Site Audits

- 12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 12.2 Site audits were conducted on 05, 12, 20 and 26 August 2021 in the reporting month. Site inspection of the IEC was conducted on 05 August 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.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	26 Aug 2021	Contractor is reminded to spray water on potential dust generated areas	To be followed up in the next reporting period.
Noise	12 Aug 2021	Noise barriers were not erected properly.	Noise barriers were repaired and erected properly.
Water Quality	N/A	There was no observation in the reporting period. N/A	
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

• 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
 - Branch Tunnel Drill & Blast

14.3 Key environmental issues in the coming months include:

- Make sure noise mitigation measures are implemented accordingly; and
- Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain.

Monitoring Schedule

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

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

14.5 This is the 16th 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

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

Recommendations

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

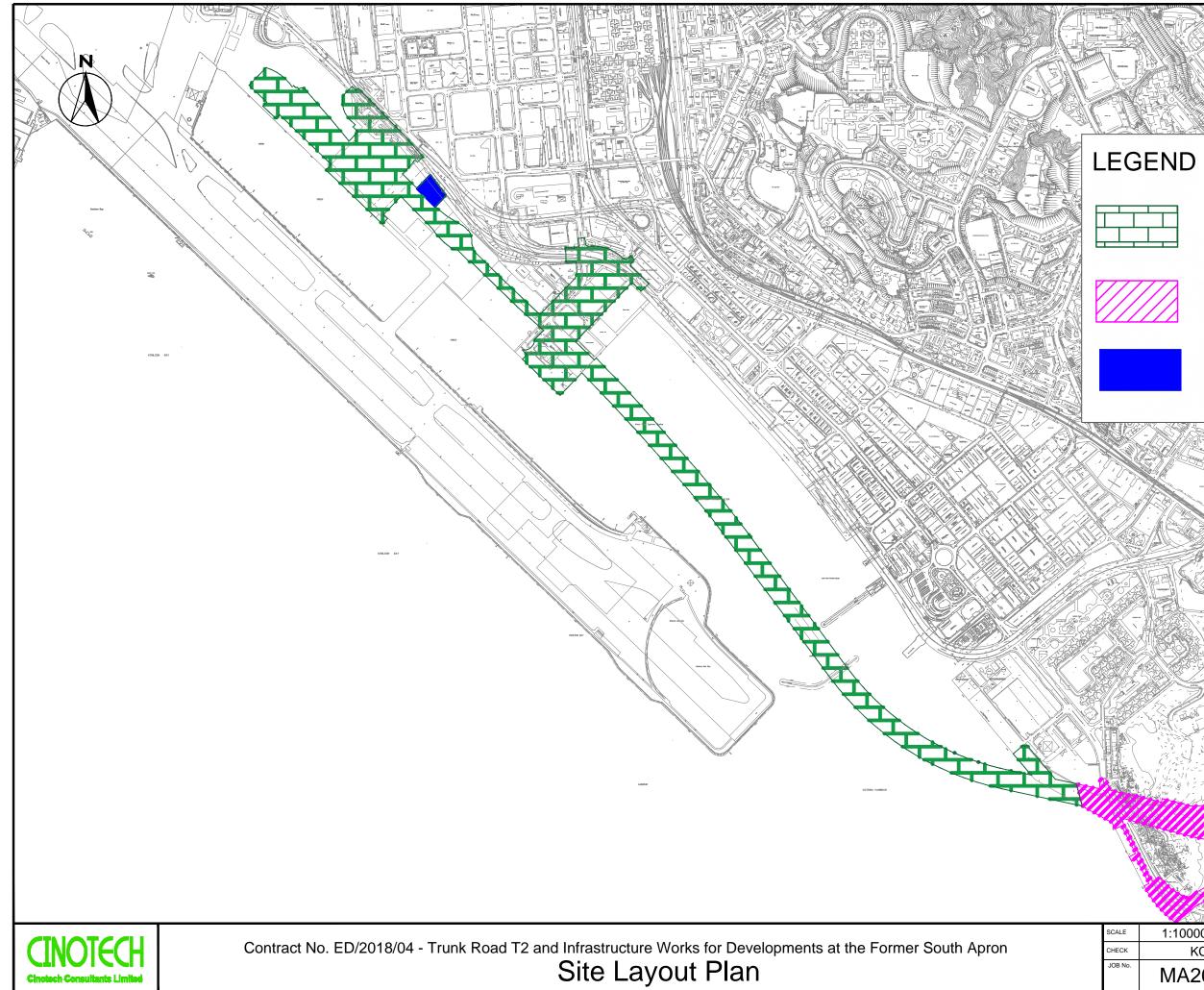
.Construction Noise Impact

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

Air Quality

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

FIGURES



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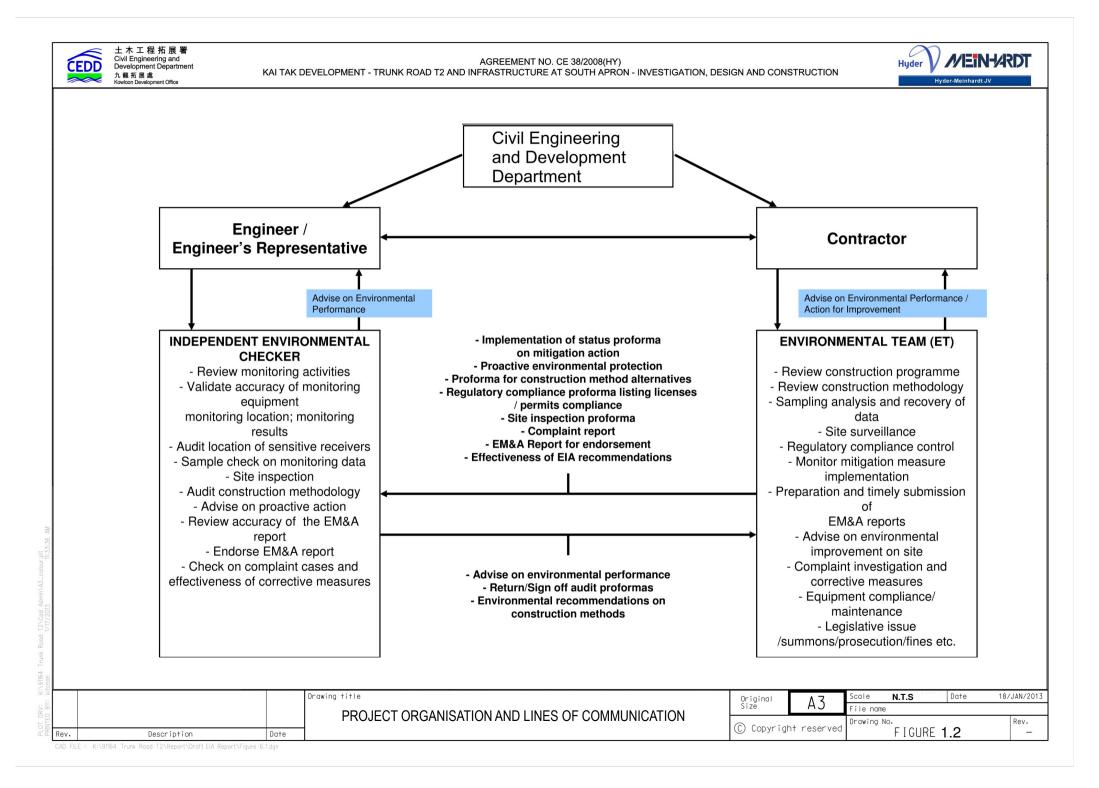
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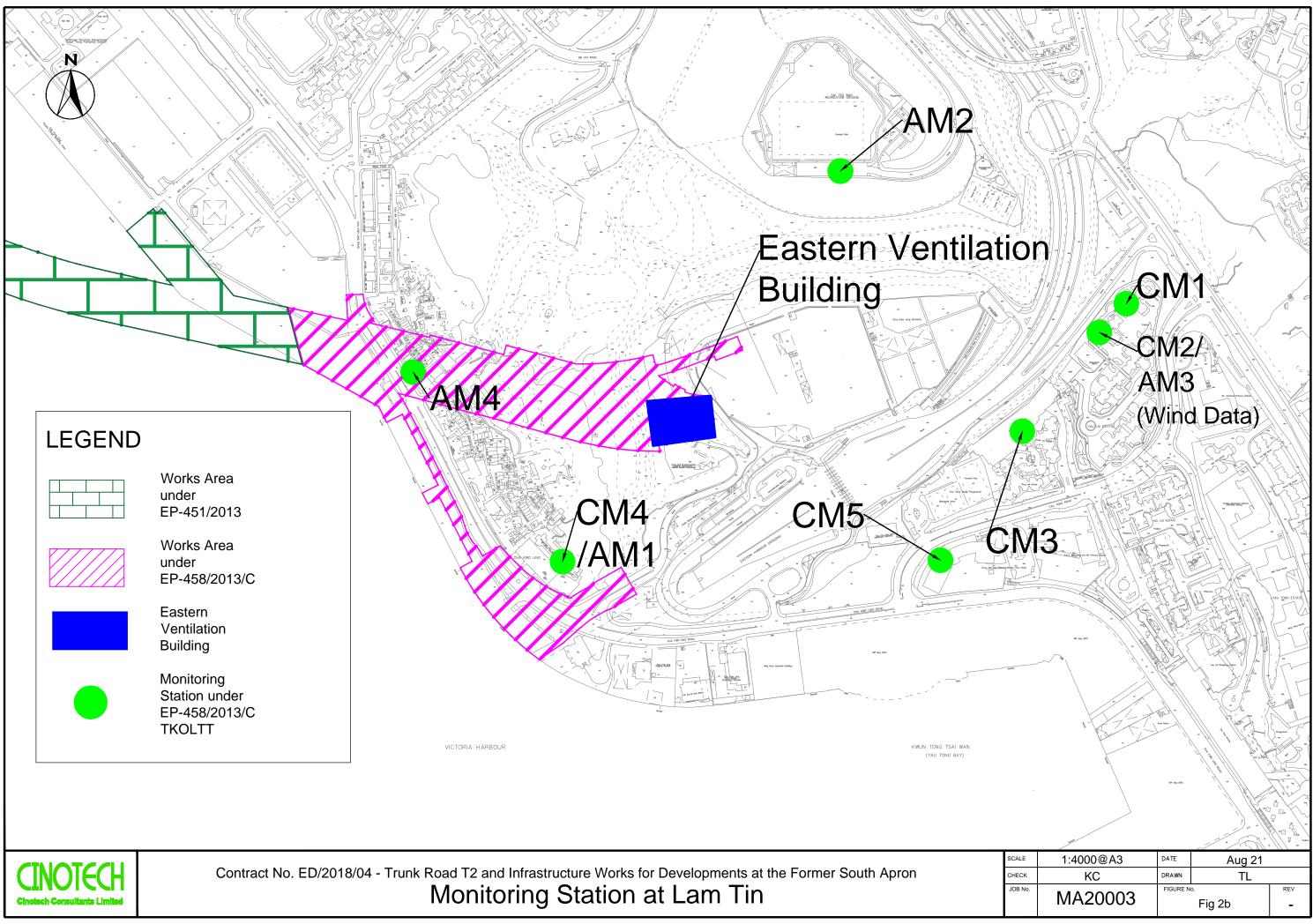
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

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

24-hr TSP

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

<u>Noise</u>

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

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

Landfill Gas Monitoring

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES



Certificate of Calibration - Wind Monitoring Station

<u>e</u>
•

1. Performance check of Wind Speed

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

2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

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



Certificate of Calibration - Wind Monitoring Station

Yau Lai Estate, Bik Lai House
Davis Instruments
<u>Davis7440</u>
<u>MC01010A44</u>
<u>SA-03-04</u>
<u>20-Feb-2021</u>
<u>20-Aug-2021</u>

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.6	-0.1
2.5	2.5	0.0
3.5	3.4	0.1

2. Performance check of Wind Direction

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

Test Specification:

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





Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11	, 2021 Rootsmeter S/N: 438320		438320	Ta: 297		°К	
Operator:	Jim Tisch					Pa:	750.1	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	3864			
								1
		Vol. Init	Vol. Final	ΔVol.	∆Time	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(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 Tabula	tion]
			/ / Pa	V Tetd)				
	Vstd	Qstd	√ ^{∆H} (Pstd)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9860	0.6814	1.40		0.9957	0.6881	0.8899	
	0.9818	0.9616	1.99	02	0.9915	0.9711	1.2585	1
	0.9797	1.0719	2.22	51	0.9893	1.0824	1.4071	1
	0.9786	1.1288	2.33	37	0.9883	1.1399	1.4757	1
	0.9732	1.3630	2.814	46	0.9828	1.3765	1.7798	
		m=	2.065	566		m=	1.29348	
		b=	0.003	815	QA	b=	0.00199	
		r=	0.999	96		r=	0.99996	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP))/Pstd)(Tstd/Ta	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$		-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd						RECA	LIBRATION	
Pstd	760	mm Hg						400
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-
		ter reading (i					Regulations Part	
		eter reading perature (°K)					, Reference Meth	
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m: slope								

isch Environmental, Inc. 45 South Miami Avenue illage of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	2-Aug-21
Manufacturer:	Sibata Scientific Technology LTD.	_	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 Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitivi	ty Adjustment	734 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	,		HVS	
Point	Mass Concentration (µg/n	m3)	Mas	ss concentration (µ	g/m ³)
	X-axis		Y-axis		
1	66.0			131.0	
2	57.0			125.0	
3	46.0			116.0	
Average	56.3			124.0	
By Linear Regr Slope , mw = Correlation co	ession of Y on X 	Interc	eept, bw =	81.6096	
	Set	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler (μ g/m ³)		$\mu g/m^3$)		124.0	
Particaulate Concentration by Dust Meter (µg/m ³)				56.3	
Measureing time, (min)				60.0	

Set Correlation Factor, SCF

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

In-house method in according to the instruction manual:

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

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

Calibrated by:

Technical Officer (Wong Shing Kwai)

Approved by: len they Project Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date of Calibration		1-Jun-21
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibration Record1		1-Aug-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	ity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	734 CPM	
	Cal	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/1 X-axis	m3)	Mas	s concentration (μ Y-axis	g/m ³)
1	69.0		146.0		
2	60.0		139.0		
3	48.0		130.0		
Average	59.0			138.3	
By Linear Regr Slope , mw = Correlation co	ression of Y on X <u>0.7613</u> pefficient* = <u>0.9999</u>		ept, bw =	93.4189	
	Set	t Correlation Fa	ictor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)		$(\mu g/m^3)$		138.3	
Particaulate Concentration by Dust Meter ($\mu g/m^3$)				59.0	
Measureing time	e, (min)			60.0	
Set Correlation I	Factor, SCF				

In-house method in according to the instruction manual:

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

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

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

Calibrated by:	tol.

Technical Officer (Wong Shing Kwai)

Approved by:	-lem thay
Project I	Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator	Date of Calibration 2-Au		2-Aug-21	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calib	ration Record	2-Oct-21
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	739 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivit	ty Adjustment	739 CPM	
	Ca	libration of 1 hi	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/	m3)	Mass concentration ($\mu g/m^3$)		g/m^3)
	X-axis		Y-axis		
1	56.0			131.0	
2	53.0			125.0	
3	47.0			116.0	
Average	52.0		124.0		
By Linear Regression of Y on X Slope , mw = 1.6429 Intercept, bw = 38.5714					
Correlation coefficient* = 0.9972					
	Se	t Correlation Fa	actor		
Particaulate Con	centration by High Volume Sampler (-		124.0	
Particaulate Concentration by Dust Meter ($\mu g/m^3$)				52.0	

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

In-house method in according to the instruction manual:

Measureing time, (min)

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:

Technical Officer (Wong Shing Kwai)

Approved by: Project Manager (Henry Leung)

60.0



Certificate of Calibration

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

Description:	Digital Dust Indicator	E	Date of Calibration	1-Jun-21
Manufacturer:	Sibata Scientific Technology LTD.	Validity of C	alibration Record	1-Aug-21
Model No.:	LD-5R			
Serial No.:	972780			
Equipment No.:	SA-01-09	Sensitivity 0.001 mg/m	13	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustmer	nt 739 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	739 CPM	
	Cal	libration of 1 hr TSP		
Calibration	Laser Dust Monitor		HVS	
Point	Mass Concentration (µg/1 X-axis	m3)	Mass concentration (µg/r Y-axis	n ³)
1	59.0		146.0	
2	54.0		139.0	
3	49.0		130.0	
Average	54.0		138.3	
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Intercept, bw =	51.9333	
	Set	t Correlation Factor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)		$\mu g/m^3$)	138.3	
Particaulate Concentration by Dust Meter (µg/m ³)			54.0	
Measureing time	e, (min)		60.0	
Set Correlation I	Factor, SCF			

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

In-house method in according to the instruction manual:

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

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

Calibrated by:	tol.

Technical Officer (Wong Shing Kwai)

Approved by:	-leng thay
Projec	Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	2-Aug-21		
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	2-Oct-21		
Model No.:	LD-5R						
Serial No.:	972779						
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3				
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	744 CPM			
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ity Adjustment	744 CPM			
	Cal	libration of 1 h	r TSP				
Calibration Laser Dust Monitor			HVS				
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (µg/m ³) Y-axis				
1	60.0		131.0				
2	55.0		125.0				
3	48.0			116.0			
Average	54.3			124.0			
	By Linear Regression of Y on X Slope , mw = 1.2523 Intercept, bw = 55.9587						
Correlation co			····				
	Set	t Correlation F	actor				
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			124.0				
Particaulate Concentration by Dust Meter (µg/m ³)			54.3				
Measureing time, (min)		60.0					

Set Correlation Factor, SCF

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

In-house method in according to the instruction manual:

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

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

Calibrated by:

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	1-Jun-21	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	1-Aug-21	
Model No.:	LD-5R					
Serial No.:	972779					
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3			
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	744 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	744 CPM		
Calibration of 1 hr TSP						
Calibration	Laser Dust Monitor			HVS		
Point	Mass Concentration (µg/m3) X-axis		Mass concentration ($\mu g/m^3$)			
1				Y-axis		
1 2	63.0 58.0			146.0		
3	51.0			139.0		
Average	57.3			130.0		
				10000		
By Linear Regr	ression of Y on X					
Slope , mw =	1.3303	Interc	cept, bw =	62.0642	2	
Correlation co	oefficient* = 0.9997					
		t Correlation F	actor			
Particaulate Concentration by High Volume Sampler (µg/m ³)			138.3			
Particaulate Concentration by Dust Meter (µg/m ³)			57.3			
Measureing time	e, (min)		60.0			

Set Correlation Factor, SCF

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

In-house method in according to the instruction manual:

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

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

Calibrated by:	tal
Technical	Officer (Wong Shing Kwai)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	2-Aug-21
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration 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.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	· HVS			
Point	Mass Concentration (µg/m3)		Mass concentration (µg/m ³) Y-axis		
	X-axis				
1	61.0		131.0		
2	56.0		125.0		
3	48.0			116.0	
Average	55.0		124.0		
By Linear Regression of Y on X Slope , mw = 1.1512 Intercept, bw = 60.6860					
Correlation co	oefficient* = 0.9998				
		t Correlation F	actor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			124.0		
Particaulate Concentration by Dust Meter (µg/m ³)			55.0		
Measureing time, (min)			60.0		

Set Correlation Factor, SCF

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

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: Kenny Xnon7

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator	Date	of Calibration	1-Jun-21	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	oration Record	1-Aug-21	
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity 0.001 mg/m3	_		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	735 CPM		
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	735 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (µg/	m3) Ma	Mass concentration ($\mu g/m^3$)		
	X-axis		Y-axis		
1	62.0		146.0		
2	57.0		139.0		
3	49.0		130.0		
Average	56.0		138.3		
	ression of Y on X				
Slope, mw =	1.2209	Intercept, bw =	69.9612		
Correlation co	Defficient * = 0.9982				
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler (<u> </u>	138.3		
	centration by Dust Meter ($\mu g/m^3$)	(ro))	56.0		

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

In-house method in according to the instruction manual:

Measureing time, (min)

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:	tal	
	170	

Technical Officer (Wong Shing Kwai)

Approved by:	-lemo don
Project	Manager (Henry Leung)

60.0



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date of	f Calibration	2-Aug-21
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibra	tion Record	2-Oct-21
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	657	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	657	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/	m3)	Mass concentration ($\mu g/m^3$)		g/m ³)
	X-axis		Y-axis		
1	57.0			131.0	
2	51.0		<u> </u>	125.0	
3	45.0			116.0	
Average	51.0			124.0	
By Linear Regression of Y on X Slope , mw = <u>1.2500</u> Inter Correlation coefficient* = <u>0.9934</u>			cept, bw =	60.2500	
		t Correlation F	actor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			124.0		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)		51.0			
Measureing time, (min)			60.0		
Set Correlation	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3)]	2.4		

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: -leng thoy Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date (of Calibration	1-Jun-21
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibra	ation Record	1-Aug-21
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	657	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivi	ity Adjustment	657	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/	m3)	Mass concentration ($\mu g/m^3$)		g/m^3)
	X-axis		<u> </u>	Y-axis	
1	59.0		<u> </u>	146.0	
2	53.0		ļ	139.0	
3	47.0		<u></u>	130.0	
Average	53.0		<u> </u>	138.3	
By Linear Regression of Y on X Slope , mw = <u>1.3333</u> Int Correlation coefficient* = <u>0.9974</u>			cept, bw =	67.6667	
		t Correlation F	actor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			138.3		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)		53.0			
Measureing time	e, (min)		60.0		
Set Correlation I	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3)]	2.6		

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:	to/	

Technical Officer (Wong Shing Kwai)

Approved by:	-lemy drag
Projec	Manager (Henry Leung)



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	2-Aug-21
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	2-Oct-21
Model No.:	LD-5R				
Serial No.:	<u>8Y2374</u>				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	652	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	652	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μ g/m3)		Mass concentration ($\mu g/m^3$)		
	X-axis			Y-axis	
1	67.0			131.0	
2	61.0			125.0	
3	53.0			116.0	
Average	60.3			124.0	
By Linear Regression of Y on X Slope , mw = <u>1.0743</u> Inte Correlation coefficient* = <u>0.9995</u>			ept, bw =	59.1824	
	Se	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler $(\mu g/m^3)$		124.0			
Particaulate Concentration by Dust Meter ($\mu g/m^3$)		60.3			
Measureing time, (min)			60.0		
Set Correlation I	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (µ	g/m3)]	2.1		

In-house method in according to the instruction manual:

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

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

Calibrated by:

Approved by: -leng thoy Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

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

Description: Digital Dust Indicator			Date	of Calibration	1-Jun-21
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibration Record 1-Aug-2			1-Aug-21
Model No.:	LD-5R				
Serial No.:	8Y2374				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	652	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	652	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/m3)		Mass concentration ($\mu g/m^3$)		g/m^3)
	X-axis		Y-axis		
1	68.0		146.0		
2	62.0			139.0	
3	54.0		130.0		
Average	61.3			138.3	
By Linear Regression of Y on X			cept, bw =	68.2973	
	Se	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler $(\mu g/m^3)$			138.3		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)			61.3		
Measureing time, (min)				60.0	
Set Correlation I	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/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)

Approved by:	-leng thay
Project	Managar (Hanry Laung)

Project Manager (Henry Leung)



0025248

Customer :		Object 1 :	ST-120 sound calibrator
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001637
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : Sou	ndtek
Date of calibration:	05/11/2020	Certificate No .:	0025248
Date of the recommended re-calibration:	05/11/2021	Handle by:	E0002

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5.The calibrations certificate may not be reproduced.

 Measured value(s) within
 the allowable deviation.

 Performed by
 Approved by

 Calibration Technician
 Mr. K.L. Ng

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



0025249

Customer: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 :ST-120 sound calibratorSerial No. /Ref. No. :181001636Object 2 :Serial No. /Ref. No. :	
Customer Code : SVEC09005 Date of calibration: 0)5/11/2020)5/11/2021	Manufacturer : Sour Certificate No.: Handle by:	ndtek 0025249 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

Measuring equipment

index	index Calibrator / Master	
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		Approved by
ar		L
Calibration Technician	Mr. K.L. Ng	Quality Manager
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong S	t, KIn, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393



0025247

Customer :		Object 1 :	ST-120 sound calibrator
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001608
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : Sour	ndtek
Date of calibration:	05/11/2020	Certificate No .:	0025247
Date of the recommended re-calibration:	05/11/2021	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

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	e allowable deviation		
Performed by	1		Approved	ьу
	at		L	~ ``
Calibration Technicia	an	Mr. K.L. Ng	Quality Ma	nager
Appleone Calibration Lat	poratory Ltd. Rm	1309, 13/F, No.77 Wing Hor	ng St, Kln, HKSAR	Tel: +852 2370 4437 Fax: +852 2114 0393



0024996

Customer :		Object 1 : BSWA 308 SLM		
Cinotech Consultants Limited		Serial No. /Ref. No. : 570188 / 550850		
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : BSWAtech		
Date of calibration:	07/10/2020	Certificate No.: 0024996		
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002		

Measuring results

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

Measuring equipment

index	index Calibrator / Master		
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					
le/5		Mr. K.S. Ng					
Calibration Technician	Mr. K.L. Ng	Quality Manager					
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong St	i, Kin, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393					



0024995

Customer :		Object 1 : BSWA 308 SLM		
Cinotech Consultants Limited		Serial No. /Ref. No. : 570187 / 550841		
RM 1710, Technology Park,		Object 2 :		
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.		
Hong Kong				
Customer Code : SVEC09005		Manufacturer : BSWAtech		
Date of calibration:	07/10/2020	Certificate No.: 0024995		
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002		

Measuring results

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

Measuring equipment

index	index Calibrator / Master Traceabilit	
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)

Calibration Technician

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

Quality Manager

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

Mr. K.L. Ng

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



0024993

Customer :		Object 1 : BSWA 308 SLM
Cinotech Consultants Limited		Serial No. /Ref. No. : 570183 / 550233
RM 1710, Technology Park,		Object 2 :
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :
Hong Kong		
Customer Code : SVEC09005		Manufacturer : BSWAtech
Date of calibration:	07/10/2020	Certificate No.: 0024993
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002

Measuring results

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

Appleone Calibration Laboratory Ltd.

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

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.

Performed by
Calibration Technician Mr. K.L. Ng

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



File No. MA16034/54/0031

Project No.	AM4(A) - Cha	Kwo Ling Pub	_			
Date:	Date: 10-Aug-21		Next Due Date:	10-Oct-21	Operator:	SK
Equipment No.:	Equipment No.: A-01-54		Model No.: TE-5170		Serial No.	1536
			Ambient Conditio	on		
Temperatu	Temperature, Ta (K)302Pressure, Pa (mmHg)754.3					
		(Duifias Tuansfor Standard 1	Information		

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313		
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	11-Jan-22		Qstd = {[∆H x	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.4	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
4	5.6	2.34	40.11	3.6	1.88
5	3.0	1.71	29.37	1.9	1.36
Slope , mw = Correlation	ession of Y on X 0.0508 coefficient* = Coefficient < 0.99		Intercept, bw ⁼	-0.142	4
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to	alculation		
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw}^{2} \mathbf{x} (760 / Pa) \mathbf{x} ($			
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	k	N	Date: 10-Aug-21
Checked by:	Henry I	Leung Signature:	lem	Jan -	Date: 10-Aug-21

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File No. MA16034/03/0031

Project No.	AM3 - Yau Lai	Estate, Bik La	i House			
Date:	10-A	ug-21	Next Due Date:	10-Oct-21	Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS2310	Serial No.	10379
			Ambient Condit	ion		
Temperatu	ire, Ta (K)	302	Pressure, Pa (mm)	Hg)	754.3	

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313		
Last Calibration Date:	11-Jan-21	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{[\Delta H x]\}$	$(Pa/760) \ge (298/Ta)]^{1/2} -bc\} /$	mc		

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.2	3.60	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		
By Linear Regression of Y on X Slope , mw =0.0484 Intercept, bw =0.0251 Correlation coefficient* =0.9994 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point Ca urve, take Qstd = 43 CFM e "Y" value according to	alculation				
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw}^{2} \mathbf{x} (760 / Pa) \mathbf{x} ($					
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	X	Date: 10-Aug-21		
Checked by:	Henry I	Leung Signature:	- \-lem	J Xor J	Date: 10-Aug-21		



File No. MA16034/08/0031

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	10-A	ug-21	Next Due Date:	10-	Oct-21	Operator:	SK
Equipment No.:	A-0	01-08	Model No.:	GS2310		Serial No.	1287
			Ambient C	ondition			
Temperatur	re, Ta (K)	302	Pressure, Pa			754.3	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864			Intercept		-0.00313
Last Calibra	Last Calibration Date:11-Jan-21 $mc x Qstd + bc = [\Delta H x (Pa/76)]$						
Next Calibra	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	ic
			Calibration of	FSP Sampler			
Calibration	ATT (and China)		fice	Ortal (CEN C		HVS	(0) (0) $(1/2)$
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} Z-axis
1	13.4		3.62	62.02	9.0		2.97
2	10.2		3.16	54.12	6.4		2.50
3	7.9		2.78	47.63	4.9		2.19
4	5.1		2.23	38.28	3.3		1.80
5	3.0		1.71	29.37	2.0		1.40
	coefficient* =		.9976	Intercept, bw	-0.014	7	
*If Correlation C	Coefficient < 0.9	90, check and re	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acc	ording to				
		mw x Q	Q std + bw = [ΔW x	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point: W = (n	nw x Ostd + bw)	² x (760 / Pa) x (7	Ta / 298) =	4.15		
,	, (、 ,		,			
Remarks:							
				h			
Conducted by:	Wong Sl	ning Kwai	Signature:	/	<u></u>	Date:	10-Aug-21
Checked by:	Henry	/ Leung	Signature:	- lem	- Nor	Date:	10-Aug-21

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File No. MA16034/05/0031

Project No.	AM1 - Tin Hau	1 Temple				
Date:	10-A	ug-21	Next Due Date:	10-Oct-21	Operator:	SK
Equipment No.:	A-()1-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	ure, Ta (K)	302	Pressure, Pa (mm)	Hg)	754.3	
	-		-	-		

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313		
Last Calibration Date:	11-Jan-21	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		Qstd = {[∆H x	$(Pa/760) \ge (298/Ta)]^{1/2} -bc\} /$	mc		

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.2	3.60	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	ession of Y on X 0.0535 coefficient* = Coefficient < 0.99		Intercept, bw = _	-0.185	.4
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to	alculation		
Therefore, Se	et Point; W = (my	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature		N	Date: 10-Aug-21
Checked by:	Henry	Leung Signature	- \-lem	Jan -	Date: 10-Aug-21



File No. MA16034/54/0030

Project No.	AM4(A) - Cha	Kwo Ling Public	c Cargo Working Area A	iministrat	ive Office			
Date:	10	Jun-21	Next Due Date:	10-A	Aug-21	Operator:	SK	
Equipment No.:	A-	01-54	Model No.:	TE-	-5170	Serial No.	1536	
			Ambient Condit	ion				
Temperatu	re, Ta (K)	301.8	Pressure, Pa (mml	-Ig)		754		

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313	
Last Calibration Date:	Last Calibration Date: 11-Jan-21 $\operatorname{mc} \mathbf{x} \operatorname{Qstd} + \mathbf{bc} = [\Delta H \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (298/Ta)]^{1/2}$					
Next Calibration Date:	11-Jan-22	(Qstd = {[∆H x	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc	

	-	Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] ^{1/} Y-axis
1	13.2	3.60	61.56	9.0	2.97
2	9.9	3.11	53.32	6.4	2.50
3	7.5	2.71	46.42	5.0	2.21
4	5.4	2.30	39.40	3.3	1.80
5	3.0	1.71	29.38	1.9	1.36
If Correlation (Coefficient < 0.99	0, check and recalibrate.			
		Set Point C	algulation		
From the TSP Fi	ield Calibration C	urve, take Qstd = 43 CFM			
		e "Y" value according to			
6	1 ,	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	y (Do/760) y (7)	08/Ta)1 ^{1/2}	
				70/1 (1)]	
Therefore, Se	et Point; W = (my	$(w x Qstd + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.16	
Remarks:					
Conducted by:	SK Wong	Signature:	1.		Date: 10 June 2021
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File No. MA16034/03/0030

Project No.	AM3 - Yau La	i Estate, Bik Lai	House				
Date:	10	Jun-21	Next Due Date:	10-Aug-21	1 Operator:	SK	
Equipment No.:	A-	01-03	Model No.:	GS2310	Serial No.	10379	
			Ambient Condit	tion			
Temperatu	ıre, Ta (K)	301.8	Pressure, Pa (mm	Hg)	754		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313						
Last Calibration Date:	11-Jan-21	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{[\Delta H x]$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

	1	Calibration	of TSP Sampler			
Calibration		Orfice		HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/}	2 Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis	
1	12.9	3.55	60.86	8.5	2.89	
2	9.7	3.08	52.78	6.4	2.50	
3	7.9	2.78	47.64	4.9	2.19	
4	5.1	2.24	38.29	3.2	1.77	
5	3.0	1.71	29.38	2.0	1.40	
-	0.0476 coefficient* =	0.9984	Intercept, bw	-0.029	0	
By Linear Regi Slope , mw =	ession of Y on X 0.0476		Intercept, bw	-0.029	0	
		0, check and recalibrate.				
		o,				
			Calculation			
			Calculation			
From the TSP Fi	ield Calibration C	Set Point	Calculation			
From the TSP Fi	ield Calibration C	Set Point urve, take Qstd = 43 CFM e "Y" value according to				
From the TSP Fi	ield Calibration C	Set Point urve, take Qstd = 43 CFM		98/Ta)] ^{1/2}		
From the TSP Fi	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (29	98/Ta)] ^{1/2} 4.15		
From the TSP Fi	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to	V x (Pa/760) x (29	/-		
From the TSP Fi	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (29	/-		
From the TSP Fr From the Regres Therefore, Se	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (29	/-		
From the TSP Fr From the Regres Therefore, Se	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (29	/-		
From the TSP Fi	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (29	/-		
From the TSP Fi From the Regres Therefore, Se Remarks:	ield Calibration C ssion Equation, the et Point; W = (mv	Set Point urve, take Qstd = 43 CFM e "Y" value according to $mw x Qstd + bw = [\Delta V$ $w x Qstd + bw)^2 x (760 / Pa) x$	V x (Pa/760) x (2 9 (Ta / 298) =	4.15		
From the TSP Fi From the Regres Therefore, Se	ield Calibration C ssion Equation, the	Set Point urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔV	V x (Pa/760) x (2 9 (Ta / 298) =	4.15	Date: 10 June 2021	

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File No. MA16034/08/0030

10 June 2021

Date:

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	10	Jun-21	Next Due Date:	10-Aug-21	Operator:	SK	
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287	
			Ambient Condit	ion			
Temperatu	ure, Ta (K)	301.8	Pressure, Pa (mm	Hg)	754		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313						
Last Calibration Date:	11-Jan-21	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{[\Delta H x]$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

		Calibration of	TSP Sampler			
Calibration		Orfice		HVS		
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] ^{1/} Y-axis	
1	13.3	3.61	61.80	8.9	2.95	
2	10.1	3.15	53.86	6.3	2.48	
3	7.9	2.78	47.64	4.9	2.19	
4	5.1	2.24	38.29	3.3	1.80	
5	3.0	1.71	29.38	2.0	1.40	
*If Correlation	Coefficient < 0.99	0, check and recalibrate.				
		Set Point C	alculation			
	ield Calibration C	urve, take Qstd = 43 CFM				
From the TSP F	icia Canoration C					
		e "Y" value according to				
		e "Y" value according to $mw \ge Qstd + bw = [\Delta W \ge Dstarrow Content of Conte$	x (Pa/760) x (29	98/Ta) ^{1/2}		
From the Regre	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				
From the Regre	ssion Equation, th	ç				
From the Regre	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				
From the Regre	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				
From the Regre	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				
From the Regre Therefore, S	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				
From the Regree	ssion Equation, th	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$				

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Checked by: <u>Henry Leung</u> Signature:



File No. MA16034/05/0030

Project No.	AM1 - Tin Hau	ı Temple				
Date:	10	Jun-21	Next Due Date:	10-Aug-21	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	301.8	Pressure, Pa (mm)	Hg)	754	

Orifice Transfer Standard Information							
Serial No.	Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313						
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{ [\Delta H x]$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$		
1	12.8	3.54	60.63	9.3	3.02		
2	9.4	3.03	51.96	7.0	2.62		
3	7.5	2.71	46.42	5.4	2.30		
4	4.8	2.17	37.15	3.4	1.83		
5	2.5	1.56	26.82	2.0	1.40		
Slope, mw =	ression of Y on X 	0.9987	Intercept, bw -	0.060	8		
			_				
*If Correlation C	Coefficient < 0.990), check and recalibrate.					
		Set Point C	Calculation				
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM					
From the Regres	sion Equation, the	e "Y" value according to					
Therefore Se	et Point: $W = (my)$	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ v x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.74			
			14/2007				
Remarks:							
Conducted by:	SK Wong	Signature:	<u>~</u>		Date: 10 June 2021		
Checked by:	Henry Leung	Signature:	Xog		Date: 10 June 2021		

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity (%) ²	Precipitation (mm) ³
1-Aug-21	29.4	83	11.6
2-Aug-21	30.0	80	Trace
3-Aug-21	28.2	88	19.7
4-Aug-21	28.2	85	41.9
5-Aug-21	27.6	90	28.1
6-Aug-21	28.3	89	31.0
7-Aug-21	28.8	85	0.0
8-Aug-21	29.3	85	3.1
9-Aug-21	29.1	85	36.3
10-Aug-21	29.0	87	17.3
11-Aug-21	29.5	84	3.0
12-Aug-21	29.0	82	1.0
13-Aug-21	28.6	83	5.4
14-Aug-21	28.0	85	2.2
15-Aug-21	27.3	87	5.7
16-Aug-21	28.3	83	3.9
17-Aug-21	29.5	78	0.0
18-Aug-21	29.5	77	0.0
19-Aug-21	28.6	84	34.6
20-Aug-21	29.5	77	Trace
21-Aug-21	29.8	76	0.0
22-Aug-21	30.1	74	0.0
23-Aug-21	30.2	75	Trace
24-Aug-21	29.6	79	23.7
25-Aug-21	29.7	79	1.1
26-Aug-21	29.7	80	2.2
27-Aug-21	25.6	89	29.3
28-Aug-21	26.9	81	22.0
29-Aug-21	27.8	83	13.9
30-Aug-21	29.1	81	Trace
31-Aug-21	27.3	88	13.5

Appendix C - Weather Conditions During Impact Monitoring Period

(Reporting Month: August 2021)

Remarks:

Source - Hong Kong Observatory

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

August 2021							
	Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction				
1 Aug 2021	12:00 AM	W	1.0				
1 Aug 2021	1:00 AM	W	2.3				
1 Aug 2021	2:00 AM	WNW	2.8				
1 Aug 2021	3:00 AM	W	1.9				
1 Aug 2021	4:00 AM	W	1.9				
1 Aug 2021	5:00 AM	W	1.9				
1 Aug 2021	6:00 AM	NNW	2.3				
1 Aug 2021	7:00 AM	WNW	1.9				
1 Aug 2021	8:00 AM	W	1.9				
1 Aug 2021	9:00 AM	NW	1.9				
1 Aug 2021	10:00 AM	W	1.9				
1 Aug 2021	11:00 AM	WNW	1.4				
1 Aug 2021	12:00 PM	WNW	1.4				
1 Aug 2021	1:00 PM	W	1.4				
1 Aug 2021	2:00 PM	W	1.9				
1 Aug 2021	3:00 PM	W	1.4				
1 Aug 2021	4:00 PM	W	1.4				
1 Aug 2021	5:00 PM	W	1.9				
1 Aug 2021	6:00 PM	W	1.4				
1 Aug 2021	7:00 PM	W	1.4				
1 Aug 2021	8:00 PM	W	3.2				
1 Aug 2021	9:00 PM	W	2.3				
1 Aug 2021	10:00 PM	W	1.9				
1 Aug 2021	11:00 PM	W	2.3				
2 Aug 2021	12:00 AM	W	2.3				
2 Aug 2021 2 Aug 2021	1:00 AM	W	1.0				
2 Aug 2021 2 Aug 2021	2:00 AM	WNW	1.0				
2 Aug 2021 2 Aug 2021	3:00 AM	W	1.9				
2 Aug 2021 2 Aug 2021	4:00 AM	W	1.9				
	5:00 AM	W	1.4				
2 Aug 2021		NNW	1.4				
2 Aug 2021	6:00 AM	WNW					
2 Aug 2021	7:00 AM	WINW	1.9				
2 Aug 2021	8:00 AM		0.5				
2 Aug 2021	9:00 AM	NW	1.0				
2 Aug 2021	10:00 AM	W WNW	1.0				
2 Aug 2021	11:00 AM						
2 Aug 2021	12:00 PM	WNW	1.4				
2 Aug 2021	1:00 PM	W	1.4				
2 Aug 2021	2:00 PM	NW	1.4				
2 Aug 2021	3:00 PM	WNW	1.4				
2 Aug 2021	4:00 PM	WNW	1.9				
2 Aug 2021	5:00 PM	WNW	1.4				
2 Aug 2021	6:00 PM	W	1.9				
2 Aug 2021	7:00 PM	WNW	1.4				
2 Aug 2021	8:00 PM	WNW	1.0				
2 Aug 2021	9:00 PM	WNW	1.4				
2 Aug 2021	10:00 PM	W	1.9				
2 Aug 2021	11:00 PM	WNW	1.9				
3 Aug 2021	12:00 AM	WNW	1.4				
3 Aug 2021	1:00 AM	W	1.0				
3 Aug 2021	2:00 AM	WNW	1.0				

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
3 Aug 2021	3:00 AM	W	1.0			
3 Aug 2021	4:00 AM	W	1.0			
3 Aug 2021	5:00 AM	W	0.5			
3 Aug 2021	6:00 AM	NW	1.0			
3 Aug 2021	7:00 AM	NW	1.0			
3 Aug 2021	8:00 AM	SE	0.5			
3 Aug 2021	9:00 AM	NW	1.0			
3 Aug 2021	10:00 AM	W	1.0			
3 Aug 2021	11:00 AM	W	0.5			
3 Aug 2021	12:00 PM	W	1.0			
3 Aug 2021	1:00 PM	ENE	0.1			
3 Aug 2021	2:00 PM	ENE	0.5			
3 Aug 2021	3:00 PM	NW	1.0			
3 Aug 2021	4:00 PM	W	1.4			
3 Aug 2021	5:00 PM	W	1.0			
3 Aug 2021	6:00 PM	W	1.4			
3 Aug 2021	7:00 PM	WNW	1.4			
3 Aug 2021	8:00 PM	WNW	1.0			
3 Aug 2021	9:00 PM	W	1.4			
3 Aug 2021	10:00 PM	WNW	1.4			
3 Aug 2021	11:00 PM	W	1.0			
4 Aug 2021	12:00 AM	W	1.0			
4 Aug 2021	1:00 AM	W	1.0			
4 Aug 2021	2:00 AM	WNW	1.0			
4 Aug 2021	3:00 AM	W	1.0			
4 Aug 2021	4:00 AM	SE	0.5			
4 Aug 2021	5:00 AM	W	0.5			
4 Aug 2021	6:00 AM	ESE	1.0			
4 Aug 2021	7:00 AM	ESE	0.5			
4 Aug 2021	8:00 AM	W	0.5			
4 Aug 2021	9:00 AM	W	0.5			
4 Aug 2021	10:00 AM	E	1.0			
4 Aug 2021	11:00 AM	WNW	0.5			
4 Aug 2021	12:00 PM	NW	1.4			
4 Aug 2021	1:00 PM	W	1.0			
4 Aug 2021	2:00 PM	W	1.4			
4 Aug 2021	3:00 PM	W	1.4			
4 Aug 2021	4:00 PM	NW	1.4			
4 Aug 2021	5:00 PM	NNW	1.0			
4 Aug 2021	6:00 PM	NW	1.4			
4 Aug 2021	7:00 PM	NW	1.0			
4 Aug 2021	8:00 PM	NW	1.0			
4 Aug 2021	9:00 PM	NW	0.5			
4 Aug 2021	10:00 PM	W	1.4			
4 Aug 2021	11:00 PM	WNW	1.0			
5 Aug 2021	12:00 AM	WNW	1.4			
5 Aug 2021	1:00 AM	W	0.5			
5 Aug 2021	2:00 AM	NW	0.5			
5 Aug 2021	3:00 AM	WNW	0.5			
5 Aug 2021	4:00 AM	WNW	0.5			
5 Aug 2021	5:00 AM	WNW	0.5			

August 2021				
	Wind Speed a	nd Directions		
Date	Time	Wind Speed m-s	Direction	
5 Aug 2021	6:00 AM	W	0.5	
5 Aug 2021	7:00 AM	WNW	0.5	
5 Aug 2021	8:00 AM	WNW	0.5	
5 Aug 2021	9:00 AM	WNW	1.0	
5 Aug 2021	10:00 AM	NW	1.0	
5 Aug 2021	11:00 AM	E	1.0	
5 Aug 2021	12:00 PM	W	1.4	
5 Aug 2021	1:00 PM	W	1.4	
5 Aug 2021	2:00 PM	NW	1.9	
5 Aug 2021	3:00 PM	NW	2.8	
5 Aug 2021	4:00 PM	NW	3.7	
5 Aug 2021	5:00 PM	NW	4.6	
5 Aug 2021	6:00 PM	NW	3.2	
5 Aug 2021	7:00 PM	NW	1.9	
5 Aug 2021	8:00 PM	NW	1.0	
5 Aug 2021	9:00 PM	W	0.5	
5 Aug 2021	10:00 PM	NW	1.0	
5 Aug 2021	11:00 PM	NW	1.9	
6 Aug 2021	12:00 AM	NW	1.9	
6 Aug 2021	1:00 AM	NW	1.4	
6 Aug 2021	2:00 AM	NW	0.5	
6 Aug 2021	3:00 AM	W	0.5	
6 Aug 2021	4:00 AM	ESE	0.5	
6 Aug 2021	5:00 AM	ESE	0.5	
6 Aug 2021	6:00 AM	NE	1.0	
6 Aug 2021	7:00 AM	NNW	1.0	
6 Aug 2021	8:00 AM	NNW	1.4	
6 Aug 2021	9:00 AM	WNW	1.0	
6 Aug 2021	10:00 AM	ESE	1.0	
6 Aug 2021	11:00 AM	SE	1.0	
6 Aug 2021	12:00 PM	ESE	1.0	
6 Aug 2021	1:00 PM	ESE	1.4	
6 Aug 2021	2:00 PM	Е	1.9	
6 Aug 2021	3:00 PM	NW	1.4	
6 Aug 2021	4:00 PM	NW	2.3	
6 Aug 2021	5:00 PM	NW	4.6	
6 Aug 2021	6:00 PM	NW	1.4	
6 Aug 2021	7:00 PM	WNW	1.0	
6 Aug 2021	8:00 PM	W	0.5	
6 Aug 2021	9:00 PM	NW	1.4	
6 Aug 2021	10:00 PM	W	1.0	
6 Aug 2021	11:00 PM	WNW	1.0	
7 Aug 2021	12:00 AM	WNW	1.0	
7 Aug 2021	1:00 AM	W	1.0	
7 Aug 2021	2:00 AM	NW	1.4	
7 Aug 2021	3:00 AM	WNW	0.5	
7 Aug 2021	4:00 AM	WNW	0.5	
7 Aug 2021	5:00 AM	WNW	0.5	
7 Aug 2021	6:00 AM	W	1.0	
7 Aug 2021	7:00 AM	WNW	1.0	
7 Aug 2021	8:00 AM	WNW	1.0	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
7 Aug 2021	9:00 AM	NW	1.4	
7 Aug 2021	10:00 AM	WNW	1.9	
7 Aug 2021	11:00 AM	WNW	1.4	
7 Aug 2021	12:00 PM	WNW	1.4	
7 Aug 2021	1:00 PM	W	1.4	
7 Aug 2021	2:00 PM	NW	2.3	
7 Aug 2021	3:00 PM	NW	4.6	
7 Aug 2021	4:00 PM	NW	5.0	
7 Aug 2021	5:00 PM	NW	4.6	
7 Aug 2021	6:00 PM	NW	5.0	
7 Aug 2021	7:00 PM	NW	3.7	
7 Aug 2021	8:00 PM	NW	2.8	
7 Aug 2021	9:00 PM	NW	2.8	
7 Aug 2021	10:00 PM	NW	1.9	
7 Aug 2021	11:00 PM	NW	1.4	
8 Aug 2021	12:00 AM	NW	1.9	
8 Aug 2021	1:00 AM	NW	1.0	
8 Aug 2021	2:00 AM	SE	0.5	
8 Aug 2021	3:00 AM	ESE	1.0	
8 Aug 2021	4:00 AM	SE	1.0	
8 Aug 2021	5:00 AM	ESE	0.5	
8 Aug 2021	6:00 AM	ESE	0.1	
8 Aug 2021	7:00 AM	ESE	0.5	
8 Aug 2021	8:00 AM	SE	1.0	
8 Aug 2021	9:00 AM	SE	1.0	
8 Aug 2021	10:00 AM	ESE	1.9	
8 Aug 2021	11:00 AM	SE	1.0	
8 Aug 2021	12:00 PM	SE	1.4	
8 Aug 2021	1:00 PM	SE	1.9	
8 Aug 2021	2:00 PM	SE	1.4	
8 Aug 2021	3:00 PM	SE	1.0	
8 Aug 2021	4:00 PM	NW	2.3	
8 Aug 2021	5:00 PM	NW	1.4	
8 Aug 2021	6:00 PM	SE	1.0	
8 Aug 2021	7:00 PM	SE	2.3	
8 Aug 2021	8:00 PM	ESE	2.3	
8 Aug 2021	9:00 PM	SE	2.3	
8 Aug 2021	10:00 PM	ESE	1.9	
8 Aug 2021	11:00 PM	ESE	1.9	
9 Aug 2021	12:00 AM	SE	1.0	
9 Aug 2021	1:00 AM	SE	1.0	
9 Aug 2021	2:00 AM	SE	1.0	
9 Aug 2021	3:00 AM	ESE	1.0	
9 Aug 2021	4:00 AM	SE	0.5	
9 Aug 2021	5:00 AM	ESE	1.0	
9 Aug 2021	6:00 AM	NW	0.5	
9 Aug 2021	7:00 AM	ESE	1.0	
9 Aug 2021	8:00 AM	SE	1.0	
9 Aug 2021	9:00 AM	ESE	0.5	
9 Aug 2021	10:00 AM	NNW	1.0	
9 Aug 2021	11:00 AM	ESE	1.4	

August 2021					
	Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction		
9 Aug 2021	12:00 PM	W	1.4		
9 Aug 2021	1:00 PM	WNW	1.4		
9 Aug 2021	2:00 PM	WNW	1.4		
9 Aug 2021	3:00 PM	W	1.4		
9 Aug 2021	4:00 PM	NW	1.4		
9 Aug 2021	5:00 PM	WNW	2.8		
9 Aug 2021	6:00 PM	WNW	3.2		
9 Aug 2021	7:00 PM	WNW	3.2		
9 Aug 2021	8:00 PM	W	2.8		
9 Aug 2021	9:00 PM	WNW	2.3		
9 Aug 2021	10:00 PM	SE	2.8		
9 Aug 2021	11:00 PM	SE	1.9		
10 Aug 2021	12:00 AM	SE	1.0		
10 Aug 2021	1:00 AM	SE	1.0		
10 Aug 2021	2:00 AM	NW	1.4		
10 Aug 2021	3:00 AM	NNW	1.0		
10 Aug 2021	4:00 AM	SE	1.0		
10 Aug 2021	5:00 AM	ESE	1.0		
10 Aug 2021	6:00 AM	SE	0.5		
10 Aug 2021	7:00 AM	SE	1.0		
10 Aug 2021	8:00 AM	NNE	1.0		
10 Aug 2021	9:00 AM	NNE	1.0		
10 Aug 2021	10:00 AM	Ν	1.0		
10 Aug 2021	11:00 AM	SE	1.9		
10 Aug 2021	12:00 PM	SE	1.4		
10 Aug 2021	1:00 PM	SE	2.3		
10 Aug 2021	2:00 PM	NNE	1.4		
10 Aug 2021	3:00 PM	SE	1.4		
10 Aug 2021	4:00 PM	ESE	1.4		
10 Aug 2021	5:00 PM	NNE	1.4		
10 Aug 2021	6:00 PM	NW	1.4		
10 Aug 2021	7:00 PM	Ν	1.4		
10 Aug 2021	8:00 PM	NW	1.4		
10 Aug 2021	9:00 PM	NNE	1.4		
10 Aug 2021	10:00 PM	NNW	1.4		
10 Aug 2021	11:00 PM	NNW	1.0		
11 Aug 2021	12:00 AM	Ν	1.4		
11 Aug 2021	1:00 AM	Ν	1.0		
11 Aug 2021	2:00 AM	Ν	1.4		
11 Aug 2021	3:00 AM	NNE	1.9		
11 Aug 2021	4:00 AM	NW	1.9		
11 Aug 2021	5:00 AM	NNW	1.9		
11 Aug 2021	6:00 AM	NNE	1.9		
11 Aug 2021	7:00 AM	NNW	1.4		
11 Aug 2021	8:00 AM	ESE	1.0		
11 Aug 2021	9:00 AM	SE	1.0		
11 Aug 2021	10:00 AM	ESE	1.0		
11 Aug 2021	11:00 AM	NNE	1.4		
11 Aug 2021	12:00 PM	Ν	1.4		
11 Aug 2021	1:00 PM	W	1.4		
11 Aug 2021	2:00 PM	WNW	1.4		

August 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
11 Aug 2021	3:00 PM	WNW	1.4		
11 Aug 2021	4:00 PM	W	1.4		
11 Aug 2021	5:00 PM	NW	1.4		
11 Aug 2021	6:00 PM	WNW	1.4		
11 Aug 2021	7:00 PM	WNW	1.0		
11 Aug 2021	8:00 PM	WNW	1.0		
11 Aug 2021	9:00 PM	W	1.4		
11 Aug 2021	10:00 PM	WNW	1.4		
11 Aug 2021	11:00 PM	NNW	1.0		
12 Aug 2021	12:00 AM	NNW	1.0		
12 Aug 2021	1:00 AM	Ν	1.0		
12 Aug 2021	2:00 AM	NNW	1.0		
12 Aug 2021	3:00 AM	SE	1.0		
12 Aug 2021	4:00 AM	Ν	1.0		
12 Aug 2021	5:00 AM	Ν	1.0		
12 Aug 2021	6:00 AM	NE	1.0		
12 Aug 2021	7:00 AM	NNE	1.0		
12 Aug 2021	8:00 AM	Ν	1.0		
12 Aug 2021	9:00 AM	SE	1.0		
12 Aug 2021	10:00 AM	SE	1.4		
12 Aug 2021	11:00 AM	SE	2.3		
12 Aug 2021	12:00 PM	SE	2.8		
12 Aug 2021	1:00 PM	SE	3.2		
12 Aug 2021	2:00 PM	SE	3.2		
12 Aug 2021	3:00 PM	SE	3.2		
12 Aug 2021	4:00 PM	SE	2.8		
12 Aug 2021	5:00 PM	Е	1.4		
12 Aug 2021	6:00 PM	SE	1.4		
12 Aug 2021	7:00 PM	SE	1.0		
12 Aug 2021	8:00 PM	SE	1.4		
12 Aug 2021	9:00 PM	ESE	1.0		
12 Aug 2021	10:00 PM	ESE	1.0		
12 Aug 2021	11:00 PM	Ν	1.0		
13 Aug 2021	12:00 AM	N	1.4		
13 Aug 2021	1:00 AM	NNW	1.4		
13 Aug 2021	2:00 AM	Ν	1.0		
13 Aug 2021	3:00 AM	Ν	1.0		
13 Aug 2021	4:00 AM	NW	1.0		
13 Aug 2021	5:00 AM	NNW	1.0		
13 Aug 2021	6:00 AM	SE	0.5		
13 Aug 2021	7:00 AM	SE	0.5		
13 Aug 2021	8:00 AM	SE	1.4		
13 Aug 2021	9:00 AM	SE	1.4		
13 Aug 2021	10:00 AM	SE	1.9		
13 Aug 2021	11:00 AM	ESE	1.9		
13 Aug 2021	12:00 PM	NNE	1.4		
13 Aug 2021	1:00 PM	SE	2.3		
13 Aug 2021	2:00 PM	SE	1.4		
13 Aug 2021	3:00 PM	NNE	1.4		
13 Aug 2021	4:00 PM	ESE	1.4		
13 Aug 2021	5:00 PM	ESE	1.4		

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
13 Aug 2021	6:00 PM	NW	1.4			
13 Aug 2021	7:00 PM	NNW	1.4			
13 Aug 2021	8:00 PM	Ν	1.4			
13 Aug 2021	9:00 PM	NNE	1.0			
13 Aug 2021	10:00 PM	NW	1.4			
13 Aug 2021	11:00 PM	SE	1.0			
14 Aug 2021	12:00 AM	NNW	1.4			
14 Aug 2021	1:00 AM	Ν	1.0			
14 Aug 2021	2:00 AM	NNE	1.0			
14 Aug 2021	3:00 AM	SE	1.0			
14 Aug 2021	4:00 AM	Ν	0.5			
14 Aug 2021	5:00 AM	NW	1.9			
14 Aug 2021	6:00 AM	W	0.1			
14 Aug 2021	7:00 AM	W	0.1			
14 Aug 2021	8:00 AM	SE	0.5			
14 Aug 2021	9:00 AM	SE	1.0			
14 Aug 2021	10:00 AM	SE	1.0			
14 Aug 2021	11:00 AM	SE	1.4			
14 Aug 2021	12:00 PM	SE	1.4			
14 Aug 2021	1:00 PM	SE	1.9			
14 Aug 2021	2:00 PM	SE	1.9			
14 Aug 2021	3:00 PM	SE	2.3			
14 Aug 2021	4:00 PM	SE	1.9			
14 Aug 2021	5:00 PM	ESE	1.4			
14 Aug 2021	6:00 PM	SE	1.4			
14 Aug 2021	7:00 PM	ESE	1.0			
14 Aug 2021	8:00 PM	SE	1.0			
14 Aug 2021	9:00 PM	NW	1.0			
14 Aug 2021	10:00 PM	Ν	1.0			
14 Aug 2021	11:00 PM	SE	1.0			
15 Aug 2021	12:00 AM	Ν	1.4			
15 Aug 2021	1:00 AM	NNE	1.0			
15 Aug 2021	2:00 AM	ESE	1.0			
15 Aug 2021	3:00 AM	Ν	1.0			
15 Aug 2021	4:00 AM	Ν	1.0			
15 Aug 2021	5:00 AM	NW	1.0			
15 Aug 2021	6:00 AM	NW	0.5			
15 Aug 2021	7:00 AM	NW	0.5			
15 Aug 2021	8:00 AM	ESE	1.0			
15 Aug 2021	9:00 AM	SE	1.9			
15 Aug 2021	10:00 AM	SE	1.4			
15 Aug 2021	11:00 AM	SE	1.9			
15 Aug 2021	12:00 PM	SE	2.3			
15 Aug 2021	1:00 PM	SE	1.9			
15 Aug 2021	2:00 PM	SE	1.9			
15 Aug 2021	3:00 PM	NNE	1.4			
15 Aug 2021	4:00 PM	Ν	1.9			
15 Aug 2021	5:00 PM	Ν	1.9			
15 Aug 2021	6:00 PM	Е	1.4			
15 Aug 2021	7:00 PM	ESE	1.4			
15 Aug 2021	8:00 PM	SE	1.4			

August 2021						
	Wind Speed	and Directions				
Date	Time	Wind Speed m-s	Direction			
15 Aug 2021	9:00 PM	SE	1.4			
15 Aug 2021	10:00 PM	ESE	1.4			
15 Aug 2021	11:00 PM	SE	0.5			
16 Aug 2021	12:00 AM	Ν	1.0			
16 Aug 2021	1:00 AM	SE	1.4			
16 Aug 2021	2:00 AM	SE	1.0			
16 Aug 2021	3:00 AM	SE	1.0			
16 Aug 2021	4:00 AM	SE	1.4			
16 Aug 2021	5:00 AM	SE	1.4			
16 Aug 2021	6:00 AM	SE	1.0			
16 Aug 2021	7:00 AM	ESE	0.5			
16 Aug 2021	8:00 AM	SE	1.4			
16 Aug 2021	9:00 AM	N	1.4			
16 Aug 2021	10:00 AM	SE	1.4			
16 Aug 2021	11:00 AM	Ν	1.4			
16 Aug 2021	12:00 PM	SE	1.4			
16 Aug 2021	1:00 PM	SE	1.0			
16 Aug 2021	2:00 PM	SE	1.0			
16 Aug 2021	3:00 PM	NW	1.4			
16 Aug 2021	4:00 PM	NNE	1.0			
16 Aug 2021	5:00 PM	SE	1.0			
16 Aug 2021	6:00 PM	ESE	0.5			
16 Aug 2021	7:00 PM	NNE	1.0			
16 Aug 2021	8:00 PM	Ν	1.0			
16 Aug 2021	9:00 PM	NNW	1.0			
16 Aug 2021	10:00 PM	SE	1.4			
16 Aug 2021	11:00 PM	E	0.5			
17 Aug 2021	12:00 AM	ESE	0.5			
17 Aug 2021	1:00 AM	ENE	0.1			
17 Aug 2021	2:00 AM	NE	0.1			
17 Aug 2021	3:00 AM	NNE	0.5			
17 Aug 2021	4:00 AM	SE	1.0			
17 Aug 2021	5:00 AM	SE	1.0			
17 Aug 2021	6:00 AM	SE	0.5			
17 Aug 2021	7:00 AM	SE	1.0			
17 Aug 2021	8:00 AM	SE	1.0			
17 Aug 2021	9:00 AM	SE	1.4			
17 Aug 2021	10:00 AM	SE	1.0			
17 Aug 2021	11:00 AM	SE	1.9			
17 Aug 2021	12:00 PM	NW	0.5			
17 Aug 2021	1:00 PM	NW	0.5			
17 Aug 2021	2:00 PM	Ν	0.5			
17 Aug 2021	3:00 PM	SE	1.9			
17 Aug 2021	4:00 PM	SE	1.9			
17 Aug 2021	5:00 PM	SE	1.0			
17 Aug 2021	6:00 PM	SE	1.0			
17 Aug 2021	7:00 PM	NW	1.0			
17 Aug 2021	8:00 PM	NW	1.0			
17 Aug 2021	9:00 PM	NNW	1.4			
17 Aug 2021	10:00 PM	NW	1.0			
17 Aug 2021	11:00 PM	SE	1.4			

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
18 Aug 2021	12:00 AM	SE	1.4			
18 Aug 2021	1:00 AM	SE	1.0			
18 Aug 2021	2:00 AM	SE	0.5			
18 Aug 2021	3:00 AM	SE	1.0			
18 Aug 2021	4:00 AM	SE	1.0			
18 Aug 2021	5:00 AM	SE	1.0			
18 Aug 2021	6:00 AM	SE	1.0			
18 Aug 2021	7:00 AM	SE	1.4			
18 Aug 2021	8:00 AM	SE	1.4			
18 Aug 2021	9:00 AM	SE	1.0			
18 Aug 2021	10:00 AM	SE	1.9			
18 Aug 2021	11:00 AM	SE	1.4			
18 Aug 2021	12:00 PM	SE	1.9			
18 Aug 2021	1:00 PM	SE	1.4			
18 Aug 2021	2:00 PM	Ν	1.4			
18 Aug 2021	3:00 PM	SE	1.9			
18 Aug 2021	4:00 PM	SE	1.4			
18 Aug 2021	5:00 PM	ESE	0.5			
18 Aug 2021	6:00 PM	WNW	0.1			
18 Aug 2021	7:00 PM	SE	0.5			
18 Aug 2021	8:00 PM	SE	1.0			
18 Aug 2021	9:00 PM	SE	1.0			
18 Aug 2021	10:00 PM	SE	0.5			
18 Aug 2021	11:00 PM	SE	1.0			
19 Aug 2021	12:00 AM	SE	0.5			
19 Aug 2021	1:00 AM	SE	0.1			
19 Aug 2021	2:00 AM	SE	0.1			
19 Aug 2021	3:00 AM	SE	0.1			
19 Aug 2021	4:00 AM	SE	0.5			
19 Aug 2021	5:00 AM	SE	0.1			
19 Aug 2021	6:00 AM	ESE	0.5			
19 Aug 2021	7:00 AM	SE	0.1			
19 Aug 2021	8:00 AM	ESE	0.5			
19 Aug 2021	9:00 AM	SE	1.0			
19 Aug 2021	10:00 AM	SE	1.0			
19 Aug 2021	11:00 AM	SE	1.4			
19 Aug 2021	12:00 PM	SE	1.4			
19 Aug 2021	1:00 PM	NNW	2.3			
19 Aug 2021	2:00 PM	NNW	1.9			
19 Aug 2021	3:00 PM	NNW	2.8			
19 Aug 2021	4:00 PM	W	2.3			
19 Aug 2021	5:00 PM	WNW	2.8			
19 Aug 2021	6:00 PM	WNW	3.2			
19 Aug 2021	7:00 PM	W	1.9			
19 Aug 2021	8:00 PM	NW	1.4			
19 Aug 2021	9:00 PM	WNW	0.5			
19 Aug 2021	10:00 PM	WNW	1.4			
19 Aug 2021	11:00 PM	WNW	1.0			
20 Aug 2021	12:00 AM	W	1.0			
20 Aug 2021	1:00 AM	WNW	0.5			
20 Aug 2021	2:00 AM	NW	1.0			

August 2021						
	Wind Speed a	nd Directions				
Date	Time	Wind Speed m-s	Direction			
20 Aug 2021	3:00 AM	NE	0.5			
20 Aug 2021	4:00 AM	Ν	0.5			
20 Aug 2021	5:00 AM	Ν	0.5			
20 Aug 2021	6:00 AM	Ν	0.1			
20 Aug 2021	7:00 AM	NW	0.5			
20 Aug 2021	8:00 AM	NNW	1.0			
20 Aug 2021	9:00 AM	WNW	1.4			
20 Aug 2021	10:00 AM	W	1.0			
20 Aug 2021	11:00 AM	WNW	1.0			
20 Aug 2021	12:00 PM	WNW	1.4			
20 Aug 2021	1:00 PM	NNW	1.0			
20 Aug 2021	2:00 PM	WNW	1.9			
20 Aug 2021	3:00 PM	WNW	1.4			
20 Aug 2021	4:00 PM	NW	1.9			
20 Aug 2021	5:00 PM	NW	1.4			
20 Aug 2021	6:00 PM	NNW	1.4			
20 Aug 2021	7:00 PM	WNW	1.0			
20 Aug 2021	8:00 PM	W	1.0			
20 Aug 2021	9:00 PM	NW	0.5			
20 Aug 2021	10:00 PM	WNW	1.4			
20 Aug 2021	11:00 PM	NNW	1.0			
21 Aug 2021	12:00 AM	W	1.4			
21 Aug 2021	1:00 AM	W	1.0			
21 Aug 2021	2:00 AM	ESE	0.5			
21 Aug 2021	3:00 AM	NW	0.5			
21 Aug 2021	4:00 AM	NNW	2.3			
21 Aug 2021	5:00 AM	NNW	1.4			
21 Aug 2021	6:00 AM	W	0.5			
21 Aug 2021	7:00 AM	NW	1.0			
21 Aug 2021	8:00 AM	Е	0.5			
21 Aug 2021	9:00 AM	WNW	0.5			
21 Aug 2021	10:00 AM	W	1.0			
21 Aug 2021	11:00 AM	W	1.0			
21 Aug 2021	12:00 PM	NNW	1.4			
21 Aug 2021	1:00 PM	W	1.4			
21 Aug 2021	2:00 PM	W	1.0			
21 Aug 2021	3:00 PM	NW	4.1			
21 Aug 2021	4:00 PM	NW	5.5			
21 Aug 2021	5:00 PM	NW	5.0			
21 Aug 2021	6:00 PM	NW	5.5			
21 Aug 2021	7:00 PM	NNW	2.8			
21 Aug 2021	8:00 PM	WNW	1.0			
21 Aug 2021	9:00 PM	NW	1.9			
21 Aug 2021	10:00 PM	NW	1.9			
21 Aug 2021	11:00 PM	NW	1.9			
22 Aug 2021	12:00 AM	NW	1.4			
22 Aug 2021	1:00 AM	NW	1.0			
22 Aug 2021	2:00 AM	NW	1.4			
22 Aug 2021	3:00 AM	NNW	0.5			
22 Aug 2021	4:00 AM	W	1.0			
22 Aug 2021	5:00 AM	WNW	0.5			

August 2021						
	Wind Speed a	nd Directions				
Date	Time	Wind Speed m-s	Direction			
22 Aug 2021	6:00 AM	WNW	0.5			
22 Aug 2021	7:00 AM	W	0.1			
22 Aug 2021	8:00 AM	NW	1.4			
22 Aug 2021	9:00 AM	WNW	1.4			
22 Aug 2021	10:00 AM	WNW	1.0			
22 Aug 2021	11:00 AM	WNW	1.9			
22 Aug 2021	12:00 PM	W	1.9			
22 Aug 2021	1:00 PM	WNW	3.2			
22 Aug 2021	2:00 PM	NW	3.2			
22 Aug 2021	3:00 PM	NW	2.8			
22 Aug 2021	4:00 PM	NW	3.2			
22 Aug 2021	5:00 PM	NW	2.8			
22 Aug 2021	6:00 PM	NW	3.2			
22 Aug 2021	7:00 PM	NNW	3.2			
22 Aug 2021	8:00 PM	NW	2.8			
22 Aug 2021	9:00 PM	NW	1.4			
22 Aug 2021	10:00 PM	NW	0.5			
22 Aug 2021	11:00 PM	ESE	1.0			
23 Aug 2021	12:00 AM	ESE	0.5			
23 Aug 2021	1:00 AM	NNW	1.0			
23 Aug 2021	2:00 AM	Ν	0.1			
23 Aug 2021	3:00 AM	NW	1.4			
23 Aug 2021	4:00 AM	NW	1.4			
23 Aug 2021	5:00 AM	NW	0.5			
23 Aug 2021	6:00 AM	ESE	0.5			
23 Aug 2021	7:00 AM	NNW	1.0			
23 Aug 2021	8:00 AM	NW	1.0			
23 Aug 2021	9:00 AM	WNW	0.5			
23 Aug 2021	10:00 AM	NW	1.0			
23 Aug 2021	11:00 AM	Е	1.4			
23 Aug 2021	12:00 PM	ESE	1.0			
23 Aug 2021	1:00 PM	SE	1.4			
23 Aug 2021	2:00 PM	NW	2.3			
23 Aug 2021	3:00 PM	NW	2.8			
23 Aug 2021	4:00 PM	NW	3.2			
23 Aug 2021	5:00 PM	NW	4.1			
23 Aug 2021	6:00 PM	NW	2.8			
23 Aug 2021	7:00 PM	NNW	1.9			
23 Aug 2021	8:00 PM	NW	1.0			
23 Aug 2021	9:00 PM	NW	0.1			
23 Aug 2021	10:00 PM	NW	0.1			
23 Aug 2021	11:00 PM		0.1			
24 Aug 2021	12:00 AM	NW	0.1			
24 Aug 2021	1:00 AM	ESE	0.1			
24 Aug 2021	2:00 AM	SE	1.0			
24 Aug 2021	3:00 AM	SE	0.5			
24 Aug 2021	4:00 AM	SE	1.0			
24 Aug 2021	5:00 AM	SE	2.3			
24 Aug 2021	6:00 AM	SE	2.3			
24 Aug 2021	7:00 AM	SE	1.4			
24 Aug 2021	8:00 AM	SE	1.9			

August 2021						
	Wind Speed	and Directions				
Date	Time	Wind Speed m-s	Direction			
24 Aug 2021	9:00 AM	Е	1.4			
24 Aug 2021	10:00 AM	SE	1.9			
24 Aug 2021	11:00 AM	SE	1.0			
24 Aug 2021	12:00 PM	SE	1.9			
24 Aug 2021	1:00 PM	SE	2.3			
24 Aug 2021	2:00 PM	SE	1.4			
24 Aug 2021	3:00 PM	SE	1.4			
24 Aug 2021	4:00 PM	SE	1.9			
24 Aug 2021	5:00 PM	SE	1.4			
24 Aug 2021	6:00 PM	SE	1.4			
24 Aug 2021	7:00 PM	SE	1.9			
24 Aug 2021	8:00 PM	SE	1.4			
24 Aug 2021	9:00 PM	ESE	2.3			
24 Aug 2021	10:00 PM	ESE	1.9			
24 Aug 2021	11:00 PM	SE	0.5			
25 Aug 2021	12:00 AM	Е	0.5			
25 Aug 2021	1:00 AM	Ν	0.5			
25 Aug 2021	2:00 AM	ESE	0.5			
25 Aug 2021	3:00 AM	SSE	0.1			
25 Aug 2021	4:00 AM	SSE	0.5			
25 Aug 2021	5:00 AM	SE	1.0			
25 Aug 2021	6:00 AM	SE	0.1			
25 Aug 2021	7:00 AM	SE	1.0			
25 Aug 2021	8:00 AM	ESE	1.9			
25 Aug 2021	9:00 AM	SE	1.9			
25 Aug 2021	10:00 AM	SE	1.9			
25 Aug 2021	11:00 AM	SE	1.4			
25 Aug 2021	12:00 PM	SE	0.5			
25 Aug 2021	1:00 PM	SE	0.5			
25 Aug 2021	2:00 PM	SE	0.5			
25 Aug 2021	3:00 PM	SE	1.0			
25 Aug 2021	4:00 PM	SE	1.0			
25 Aug 2021	5:00 PM	SE	0.5			
25 Aug 2021	6:00 PM	SSE	0.5			
25 Aug 2021	7:00 PM	SE	0.5			
25 Aug 2021	8:00 PM	WNW	1.0			
25 Aug 2021	9:00 PM	SE	1.9			
25 Aug 2021	10:00 PM	SE	1.0			
25 Aug 2021	11:00 PM	ESE	1.0			
26 Aug 2021	12:00 AM	SE	0.5			
26 Aug 2021	1:00 AM	SE	1.0			
26 Aug 2021	2:00 AM	SSE	0.1			
26 Aug 2021	3:00 AM	NNW	0.1			
26 Aug 2021	4:00 AM	NNW	0.5			
26 Aug 2021	5:00 AM	NNW	1.9			
26 Aug 2021	6:00 AM	NNW	1.0			
26 Aug 2021	7:00 AM	NNW	1.9			
26 Aug 2021	8:00 AM	W	1.0			
26 Aug 2021	9:00 AM	WNW	1.0			
26 Aug 2021	10:00 AM	WNW	1.0			
26 Aug 2021	11:00 AM	W	1.0			

26 Aug 2021 12:00 PM NW 1 26 Aug 2021 1:00 PM WNW 0 26 Aug 2021 2:00 PM WNW 0 26 Aug 2021 2:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 4:00 PM W 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 6:00 PM NNW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 27 Aug 2021 1:00 AM 0 27 Aug 2021 1:00 AM 0 27 Aug 2021 2:00 AM E 0 27 Aug 2021 <td< th=""><th>ection 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0</th></td<>	ection 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
26 Aug 2021 12:00 PM NW 1 26 Aug 2021 1:00 PM WNW 0 26 Aug 2021 2:00 PM WNW 0 26 Aug 2021 2:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 4:00 PM W 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 6:00 PM NNW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 8:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 26 Aug 2021 10:00 AM 0 27 Aug 2021 1:00 AM 0 27 Aug 2021 2:00 AM E 0	1.0 0.5
26 Aug 2021 1:00 PM WNW 0 26 Aug 2021 2:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 3:00 PM WNW 0 26 Aug 2021 4:00 PM W 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 6:00 PM NNW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 26 Aug 2021 11:00 PM 0 27 Aug 2021 1:00 AM 0 27 Aug 2021 2:00 AM E 0 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
26 Aug 2021 2:00 PM WNW 00 26 Aug 2021 3:00 PM WNW 00 26 Aug 2021 4:00 PM W 00 26 Aug 2021 4:00 PM W 00 26 Aug 2021 5:00 PM WNW 00 26 Aug 2021 5:00 PM WNW 00 26 Aug 2021 6:00 PM NNW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
26 Aug 2021 3:00 PM WNW 00 26 Aug 2021 4:00 PM W 00 26 Aug 2021 5:00 PM WNW 00 26 Aug 2021 5:00 PM WNW 00 26 Aug 2021 6:00 PM NNW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.1
26 Aug 2021 4:00 PM W 0 26 Aug 2021 5:00 PM WNW 0 26 Aug 2021 6:00 PM NNW 0 26 Aug 2021 6:00 PM NNW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 7:00 PM NW 0 26 Aug 2021 8:00 PM NW 0 26 Aug 2021 9:00 PM NW 0 26 Aug 2021 10:00 PM NW 0 26 Aug 2021 11:00 PM 0 27 Aug 2021 12:00 AM 0 27 Aug 2021 1:00 AM 0 27 Aug 2021 1:00 AM E 0 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
26 Aug 2021 5:00 PM WNW 00 26 Aug 2021 6:00 PM NNW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5 0.5 0.5
26 Aug 2021 6:00 PM NNW 00 26 Aug 2021 7:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.5 0.5 0.5
26 Aug 2021 7:00 PM NW 00 26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 3:00 AM ESE 10	0.5 0.5 0.5 0.1
26 Aug 2021 8:00 PM NW 00 26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	0.5 0.5 0.1
26 Aug 2021 9:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 1:00 AM E 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1).5).1
26 Aug 2021 10:00 PM NW 00 26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1).1
26 Aug 2021 11:00 PM 00 27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1	
27 Aug 2021 12:00 AM 00 27 Aug 2021 1:00 AM 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 2:00 AM E 00 27 Aug 2021 3:00 AM ESE 1) 1
27 Aug 2021 1:00 AM 0 27 Aug 2021 2:00 AM E 0 27 Aug 2021 3:00 AM ESE 1	
27 Aug 2021 1:00 AM 0 27 Aug 2021 2:00 AM E 0 27 Aug 2021 3:00 AM ESE 1	0.1
27 Aug 2021 2:00 AM E 0 27 Aug 2021 3:00 AM ESE 1	0.1
27 Aug 2021 3:00 AM ESE 1	0.5
<u> </u>	1.0
E .).5
27 Aug 2021 5:00 AM ESE 1	1.0
	1.0
	1.9
	1.9
	1.4
	1.0
<u> </u>	1.0
<u> </u>	1.9
	3.2
	1.4
	1.9
	1.4
<u> </u>	1.4
5	2.3
	1.0
5	2.8
	2.3
	2.8
	2.8
	2.8
	2.8
	1.9
	1.9
	2.3
	1.9
	2.3
5	2.3
	2.3
	1.9
	1.9
	1.9
	1.0
	1.4
28 Aug 2021 2:00 PM WNW 1	

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
28 Aug 2021	3:00 PM	W	1.0			
28 Aug 2021	4:00 PM	WNW	1.0			
28 Aug 2021	5:00 PM	W	1.0			
28 Aug 2021	6:00 PM	WNW	1.0			
28 Aug 2021	7:00 PM	NW	1.9			
28 Aug 2021	8:00 PM	NW	1.4			
28 Aug 2021	9:00 PM	W	0.5			
28 Aug 2021	10:00 PM	NW	1.0			
28 Aug 2021	11:00 PM	WNW	0.5			
29 Aug 2021	12:00 AM	NW	0.5			
29 Aug 2021	1:00 AM	NW	0.5			
29 Aug 2021	2:00 AM	WNW	1.0			
29 Aug 2021	3:00 AM	NNW	1.9			
29 Aug 2021	4:00 AM	NNW	1.0			
29 Aug 2021	5:00 AM	NW	1.0			
29 Aug 2021	6:00 AM	NW	1.9			
29 Aug 2021	7:00 AM	SE	1.0			
29 Aug 2021	8:00 AM	SE	0.5			
29 Aug 2021	9:00 AM	NW	1.0			
29 Aug 2021	10:00 AM	W	1.0			
29 Aug 2021	11:00 AM	WNW	1.9			
29 Aug 2021	12:00 PM	WNW	2.3			
29 Aug 2021	1:00 PM	W	2.3			
29 Aug 2021	2:00 PM	NW	2.8			
29 Aug 2021	3:00 PM	WNW	1.4			
29 Aug 2021	4:00 PM	WNW	2.3			
29 Aug 2021	5:00 PM	WNW	1.4			
29 Aug 2021	6:00 PM	W	1.0			
29 Aug 2021	7:00 PM	WNW	0.5			
29 Aug 2021	8:00 PM	NNW	1.0			
29 Aug 2021	9:00 PM	NW	0.5			
29 Aug 2021	10:00 PM	W	1.0			
29 Aug 2021	11:00 PM	NNW	2.3			
30 Aug 2021	12:00 AM	NW	1.4			
30 Aug 2021	1:00 AM	SE	0.5			
30 Aug 2021	2:00 AM	ENE	0.5			
30 Aug 2021	3:00 AM	NE	0.5			
30 Aug 2021	4:00 AM	E	0.5			
30 Aug 2021	5:00 AM	NNW	1.4			
30 Aug 2021	6:00 AM	NNW	1.0			
30 Aug 2021	7:00 AM	NNW	1.4			
30 Aug 2021	8:00 AM	W	1.4			
30 Aug 2021	9:00 AM	W	1.0			
30 Aug 2021	10:00 AM	WNW	1.0			
30 Aug 2021	11:00 AM	WNW	1.0			
30 Aug 2021	12:00 PM	NW	1.9			
30 Aug 2021	1:00 PM	NW	1.0			
30 Aug 2021	2:00 PM	WNW	1.0			
30 Aug 2021	3:00 PM	WNW	1.4			
30 Aug 2021	4:00 PM	WNW	1.4			
30 Aug 2021	5:00 PM	WINW	1.4			
50 Aug 2021	5.001101	**	1.7			

	August 2021					
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
30 Aug 2021	6:00 PM	WNW	1.4			
30 Aug 2021	7:00 PM	WNW	1.4			
30 Aug 2021	8:00 PM	W	1.4			
30 Aug 2021	9:00 PM	W	1.4			
30 Aug 2021	10:00 PM	WNW	1.4			
30 Aug 2021	11:00 PM	W	1.0			
31 Aug 2021	12:00 AM	ESE	1.0			
31 Aug 2021	1:00 AM	ESE	1.0			
31 Aug 2021	2:00 AM	W	1.4			
31 Aug 2021	3:00 AM	Е	1.4			
31 Aug 2021	4:00 AM	ESE	1.0			
31 Aug 2021	5:00 AM	ESE	1.4			
31 Aug 2021	6:00 AM	Е	1.4			
31 Aug 2021	7:00 AM	Е	1.4			
31 Aug 2021	8:00 AM	E	1.4			
31 Aug 2021	9:00 AM	E	1.9			
31 Aug 2021	10:00 AM	W	2.8			
31 Aug 2021	11:00 AM	WNW	2.8			
31 Aug 2021	12:00 PM	WNW	2.8			
31 Aug 2021	1:00 PM	W	2.8			
31 Aug 2021	2:00 PM	W	2.3			
31 Aug 2021	3:00 PM	W	2.3			
31 Aug 2021	4:00 PM	WNW	2.8			
31 Aug 2021	5:00 PM	W	2.3			
31 Aug 2021	6:00 PM	WNW	2.8			
31 Aug 2021	7:00 PM	W	2.3			
31 Aug 2021	8:00 PM	SW	0.5			
31 Aug 2021	9:00 PM	SSW	0.5			
31 Aug 2021	10:00 PM	SSW	0.5			
31 Aug 2021	11:00 PM	SW	1.0			

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

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

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 (August 2021)

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

Air Quality Monitoring Station

I-hr TSP / 24-hrs TSP AMI - 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(4)⁽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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Sep	2-Sep	3-Sep	4-Sep
						24-hrs TSP
5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep
	1-hr TSP X3				1-hr TSP X3	
	I-nr ISP X3 Noise				1-nr 15P A5	
	110130					
				24-hrs TSP		
12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
10.0	2 0.0				21.2	
19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
26.0	25.0	20.0	20.0	20.0		
26-Sep	27-Sep	28-Sep	29-Sep	30-Sep		
	1-hr TSP X3			1-hr TSP X3		
	Noise					
			24-hrs TSP			
			24-ms 15r			

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (September 2021)

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

Air Quality Monitoring Station

I-hr TSP / 24-hrs TSP AMI - 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(4)⁽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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Oct	2-Oct
3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
	1-hr TSP X3				1-hr TSP X3	
	Noise					
				24-hrs TSP		
24.0-4	25.0-4	26.0.4	27.0.4	28-Oct	29-Oct	30-Oct
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-001	30-Oct
				1-hr TSP X3		
				Noise		
				INOISE		
			24-hrs TSP			
			24-nrs 1SP			
31-Oct						
51-Oct						

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (October 2021)

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov
			1-hr TSP X3 Noise			
		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					24-hrs TSP
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
	1-hr TSP X3 Noise				1-hr TSP X3	
				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			
28-Nov	29-Nov	` 30-Nov				
		24-hrs TSP				

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)

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

Air Quality Monitoring Station

I-hr TSP / 24-hrs TSP AMI - 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(4)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office 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

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

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

APPENDIX E - 1-HOUR TSP MONITORING RESULTS

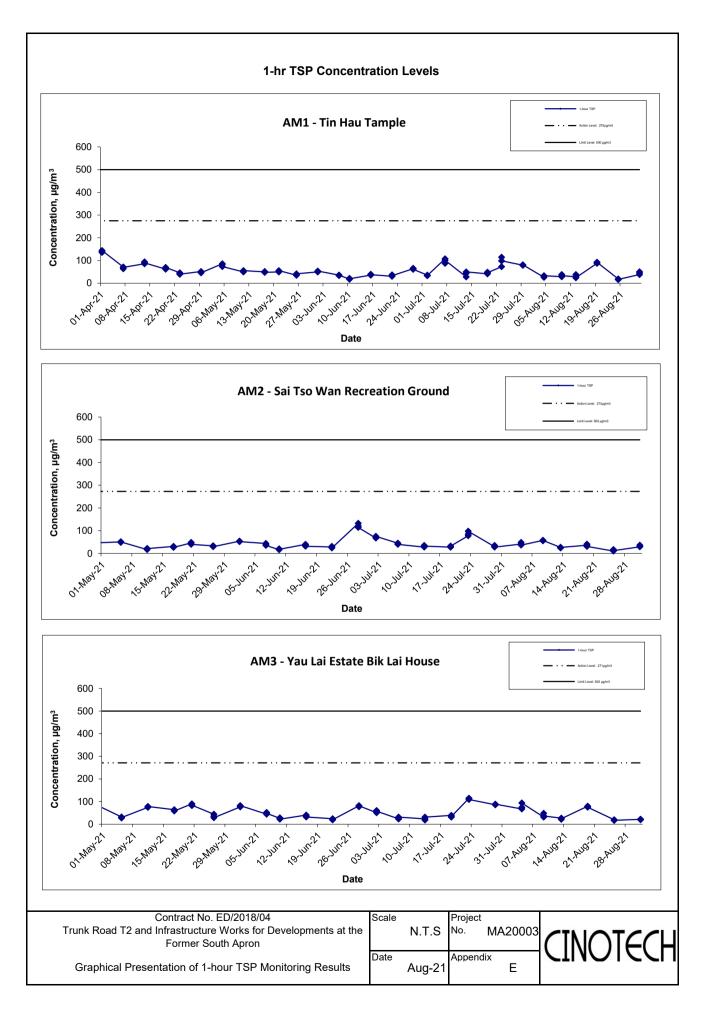
Location AM1 -	Tin Hau Ter	nple	
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Aug-21	13:36	Cloudy	26.4
4-Aug-21	14:36	Cloudy	31.2
4-Aug-21	15:36	Cloudy	33.6
9-Aug-21	13:00	Fine	28.8
9-Aug-21	14:00	Fine	38.4
9-Aug-21	15:00	Fine	33.6
13-Aug-21	13:00	Fine	28.8
13-Aug-21	14:00	Fine	38.4
13-Aug-21	15:00	Fine	24.0
19-Aug-21	13:00	Sunny	88.0
19-Aug-21	14:00	Sunny	92.4
19-Aug-21	15:00	Sunny	92.4
25-Aug-21	9:00	Sunny	19.2
25-Aug-21	10:00	Sunny	16.8
25-Aug-21	11:00	Sunny	16.8
31-Aug-21	13:00	Cloudy	38.4
31-Aug-21	14:00	Cloudy	45.6
31-Aug-21	15:00	Cloudy	50.4
		Average	41.3
		Maximum	92.4
		Minimum	16.8

Location AM2 -	Sai Tso Wa	n Recreation Grou	und
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Aug-21	9:00	Cloudy	41.4
4-Aug-21	10:00	Cloudy	48.3
4-Aug-21	11:00	Cloudy	36.8
9-Aug-21	15:32	Fine	57.2
9-Aug-21	16:32	Fine	55.0
9-Aug-21	17:32	Fine	57.2
13-Aug-21	9:00	Sunny	26.4
13-Aug-21	10:00	Sunny	24.0
13-Aug-21	11:00	Sunny	26.4
19-Aug-21	16:00	Sunny	36.0
19-Aug-21	17:00	Sunny	40.8
19-Aug-21	18:00	Sunny	31.2
25-Aug-21	16:00	Sunny	10.5
25-Aug-21	17:00	Sunny	16.8
25-Aug-21	18:00	Sunny	12.6
31-Aug-21	9:00	Fine	28.8
31-Aug-21	10:00	Fine	31.2
31-Aug-21	11:00	Fine	36.0
		Average	34.3
		Maximum	57.2
		Minimum	10.5

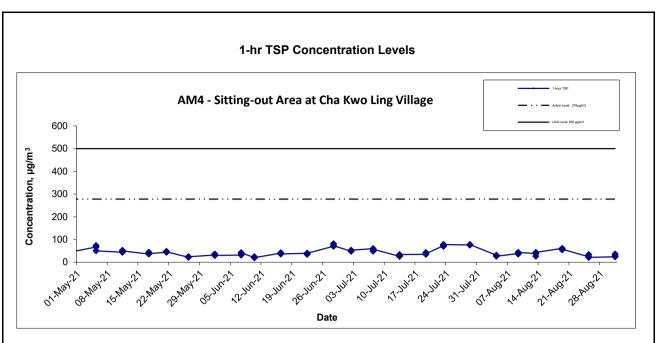
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Aug-21	15:30	Cloudy	67.2
4-Aug-21	16:30	Cloudy	74.4
4-Aug-21	17:30	Cloudy	93.6
9-Aug-21	14:00	Fine	31.2
9-Aug-21	15:00	Fine	48.0
9-Aug-21	16:00	Fine	36.0
13-Aug-21	10:00	Fine	26.4
13-Aug-21	11:00	Fine	21.6
13-Aug-21	13:00	Fine	24.0
19-Aug-21	9:00	Sunny	79.2
19-Aug-21	10:00	Sunny	77.0
19-Aug-21	11:00	Sunny	74.8
25-Aug-21	9:00	Sunny	19.2
25-Aug-21	10:00	Sunny	16.8
25-Aug-21	11:00	Sunny	16.8
31-Aug-21	9:00	Cloudy	21.6
31-Aug-21	10:00	Cloudy	19.2
31-Aug-21	11:00	Cloudy	21.6
		Average	42.7
		Maximum	93.6
		Minimum	16.8

Location AM4 -	Sitting-out A	Area at Cha Kwo I	Ling Village
Date	Time	Weather	Particulate Concentration (µg/m 3)
4-Aug-21	9:15	Sunny	31.2
4-Aug-21	10:15	Sunny	28.8
4-Aug-21	11:15	Sunny	26.4
9-Aug-21	13:00	Fine	38.4
9-Aug-21	14:00	Fine	36.0
9-Aug-21	15:00	Fine	43.2
13-Aug-21	15:00	Fine	38.4
13-Aug-21	16:00	Fine	26.4
13-Aug-21	17:00	Fine	43.2
19-Aug-21	16:00	Sunny	61.6
19-Aug-21	17:00	Sunny	55.0
19-Aug-21	18:00	Sunny	57.2
25-Aug-21	15:30	Sunny	24.0
25-Aug-21	16:30	Sunny	33.6
25-Aug-21	17:30	Sunny	21.6
31-Aug-21	13:00	Cloudy	24.0
31-Aug-21	14:00	Cloudy	36.0
31-Aug-21	15:00	Cloudy	28.8
		Average	36.3
		Maximum	61.6
		Minimum	21.6

APPENDIX E - 1-HOUR TSP MONITORING RESULTS



APPENDIX E - 1-HOUR TSP MONITORING RESULTS



Notes:

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

Contract No. ED/2018/04	Scale		Project	
Trunk Road T2 and Infrastructure Works for Developments at th Former South Apron	e	N.T.S	No. MA20003	
Graphical Presentation of 1-hour TSP Monitoring Results	Date	Aug-21	Appendix E	

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Aug-21	Cloudy	301.2	748.3	3.6803	3.7730	0.0927	8689.7	8713.7	24.0	0.98	0.98	0.98	1407.6	65.9
7-Aug-21	Fine	302.1	753.1	2.7342	2.8600	0.1258	8713.7	8737.7	24.0	0.98	0.98	0.98	1410.2	89.2
12-Aug-21	Sunny	301.8	756.7	3.6889	3.7796	0.0907	8737.7	8761.7	24.0	1.22	1.22	1.22	1755.7	51.7
18-Aug-21	Sunny	302.1	757.8	3.6950	3.8020	0.1070	8761.7	8785.7	24.0	1.22	1.22	1.22	1756.3	60.9
24-Aug-21	Cloudy	302.7	757.3	3.7284	3.8647	0.1363	8785.7	8809.7	24.0	1.22	1.22	1.22	1754.1	77.7
30-Aug-21	Rainy	304.0	759.4	3.7096	3.8763	0.1667	8809.7	8833.7	24.0	1.21	1.22	1.22	1752.9	95.1
													Min	51.7
													Max	95.1
													Average	73.4

Location AM2 - Sai Tso Wan Recreation Ground

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
3-Aug-21	Cloudy	301.2	748.3	2.7644	2.7940	0.0296	29323.0	29347.0	24.0	1.21	1.21	1.21	1747.3	16.9
7-Aug-21	Fine	302.1	753.1	3.6959	3.7431	0.0472	29347.0	29371.0	24.0	1.22	1.22	1.22	1750.4	27.0
12-Aug-21	Sunny	301.8	756.7	3.6971	3.7312	0.0341	29371.0	29395.0	24.0	1.22	1.22	1.22	1756.6	19.4
18-Aug-21	Sunny	302.1	757.8	3.6843	3.7205	0.0362	29395.0	29419.0	24.0	1.22	1.22	1.22	1757.2	20.6
24-Aug-21	Cloudy	302.7	757.3	3.6929	3.7073	0.0144	29419.0	29443.0	24.0	1.22	1.22	1.22	1754.8	8.2
30-Aug-21	Rainy	304.0	759.4	3.6804	3.7658	0.0854	29443.0	29467.0	24.0	1.21	1.22	1.22	1753.5	48.7
													Min	8.2
													Max	48.7

Average 23.5

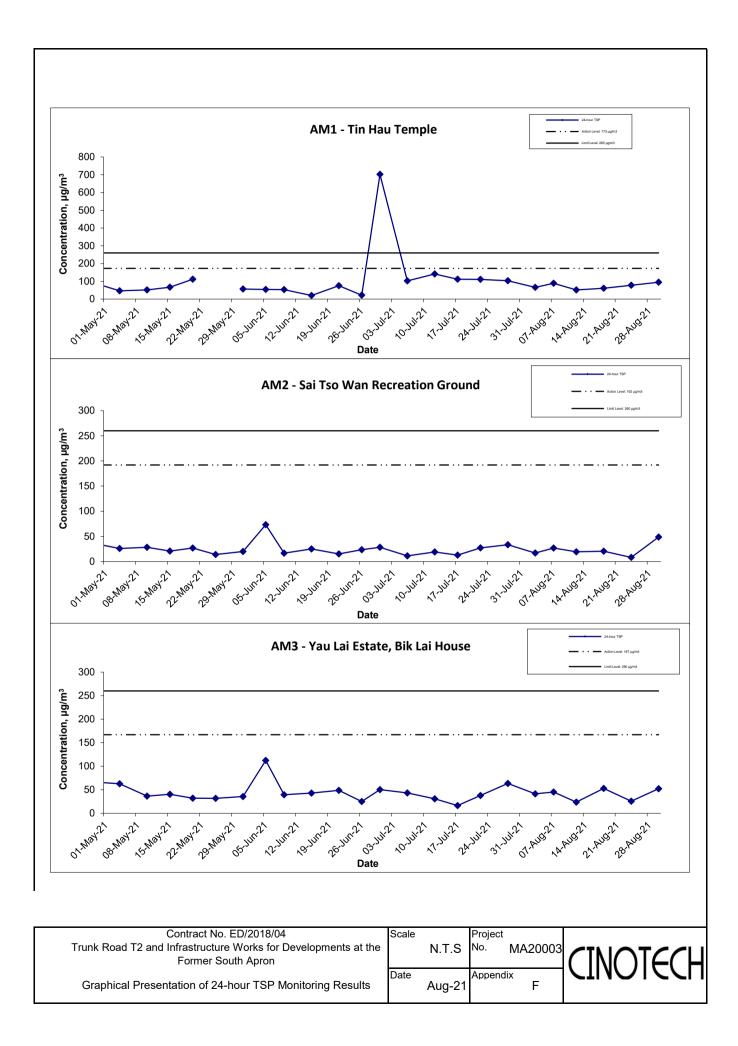
Location AM3 - Yau Lai Estate, Bik Lai House

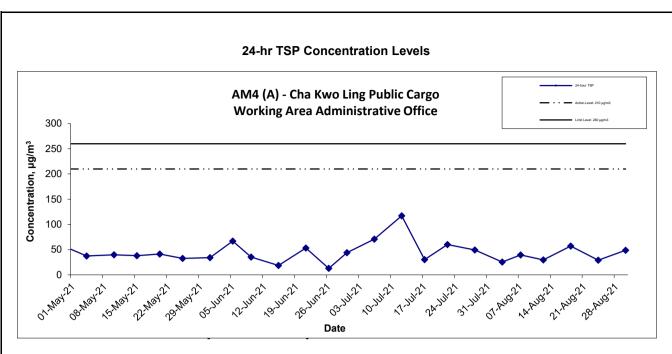
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m³)
3-Aug-21	Cloudy	301.2	748.3	3.6888	3.7612	0.0724	4064.8	4088.8	24.0	1.21	1.21	1.21	1746.2	41.5
7-Aug-21	Fine	302.1	753.1	3.6977	3.7770	0.0793	4088.8	4112.8	24.0	1.21	1.22	1.21	1749.3	45.3
12-Aug-21	Sunny	301.8	756.7	3.7059	3.7477	0.0418	4112.8	4136.8	24.0	1.22	1.22	1.22	1754.3	23.8
18-Aug-21	Sunny	302.1	757.8	3.6886	3.7816	0.0930	4136.8	4160.8	24.0	1.22	1.22	1.22	1754.8	53.0
24-Aug-21	Cloudy	302.7	757.3	3.7264	3.7717	0.0453	4160.8	4184.8	24.0	1.22	1.22	1.22	1752.5	25.8
30-Aug-21	Rainy	304.0	759.4	3.6943	3.7857	0.0914	4184.8	4208.8	24.0	1.21	1.22	1.22	1751.2	52.2
													Min	23.8
													Max	53 O

Max 53.0 Average 40.3

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

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)	$(\mu g/m^3)$
3-Aug-21	Cloudy	301.2	748.3	3.7014	3.7461	0.0447	14421.7	14445.7	24.0	1.21	1.21	1.21	1748.3	25.6
7-Aug-21	Fine	302.1	753.1	2.748	2.8175	0.0695	14445.7	14469.7	24.0	1.22	1.22	1.22	1751.2	39.7
12-Aug-21	Sunny	301.8	756.7	3.7316	3.7837	0.0521	14469.7	14493.7	24.0	1.22	1.22	1.22	1754.0	29.7
18-Aug-21	Sunny	302.1	757.8	3.7196	3.8198	0.1002	14493.7	14517.7	24.0	1.22	1.22	1.22	1754.5	57.1
24-Aug-21	Cloudy	302.7	757.3	3.7036	3.7544	0.0508	14517.7	14541.7	24.0	1.22	1.22	1.22	1752.3	29.0
30-Aug-21	Rainy	304.0	759.4	3.6804	3.7658	0.0854	14541.7	14565.7	24.0	1.21	1.22	1.22	1751.0	48.8
													Min	25.6
													Max	57.1
													Average	38.3





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.
- 4) As the Tin Hau Temple was closed for their renovation works, the electricity supply for HVS at AM1 was suspended on 25 May 2021.

Contract No. ED/2018/04	Scale		Project		
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron		N.T.S	No. N	MA20003	CINOTECH
Graphical Presentation of 24-hour TSP Monitoring Results	Date	Aug-21	Appendix	F	

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

Location CM1 -	Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong												
				Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level						
Date	Time	weather			_		_						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}						
4 Aug 2021	14:45	Cloudy	72.8	75.4	68.4	65.5	72						
9 Aug 2021	14:35	Cloudy	66.8	68.2	65.6	65.5	61						
19 Aug 2021	9:30	Sunny	73.1	75.6	71.4	65.5	72						
25 Aug 2021	9:50	Sunny	73.5	75.8	70.7	65.5	73						
31 Aug 2021	10:00	Cloudy	70.5	73.1	66.1	65.5	69						

Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

					Unit:	dB (A) (30-min)			
Date	Time	Weather	Mea	Measured Noise Level		Baseline Level	Construction Noise Level		
Date	Time	Weather							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
4 Aug 2021	16:00	Cloudy	74.9	77.6	70.6	63.6	75		
9 Aug 2021	14:00	Cloudy	69.2	70.5	67.7	63.6	68		
19 Aug 2021	9:00	Sunny	74.4	76.5	72.7	63.6	74		
25 Aug 2021	9:05	Sunny	73.5	75.9	70.4	63.6	73		
31 Aug 2021	11:00	Rainy	71.7	74.0	68.9	63.6	71		

Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

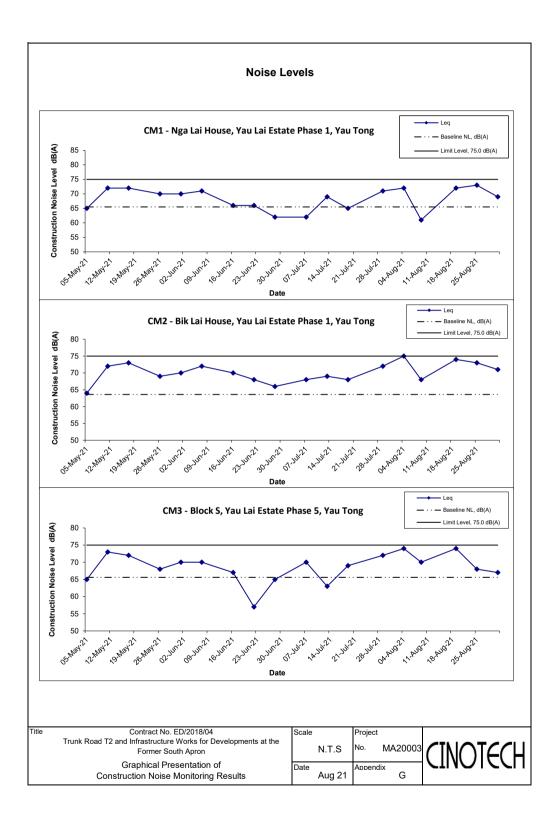
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level		
Baio		W out for	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4 Aug 2021	13:45	Cloudy	74.8	78.6	69.3	65.6	74	
9 Aug 2021	15:15	Fine	71.0	73.1	68.6	65.6	70	
19 Aug 2021	10:15	Sunny	74.3	75.8	72.3	65.6	74	
25 Aug 2021	10:35	Sunny	70.0	71.3	68.6	65.6	68	
31 Aug 2021	9:00	Cloudy	69.5	70.8	68.1	65.6	67	

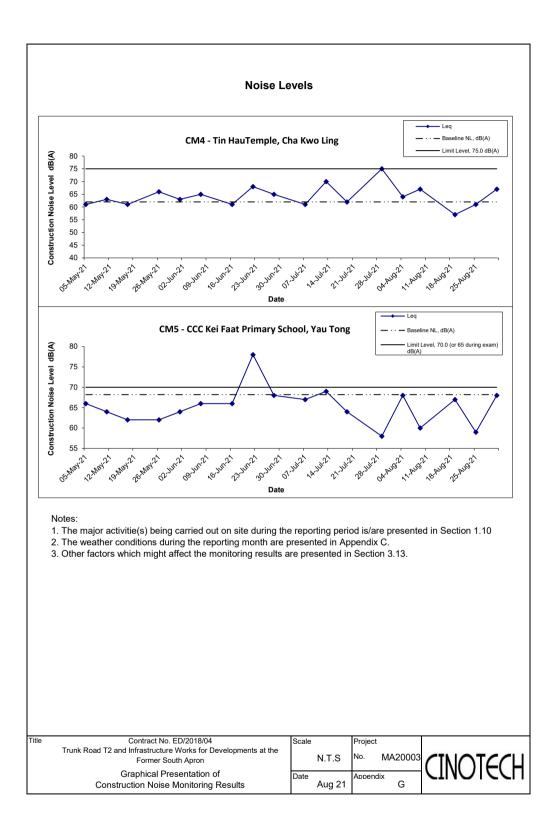
Location CM4 - Tin Hau Temple, Cha Kwo Ling

	i initiaa rompio, ona ratio Emg								
				Unit:					
Date	Time	Weather	Meas	Measured Noise Le		Baseline Level	Construction Noise Level		
Date	Time	Wedner	1	La	1	I	I		
			∟ eq	L_10	L 90	∟ eq	∟ eq		
4 Aug 2021	10:30	Cloudy	66.4	68.6	62.0	62.0	64		
9 Aug 2021	13:00	Fine	67.9	69.7	65.3	62.0	67		
19 Aug 2021	13:30	Sunny	63.3	64.9	61.5	62.0	57		
25 Aug 2021	13:55	Sunny	60.6	63.5	55.1	62.0	61 Measured ≦ Baseline		
31 Aug 2021	14:00	Cloudy	68.2	70.3	63.3	62.0	67		

Location CM5 - CCC Kei Faat Primary School, Yau Tong

					Unit:	dB (A) (30-min)			
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level		
Buto	Timo	Wouthor	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
4 Aug 2021	13:00	Cloudy	68.0	70.7	63.7	68.2	68 Measured ≦ Baseline		
9 Aug 2021	13:30	Fine	68.8 70.7		66.2	68.2	60		
19 Aug 2021	11:00	Sunny	67.2	69.1	65.7	68.2	67 Measured ≦ Baseline		
25 Aug 2021	11:30	Sunny	68.7	68.7 70.8 68.2 70.3		68.2	59		
31 Aug 2021	13:00	Cloudy	68.2			68.2	68 Measured ≦ Baseline		





APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2021 (CKL)

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

	Actual Quantities of Inert C&D Materials Generated Monthly Actual Quan							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											
October											
November											
December											
Total	46.514	46.183	0.000	46.182	0.332	0.000	0.000	0.000	0.000	5.800	0.069

Monthly Summary Waste Flow Table

Notes:

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

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

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

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

APPENDIX I SITE AUDIT SUMMARY

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

Weekly Site Inspection Record Summary Inspection Information 210805 Checklist Reference Number 210805 Date 05 Aug 2021 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210729), no major environmental deficiency was identified during previous session. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	5 Aug 2021
Checked by	Karina Chan	Zalle	5 Aug 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210812
Date	12 August 2021 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No Water Quality deficiency was identified during site inspection	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
210812 - R1	<i>D. Construction Noise Impact</i>Noise barriers were not erected properly.	D7
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210805), no major environmental deficiency was identified during previous session. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	12 August 2021
Checked by	Karina Chan	Zelle	12 August 2021

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

Weekly Site Inspection Record Summary Inspection Information 210820 Checklist Reference Number 210820 Date 20 Aug 2021 (Friday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	D. Construction Noise Impact	
	 No environmental deficiency was identified during site inspection. <i>E. Waste/Chemical Management</i> 	
	 No environmental deficiency was identified during site inspection. 	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210812), All items was rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	20 Aug 2021
Checked by	Karina Chan	Zelle	20 Aug 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210826
Date	26 August 2021 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection	
210826 - R1	<i>C. Air Quality</i>Contractor is reminded to spray water on potential dust generated areas.	C15
	 <i>D. Construction Noise Impact</i> No environmental deficiency was identified during site inspection. 	
	 <i>E. Waste/Chemical Management</i> No environmental deficiency was identified during site inspection. 	
	 <i>F. Visual and Landscape</i> No environmental deficiency was identified during site inspection. 	
	 <i>G. Permits/Licences</i> No environmental deficiency was identified during site inspection. 	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210820), no major environmental deficiency was identified during previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	26 August 2021
Checked by	Karina Chan	Zelle	26 August 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	ir Quality								
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	АРСО			
\$3.8.1	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. Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be at the maximum possible distance from ASRs 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			
1	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО			

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 (Consti	Noise Impact (Construction Phase)								
S4.8	 Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump. 	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO			
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO			
S4.9	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throtted 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)	-							
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO			
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seavall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO			
\$5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO			
Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO			

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the 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)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the 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
S5.8.5	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?
S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekceeping 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 runnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8 S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps; and	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	 adequate maintenance of drainage systems to prevent flooding and overflow. 					
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$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
\$5.8.12	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 ² 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
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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
\$5.8.20	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
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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 scepage pumped out of tunnels or eaverns 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 piczometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality mount would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
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?
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run- off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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

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S6.8.5	Standard Good Site Practice Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses. 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	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 colonics, except the locally common <i>Oulastrea crispata</i>, within the reclanation 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 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

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S6.8.9 S6.8.10	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
\$6.8.11	Compensation for Vegetation Loss • Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. 	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management (Construction Phase)					
S8.6.3	 Good Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	 Good Site Practices and Waste Reduction Measures (con't) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	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
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

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S8.6.7	 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	 Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	Sorting of C&D Materials Sorting 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
S8.6.17 - S8.6.20	 Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 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 seawated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slury to the surrounding water. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

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	 In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 					
S8.6.24 - S8.6.28/ Waste Management Plan	 Sediments (con*t) The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The 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 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 controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facili	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	Chemical Wastes. If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical 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

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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 Smm/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

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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: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	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

IA 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 th measures to achieve?
	 Safety Measures 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 also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately site offices, or any other buildings located within the Sai Too Wan Landfill Consultation Zone which have enclosed spaces with the capacity to be free of landfill gas, then they should be the buildings located within the Sai Too Wan Landfill Consultation Zone which have enclosed spaces with the capacity to be free of landfill gas, then they should be the structure which has been proven			Location of the measures		
S11.5.10 S11.5.25	 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 have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zome which have reclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas, then they should either be located in an area which has been proven to be free of landfill gas, then they should either be located in an area which has been proven to be free of landfill gas, then they should either be located in an area which has been mixed and we unintum of 500mm. This aims to create a clear void under the structure which is wentilated by natural air movement such that	Protect the workers from landfill gas hazards	Contractor	Tso Wan Landfill	Construction phase	Guidance Note Labour Departme of Practice for Safety and Health a
	 Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. 					
	 During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. Fire drills should be organized at not less than six monthly intervals. 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	 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"; tutilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should neal and the appropriate of working in confined spaces such as maholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 					
S11.5.26 - S11.5.31	 Monitoring Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. For excavations deeper than 1m, measurements should be carried out: at the ground surface before excavation commences;- immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation remains open; and periodically throughout the working day whilst workers are in the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: directly after the excavation has been completed; and periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. The exact frequency of monitoring hould be carried out to a suitably qualified person. The exact frequency of monitoring end be arried out to submitted be at set of safe working conditions with copies of the site dary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

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

Key:

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

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

- # Follow up action will be reported in next reporting month
- * Non-compliance of mitigation measure
- · Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status			
Air Quality							
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	Contractor is reminded to spray water on potential dust generated areas.	26 Aug 2021	#			
Construction 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).	Noise barriers were not erected properly.	12 Aug 2021	~			
Water Quality	7 Impact						
Ecological Im	pact						
Fisheries Imp	act						
Waste Manag	ement						
Landscape and	d Visual Impact	-					
Landfill Gas H	Iazards						

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

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

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

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

Event and Action Plan for Construction Noise

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

Parameter	Limit Level	Action		
	<19%	• Ventilate to restore oxygen to >19%		
Ovugan		• Stop works		
Oxygen	<18%	• Evacuate personnel/prohibit entry		
		• Increase ventilation to restore oxygen to >19%		
	>100/1 EL (i a > 0.50/hy yalyma)	• 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		
		\bullet Increase ventilation to restore carbon dioxide to ${<}0.5\%$		

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

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

Reporting Month: August 2021

Table M1Summary 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.

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

Reporting Month: August 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
Complaint #N04	Portion T1	9-Feb- 2021 6 March 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 complainant informed that they continues to hear breaking noise during 3- 4 a.m. and caused serious noise nuisance to	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. A valid CNP was hold and the construction activities being taken were 	Closed
			the residents.		 complied with the relevant CNP. Blast door was fully enclosed when 	

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

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

Reporting Month: August 2021

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

Log Ref. Locatio	n 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. 	

Reporting Month: August 2021

APPENDIX N SUMMARY OF EXCEEDANCE

Contract No. ED/2018/04

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

Appendix N – Summary of Exceedance

Reporting Period: August 2021

(A) Exceedance Report for Air Quality

No Action/ Limit Level exceedance of 24hr 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

ctivity Name	Dur	r 02V0 Start	02V0 Finish	1 Start	Finish		endix A
						May June July August September October Nov	November
ED/2018/04 - Trunk Road T2	538	8 25 - Aug-20	21-Jun-22	25-Aug-20 A	A 19-Feb-22		
DESIGN SUBMISSION & APPROVAL	513	3 23-Sep-20	21-Jun-22	28-Oct-20 A	12-Jan-22		
GENERAL	359	9 06-Oct-20	20-Dec-21	30-Dec-20 A	A 14-Dec-21		
Design Memorandum	0	06-Oct-20	06-Oct-20				
Design Memorandum - Further Information required	0	,	,			Design Memorandum - Futther Information required	
Design Memorandum - 7th Sub	0	,	,)	16-May-21 A	Design Memorandum - 7th Sub	
Design Memorandum - Approval	0	· · · · · · · · · · · · · · · · · · ·	06-Oct-20		07-Jun-21 A	◆ Design Memorandum - Approval	
Design Memorandum - 7th Review	0	1	,	17-May-21 A	A 07-Jun-21 A	Design Memorandum - 7th Review	
Construction Traffic Impact Assessment - Kai Tak Area	0	06-Oct-20		-			
CTIA Kai Tak Area - Resubmission	0	,	,	03-May-21 A	A 19-Aug-21 A	CTIA Kại Tak Area - Resubmission	
CTIA Kai Tak Area - 6th Sub	0	7	7		19-Aug-21 A	◆ CTIA Kai Tak Area - 6th Sub	
CTIA Kai Tak Area - Approval	0	,	06-Oct-20		18-Sep-21	CTIA Kai Tak Area - Approval	
CTIA Kai Tak Area - 6th Review	0	1		20-Aug-21 A	A 18-Sep-21	CTIA Kai Tak Area - 6th Review	
ACABAS - Western Tunnel Portal	30	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A		
DDA - 2nd Review by SO	35	20-Nov-20	24-Dec-20		-	DDA-2nd Review by SO	
DDA - SO Consent for Construction	0		24-Dec-20	-	18-May-21 A	◆ DDA - SQ Consent for Construction	
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	01-Apr-21 A	10-Sep-21		
AIP - 3rd Review by SO	0	,				AIP - 3rd Review by SO	
AIP - Further information required by SO	0			06-May-21 A	A 28-May-21 A	AIP - Further information required by SO	
AIP - 4th Sub	0			+	28-May-21 A	▲ AIP - 4th Sub	
AIP - 4th Review by SO	0		'		A 29-Jun-21 A	AIP - 4th Review by SO	
AIP - Further information required by SO	0		'			AIP - Further information required by SO	
AIP - 5th Sub	0		'		31-Jul-21 A	◆ AIP - 5th Sub	
AIP - SO Consent for DDA Submission	0		16-Feb-21		10-Sep-21	◆ AIP - \$O Consent for DDA Submission	
AIP - 5th Review by SO	0	·	,	31-Jul-21 A	· · ·	AIP - 5th Review by \$O	
DDA Roadworks and Street Furniture	76		21-May-21		· ·	✓ DDA Roadworks and Street Furniture	
DDA - Draft - Preparation by Designer	36		29-Mar-21	11-Sep-21			reparation by Desig
DDA - Draft - Final Review and prepare for 1st Sub	18		23-Apr-21	27-Oct-21	16-Nov-21	<u>╭</u> ──┤──┤──┤──┤──┤──┤──┤──┤──┤──┤──┤──┤──┤	DDA - Draft
DDA - 1st Sub	0		23-Apr-21		16-Nov-21	<u>╭</u> ╶╌╴┋╌╌╴┋╌╴╴┋┨╌╴┋╌╴╴┋╌╴┋╌╴┋╌╴┋╌╴┋╌╴╴┋╌╴╴┋╌	DDA - 1st Si
DDA - Review by SO	28			17-Nov-21		<u>┍╍╍╘╍╍</u> ┇╍╍┇┨╍╍┇╍╍┇╍╍┇╍┰┇╍┇╍┇╍╍┇╍╍┇╍╍┇╍╍┇╍╍┇╍╍┇╍╍┇╍┟╽┪╬╍╍┇╍╍┇╍╏╡╋╍╍┇╍╍╏╍╸╏╍╸╏╍╸╏	
DDA - Review by SO DDA - Review by IP / DC	20	· · ·	21-May-21 21-May-21				
		· ·	-			╓ ╶──┊╌╴┊╌╴┊╎╴┊╎╴┊╷╴┊╴╴┊╴╴┊ ╌╴┊╌╴┊╌╴┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╵┊╵╎╴┊ _{┯╾} ┊ <u>╶╴┊╶╴┊╶╴┊╴╴┊╴╴</u> ┊	· · · · · · · · · · · · · · · · · · ·
DDA Traffic Sign, Road Marking & Sign Gantry DDA - Review by IP / DC	75 28			-			
DDA - Review by SO	20					DDA- Review by IF / DC	
DDA - Review by SO DDA - Further information required by SO	28		18-Oct-21 15-Nov-21		-		茾 DDA - Furthe
	_		15-Nov-21 15-Nov-21	-			DDA - Furth
DDA - 2nd Sub	0				22-Jun-21 A		
DDA - 2nd Review by SO	35		20-Dec-21				
DDA - Further information required by SO	0		,	09-Jul-21 A	· ·	DDA - Further information required by SO	,
DDA - 3rd Sub	0			I	08-Sep-21	◆ DDA - 3rd Sub	
DDA - SO Consent for Construction	0		20-Dec-21		13-Oct-21		
DDA - 3rd Review by SO	0		,	09-Sep-21		DDA - 3rd Review by SO	
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	0		22-Jan-21				
DDA - Further information required by SO	0	/	,	16-Apr-21 A	07-Jun-21 A	DDA - Further information required by SO	
	0	-		1	07-Jun-21 A	◆ DDA - 4th Sub	

Page 1 of 24 Data Date: 03-Sep-21

tone

Summary

Actual Milestone
 Actual Work

Baseline Bar

Activity

Baseline Milestor

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

BOUYGUES

S ICS)	

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		M				lune			lubr		1	2021	4		Com	t one h o r			Ostabar		le comb e r
						02	Ma 09		23 30	0 06	June 13 20	27	04	July 11			August		29		otember 12 19	26	03	October 10 17		Vovember 14 21 2
DDA - 4th Review by SO	0			08-Jun-21 A	15-Jul-21 A										DDA - 4th Re	· · ·										
DDA - Further information required by SO	0			16-Jul-21 A	10-Sep-21					1											:		mation rec	quired by SO		
DDA - 5th Sub	0				10-Sep-21															♦ D	DA - 5th S	Sub		1		
DDA - SO Consent for DDA Submission	0		22-Jan-21		25-Oct-21		+																		◆ DDA - SO Cons	ent for DDA Subm
DDA - 5th Review by SO	0			11-Sep-21	25-Oct-21					· · · · · · · · · · · · · · · · · · ·	 								****		4				DDA - 5th Revie	w by SO
DDA Structural Health Monitoring System (SHMS)	133	28-Dec-20	11-Jun-21	23-Mar-21 A	05-Jul-21 A		+				DDA Structu	ral Heal	Ith Monito	oring Sy	ystem (SHMS	5)			+							
DDA - Draft - Preparation by Designer	36	28-Dec-20	08-Feb-21	23-Mar-21 A	05-May-21 A																			 		·
DDA - Draft - Final Review and prepare for 1st Sub	24	09-Feb-21	11-Mar-21	06-May-21 A	13-May-21 A			DDA - Dra	ıft - Final	Review ar	d prepare for	1st Sub)										- 4	 		
DDA - 1st Sub	0		11-Mar-21		13-May-21 A	1	♦ [DDA - 1st	Sub										·							
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Page 2 of 24 Milestone	V	Summary																				Date	e	Revision	Checked	Approved
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021
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DDA WVB - ELS Design (DC RA + Dewatering & Pumping T	0	08-Feb-21	08-Feb-21	02-Apr-21 A	27-Jul-21 A			
DDA - 4th Review by SO	0			02-Apr-21 A	04-May-21 A	DDA - 4th Review by SO		
DDA - Further information required by SO	0			05-May-21 A	11-May-21 A	DDA - Further information required by \$O		
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DDA - 6th Review by SO	0			21-Jul-21 A	27-Jul-21 A			DA - 6th Review by SO
DDA WVB - Accommodation (SoA)	79	30-Dec-20	09-Apr-21	29-Oct-20 A	16-Sep-21	nodation (SoA)		
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 A		DDA - Further info	ormation required by SO
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DDA - SO Consent for Construction	0		09-Apr-21		16-Sep-21			
DDA - 3rd Review by SO	0			13-Jul-21 A	16-Sep-21			
DDA WVB - Permanent Structure	78	11 - Mar-21	17-Jun-21	03-Feb-21 A	17-Jul-21 A	DDA WVB - Perma	anent Structure	
DDA - Further information required by SO	30	08-Apr-21	13-May-21	20-Mar-21 A	13-May-21 A	DDA - Further information required by SO		
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DDA WVB - ABWF	151	11 - Mar-21	11-Sep-21	14-May-21 A	24-Dec-21			
DDA - Draft - Preparation by Designer	45	11-Mar-21	07-May-21	14-May-21 A	14-Aug-21 A			DDA - Draft - Prepara
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DDA WVB - General Building Plan	77	16-Jun-21	14-Sep-21	28-Oct-20 A	16-Sep-21	· · · · · · · · · · · · · · · · · · ·		
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DDA WVB - Aesthetic Design	199	14-Nov-20	20-Jul-21	18-Feb-21 A	20-Nov-21		DDA WVF	B - Aesthetic Design
DDA - Draft - Preparation by Designer	48	14-Nov-20	12-Jan-21	18-Feb-21 A	03-May-21 A	DDA - Draft - Preparation by Designer		
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Page 3 of 24 Data Date: 03-Sep-21 Milestone
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for Developments at South Apron Three Months Rolling Programme (Aug-21)

ED/2018/04 Trunk Road T2 and Infrastructure Works

BOUYGUES TRAVAUX PUBLICS

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09-Apr-20	01V1	SPa/LLo	WYu
17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
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AIP - SO Consent for DDA Submission	0		30-Oct-20		10-May-21 A		AIP - SO	Consent	for DDA Sub	mission														
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DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking	0	25-May-21	25-May-21	16-Apr-21 A	,						ent, Traffic Si	an. Road M	Aarking and	d Traffic Lig	nt:									;
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[STE] DDA CUE L10 (N) Permanent Works	29	06-Oct-21	09-Nov-21	02-Apr-21 A	08-Oct-21	 																	▼ [STE] DD	A CUE
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Page 4 of 24 Data Date: 03-Sep-21

Planned Bar Ortical Activity Actual Milestone

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Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August September October November 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 22
DDA - Further information required by SO	0			15-May-21 A	28-May-21 A	A DDA - Further information required by SO
DDA - 3rd Sub	0				28-May-21 A	A DDA3rd Sub
DDA - 3rd Review by SO	0			28-May-21 A	23-Jun-21 A	DDA - 3rd Review by SO
DDA - Further information required by SO	0			23-Jun-21 A	26-Aug-21 A	A DDA - Further information required by SO
DDA - 4th Sub	0				26-Aug-21 A	A DDA - 4th Sub
DDA - SO Consent for Construction	0		09-Nov-21		08-Oct-21	◆ DDA - SQ Conser
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[STE] DDA District Cooling System Permanent Works	0	09-Dec-20	09-Dec-20	13-Apr-21 A	21-Sep-21	
DDA - 3rd Review by SO	0			13-Apr-21 A	06-May-21 A	DDA - 3rd Review by SO
DDA - Further information required by SO	0			07-May-21 A	02-Sep-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				02-Sep-21 A	A DDA - 4th Sub
DDA - SO Consent for Construction	0		09-Dec-20		21-Sep-21	DDA - \$Q Consent for Construction
DDA - 4th Review by SO	0			03-Sep-21 A	21-Sep-21	DDA - 4th Review by SO
[STE] AIP Kai Hing Road / Lam Chak Street Modification	24	03-Nov-21	30-Nov-21	03-Nov-21	30-Nov-21	
AIP - Draft - Preparation by Designer	24	03 - Nov-21	30-Nov-21	03-Nov-21*	30-Nov-21	
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	30-Apr-21 A	15-Jun-21 A	
DDA - Further information required by SO	0			30-Apr-21 A	27-May-21 A	DDA - Further information required by SO
DDA - 5th Sub	0				27-May-21 A	A DDA - 5th Sub
DDA - SO Consent for Construction	0		16-Dec-20		15-Jun-21 A	DDA - SQ Consent for Construction
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A	DDA - 5th Review by SQ
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22-Dec-20	22-Dec-20	03-May-21 A	27-Aug-21 A	
DDA - Further information required by SO	0			03-May-21 A	09-Jul-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				09-Jul-21 A	
DDA - 4th Review by SO	0			10-Jul-21 A	26-Jul-21 A	DDA - 4th Review by SO
DDA - Further information required by SO	0			27-Jul-21 A	05-Aug-21 A	DDA - Further information required by SO
DDA - 5th Sub	0				05-Aug-21 A	A DDA - \$th Sub
DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A	◆ D₽A - SO Consent for Construction
DDA - 5th Review by SO	0			06-Aug-21 A	27-Aug-21 A	DDA -5th Review by SO
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	0	03-Dec-20	03-Dec-20	13-Apr-21 A	13-May-21 A	
DDA - SO Consent for Construction	0		03-Dec-20		13-May-21 A	A DDA - SO Consent for Construction
DDA - 4th Review by SO	0			13-Apr-21 A	13-May-21 A	DDA - 4th Review by \$O
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	21-Apr-21 A	15-Jul-21 A	
DDA - Further information required by SO	0			21-Apr-21 A	20-May-21 A	
DDA - 5th Sub	0				20-May-21 A	A DDA - 5th Sub
DDA - SO Consent for Construction	0		03-Dec-20		15-Jul-21 A	DDA - SO Consent for Construction
DDA - 5th Review by SO	0			21-May-21 A	15-Jul-21 A	DDA - 5th Review by \$O
[STE] AIP Road L10 (N)	69	24-Dec-21	21-Mar-22	01-Apr-21 A	15-Oct-21	
AIP - Review by SO	28	24-Dec-21	20-Jan-22	01-Apr-21 A	20-May-21 A	
AIP - Review by IP / DC	28	24-Dec-21	20-Jan-22	01-Apr-21 A	08-Jul-21 A	
AIP - Further information required by SO	0			20-May-21 A	08-Jul-21 A	AIP - Further information required by SO
AIP - 2nd Sub	0				08-Jul-21 A	AIP - 2ŋd Sub
AIP - 2nd Review by SO	0			08-Jul-21 A	21-Jul-21 A	AIP - 2nd Review by SO
AIP - Further information required by SO	24	21-Jan-22	21-Feb-22	22-Jul-21 A	10-Aug-21 A	
AIP - 3rd Sub	0		21-Feb-22		10-Aug-21 A	
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Page 5 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



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

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[STE] DDA Road L10 (N) - Permanent Utility Design	72 22	-Mar-22	21-Jun-22	12-Jul-21 A	16-Oct-21																			
DDA - Draft - Preparation by Designer	6 22	Mar-22	28-Mar-22	12-Jul-21 A	23-Jul-21 A																			
DDA - Draft - Final Review and prepare for 1st Sub	6 29	-Mar-22	04-Apr-22	24-Jul-21 A	28-Jul-21 A								🗖						 					
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Page 6 of 24	Sumr	nary																	Date	e Re	evision	Checke	d App	proved
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021																
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DDA - 2nd Review by SO	35	18 - May-22	21-Jun-22	17-Sep-21	21-Oct-21													i i	i i			
SUPPORTING UNDERGROUND STRUCTURE [SUS]	205	03-Oct-20	15-Jun-21	03-May-21 A	23-Dec-21					V SUPPOI	RTING UNI	DERGROUN	O STRUCTUR	e [SUS]								
AIP SUS - Internal Structure	145	03-Oct-20	29-Mar-21	03-May-21 A	15-Oct-21	1																
AIP - Draft - Preparation by Designer	72	03-Oct-20	29-Dec-20	03-May-21 A	12-Jun-21 A		1 I 1 I			AIP - Draft	- Preparatio	on by Designe	er									
AIP - Draft - Final Review and prepare for 1st Sub	14	30-Dec-20	15-Jan-21	14-Jun-21 A	23-Jun-21 A								w and prepare									
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AIP - Update & prepare for 2nd Sub	12	16-Feb-21	01-Mar-21	20-Jul-21 A	16-Sep-21					 	- 4						AIP -	Update & prepa	are for 2nd Su	ub		
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AIP - SO Consent for DDA Submission	0		29-Mar-21		15-Oct-21														♦ AIP	- SO Consei	nt for DDA Sub	mission
DDA SUS - Interna I Structure	60	30-Mar-21	15-Jun-21	15-Oct-21	23-Dec-21		· 			🔻 DDA SU	IS - Interna	Structure										
DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	15-Oct-21	25-Nov-21		+															DD
DDA - Draft - Final Review and prepare for 1st Sub	24	17 - May-21	15-Jun-21	26-Nov-21	23-Dec-21			- -	L J													
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	133	17 - Nov-20	03-May-21	30-Nov-20 A	15-Oct-21	- ▼ C8	C TUNNEL / I	LAUNCHIN	G SHAFT [C	&C / L\$]	-+											
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	0	22-Dec-20	22-Dec-20	24-Apr-21 A	14-Sep-21																	
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A		· · ·	: :	DDA -	Further inform	nation requ	ired by SO										
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DDA - Further information required by SO	0			17-Jul-21 A	08-Sep-21												DDA - Furthe	information rec	quired by SO			
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DDA - SO Consent for Construction	0		22-Dec-20		14-Sep-21		· · · · · · · · · · · · · · · · · · ·										◆ DDA - \$	SO Consent for	Construction			
Stage 2A Completion	0		22-Dec-20		14-Sep-21					· · · · · · · · · · · · · · · · · · ·							♦ Stage 2	ACompletion				
DDA - 5th Review by SO	0			09-Sep-21	14-Sep-21												DDA -	oth Review by S	SQ			
DDA - LS Tympanum Structure for TBM Launching	61	16-Feb-21	03-May-21	29-Jan-21 A	16-Jun-21 A		DA - LS Tympa	num Struc	ture for TBM	Launching	-+											
DDA - Further information required by SO	36	16-Feb-21	29-Mar-21	29-Jan-21 A	22-May-21 A		· · · · · · · · · · · · · · · · · · ·	DDA - F	urther inform	nation require	d by \$O											
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DDA - SO Consent for Construction	0		03-May-21		16-Jun-21 A	◇				🔶 DDA - S	SO Conser	t for Construc	ction									
DDA - 2nd Review by SO	35	30-Mar-21	03-May-21	23-May-21 A	16-Jun-21 A		+	- <u>-</u>		DDA-2	2nd Review	/ by \$O										
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scher	0	03-Mar-21	03-Mar-21	24-Apr-21 A	13-Sep-21	ne)																
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A		· • • • • • • • • • • • • • • • • • • •		DDA -	Further inform	nation requ	ired by SO										
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DDA - SO Consent for Construction	0		03-Mar-21		13-Sep-21						-+		·····				🔶 DDA - S	Consent for C	Construction			
DDA - C&C/LS Temporary Structure (SG Scheme)	111	17-Nov-20	01-Apr-21	30-Nov-20 A	04-Oct-21	ructure	(SG Scheme)														· · · · · · · · · · · · · · · · · · ·	
DDA - Draft - Preparation by Designer	18	17-Nov-20	07-Dec-20	30-Nov-20 A			+		L J	DDA - Draft	t Preparat	ion by Desigr	ier									
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Page 7 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2021								
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DDA - SO Consent for Construction	0		01-Apr-21		04-Oct-21															DDA - S	O Consent fo	r Construction	
DDA - 2nd Review by SO	35	26-Feb-21	01-Apr-21	31-Aug-21 A	04-Oct-21															DDA - 2r	nd Review by	SO	
DDA - LS Thrust Frame / Blocks for TBM Launching	87	22-Nov-20	10-Mar-21	20-Feb-21 A	15-Oct-21																		
DDA - Further information required by SO	36	21-Dec-20	03-Feb-21	17-Mar-21 A	07-Jun-21 A		*	······	DDA -	Further inform	mation require	ed by SO											
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SUB-SEA TBM TUNNEL	220	29-Nov-20	28-Aug-21	02-Jan-21 A	06-Dec-21	1 	, , , , , , , , , , , , , , , , , , ,								-								
DDA - Special Segment for CP construction	81	13-Dec-20	20-Aug-21 24-Mar-21	20-Mar-21 A	30-Aug-21 A	tuction																	
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	21-Apr-21 A	-			·····) DDA - Furth	er informat	ion requir	ed bv:SO						
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DDA - Sub-sea Tunnel - TBM Confinement DDA - Draft - Preparation by Designer	132 36	02-Jan-21 02-Jan-21	16-Jun-21 16-Feb-21	02-Jan-21 A	21-Oct-21 01-May-21 A		- Draft - Prena	ration by Design	I	V DDA - Sut													
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DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD	73	29-Nov-20	01-Mar-21	28-Apr-21 A	21-Oct-21	1 1 1									, , , ,								
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DDA - Draft - Preparation by Designer	30	02-Mar-21	09-Apr-21	02-Jun-21 A	26-Jul-21 A									0A - Draft -	Preparation	h by Desig	ner						
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Apr-21	08-May-21	27-Jul-21 A	03-Aug-21 A	1								DDA	- Draft - Fin	al Review	/ and prep	are for 1st Su	ıb				
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Page 9 of 24 Data Date: 03-Sep-21 led Bar al Activity

Actual Work

Baseline Milestone
 Baseline Bar

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

BOUYGUES

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

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DDA - SO Consent for Construction	0	• 	08-Oct-21		29-Oct-21																				<u> </u>	•	DDA - S	SO Consent fo	or Construc
TUNNEL E&M INSTALLATION & COMMISSIONING	265	17-Oct-20	08-Sep-21	23-Dec-20 A	14-Dec-21							· · · · · · · · · · · · · · · · · · ·									· · · · · · · · · · · · · · · · · · ·	' TUNNE	E E&M INS			MISSIONIN			
DDA - E&M Tunnel Ventilation Design (SG Scheme)	163	29-Oct-20	20-May-21	30-Mar-21 A	21-Oct-21			🗕 🗸	DA - E&I	M Tunnel	IVentilatio	n Design	(SG \$c	heme)															
DDA - Draft - Preparation by Designer	48	29-Oct-20	23-Dec-20	30-Mar-21 A	08-May-21 A		DDA -	Draft + P	reparati	on by De	signer	·																	
DDA - Draft - Final Review and prepare for 1st Sub	24	24-Dec-20	23-Jan-21	08-May-21 A	22-May-21 A				DDA - D	raft - Fina	al Review	and prep	are for 1	lst Sub															
DDA - 1st Sub	0		23-Jan-21		22-May-21 A		+	• •	DDA - 1	st Sub															·}				
DDA - Review by SO	28	24-Jan-21	20-Feb-21	22-May-21 A	-			 		¦	DDA - Re	view by S	30										· · · · · · · · · · · · · · · · · · ·						
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			1																					ato	Revie	· · · ·	Checke		nroved

Page 11 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Vanned Bar
 Critical Activity

Actual Work

Baseline Bar

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

BOUYGUES

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	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
1	17-Jul-20	01V2	SPa/LLo	WYu
/	09-Oct-20	01V3	SPa/LLo	WYu
	02-Ju l -21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29
DDA - Review by IP / DC	28	24-Jan-21	20-Feb-21	23-May-21 A	09-Sep-21	
DDA - Further information required by SO	42	22-Feb-21	15-Apr-21	08-Jun-21 A	16-Sep-21	
DDA - 2nd Sub	0		15-Apr-21		16-Sep-21	
DDA - 2nd Review by SO	35	16-Apr-21	20-May-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		20-May-21		21-Oct-21	♦
DDA - E&M Air Purification System (WVB)	91	10-Jan-21	05-May-21	15-Mar-21 A	21-Oct-21	
DDA - Review by SO	28	10-Jan-21	06-Feb-21	15-Mar-21 A	11-May-21 A	A DDA - Review by SO
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	09-Sep-21	
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	16-Sep-21	
DDA - 2nd Sub	0		31-Mar-21		16-Sep-21	
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		05-May-21		21-Oct-21	◆
DDA - E&M Fire Services Installation	133	28-Dec-20	11-Jun-21	30-Mar-21 A	02 - Nov-21	
DDA - Draft - Preparation by Designer	30	28-Dec-20	01-Feb-21	30-Mar-21 A	31-May-21 A	
DDA - Draft - Final Review and prepare for 1st Sub	18	02-Feb-21	25-Feb-21	01-Jun-21 A	09-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		25-Feb-21		09-Jun-21 A	A DDA - 1st Sub
DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	17-Aug-21 A	A DDA-Review b
DDA - Review by SO	28	26-Feb-21	25-Mar-21	09-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	26-Mar-21	07 - May-21	18-Aug-21 A	28-Sep-21	
DDA - 2nd Sub	0		07 - May-21		28-Sep-21	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	29-Sep-21	02-Nov-21	
DDA - SO Consent for Construction	0		11-Jun-21		02 - Nov-21	↓ ◆
DDA - E&M MVAC	133	17-Dec-20	03-Jun-21	09-Apr-21 A	21-Oct-21	DDA - E&M MVAC
DDA - Draft - Preparation by Designer	32	17-Dec-20	26-Jan-21	09-Apr-21 A	22-May-21 A	A DDA + Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		18-Feb-21		02-Jun-21 A	
DDA - Review by SO	28	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A	A DDA - Review by SO
DDA - Review by IP / DC	28	19-Feb-21	18-Mar-21	02-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	19 - Mar-21	29-Apr-21	30-Jun-21 A	16-Sep-21	
DDA - 2nd Sub	0		29-Apr-21		16-Sep-21	
DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		03-Jun-21		21-Oct-21	♦
DDA - E&M Plumbing & Drainage System	122	22-Dec-20	26-May-21	19-Feb-21 A	19-Oct-21	▼ DDA - E&M Plumbing & Drainage \$ystem
DDA - Draft - Preparation by Designer	24	22-Dec-20	21-Jan-21	19-Feb-21 A	03-Jun-21 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	22-Jan-21	10-Feb-21	03-Jun-21 A	25-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		10-Feb-21		25-Jun-21 A	A DDA - 1st Sub
DDA - Review by SO	28	11-Feb-21	10-Mar-21	25-Jun-21 A	05-Jul-21 A	A DDA - Review by SO
DDA - Review by IP / DC	28	11-Feb-21	10-Mar-21	25-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	11-Mar-21	21-Apr-21	06-Jul-21 A	14-Sep-21	
DDA - 2nd Sub	0		21-Apr-21		14-Sep-21	
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	15-Sep-21	19-Oct-21	
DDA - SO Consent for Construction	0		26-May-21		19-Oct-21	◆
AIP - E&M Electrical Installation	62	17-Oct-20	02-Jan-21	15-Jan-21 A	23-Jun-21 A	
AIP - Update & prepare for 2nd Sub	18	14 - Nov-20	04-Dec-20	08-Feb-21 A	21-May-21 A	A AIP - Update & prepare for 2nd Sub

Page 12 of 24 Data Date: 03-Sep-21

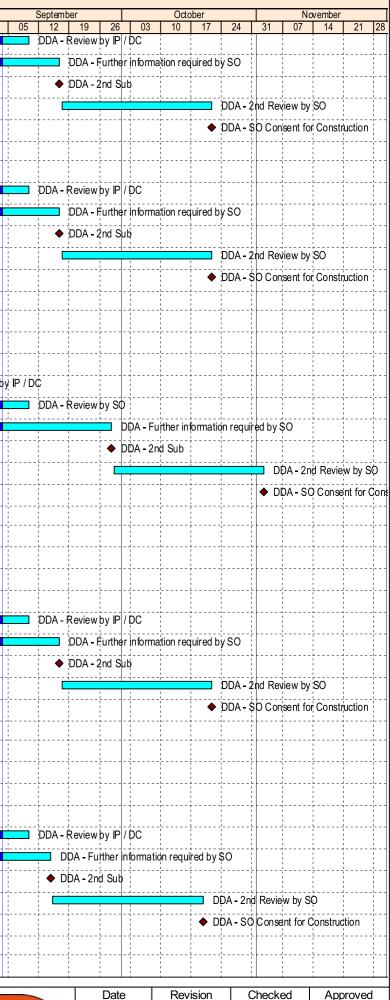
ilestone Value Ianned Bar rítical A divity

Actual Work Actual Work Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLIC



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	
						May June July August September October November 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14	21 28
AIP - 2nd Sub	0		04-Dec-20		21-May-21 A		
AIP - Review by IP / DC	28	17-Oct-20	13 - Nov-20	15-Jan-21 A	21-May-21 A	A AIP - Review by IP / DC	
AIP - 2nd Review by SO	28	05-Dec-20	01-Jan-21	21-May-21 A	23-Jun-21 A	AIP - 2nd Review by SO	
AIP - SO Consent for DDA Submission	0		02-Jan-21		23-Jun-21 A	AIP - SO Consent for DDA Submission	
DDA - E&M Electrical Installation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	13-Nov-21	▼ DDA - E&M Electrical Installation	
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Jul-21 A	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Jul-21 A	15-Jul-21 A	DDA - Draft - Final Review and prepare for 1st \$ub	
DDA - 1st Sub	0		24-Feb-21		15-Jul-21 A	◆ DDA - 1st Sub	
DDA - Review by SO	28	25-Feb-21	24-Mar-21	16-Jul-21 A	24-Aug-21 A	A DDA - Review by SO	
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	09-Sep-21	DDA - Review by IP / DC	
DDA - Further information required by SO	33	25-Mar-21	07-May-21	25-Aug-21 A	09-Oct-21	DDA - Further information required by SO	1 1 1
DDA - 2nd Sub	0		07 - May-21		09-Oct-21	◆ DDA - 2nd Sub	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	10-Oct-21	13-Nov-21		- 2nd Revit
DDA - SO Consent for Construction	0		11-Jun-21		13-Nov-21	◆ DDA	SOCons
AIP CLP Submission - Power Supply to EVB & WVB	71	01 - Nov - 20	26-Jan-21		23-Jun-21 A		
AIP - Update & prepare for 2nd Sub	24	30 - Nov-20	29-Dec-20	09-Feb-21 A	21-May-21 A	A AIP - Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		29-Dec-20		21-May-21 A	A AIP - 2nd Sub	
AIP - Review by IP / DC	28	01 - Nov-20	28-Nov-20	15-Jan-21 A	21-May-21 A		
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	22-May-21 A	23-Jun-21 A	AIP - 2nd Review by SQ	
AIP - SO Consent for DDA Submission	0		26-Jan-21		23-Jun-21 A		
DDA CLP Submission - Power Supply to EVB & WVB	158	27-Jan-21	11-Aug-21	24-Jun-21 A	13-Nov-21	▼ DDA CLP Submission - Power Supply to EVB & WVB	
DDA - Draft - Preparation by Designer	48	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Jul-21 A		
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Jul-21 A		
DDA - 1st Sub	0		28-Apr-21		15-Jul-21 A		
DDA - Review by SO	28	29-Apr-21	26-May-21	16-Jul-21 A	24-Aug-21 A		
DDA - Review by IP / DC	28	29-Apr-21	26-May-21	16-Jul-21 A	09-Sep-21	DDA - Review by IP / DC	
DDA - Further information required by SO	34	27-May-21	07-Jul-21	25-Aug-21 A	09-Oct-21	DDA - Further information required by SO	
DDA - 2nd Sub	0		07-Jul-21		09-Oct-21	◆ DDA-2nd Sub	
DDA - 2nd Review by SO	35	08-Jul-21	11-Aug-21	10-Oct-21	13-Nov-21		2nd Revit
DDA - SO Consent for Construction	0		11-Aug-21		13-Nov-21	◆ DDA	- SO Cons
AIP - E&M Tunnel Lighting Design	91	03-Dec-20	25-Mar-21	23-Dec-20 A	09-Jun-21 A		
AIP - Update & prepare for 2nd Sub	45	31-Dec-20	25-Feb-21	13-Jan-21 A		A 🗖 AIP - Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		25-Feb-21		,	A AIP - 2nd Şub	
AIP - Review by IP / DC	28	03-Dec-20	30-Dec-20	23-Dec-20 A		A AIP - Revièw by IP / DC	
AIP - 2nd Review by SO	28	26-Feb-21	25-Mar-21	03-May-21 A			
AIP - SO Consent for DDA Submission	0		25-Mar-21		09-Jun-21 A		
DDA - E&M Tunnel Lighting Design	101	26-Mar-21	30-Jul-21	10-Jun-21 A	14-Dec-21	▼ DDA -: E&M Tunnel Lighting Design	
DDA - Draft - Preparation by Designer	22	26-Mar-21	24-Apr-21	10-Jun-21 A	10-Sep-21	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	11-Sep-21	25-Sep-21	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		10-May-21	00.0.5	25-Sep-21		
DDA - Review by SO	28	11-May-21	07-Jun-21	26-Sep-21	23-Oct-21		· · · · · · · · · · · · · · · · · · ·
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	26-Sep-21	23-Oct-21		
DDA - Further information required by SO	44	08-Jun-21	30-Jul-21	25-Oct-21	14-Dec-21		
AIP - E&M CMCS	78	17-Feb-21	25-May-21	26-Apr-21 A	22-Jul-21 A		
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Page 13 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

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CriticalActivity

Baseline MilestoneBaseline Bar

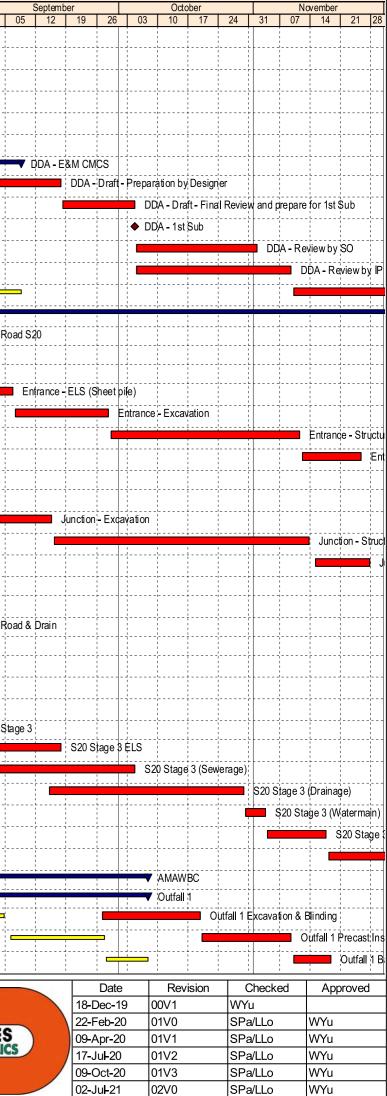
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

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

Activity Name		Dur	02V0 Start	02V0 Finish	Start	Finish	2021 May June July August
							02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 0
AIP - Review by SO		28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-May-21 A	AlP - Review by SO
AIP - Update & prepare for 2nd Sub		32	17-Mar-21	27-Apr-21	26-Apr-21 A	28-Jun-21 A	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub		0		27-Apr-21		28-Jun-21 A	AIP - 2nd Sub
AIP - Review by IP / DC		28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-Jun-21 A	AIP - Review by IP / DC
AIP - 2nd Review by SO		28	28-Apr-21	25-May-21	28-Jun-21 A	22-Jul-21 A	AIP - 2nd Revièw by SO
AIP - SO Consent for DDA Submission		0		25-May-21		22-Jul-21 A	♦ AIP - SO Consent for DDA Submission
DDA-E&MCMCS		89	26-May-21	08-Sep-21	23-Jul-21 A	07-Dec-21	
DDA - Draft - Preparation by Designer		22	26-May-21	21-Jun-21	23-Jul-21 A	17-Sep-21	
DDA - Draft - Final Review and prepare	for 1st Sub	12	22-Jun-21	06-Jul-21	18-Sep-21	04-Oct-21	
DDA - 1st Sub		0		06-Jul-21		04-Oct-21	♦
DDA - Review by SO		28	07-Jul-21	03-Aug-21	05-Oct-21	01-Nov-21	
DDA - Review by IP / DC		36	07-Jul-21	11-Aug-21	05-Oct-21	09 - Nov-21	
DDA - Further information required by S	60	24	12-Aug-21	08-Sep-21	10-Nov-21	07-Dec-21	
SOUTH APRON EXTERNAL	WORKS	380	22-Dec-20	06-Apr-22	23-Dec-20 A	19-Feb-22	
Road S20		195	05-Jan-21	01-Sep-21	27-Jan-21 A	13-Dec-21	Roz
CUE		168	05-Jan-21	31 Jul-21	27-Jan-21 A	27 - Nov-21	CUE
Entrance		84	21-Apr-21	31-Jul-21	24-Jun-21 A	25-Nov-21	Entrance
Entrance - ELS (Sheet pile)		18	21-Apr-21	12-May-21	24-Jun-21 A	06-Sep-21	
Entrance - Excavation		18	13-May-21	03-Jun-21	07-Sep-21	28-Sep-21	
Entrance - Structure		36	04-Jun-21	17-Jul-21	29-Sep-21	11-Nov-21	
Entrance- Backfill		12	19-Jul-21	31-Jul-21	12-Nov-21	25-Nov-21	
Junction		108	19-Mar-21	31-Jul-21	27-Feb-21 A	27-Nov-21	v v v v v v v v v v v v v v v v v v v
Junction - ELS (Sheet pile)		24	19-Mar-21	20-Apr-21	27-Feb-21 A	21-Jul-21 A	Junction - ELS (Sheet pile)
Junction - Excavation		24	21-Apr-21	20-May-21	26-Jul-21 A	15-Sep-21	
Junction - Structure		48	21-May-21	17-Jul-21	16-Sep-21	13-Nov-21	
Junction - Backfill		12	19-Jul-21	31-Jul-21	15-Nov-21	27-Nov-21	
Typical		75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A	
Typical Section - Structure		75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A	Typical Section - Structure
Road & Drain		160	18-Feb-21	01-Sep-21	24-May-21 A	13-Dec-21	Roa
Stage 2		49	18-Feb-21	20-Apr-21	24-May-21 A	07-Aug-21 A	
S20 Stage 2 (Watermain)		5	18-Feb-21	23-Feb-21	24-May-21 A	17-Jul-21 A	S20 Stage 2 (Watermain)
S20 Stage 2 (U channel, Catchpit, Gul	lly)	22	24-Feb-21	20-Mar-21	19-Jul-21 A	24-Jul-21 A	S20 Ştage 2 (U chaḥnel, Cạtchpit, 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		111	21-Apr-21	01-Sep-21	09-Aug-21 A	13-Dec-21	stag
S20 Stage 3 ELS		35	21-Apr-21	02-Jun-21	09-Aug-21 A	17-Sep-21	
S20 Stage 3 (Sewerage)		32	15-May-21	23-Jun-21	23-Aug-21 A	04-Oct-21	
S20 Stage 3 (Drainage)		36	05-Jun-21	19-Jul-21	15-Sep-21	29-Oct-21	
S20 Stage 3 (Watermain)		4	20-Jul-21	23-Jul-21	30-Oct-21	03-Nov-21	
S20 Stage 3 (UU Diversion)		12	24-Jul-21	06-Aug-21	04-Nov-21	17 - Nov-21	
S20 Stage 3 (U channel, Catchpit, Gul	llv)	22	07-Aug-21	01-Sep-21	18-Nov-21	13-Dec-21	
AMAWBC	.,,,	44	16-Aug-21	07-Oct-21	27-Sep-21	18-Nov-21	
Outfall 1		44	16-Aug-21	07-Oct-21	27-Sep-21	18-Nov-21	
Outfall 1 Excavation & Blinding		18	16-Aug-21	04-Sep-21	27-Sep-21	19-Oct-21	
Outfall 1 Precast Installation & Alignme	nt	18	06-Sep-21	27-Sep-21	20-Oct-21	09-Nov-21	
Outfall 1 Backfilling & reinstatement		8	28-Sep-21	07-Oct-21	10-Nov-21	18-Nov-21	
Page 14 of 24	♦ ♦ Milestone		Summary				
Data Date: 03-Sep-21	Planned Bar Critical A divity			ED/2	2018/0	4 Trur	nk Road T2 and Infrastructure Works
	Actual Milestone				f	or Dev	elopments at South Apron
	Actual Work Actual Work Baseline Milestone				•		TRAVAUX PUBLICS
	Baseline Bar				Three	Mont	hs Rolling Programme (Aug-21)



Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish											2	021									
						02	May 09	y 16 23	30		lune 13 20	27	04 11	uly 18	25		ugust 15	22 2	29 05	September		26 03	October	24	N	ovember 14 21 28
[STE] District Cooling System for AMAWBC Section 6B	204	22-Dec-20	01-Sep-21	22-Mar-21 A	07-Dec-21																		WBC Section			
Section 1 - Bay 1	41	20-Feb-21	13-Apr-21	22-Mar-21 A	25-Sep-21	1																				
DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)	12	20-Feb-21	05-Mar-21	22-Mar-21 A	09-Aug-21 A											DC	S - Bay 1	Pipe Ins	tallation -	Set up (D	N1200 30	m)				
DCS - Bay 1 Pipe Installation - Pipe welding	11	06-Mar-21	18-Mar-21	26-Jul-21 A	18-Aug-21 A												DC	CS - Bay	1 Pipe Ins	tallation -	Pipe wel	ding				
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	19-Aug-21 A	17-Sep-21													-			DCS - Ba	y 1 Pipe Ins	tallation - Jo	inting (12	nps)	
DCS - Bay 1 Backfill	6	07-Apr-21	13-Apr-21	18-Sep-21	25-Sep-21															•		DCS - Bay 1	Backfill			
Section 1 - Bay 2	78	13-May-21	14-Aug-21	19-Apr-21 A	30-Aug-21 A		V		·····								Section	1 - Bay	2							
DCS - Bay 2 Excavation (1510m3)	26	13 - May-21	12-Jun-21	19-Apr-21 A	19-May-21 A						DCS - Bay 2					+							+			
DCS - Bay 2 Pipe Installation - Set up (DN900 60m)	14	15-Jun-21	30-Jun-21	19-May-21 A	17-Jul-21 A									DCS	- Bay 2 P	ipe Installatio	n - Set u	p (DN900	060m)							
DCS - Bay 2 Pipe Installation - Pipe welding	13	02-Jul-21	16-Jul-21	19-Jul-21 A	24-Jul-21 A	· · · · · · · · · · · · · · · · · · ·								-	DCS-I	Bay 2 Pipe In	stallation	- Pipe w	eldiņg				L 		L	
DCS - Bay 2 Pipe Installation - Jointing (27nos)	18	17-Ju -21	06-Aug-21	19-Jul-21 A	31-Jul-21 A									-		DCS -	Bay 2 Pip	pe Install	ation - Joir	nting (27 n	os)					
DCS - Bay 2 Backfill	7	07-Aug-21	14-Aug-21	10-Aug-21 A	30-Aug-21 A													·····	DCS - Ba	y 2 Backi	1				<u>-</u>	
Section 1 - Bay 3	93	13-May-21	01-Sep-21	26-Jul-21 A	02-Dec-21		V				+					+			Section	1 - Bay	}				+	
DCS - Bay 3 Sheet pile (1870m2)	34	13-May-21	23-Jun-21	26-Jul-21 A	21-Sep-21											+						-	et pile (1870)m2)	 	
DCS - Bay 3 Excavation (2620m3)	18	24-Jun-21	15-Jul-21	23-Sep-21	15-Oct-21			·										·····			_		DCS	S-Bay3l	xcavation (26	520m3)
DCS - Bay 3 Pipe Installation - Set up (DN900 30m)	12	16-Jul-21	29-Jul-21	16-Oct-21	29-Oct-21																		·····		DCS - Bay 3	Pipe Installation - {
DCS - Bay 3 Pipe Installation - Pipe welding	9	30-Ju -21	09-Aug-21	30-Oct-21	09-Nov-21																			l		CS - Bay 3 Pipe In
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	10 - Nov-21	20-Nov-21																					DCS-B
DCS - Bay 3 Backfill	10	21-Aug-21	01-Sep-21	22 - Nov-21	02-Dec-21												i		• • • • • • • • • • • • • • • • • • • •						 	
Section 2 - Bay 4	44	04-May-21	25-Jun-21	20-Apr-21 A	07-Dec-21	▼			·		 V	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	;; ;	;				3ay4 Sheet p	. 1	m2)													
DCS - Bay 4 Excavation (1170m3)	12	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A										DCS-I	Bay4 Excava	ition (117	70m3)							L	
DCS - Bay 4 Pipe Installation - Set up (DN600 66m)	14	09-Jun-21	25-Jun-21	22-Nov-21	07-Dec-21																					
Section 2 - Bay 5	103	22-Dec-20	03-May-21	10-Apr-21 A	20-Nov-21		tion 2 - B	Bay 5																	L	
DCS - Bay 5 Sheet pile (1510m2)	30	22-Dec-20	28-Jan-21	10-Apr-21 A	31-Jul-21 A											DCS - Bay 5	Sheet pi	le (1510n	n2)							
DCS - Bay 5 Excavation (1516m3)	18	29-Jan-21	22-Feb-21	16-Aug-21 A	14-Sep-21											+				DC	S - Bay 5	Excavation	(1516m3)			
DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	14	23-Feb-21	10-Mar-21	15-Sep-21	02-Oct-21													· · · · · · · · · · · · · · · · · · ·		-		DCS	- Bay 5 Pipe	Installatio	on - Set up (Di	N600 66m)
DCS - Bay 5 Pipe Installation - Pipe welding	14	11-Mar-21	26-Mar-21	04-Oct-21	20-Oct-21																			DCS - B	ay 5 Pipe Inst	allation – Pipe weldi
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	21-Oct-21	06-Nov-21	· · · · · · · · · · · · · · · · · · ·																	l		DCS	Bay 5 Pipe Insta
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	08-Nov-21	20-Nov-21																					DCS-B
Section 2 - S20	58	21-Apr-21	30-Jun-21	09-Aug-21 A	04-Oct-21							🔫 Se	ction 2 - S	20		+							+			
DCS - S20 section site clearance	28	21-Apr-21	25-May-21	09-Aug-21 A	18-Aug-21 A														section site		ce					
DCS - S20 Sheet pile (912m2)	18	26-May-21	16-Jun-21	19-Aug-21 A	17-Sep-21			_			-						_				DCS - S2	0 Sheet pile	(912m2)			
DCS - S20 Excavation (1026m3)	12	17-Jun-21	30-Jun-21	18-Sep-21	04-Oct-21																	DC	S - S20 Exc	avation (1	026m3)	
[STE] District Cooling System - Remaining Section 7B	16	19-Apr-21	07 - May-21	18-May-21 A	08-Sep-21				ing System	ı - Remai	ining Section	7B														
DCS Section 4	16	19-Apr-21	07-May-21	18-May-21 A	08-Sep-21	V	DCS Sec	ction 4										·····								
DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)	6	19-Apr-21	24-Apr-21	-	19-Jun-21 A	ļļ					DCS-		be Installat			up (DN 800 1	l2m)									
DCS - DPR Pipe Installation - Pipe welding (6nos)	6	26-Apr-21	03-May-21		30-Aug-21 A											+						- Pipe weld				· · · · · · · · · · · · · · · · · · ·
DCS - DPR Pipe Installation - Jointing (6nos)	4	04-May-21	07 - May-21	31-Aug-21 A	08-Sep-21									<u> </u>						DCS - DI	י⊀ Pipė Ir		ointing (6no			
Foot Bridge FB-02	127	03-May-21	02-Oct-21	26-Mar-21 A	10-Dec-21	V																	Bridge FB-0			
DSD KBSIS - Interface Existing Footbridge Disable Ramp - Demolition	117 24	11-May-21 11-May-21	28-Sep-21	12-May-21 A 12-May-21 A	10-Dec-21 08-Jun-21 A					- Evic	ting Footbrid	ne Disab	e Ramo	Demolition									SIS - Interfac	e 		
FB-02 H-pile - P1/P2/P3	24 51	24-Jun-21	08-Jun-21 23-Aug-21	04-Sep-21	05-Nov-21			·												- <u> </u>						2 H-pile - P1/P2/P3
			-	· ·										·i												
FB-02 H-pile - LC&D	30	24-Aug-21	28-Sep-21	06-Nov-21	10-Dec-21																	Poor	L10/DPR			
Road L10/ DPR	127	03-May-21	02-Oct-21	26-Mar-21 A	27 - Nov-21	•																				
Page 15 of 24		Summary																				ate	Revision		Checked	Approved
Data Date: 03-Sep-21			ED/2	2018/0	4 Trur	ık R	Road	1 T2	and	l Inf	rastru	JCtu	ire V	Vork	S						18-De		0V1 1V0	WY SP:		WYu
Actual Miestone				f	or Dev	elo	nme	ente	at S	Sout	h An	ron				C	BOU	YGU	JES		09-Ap		1V1			WYu
Actual Work						510	r	5110									RAVA	UX PU	BLICS		17-Jul		1V2			WYu
Baseline Bar				Three	Mont	าร F	Rolli	ina F	Pula	ram	nme (Αιιά	1-21°)							09-Oc		1V3			WYu
									9				י - ד	/							02-Jul	-21 [0	2V0	<u> </u> 5Pa	a/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29
FB-02 H-pile (1 rig) - P4/P5/D	72	03-May-21	28-Jul-21	26-Mar-21 A	21-Sep-21	
FB-02 H-pile (1 rig) - LA&B	55	29-Jul-21	02-Oct-21	23-Sep-21	27 - Nov-21	
FB-02 - Road L10 - H-pile Installation	48	06-Aug-21	02-Oct-21	02-Oct-21	27-Nov-21	
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	197	17-Feb-21	16-Oct-21	10-Mar-21 A	04-Dec-21	
EMSD Temporary Replacement of Traffic Signal	71	11-Mar-21	08-Jun-21	10-Mar-21 A	08-Jun-21 A	■ V EMSD Temporary Replacement of Traffic Signal
EMSD Site Inspection	40	11-Mar-21	30-Apr-21	10-Mar-21 A	10-May-21 A	EMSD Site Inspection
EMSD preparation for Stage 1 change over	13	03-May-21	17-May-21	10-May-21 A	20-May-21 A	EMSD preparation for Stage 1 change over
Stage 1 change over to oil drum traffic signal	0		17-May-21		20-May-21 A	♦ Stage 1; change over to oil drum traffic signal
EMSD preparation for Stage 2 change over	18	18-May-21	08-Jun-21	20-May-21 A	08-Jun-21 A	EMSD preparation for Stage 2 change over
Stage 2 change over to oil drum traffic signal	0		08-Jun-21		08-Jun-21 A	Stage 2 change over to bil drum traffic signal
Stage 1 (KT Fire Station Footpath/ CYS northbound)	111	03-May-21	11-Sep-21	03-May-21 A	29-Oct-21	
Stage 1A (KT Fire Station Footpath)	66	03-May-21	21-Jul-21	03-May-21 A	21-Aug-21 A	▼ Stage 1A (KT Fire Station Footpath)
Towngas UU diversion	18	03-May-21	24-May-21	03-May-21 A	03-Jun-21 A	Towngas UU diversion
WSD diveresion	6	25-May-21	31-May-21	12-Jun-21 A	17-Jun-21 A	WSD diveręsión
Telecom UU diversion Stage 2	12	01-Jun-21	15-Jun-21	19-Jun-21 A	21-Jul-21 A	Telecom UU diversion Stage 2
Installation of gully and gully pipe	12	08-Jun-21	22-Jun-21	24-Jun-21 A	09-Aug-21 A	Installation of gully and gully
Installation of ducting for PL, ATC and E&M	6	01-Jun-21	07-Jun-21	05-Aug-21 A	11-Aug-21 A	
Reinstatement of footpath & carriageway	24	23-Jun-21	21-Jul-21	07-Jul-21 A	21-Aug-21 A	Reinstatement
Stage 1B (CYS northbound Lane 2)			07-Aug-21			▼ V Stage 1B (CYS northbound La
Installation of ducting for PL, ATC and E&M	15 3	22-Jul-21 22-Jul-21	24-Jul-21	04-Sep-21 04-Sep-21	21-Sep-21 07-Sep-21	
Installation of gully and gully pipe	3	26-Jul-21	28-Jul-21	04-Sep-21 08-Sep-21	10-Sep-21	
	9			· ·		
Reinstatement of carriageway	-	29-Jul-21	07-Aug-21	11-Sep-21	21-Sep-21	
Stage 1C (CYS northbound Lane 3) Installation of ducting for PL, ATC and E&M	15 3	09-Aug-21 09-Aug-21	25-Aug-21 11-Aug-21	23-Sep-21 23-Sep-21	11-Oct-21 25-Sep-21	Stage 1€ (
Installation of gully and gully pipe	3			27-Sep-21	29-Sep-21	
		12-Aug-21	14-Aug-21			
Reinstatement of carriageway	9	16-Aug-21	25-Aug-21	30-Sep-21	11-Oct-21	
Stage 1D (CYS northbound Lane 4) Installation of ducting for PL, ATC and E&M	15 3	26-Aug-21	11-Sep-21	12-Oct-21 12-Oct-21	29-Oct-21 15-Oct-21	
		26-Aug-21	28-Aug-21			<u> </u>
Installation of gully and gully pipe	3	30-Aug-21	01-Sep-21	16-Oct-21	19-Oct-21	
Reinstatement of carriageway	9	02-Sep-21	11-Sep-21	20-Oct-21	29-Oct-21	
Stage 2 (CYS central traffic island)	42	26-Aug-21	16-Oct-21	12-Oct-21	30-Nov-21	
Demolition of existing traffic island	6	26-Aug-21	01-Sep-21	12-Oct-21	19-Oct-21	
Connection gully and gully pipe	6	02-Sep-21	08-Sep-21	20-Oct-21	26-Oct-21	
Connection for PL, ATC and E&M	12	09-Sep-21	23-Sep-21	27-Oct-21	09-Nov-21	
Construction of new traffic island	18	24-Sep-21	16-Oct-21	10 - Nov-21	30 - Nov-21	
Stage 3 (Wang Chiu Road)	173	17-Feb-21	15-Sep-21	07-Apr-21 A	09-Nov-21	
Stage 3A (WCR central traffic island)	114	17-Feb-21	08-Jul-21	07-Apr-21 A	10-Sep-21	▼ Stage 3A (WCR central traffic island)
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	07-Apr-21 A	12-May-21 A	iii_i
Lower down existing manhole	6	27-Feb-21	05-Mar-21	03-Jul-21 A	09-Jul-21 A	Lower down existing manhole
Reinstatement of footpath & carriageway	24	09-Jun-21	08-Jul-21	12-Jul-21 A	10-Sep-21	
Stage 3B (WCR westbound Lane 2)	12	22-Jul-21	04-Aug-21	11-Sep-21	25-Sep-21	Stage 3B (WCR westbound Lane
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	11-Sep-21	14-Sep-21	
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	15-Sep-21	25-Sep-21	
Stage 3C (WCR westbound Lane 1)	12	05-Aug-21	18-Aug-21	27-Sep-21	11-Oct-21	Stage 3℃ (WCR w
Installation of ducting for PL, ATC and E&M	3	05-Aug-21	07-Aug-21	27-Sep-21	29-Sep-21	
Page 16 of 24 Data Date: 03-Sep-21		Summary	ED/2			nk Road T2 and Infrastructure Works velopments at South Apron

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Baseline Bar

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5	Septemb	er			Octo	ber	November						
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Lane 2	5							÷					
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	stallatio	n or auc	rang t	OF PL, /	ATC and	E&IVI				1	1		
	Installa	tion of a	gully	and gul	lyipipe								
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C (CYS	northbo	und La	ne 3)		-	1				1	1		
			Inst	allation	of ductin	g for PL	, ATC	a	nd E&I	M			
				Install	ation of g	ully and	aully	-¦-	• • • • • •				
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	7 Stage	1D (C)	/Sno	orthbour	nd Lane 4	¦							
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	Reinst	atemen	t of fo	otpath	& carriag	eway		÷.					
ne 2)						 ' '					 ! !	 	
		stallation	n of d	lucting f	or PL, AT	Cand	F&M						
			Rei	nstaten	nent of ca	rriagew	ay						
westbo	bund La	ne 1)			;	; ;		÷				 	
		'¦		Install	Installation of ducting				Cand	F 8.M			
			-	houdil	allation of ducting to			-					
			Date	<u>د</u>	Rev	ision		C	hecke	-d	Δnr	proved	
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6		22-F			01V0		_		/LLo		WYu		
		09-A			01V1		_		/LLo		WYu		
		17-J			01V2		_		/LLo		WYu		
		09-C	oct-2	0	01V3		SF	Pa	/LLo		WYu		
		02-J	u l- 21		02V0		SF	a	/LLo		WYu		

Activity Name	Dur	r 02V0 Start	02V0 Finish	Start	Finish									2021									
		/	1			02	May 09 16	23	30 06	June 13 20	27 04	July 11	/ 18 25	Augus 01 08 15		29 05	September	19 26	03	October 10 17	24 31	Novem 1 07 1	nber 14 21 28
Reinstatement of carriageway	9	09-Aug-21	18-Aug-21	30-Sep-21	11-Oct-21																ment of carrie		"
Stage 3D (WCR westbound new traffic island)	36	05-Aug-21	15-Sep-21	27-Sep-21	09-Nov-21									V			➡▼ Stag	je 3D (WCR	westbour	nd new traffic	¢ island)		
Demolition of existing pavement	6	05-Aug-21	11-Aug-21	27-Sep-21	04-Oct-21														Demc	lition of exis	sting paveme	ent	יר
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	05-Oct-21	19-Oct-21								1						; —	C/	onnection fo	or PL, ATC and	IE&M
Construction of new traffic island	18	26-Aug-21	15-Sep-21	20-Oct-21	09-Nov-21	-																Const	truction of new
Stage 4 (Hoi Bun Road)	137	7 17-Feb-21	04-Aug-21	13-May-21 A	04-Oct-21					+-				▼ Stage 4 (Hoi									
Stage 4A (HBR Planter)	96	17-Feb-21	16-Jun-21	13-May-21 A	17-Sep-21					▼ Stage 4A ((HBR Planter)											
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	13-May-21 A	24-May-21 A			💻 Dem	dition of exist	ting draft wall and	d planter												יר
Irrigation pipe diversion	3	27-Feb-21	02-Mar-21	25-May-21 A	27-May-21 A			n 🗖	rrigation pipe d	diversion										· · · · · · · · · · · · · · · · · · ·			ч Т
Lower down existing manhole	6	03-Mar-21	09-Mar-21	02-Aug-21 A	10-Aug-21 A								1	Lower	r down existii	ng ma¦nhole				 			ч. Ч.
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	24-Aug-21 A	17-Sep-21			+	1				1				R	einstatemen	t of footpa	ath & carriag	jeway		1
Stage 4B (HBR Fast Lane)	12	22-Jul-21	04-Aug-21	18-Sep-21	04-Oct-21									▼ Stage 4B (H	BR Fast Lar	e)							
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	18-Sep-21	21-Sep-21		 I I I I										-	Installatio	n of ductir	ig for PL, AT	TC and E&M		
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	23-Sep-21	04-Oct-21														Reins	statement of	carriageway	/	
Stage 5 (Gas Station & HBR)	173	3 03-Mar-21	30-Sep-21	28-Apr-21 A	04-Dec-21	i			i				·						Stage 5 (C	Gas Station &	& HBR)		
Stage 5A (Gas Station Footpath)	84	03-Mar-21	16-Jun-21	28-Apr-21 A					<u> </u>	▼ Stage 5A ((Gas Station	Footpat	.h)										
Telecom UU diversion	6	03-Mar-21	09-Mar-21	28-Apr-21 A	15-May-21 A		Teleo	ecomUUd	liversion											·····			יר
Installation of ducting for PL, ATC and E&M	6	10-Mar-21	16-Mar-21	25-Aug-21 A	08-Sep-21	1	 										Installation	of ducting fo	r PL, ATC	and E&M			
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	09-Sep-21	08-Oct-21				<u> i</u>										R	einstatemen	it of footpath	n & carriagewa	y.
Stage 5B (HBR traffic island)	36	05-Aug-21	15-Sep-21	09-Oct-21	20-Nov-21									V			➡ ▼ Staç	ge 5B (HBR (traffic isla	nd)			
Demolition of existing traffic island	6	-	11-Aug-21	09-Oct-21	16-Oct-21	1								 !					; –	Demr	olition of exi	isting traffic isla	and
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	18-Oct-21	30-Oct-21	-																	PL, ATC and Et
Construction of new traffic island	18	26-Aug-21	15-Sep-21	01 - Nov-21	20-Nov-21	-																	Construc
Stage 5C (HBR Left Turn Lane 1)	12	16-Sep-21	30-Sep-21	22-Nov-21	04-Dec-21	;													Stage 5C	(HBR Left T	urn Lane 1)		· '
Installation of ducting for PL, ATC and E&M	3	•	18-Sep-21	22-Nov-21	24-Nov-21																		📕 lņsta
Reinstatement of carriageway	9	20-Sep-21	30-Sep-21	25-Nov-21	04-Dec-21	-																	
[STE] Road L10 (Northern)	224		06-Apr-22	23-Dec-20 A		;	·					<u> </u>	<u></u>						<u> </u>		<u></u>		
CUE	224		06-Apr-22	23-Dec-20 A								<u> </u>											
CUE L10(N) ELS (Sheet pile) part 1	48		01-Sep-21							·				<u> </u>			10(N) ELS (5	Sheet pile) r	part 1				
CUE L10(N) Pump Test part 1	32		11-Oct-21	30-Jun-21 A	30-Jun-21 A	-										╶┝╶┼╬╌╌╴				CUE L10(1	N) Pump Tes	st part 1	
CUE L10(N) Excavation part 1	36		23-Nov-21	02-Jul-21 A	10-Sep-21	-						<u></u>	<u></u>				J			;			
CUE L10(N) Structure part 1	108		06-Apr-22	09-Oct-21	19-Feb-22	-	 J J						l										
DEPRESSED ROAD [DPR]	148		31-Aug-21	19-Apr-21 A				·····									SSED ROAD	ן קרו ח					
Excavation & Strutting	77		16-Jun-21	19-Apr-21 A						Fycavatio	n & Strutting		!	[
Shallow Section (46m)	5		16-Juii-21 16-Mar-21				- - 						l						 				
Excavation part 2 CH5948-CH6008	5		16-Mar-21			-					Exca	vation p	art 2 CH5948-	CH6008									
Zone 3 (Ch6080 - 6121)	23		26-Apr-21			he 3 (Cł	-6080 - 6121)													 			
Strut S3 Installation (4 nos)	8		08-Apr-21	· ·			· · · · · · · · · · · · · · · · · · ·		llation (4 nos)														
Excv to FEL (5,500m ³)	9		26-Apr-21	· ·	-						o FEL (5,500m	m ³)	l										
Zone 4 (Ch6121 - 6150)	57	· ·	16-Jun-21	27-Apr-21 A			· · ·				ch6121 - 6150												
Excv to S3 (3,400m ³)	7	08-Apr-21 08-Apr-21	15-Apr-21	-	-		E	Excv to S3	(3 400m ³)			/	l										
Strut S3 installation (4 nos)	8		03-May-21	12-Jul-21 A	17-Jul-21 A	;	;						Strut S3 inst	tallation (4 nos);									
Excv to S4 (1,550m ³) part 1	3	· ·					·									54 (1,550n	m³) nart 1						
		-	06-May-21				<u></u>			· · · · · ·													
Excv to S4 (1,550m ³) part 2	4	07-May-21	11-May-21	-	-	- <u>-</u>							 				,550m³) part	. Z					
Strut S4	4	04-Jun-21	08-Jun-21	28-Aug-21 A	30-Aug-21 A		1 1 1									Strut S4							
Page 17 of 24 Milestone		Summary	<u> </u>															Date		Revision	Chec	cked /	Approved

Page 17 of 24 Data Date: 03-Sep-21

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Actual Work

Baseline Milestone
 Baseline Bar

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

BOUYGUES

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	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
/	17-Jul-20	01V2	SPa/LLo	WYu
2	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			_				2021		_		_				
						May 02 09 16 23	30 06	June 13	20 27	July 04 11 18	25 01	August 08 15	22 2		eptember 12 19 26	Oct	ober 17 24	31	November 07 14	21 28
FEL	6	09-Jun-21	16-Jun-21	04-Sep-21	10-Sep-21			-							EL					
Permanent Structure	148	03-Mar-21	31-Aug-21	13-May-21 A	03-Dec-21							· · · · · · · · · · · · · · · · · · ·		Permanent	Structure		1			
Shallow Section	53	17 - Mar-21	24-May-21	19-Jul-21 A	07-Oct-21	l	w Sęction													
Part 2 (Ch5997 - 6008)	53	17-Mar-21	24-May-21	19-Jul-21 A	07-Oct-21	V Part 2	(Ch5997 -	- 6008)												
Plate Load Test	5	17 - Mar-21	22-Mar-21	19-Jul-21 A	24-Jul-21 A						Plate Load	fest								
Blinding	9	23-Mar-21	01-Apr-21	26-Jul-21 A	07-Aug-21 A							Blinding								
Drainage, Watermain & UU	10	08-Apr-21	19-Apr-21	10-Aug-21 A	18-Aug-21 A								Drainage, V	Vatermain & l	JU					
Base Slab	12	07-Apr-21	20-Apr-21	09-Aug-21 A	19-Aug-21 A								Base Slab				+ I I I I I I I I I			
Retaining Wall	18	21-Apr-21	12-May-21	04-Sep-21	25-Sep-21											aining Wall	+ 			
Waterproofing	9	13-May-21	24-May-21	27-Sep-21	07-Oct-21							L				Water	proofing			
Zone 1 (Ch6008 - 6045)	108	26-Mar-21	07-Aug-21	13-May-21 A	01-Dec-21	· · · · · · · · · · · · · · · · · · ·			ii		;	Zone 1 (Ch	6008 - 6045)			÷			
Blinding & Waterproofing	9	26-Mar-21	09-Apr-21	13-May-21 A	08-Jun-21 A				/aterproofin			· · · · · · · · · · · · · · · · · · ·								
Base Slab	15	10-Apr-21	27-Apr-21	09-Jun-21 A	26-Jul-21 A						📮 🛛 Başe Slab				·					
Strut S3 removal	6	28-Apr-21	05-May-21	21-Aug-21 A	24-Aug-21 A		· · · · · · · · · · · · · · · · · · ·					 	📮 Strut	S3 removal	· · · · · · · · · · · · · · · · · · ·		+			
South Apron Adit Wall	21	06-May-21	31 - May-21	16-Aug-21 A	07-Sep-21										ıth Apron Adit Wall					
DCS Pipes	18	26-Mar-21	20-Apr-21	21-Jun-21 A	08-Sep-21						·	· · ·			S Pipes		·····	i		
SP Removal	6	06-May-21	12-May-21	09-Sep-21	15-Sep-21										SP Removal		+			
Blinding & Waterproofing	6	13-May-21	20-May-21	16-Sep-21	23-Sep-21										Blindi	ng & Waterproo	fing			
Drainage, Watermain & UU	10	02-Jun-21	12-Jun-21	25-Sep-21	07-Oct-21			=				 				Draina	ģe, Watermai	n & UU		
Road Slab	12	01-Jun-21	15-Jun-21	24-Sep-21	08-Oct-21	· · · · · · · · · · · · · · · · · · ·									·····	Road	Slab			
Waterproofing and Backfilling	9	16-Jun-21	25-Jun-21	09-Oct-21	20-Oct-21	· · · · · · · · · · · · · · · · · · ·									·····		Waterp	propfing a	nd Backfilling	
Strut S1 removal	6	26-Jun-21	03-Jul-21	21-Oct-21	27-Oct-21													Strut S1		
Retaining Wall	21	05-Jul-21	28-Jul-21	28-Oct-21	20-Nov-21							· · · · · · · · · · · · · · · · · · ·			·					Retaining
Waterproofing and Backfilling	9	29-Jul-21	07-Aug-21	22-Nov-21	01-Dec-21							 (
Zone 2 (Ch6045 - 6080)	74	08-Apr-21	07-Jul-21	15-Jun-21 A	19-Oct-21					Zone 2 (Ch604	5 - 6080)									
Plate Load Test	5	08-Apr-21	13-Apr-21	15-Jun-21 A					Plate Lpad						·····					
Blinding & Waterproofing	9	14-Apr-21	23-Apr-21	22-Jun-21 A	03-Jul-21 A					Blinding & Waterpro	ofing	· · · · · · · · · · · · · · · · · · ·			·		· · · · · · · · · · · · · · · · · · ·			
Base Slab	15	24-Apr-21	12-May-21		04-Aug-21 A							Base Slab								
Strut S3 removal	6	13-May-21	20-May-21									Stru	t S3 remova							
South Apron Adit Wall	21	21-May-21	15-Jun-21	23-Aug-21 A	10-Sep-21									L. J	South Apron Adit V	/all				
Road Slab	12	16-Jun-21	29-Jun-21	11-Sep-21	25-Sep-21											ad Slab	+			
Strut S1 removal	6	30-Jun-21	07-Jul-21	27-Sep-21	04-Oct-21											Strut S1 r	emoval			
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	08-Oct-21	19-Oct-21												÷	ie Waterr	main & UU	
Zone 3 (Ch6080 - 6121)	80	27-Apr-21	02-Aug-21	03-Jul-21 A	13-Nov-21	· · · · · · · · · · · · · · · · · · ·					70	ne 3 (Ch6080	-6121)		·					
Plate Load Test (deleted)	5	27-Apr-21 27-Apr-21	03-May-21	03-Jul-21 A	03-Jul-21 A					Plate Load Test (de	i				·					
Blinding & Waterproofing	9	04-May-21	13-May-21	09-Jul-21 A	27-Jul-21 A							& Waterproofir								
Base Slab	15	14-May-21	01-Jun-21	28-Jul-21 A	01-Sep-21 A	······							τ I	Base Slab						
Strut S3 removal	6	02-Jun-21	08-Jun-21	04-Sep-21	10-Sep-21		·····								Strut \$3 removal					
South Apron Adit Wall	21	02-Jun-21	05-Jul-21	11-Sep-21	07-Oct-21											South	Apron Adit Wa			
Road Slab		09-Jul-21	19-Jul-21	08-Oct-21	22-Oct-21													d Slab		
	12														· · · · · · · · · · · · · · · · · · ·		+		age, Waterma	in & I II I
Drainage, Watermain & UU	10	07-Jul-21	17-Jul-21	20-Oct-21	30-Oct-21						<u></u>						+			
Strut S2 & S1 removal	12	20-Jul-21	02-Aug-21	01-Nov-21	13-Nov-21														strut	S2 & S1 re
Zone 4 (Ch6121 - 6150)	97	07-May-21	31-Aug-21	01-Sep-21 A	03-Dec-21										6121 - 6150)		 			
Plate Load Test	5	07 - May-21	12-May-21	01-Sep-21 A	03-Sep-21 A									Plate Ļo	au rest					
Derre 19 of 24		Summon													Date		vision	Checke	ad Apr	oroved

Page 18 of 24 Data Date: 03-Sep-21

Milestone V Summary Planned Bar Critical Activity

Actual Work

Baseline Bar

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

BOUYGUES

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29
Blinding & Waterproofing	6	13 - May-21	20-May-21	04-Sep-21	10-Sep-21	
Base Slab part 1	12	21-May-21	03-Jun-21	11-Sep-21	25-Sep-21	
BS P2	9	25-Jun-21	06-Jul-21	27-Sep-21	07-Oct-21	
Remove S4	3	07-Jul-21	09-Jul-21	08-Oct-21	11-Oct-21	
BS P3	6	10-Ju-21	16-Jul-21	12-Oct-21	19-Oct-21	
BS P4	9	17-Ju -21	27-Jul-21	20-Oct-21	29-Oct-21	
Remove S3	9	28-Jul-21	06-Aug-21	30-Oct-21	09-Nov-21	
South Apron Adit Wall / Sump Pit	21	07-Aug-21	31-Aug-21	10 - Nov-21	03-Dec-21	
DPR SUS Interface	91	03-Mar-21	24-Jun-21	21-Jun-21 A	11-Sep-21	DPR SUS Interface
SUS Dwall removal up to -3.0mPD	9	03-Mar-21	12-Mar-21	21-Jun-21 A	26-Jun-21 A	SUS Dwall removal up to -3.0mPD
BH-6.85mPD	6	16-Apr-21	22-Apr-21	29-Jun-21 A	17-Jul-21 A	BH-6.85mPD
BH-10.5mPD	6	07 - May-21	13-May-21	29-Jul-21 A	07-Aug-21 A	BH-10.5mPD
BH-15.15mPD	7	17-Jun-21	24-Jun-21	28-Aug-21 A	11-Sep-21	
WEST VENTILATION BUILDING [WVB]	158	14-Apr-21	22-Oct-21	11-Mar-21 A	22-Dec-21	
Delay Events	0			21-Apr-21 A	12-Jun-21 A	
SP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	08-May-21 A	SP Installation Stoppage - due to Fatal Accident
KP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	17-May-21 A	KP Installation Stoppage - due to Fatal Accident
KP Drilling Stoppage - due to Fatal Accident	0			21-Apr-21 A	12-Jun-21 A	KP Drilling Stoppage - due to Fatal Accident
ELS system & Foundation	79	14-Apr-21	19-Jul-21	11-Mar-21 A	25-Sep-21	✓ ELS system & Foundation
Sheet Pile	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A	▼ Sheet Pile
WVB - Sheet Piles Installation 100% completion	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A	WVB - Sheet Piles Installation 100% co
King Post	53	15-May-21	19-Jul-21	20-Apr-21 A	25-Sep-21	▼ King Post
North	38	15-May-21	30-Jun-21	20-Apr-21 A	06-Jul-21 A	V. V. Vorth
KP Drilling (KP9 & KP10) @ 2d/no	4	28-May-21	01-Jun-21	20-Apr-21 A	18-May-21 A	KP Drilling (KP9 & KP10) @ 2d/no
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31 - May-21	03-Jun-21	07-Jun-21 A	07-Jun-21 A	KP Installation & Grouting (KP9 & KP10) @ 2d/no
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
KP Installation & Grouting (KP11 & KP12) @ 2d/no	4	26-Jun-21	30-Jun-21	03-Jul-21 A	06-Jul-21 A	KP Installation & Grouting (KP11 & KP12) @ 2d/no
South	38	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	KP Installation & Grouting (KP5 & KP6) @ 2d/ho
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21	28-Jun-21 A	02-Jul-21 A	KP Drilling (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 & Grouting (KP1 & KP2) @ 2d
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
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-Ju+21	06-Jul-21	30-Jul-21 A	30-Jul-21 A	KP Installation & Grouting (KP7 & KP3
Steel Platform Location	39	02-Jun-21	19-Jul-21	21-Jun-21 A	25-Sep-21	▼ Steel Platform Location
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	09-Aug-21 A	KP Drilling (DP1 - DP6) 6 n
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Jul-21 A	14-Aug-21 A	KP Installation (PP1-
Steel Deck Erection	18	28-Jun-21	19-Jul-21	04-Sep-21	25-Sep-21	
Wells Installation	40	21-May-21	08-Jul-21	26-Jul-21 A	07-Sep-21	▼ Wells Installation
North	22	21 - May-21	16-Jun-21	26-Jul-21 A	02-Sep-21 A	V V North
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21	26-Jul-21 A	10-Aug-21 A	Pumping Well Installation
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	23-Aug-21 A	28-Aug-21 A	Fumpir
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	30-Aug-21 A	02-Sep-21 A	P
South	34	28-May-21	08-Jul-21	12-Aug-21 A	07-Sep-21	▼ South
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Jul-21	08-Jul-21	23-Aug-21 A	25-Aug-21 A	Pumping \
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21	12-Aug-21 A	07-Sep-21	
Page 19 of 24 Data Date: 03-Sep-21	Bar tivity lestone lork	Summary	ED/	f	or De	hk Road T2 and Infrastructure Works velopments at South Apron

Baseline Bar

September	r l	October		November									
05 12	19 26 03	10 17	24 31 07	14 21 28									
Blinding	& Waterproofing												
	Base Slab	nårt 1	·										
		panti											
		BS P2											
			·										
		Remove S4											
		BS	P3										
			BS P4										
· · · · · · · · · · · · · · · · · · ·			····· <u>·</u> ·····										
				Remove \$3									
BH_15	.15mPD		·										
			VEST VENTILATIO	NN BUILDING [WVE									
 			·····										
			·										
ompletion													
,													
			·····										
			····										
2d/no													
P8) @ 2d/no													
				- <u> </u>									
nos @ 3d/no													
<u> </u>													
i - DP6) 6 nos @	2d/no												
		- L	· · · · · • • • • • • • • • • • • • • •										
	Steel Decl	rection											
n – 6 no/s x 2 rigs	(Zone 3)												
ping Well Installa	tion - 6 nos x 2 rig	s (∠one 1)											
Pumping Wall In	stallation - 7 hos x	2/rigs (70ne 2)											
		- 1190 (ZUIICZ)		<u>.</u>									
Wall Installation	n - 2 nos x 2 rigs (2	20mo 5)											
y vvon nistallauOf	· 2 1103 X 2 1195 (2												
Pumping W	Vell Installation - 3	no¦s x 2 riģs (Zon¦e	6)										
	i	, , , , , , , , , , , , , , , , , , ,	i	<u> </u>									
	Date	Revision	Checked	Approved									
			WYu										
	18-Dec-19	00V1											
	22-Feb-20	01V0	SPa/LLo	WYu									
S CS	09-Apr-20	01V1	SPa/LLo	WYu									
CS	17-Jul-20	01V2	SPa/LLo	WYu									
	09-Oct-20	01V3	SPa/LLo	WYu									
	02-Jul-21	02V0	SPa/LLo	WYu									

Steel Platform Location 8 Pumping Well Installation - 11 nos x 3 rigs (Zone 4) 8 Excavation & Strutting 88 Pumping Test 12 Bulk Excavation Start 0 Excavation to below Strut S1 10,010m³ 17 Strut S1 Installation 20 Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Pre-loading 20	3 24-Jun-21 8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	03-Jul-21 03-Jul-21 22-Oct-21 20-Jul-21	11-Aug-21 A	A 18-Aug-21 A		May 09	lay 16 23	3 30	June 06 13	20 27	July 04 11 18	25 01	August 1 08 15 22	2 29 05	September 5 12 19 26	Octo 26 03 10	October 0 17 24	31 0	November 07 14	
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)8Excavation & Strutting88Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	3 24-Jun-21 8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	03-Jul-21 22-Oct-21	11-Aug-21 A	-		+ +														- 21 201
Excavation & Strutting88Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	22-Oct-21	-	40.4 04.4 1							▼ Steel Platform Locat	ation								<u> </u>
Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	2 09-Jul-21 2 21-Jul-21 7 21-Jul-21			18-Aug-21 A							4		Pump'		llation - 11 nos x 3 rigs (÷,			,
Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	21-JuF21 7 21-JuF21	20-Jul-21	08-Sep-21	22-Dec-21					·····		V						Excav	avation & Stru	rutting	,
Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	7 21-Jul-21	· · · · · · · · · · · · · · · · · · ·	08-Sep-21	19-Sep-21											Pumping	၂ Test				,
Strut S1 Installation 20 Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Installation 20		, ,	20-Sep-21	, ,		+					♦					xcavation Start				,
Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Installation 20	00.1.101	09-Aug-21	20-Sep-21	11-Oct-21		+			1			++				Exc	Excavation to below			,
Excavation to below Strut S2 11,076m ³ 18 Strut S2 Installation 20	0 26-Jul-21	17-Aug-21	25-Sep-21	20-Oct-21		+			· · · · · · · · · · · · · · · · · · ·		,						Strut S1	1 Installation	'n	
Strut S2 Installation 20	2 18-Aug-21	19-Aug-21	21-Oct-21	22-Oct-21		+			:			ŕ					1 1 1	t \$1 Pre-load		
	8 20-Aug-21	09-Sep-21	23-Oct-21	12-Nov-21		· · · · · · · · · · · · · · · · · · ·									A				Excavat	vation to be
Strut S2 Pre-loading 2	0 26-Aug-21	17-Sep-21	29-Oct-21	20-Nov-21									· · · · · · · · · · · · · · · · · · ·							Strut S2
	2 18-Sep-21	20-Sep-21	22-Nov-21	23-Nov-21							//									📕 Strut
Excavation to below Strut S3 11,905m ³ 20	0 21-Sep-21	16-Oct-21	24-Nov-21	16-Dec-21	-											++	4			
Strut S3 Installation 20		22-Oct-21	30-Nov-21	22-Dec-21							·				=					·····
SOUTH APRON ADIT 20	· ·	06-Jul-21	19-Apr-21 A								SOUTH APRON									
South Apron Adit - Sheet piling 20		06-Jul-21		A 05-May-21 A					;;	······	South Apron Adit	dit - Sheet pilin	,ıg							·····
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS] 145		15-Oct-21	15-Apr-21 A	A 19-Nov-21	i												C&C TUNNE	ΞĻ / LAUŅC	CHINĢ SHAFT	, T [C&C / L
Delay Events 0			· ·	A 27-Aug-21 A					/		'									
C1-15 Zone 2 Pour 1 Remedial works 0	,	,	-	A 24-May-21 A		+	с	J1+15 Zonr	ne 2 Pour 1 Rem	medial works		÷							····;	
C1-15 Zone 2 Pour 2 Remedial works 0	/	1	28-May-21 A	A 03-Jun-21 A	۰ ۱			r	C1-15 Zone 2	2 Pour 2 Remedi	Jial works									
C1-15 Zone 2 Pour 3 Remedial works 0	,		04-Jun-21 A	A 08-Jun-21 A	۰ <u>ا</u>				C1-15 Zr	Zone 2 Pour 3 Re	kemedial works									
C1-15 Zone 3 Remedial works 0	, <u> </u>	1	27-Jun-21 A			· +			;		C1-15 Zone 3 Reme	nedial works								
C1-15 Zone 4 Pour 1 Remedial works 0	J		08-Jul-21 A						;				ur 1 Remedial works							
C1-15 Zone 4 Pour 2 Remedial works 0	,								(·		C1-15 Zone 4 Pour 2	í 2 Remedial wr	orks					
C1-15 Zone 4 Pour 3 Remedial works 0	,			A 11-Aug-21 A									G1-15 Zone 4 I							,¦ '
C1-15 Strengthening Wall Strength Gain 0			-	A 15-Aug-21 A	<u>_</u> ;;				(i i i	i i	Vall Strength Gain		·			
Cross Wall X1 Breaking 0	-			A 27-Aug-21 A										!	II X1 Breaking					,¦ '
Shaft Excavation & Strutting 70	-	16-Jul-21	-	A 07-Aug-21 A		-+			i		▼ Sha ⁺	Ift Excavation & S	& Strutting							
Cut & Cover 58		16-Jul-21		A 10-Jul-21 A	A 🗸					'	V Cut &									
Excavation (2,191m ³) up to level -20.1mPD 11	-	20-May-21		A 08-May-21 A	i		Excav	vation (2,1	,191m ³) up to lev	level -20.1mPD										
S5 Steel Struts 12			-	A 29-May-21 A			·····		S5 Steel Struts		·									
Excavation (2,817m ³) up to level -24.6mPD 11		17-Jun-21	-	A 11-Jun-21 A							2,817m³) up to level -24.	_4.6mPD			·					
S6 Steel Struts 12		02-Jul-21		A 21-Jun-21 A							■ S6 Steel Struts									
Pumping Test Trial 0				A 28-Jun-21 A	i						Pumping Test Trial								 	
Excavation (2,567m ³) to FEL (-28.7mPD) 12	-	16-Jul-21	29-Jun-21 A						,,			avation (2,567r	'm³) to FEL (-28.7mPD)	۸ ۱						
Cell 2 34		02-Jun-21		A 24-Jul-21 A					Cell 2				,,						·	
Excavation up to level-21.25mPD 10		02-501-21 04-May-21		A 17-May-21 A			Excavat ⁱ		level-21.25mPD	PD		÷								
Excavation up to level-26.45mPD 12		18-May-21		A 14-Jun-21 A							o level -26.45mPD						· · · · · · · · · · · · · · · · · · ·			
Excavation (6,809 m ³) to FEL -32.63mPD 12		02-Jun-21	-	A 24-Jul-21 A				;				Excavatio	on (6,809 m³) to FEL -32.	⊀2 63mPD						
Cell 1 31		29-May-21		A 07-Aug-21 A					(- · · ·										·	
Excavation up to level-21.25mPD 10		04-May-21		A 17-May-21 A	+·		Excavatio		level-21.25mPD	PD									<u>-</u> <u>-</u>	
Excavation up to level - 26.45mPD 12		18-May-21		A 07-Jun-21 A					i i i		26 45mPD									
Excavation (6,809 m ³) to FEL -33.75mPD 9		-	-	A 07-Sulf-21 A									Excavation (6.809	10 m ³) to FEL -?	43 75mPD				· · · · · · · · · · · · · · · · · · ·	
Civil Works for TBMAssembly 111		29-May-21 15-Oct-21	03-Jul-21 A	-													Civil Works for			
Cut & Cover 75		15-Oct-21 15-Oct-21	10-Jul-21 A		ii.												Cut & Cover		JIIOIN	
	10 001 2 .		10.001 =		4	<u> </u>				<u></u> .		<u> </u>						<u> </u>	<u> </u>	<u> </u>

Page 20 of 24 Data Date: 03-Sep-21 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

Summary

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

BOUYGUES TRAVAUX PUBLICS



	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
1	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			_									_				20				
						02	N 09	May 16	23	30	0 06	June 13	20	27	04		uly I	18 2	5 (01		igust 15	22	29	Т
C&C Excavation completion	0		16-Jul-21		10-Jul-21 A													&C Exca	vation					T	
Barrette Trimming	6	17-Jul-21	23-Jul-21	12-Jul-21 A	21-Jul-21 A		• • • • • • • • • •		L								!	📛 🗄 Ba	rette T	Trimm	ing				
Blinding & Waterproofing Pour 15	9	24-Jul-21	03-Aug-21	22-Jul-21 A	19-Aug-21 A		- - - - -													1		E P	Blindinģ	& Wa	ater
Base Slab Pour 5 [1,740m³)	30	04-Aug-21	07-Sep-21	20-Aug-21 A	14-Sep-21		<u> </u>							+											÷
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21	15-Sep-21	29-Sep-21		- 																		
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	23-Sep-21	04-Oct-21	30-Sep-21	11-Oct-21		 - - -							+											
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	05-Oct-21	15-Oct-21	12-Oct-21	22-Oct-21		± ! !																		-l - - - -
Cell 1 & 2	83	02-Jun-21	09-Sep-21	03-Jul-21 A	19-Nov-21		, , , ,			٦				+ 											
Cell 1 & 2 Excavation completion	0		02-Jun-21		07-Aug-21 A		,			<	>									•	Cell 1	& 2 Exc	cavation	1 com	ple
VSL Gantry Crane Setup	12	30-Jun-21	14-Jul-21	03-Jul-21 A	24-Aug-21 A		 							 -	-								V \$	SL Ga	ntry
VSL Gantry Crane Load Test	3	15-Jul-21	17-Jul-21	25-Aug-21 A	28-Aug-21 A		• ·									_	-							VSL	G
Base Slab	83	03-Jun-21	09-Sep-21	15-Jul-21 A	19-Nov-21						/			;											-j-:
Blinding & Waterproofing Pour 1	6	10-Jun-21	17-Jun-21	15-Jul-21 A	28-Jul-21 A		1 1 1 1				_								Blin	ding 8	Waten	proofing	g Pour 1	1	
Base Slab Pour 1 [1,292m³)	22	18-Jun-21	14-Jul-21	29-Jul-21 A	21-Aug-21 A		· · · · · · · · · · · · · · · · · · ·					C		;									Base	Slab	Ροι
Plate Load Test	6	03-Jun-21	09-Jun-21	16-Aug-21 A	21-Aug-21 A		 ! !				—												Plate L	Load	Tes
Blinding & Waterproofing Pour 2	9	18-Jun-21	28-Jun-21	28-Aug-21 A	10-Sep-21		+ 					_											Ļ		Ĥ
Blinding & Waterproofing Pour 3 & 4	9	29-Jun-21	09-Jul-21	30-Aug-21 A	10-Sep-21											•									-1
Base Slab Pour 2 [883m ³)	10	15-Ju -21	26-Jul-21	11-Sep-21	30-Sep-21		 - -							+		-		;							ŀ
Base Slab Pour 3 & 4 [910m ³)	8	27-Ju -21	04-Aug-21	11-Sep-21	02-Oct-21		• ! !																		
Temp. & Perm. Side Wall part 1	9	14-Aug-21	24-Aug-21	04-Oct-21	18-Oct-21																÷		-		
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21	13-Nov-21	19-Nov-21		<u> </u>							+										r	
Tympanum	67	03-Jun-21	21-Aug-21	26-Jul-21 A	12-Nov-21		•				V			•	1								Tympa	anum	-1
Blinding & Waterproofing	9	03-Jun-21	12-Jun-21	26-Jul-21 A	11-Aug-21 A		•					3										linding 8			ing
Tympanum Pour 1 + Seal Rings [353m³)	12	15-Jun-21	28-Jun-21	12-Aug-21 A	31-Aug-21 A							_												– 7	yn
Tympanum Pour 2 + Seal Rings	6	07-Jul-21	13-Jul-21	01-Sep-21 A	09-Sep-21		+ 1 1 1								_										-
TYmpanum Mass Fill	0			10-Sep-21	13-Sep-21		, ·																		-
Tympanum Pour 3 + Seal Rings	10	14-Jul-21	24-Jul-21	14-Sep-21	28-Sep-21		 									-		-							Ì
Tympanum Pour 4 + Seal Rings	10	26-Jul-21	05-Aug-21	29-Sep-21	13-Oct-21		+ · 											_							-
Tympanum Pour 5 Seal Rings	14	06-Aug-21	21-Aug-21	15-Oct-21	26-Oct-21		 - 																		Ì
Falseworks removal	0			27-Oct-21	12-Nov-21		1 1 1 1																		
SUB-SEA TBM TUNNEL - WESTBOUND	435	25-Aug-20	12-Feb-22	25-Aug-20 A	12-Feb-22	1	T																		1
TBM Design / Fabrication / FAT / Delivery	249	25-Aug-20	29-Jun-21	25-Aug-20 A	22-Jul-21 A										Γ₿MD	es¦ign / I	Fabri	catio¦n / F	AT / C	Deliver	y				
Fabrication	168	25-Aug-20	18-Mar-21	25-Aug-20 A	14-May-21 A	1	1	Fabric	ation						1										
FAT	24	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A							FAT													
Delivery of TBM components to the Site	48	03 - May-21	29-Jun-21	10-Jun-21 A	22-Jul-21 A		1						1		-			Deli	very of	fТВӍ	compo	onents to	o the Si	te	
Precast Fabrication	259	29-Mar-21	12-Feb-22	29-Mar-21 A	12-Feb-22	· · · · · · · · · ·	• ·							+											
TBM Precast Segments	180	29-Mar-21	05-Nov-21	29-Mar-21 A	03-Dec-21	- 	; ; ;		 																
Precast TBM Segment - 30%	36	29-Mar-21	14-May-21	29-Mar-21 A	29-May-21 A		 			Pr	ecast TB	M Segm	ient - 30	% 									·		
Precast TBM Segment - 40%	36	15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A														– F	Precas	t TBM	Segme	nt - 40%	6	
Precast TBM Segment - 50%	36	29-Jun-21	10-Aug-21	02-Aug-21 A	07-Sep-21		, , , , ,																		
Precast TBM Segment - 60%	36	11-Aug-21	21-Sep-21	08-Sep-21	22-Oct-21			¦																	-
Precast TBM Segment - 70%	36	23-Sep-21	05-Nov-21	23-Oct-21	03-Dec-21																				
Service Gallery	108	29-Jun-21	05-Nov-21	19-Jul-21 A	29-Dec-21																				- - -
Precast Serviœ Gallery - Mould Design	24	29-Jun-21	27-Jul-21	19-Jul-21 A	15-Sep-21		 		1							1	i	1		:	:	:	:		1

Page 21 of 24 Data Date: 03-Sep-21 Milestone
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 Planned Bar
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 Actual Work
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Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

	Septemb				Octo		0.1			vember	0.4	
05	12	19	26	03	10	17	24	31	07	14	21	28
terproof	ing Pou	ir 15										
			o Pou	r \$ [1,740)m³)							
				C&C S5		trut Rer	noval					
							3H remo	wal (14	5m²/8	4m²/shi	ftx2s	hift)
							EB SU					
	Cell 1 8	2										
letion												
try Crar	e Setu))				 			'			
		oad Te	st									
	Base S											
our 1 [1	,292m³					 		• • • • • • • •				
est								+				
	Blindir	g & Wa	terpro	oofing Po	ur 2	 						
				oofing Po		¦						
	 			Base S			3m³)					
							4 [910r	n ³)				
	- 					+	np. & P		de Wall	part 1		
											Temp	&
	, , , ,											
lg												
	m Pour	1 + Sea	al Rin	gs [353m	3)	, , , ,		•				
				Seal Rin								
		mpanur										
				Tympanu	m Pour	3 + Se	al Rinas					
						+	um Pou		al Rino	s		
	; 					-ympan 			m Pour		Rinas	
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						• •		V	TBMF	recast	Segme	nts
Pi	ecast T	BM Se	gmen	t - 50%				• • • • • • • •				
						+	Preca	st TBM	Segme	nt - 60%	6	
								·				
								· · · · · · ·	Servic	e Galle	ry	
	F	recast	Servi	e Gallery	- Moul	d Desig	n					
				1	I	1	. :		I			
		1	Date		David	ision		hock		A	roved	1



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

Activity Name		02V0 Start	02V0 Finish	Start	Finish																						
						02		lay 16 2	23 30		June 13 2) 27]	04	July 11 18	3 25	01 (August	22	29 05	Septemb	er 19 26		tober	24 31	Nov 07	vember 14	21 28
Precast Service Gallery - Mould Fabrication & Setup	36	28-Jul-21	07-Sep-21	17-Sep-21*	01 - Nov-21						-						-								Precast Se	rviœ Gall	lery - Mo
Precast Service Gallery - Mass Production Start	0	08-Sep-21		02 - Nov-21															♦					•	Precast Se	ervice Gal	lery Ma
Precast Service Gallery - 3%	24	08-Sep-21	07-Oct-21	02-Nov-21	29-Nov-21																				·¦;-	· · · · · · ·	
Precast Serviœ Gallery - 6%	24	08-Oct-21	05-Nov-21	30-Nov-21	29-Dec-21																				■		
OHVD Slab	72	15-Nov-21	12-Feb-22	15-Nov-21	12-Feb-22																					V	
Concrete Mix - Plant Trial	72	15-Nov-21	12-Feb-22	15-Nov-21*	12-Feb-22																						
Precast OHVD Slab - Mould Fabrication & Setup	72	15-Nov-21	12-Feb-22	15-Nov-21*	12-Feb-22																						
Site Establishment	316	03-Oct-20	27-Oct-21	27-Oct-20 A	07-Dec-21																			▼ Şite E	stablishme	ent	
Temporary CLP 132kV Substation	221	31-Oct-20	31-Jul-21	27-Oct-20 A	31-Aug-21 A											Tempor	ary CLP 132	2kV Subst	ation								
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192	31-Oct-20	26-Jun-21	27-Oct-20 A	02-Aug-21 A											Temp	CLP 132kV	Substatio	n - CLP T	ransforme	r Setup & Fir	nal Fix					
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	03-Aug-21 A	31-Aug-21 A													·······	Temp C	CLP 132k	/ Substation	FSD / WSD In	spection				
Temp CLP 132kV Substation - Power On	0		31-Jul-21		31-Aug-21 A											>		••••••	🔶 Temp C	CLP 132k	/ Substation	Power On					
Precast Elements Storage Yard	90	03-Oct-20	20-Jan-21	10-May-21 A	26-Oct-21																						
Precast Storage - Foundation	24	03-Oct-20	31-Oct-20	10-May-21 A	31-May-21 A			 - I	Pre	ecast Stor	rage - Fou	ndation	·	 		1											
Precast Storage - RC beam & Rail installation	24	02 - Nov-20	28-Nov-20	07-Jun-21 A	31-Jul-21 A	†	+				;						Storage - R										
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21 A	19-Oct-21	ļ																	Prec	ast Storag	ge <mark>-</mark> Deliver	ry & Asse	mbl y
Precast Storage - Commissioning & Load Test	6	14-Jan-21	20-Jan-21	20-Oct-21	26-Oct-21																			Precas	t Storage	Commiss	sioning &
Gantry Crane Setup for TBMAssembly	66	04-Mar-21	26-May-21	21-May-21 A	28-Aug-21 A				▼ Gantry C	Grane Set	tup for TB	/IAssembl∖	/														
Gantry Crane - RC beam & Rail installation	24	04-Mar-21	31-Mar-21	-	30-Jun-21 A			·····		· · · · · · ·		Ģ	antry ¢ra	ne - RC be	eam & R	ail installatio	on										
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21	28-Jun-21 A	24-Aug-21 A							·						🗖 Gạn	try Crane	- Delivery	& Assembly						
Gantry Crane - Commissioning & Load Test	6	20-May-21	26-May-21		28-Aug-21 A			····-											Gantry Cra	ane - Com	missioning 8	Load Test					
Slurry Treatment Plant	156	04-Mar-21	10-Sep-21	18-Feb-21 A	03-Dec-21			¦					·····								Treatment P						!
Slurry Treatment Plant - Civil works	36	04-Mar-21	19-Apr-21	18-Feb-21 A	17-Sep-21																	ment Plant - Ci	vilworks				
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	07-Oct-21			;			· · · · · · · · · · · · ·		· · · · · · · · · · ·				- +					Slurry	Treatment	Plant - De	livery & As	ssembly	
Slurry Treatment Plant - Installation	48	20-May-21	16-Jul-21	20-May-21 A	07-Oct-21																	Slurry	Treatment	Plant - Ins	stallation		
Slurry Treatment Plant - Commissioning	24	17-Jul-21	13-Aug-21	08-Oct-21	05-Nov-21									¦									-+			Treatm'en	t Plant -
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	06-Nov-21	03-Dec-21								·····-														
Mortar Plant	108	18-Jan-21	02-Jun-21	15-Jul-21 A	09-Nov-21					Mortar Pla	ant																
Mortar Plant - Civil works	36	18-Jan-21	02-5011-21 04-Mar-21	15-Jul-21 A	10-Sep-21															Mortar	Plant-Civil	works					
Mortar Plant - Installation	48	04-Mar-21	04-May-21	02-Aug-21 A	11-Oct-21																		lortar Plant	- Installati	n		
Mortar Plant - Commissioning	24	05-May-21		12-Oct-21					<u></u>									· · · · · · · · · · · · · · · · · · ·								ortar Plant	t-Comm
DG Store / Medical Lock		,	02-Jun-21		09-Nov-21		· · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		· · · · · ·					· · · ·					-+		ore / Medi		
Hyperbaric Intervention - LD consultation & Approval	267 144	01-Dec-20 01-Dec-20	27-Oct-21 31-May-21	01-Dec-20 A 01-Dec-20 A	07-Dec-21 10-Sep-21		+			· · · · · · ·		+						+-		Hyner	haric Inferver	tion - LD consu	Itation & Ar				
DG Store / Medical Lock Installation	48	01-Dec-20 02-Aug-21	27-Sep-21	11-Sep-21*	09-Nov-21					·								·					-+			Store/M	
DG Store / Medical Lock - FSD Approval	24	28-Sep-21	27-Oct-21	10-Nov-21	07-Dec-21										DMAssa												
TBMAssembly WB TBM 1st Delivery	0	18-Jul-21	18-Jul-21 18-Jul-21	22-Jul-21 A	04-Dec-21 22-Jul-21 A											3M 1st Dieliv											
			10-Jul-2 1	20 Aug 21 A		ļ				·									Lifting	CEICEICA	/Cross Beam						
Lifting S5/S6/S4/Cross Beam	0			-	01-Sep-21 A													• • • • • • • •									
Main Drive with displacement Cylinder	0			02-Sep-21 A		ļ	ļ	·····.														ment Cylinder					
Lifting S3/S7/S2/S8 & S1 Installation	0			06-Sep-21	11-Sep-21													· · · · · · · · · · · · · · · · · · ·		Lifting		3 & S1 Installati					
Shield Bolts torquing & Interior Shiled Joint Welding	0			11-Sep-21	20-Sep-21	ļ																oltis torquing & I		ed Joint W	elding		
Cutterhead Installation	0			20-Sep-21	21-Sep-21	ļ	ļ									ļ						ad Installation					
Erector Preparation & Installation	0			22-Sep-21	24-Sep-21																	or Preparation	& Installatio	n			
Shield Shifting	0			22-Sep-21	24-Sep-21																E Shie	d Shifting				1	
																								-			

Page 22 of 24 Data Date: 03-Sep-21 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

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CriticalActivity

Baseline Milestone
 Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish												2021					May June July August September October November													
				/		02		ay 16	23 30			20 27	04 11	July 11 18	25	01	August 08 15	22	29 05		er 19 26		24	No 31 07	Vovember 14 21 28										
Final Shield Joint Welding	0	,	,	24-Sep-21	28-Sep-21		_														Fin:	al Shield Joint Wel	lding		, , , , , , , , , , , , , , , , , , ,										
Cutterhead Connection to Shield	0	/		21-Sep-21	02-Oct-21																	Cutterhead Conne	ction to Sh	ield											
Installation Welding Plate on Top S1	0	(1	02-Oct-21	04-Oct-21							,	, i i i i				 1 1 1					Installation Weld	ling Plate o	n Top S1	Ч										
Lifting & Welding of Tailskin to Shield	0	(1	24-Sep-21	18-Oct-21										-								ifting & We	elding of Tailsk	kin to Shield										
1st Shifting of TBM	0	1		18-Oct-21	20-Oct-21	1											·····							ng of TBM											
Thrust Frame Installation	0			20-Oct-21	29-Oct-21	-																			e Installation										
Gantry Rail Wall Installation	0		· [· · · · · · · · · · · · · · · · · ·	20-Oct-21	30-Oct-21	+							 				 							Gantry Rail V	Wall Installation										
Gantry 4 Assembly	0		'	30-Oct-21	01-Nov-21	+											 i i							Gantry4A	Assembly										
Gantry 3 Assembly	0	'	'	01-Nov-21	04-Nov-21	+											 1 1							Gantry											
Gantry 2 Assembly	0	· ['	'	04-Nov-21	07-Nov-21	+													·						ntry 2 Assembly										
Segment Feeding Installation	0	'	'	07-Nov-21	08-Nov-21	+		·																	egment Feeding Ins										
Gantry 1 Assembly	0	'	'	08-Nov-21	11-Nov-21	+		·																	Gantry 1 Assembly										
Air / Water / Hydraulic Electrical Connections	0			11-Nov-21	20-Nov-21	+																		--	Air / Wat										
Power On	0		'	20-Nov-21	20-Nov-21														·					·											
Testing & Commissioning	0			20-Nov-21 22-Nov-21	04-Dec-21	-																													
	0	19-Aug-21	19-Aug-21	22-Nov-21 06-Sep-21	04-Dec-21			·····													STBOUND														
SUB-SEA TBM TUNNEL - EASTBOUND TBMAssembly	0			06-Sep-21 06-Sep-21	02-Dec-21 02-Dec-21	4												TBM Ass		NNEL - EAS															
EB TBM 2nd Delivery	0	19-Aug-2 1	19-Aug-21 19-Aug-21	00-3ep=2 1	02-Dec-21 06-Sep-21*	4											◆			EB TBM 2h	nd Deliverv				·										
Lifting S5/S6/S4/Cross Beam	0		13-ruy	11-Sep-21	14-Sep-21							;									ting S5/S6/S4/C	rose Ream		·	++-₽										
Main Drive with displacement Cylinder	0			11-Sep-21 14-Sep-21	14-Sep-21 18-Sep-21								<u>.</u>									h displacement Cy	lindor												
	-	'	'		· ·													·			i i	Lifting S3/\$7/S2	i i	atallation											
Lifting S3/S7/S2/S8 & S1 Installation	0			28-Sep-21	04-Oct-21		÷																												
Shield Bolts torquing & Interior Shiled Joint Welding	0	· · · · · · · · · · · · · · · · · · ·		04-Oct-21	12-Oct-21																				r Shiled Joint Weldir										
Cutterhead Installation	0		'	12-Oct-21	13-Oct-21	ļ	÷											·				!!	head Insta		P										
Shield Shifting	0	/ /	/ //	14-Oct-21	16-Oct-21												1 1 1 2						iield Shifting	.[
Erector Preparation & Installation	0			16-Oct-21	20-Oct-21												, , , , ,							reparation & Ir											
Final Shield Joint Welding	0	//	,	20-Oct-21	25-Oct-21												· · · · ·							al Shield Joint V											
Cutterhead Connection to Shield	0	/	,	13-Oct-21	26-Oct-21																				nnection to Shield										
Installation Welding Plate on Top S1	0	,	,	26-Oct-21	28-Oct-21																			Installation We	/elding Plate on Top										
Lifting & Welding of Tailskin to Shield	0	,	,	20-Oct-21	15-Nov-21																				📕 Lifting & Weldi										
Shifting of TBM to B/I Location	0	,	,	15-Nov-21	17-Nov-21																				Shifting of TE										
Thrust Frame Installation	0	(,	1	17-Nov-21	26-Nov-21												 i i								Th										
Gantry Rail Wall Installation	0	(1	17-Nov-21	27-Nov-21										1									[G										
Gantry 4 Assembly	0			27-Nov-21	30-Nov-21	1							, , , , , , , , , , , , , , , , , ,																						
Gantry 3 Assembly	0			30-Nov-21	02-Dec-21	+																		['	ſ										
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	312	2 01-Feb-21	22-Feb-22	01-Feb-21 A				·i							++-																				
CP TBM Design / Fabrication / FAT / Delivery		2 01-Feb-21	22-Feb-22	01-Feb-21 A			<u></u>	·	<u>-</u>		<u> </u>	·	<u>;</u>			<u></u>	<u> </u> !					<u>-</u>	<u></u>	<u>+</u> '											
Place Order	72		04-May-21		31-May-21 A				- i	Place Order	i i		[[;											
Design	72	05-May-21	30-Jul-21	01-Jun-21 A	30-Jul-21 A		<u></u>		·ii			<u>i</u>	 		÷	Design	· · · · · · · · · · · · · · · · · · ·							'											
Fabrication / Refurbishment	144		21-Jan-22	10-May-21 A		+	:====	·	·			·	·				1	+-			·			<u>+</u>											
FAT	24			16-Nov-21	13-Dec-21	+											 1 1 1							·											
CP Precast Lining Fabrication	40		14-Jan-22	26-Nov-21	14-Jan-22	+						·····							·																
Concrete Mix - Plant Trial	40		14-Jan-22	26-Nov-21*		1																													
CHA KWO LING ROAD WORKS	30		31-May-21	19-Apr-21 A			<u></u>	·		CHA KWO	LINGR	OAD WORKS	3				 ; ;		·					·											
Wai Yip Street / Cha Kwo Ling Road Junction	30		31-May-21	19-Apr-21 A			·					ia Kwo Ling Ro		on																					
						_ <u>t:</u>	i								<u> </u>				:					<u> </u>											
Page 23 of 24		Summary		001010							_		_								Date 18-Dec-19	Revision 00V1	n Ci WYu	Checked	Approved										

Page 23 of 24 Data Date: 03-Sep-21 Milestone V Planned Bar Critical Activity

Actual Work

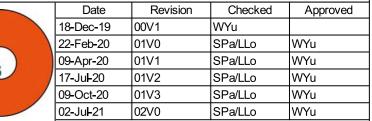
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Baseline MilestoneBaseline Bar

al Milestone

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

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	May kupo kulu								2021									
						02	May 09 16	23	30 06	June 13 20	27	Ju 04 11	ly 18 25	01 08	August 15	22 29	<u> </u>	ember 2 19	26 03	October 10 17	24 31 07	November 14	21 28
Section 8E Completion	0		31 - May-21		17-Sep-21			C											8E Completio				
Reinstatement	30	24-Apr-21	31-May-21	19-Apr-21 A	17-Sep-21													E Reinsta	tement				
DRILL & BREAK TUNNEL [D&BR]	200	09-Apr-21	06-Dec-21	09-Apr-21 A	15-Dec-21							 			- -			·					
Precast Fabrication	96	09-Apr-21	03-Aug-21	09-Apr-21 A	02-Oct-21									▼ Precast	Fabrication	1							
Precast Service Gallery - Mould Design	24	09-Apr-21	07 - May-21	09-Apr-21 A	05 - May-21 A																		
Precast Service Gallery - Mould Fabrication & Setup	24	08-May-21	05-Jun-21	06-May-21 A	16-Jul-21 A					!!!	- -		Precast Servi	œ Gallery - N	lould Fabri	cation & Se	tup						
Precast Service Gallery - Mass Production Start	0	07-Jun-21		17-Jul-21 A					◇				Precast Serv	ce Gallery - I	Mass Produ	uction Start							
Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Jul-21 A	02-Oct-21										- +				Preca	ast Service Gal	lery		
Tunnel Excavation	154	06-Jul-21	06-Dec-21	28-Jun-21 A	15-Dec-21							V											
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	40	06-Jul-21	14-Aug-21	28-Jun-21 A	15-Sep-21																e D - Excavation To	р	
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	39	15-Aug-21	22-Sep-21	16-Sep-21	24-Oct-21					,											EB D&Br Tunn	el CH9040	9025 Ty
Probe hole at CH9025	1	23-Sep-21	23-Sep-21	25-Oct-21	25-Oct-21													0			Probe hole at C	H9025	
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	26-Oct-21	04-Dec-21																		
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	05-Oct-21	15-Dec-21													=				· · ·	· i
DRILL & BLAST TUNNEL [D&BL]	286	14-Jan-21	31-Dec-21	05-Apr-21 A	08-Jan-22		;;																
Tunnel Excavation	286	14-Jan-21	31-Dec-21	05-Apr-21 A	08-Jan-22																		
Eastbound	176	02-Jun-21	31-Dec-21	13-Apr-21 A	08-Jan-22				V		- +				· · · · · · ·					+			
Full Face Drill & Blast	176	02-Jun-21	31-Dec-21	13-Apr-21 A	08-Jan-22				V	· · · · · · · · · · · · · · · · · · ·	- +				- +						· · · · · · · · · · · · · · · · · · ·		
EB - D&BI Tunnel - CH9088-9055 Type D - Excavation	26	02-Jun-21	03-Jul-21	13-Apr-21 A	25-Jun-21 A					I I I I		EB - D&BI	Funnel - CH908	8-9055 Type I	D-Excavat	ion							
Probe hole at CH9055	1	05-Jul-21	05-Jul-21	26-Jun-21 A	26-Jun-21 A								le at CH9055										
EB - D&BI Tunnel - CH9160-9055 Type B/C/D - Enlargement	70	06-Jul-21	25-Sep-21	18-Jun-21 A	04-Oct-21								1 1	1	1 1		1 1		EB	- D&BI Tunnel	- CH9160-9055 Typ	e B/C/D - E	nlargem
EB - D&BI Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	05-Oct-21	06-Nov-21																EB	- D&Bl Tun	nel - Brar
EB - D&BI Tunnel - CH9240-9055 - Bench Excavation & SG	51	01 - Nov-21	31-Dec-21	08-Nov-21	08-Jan-22																		
Westbound	170	14-Jan-21	12-Aug-21	05-Apr-21 A	02-Oct-21					4	- +				Westbou	nd							
Full Face Drill & Blast	170	14-Jan-21	12-Aug-21	05-Apr-21 A	02-Oct-21					· · · · · · · · · · · · · · · · · · ·			· · ·	V	' Full Face	Drill & Blas	t						
WB - D&BI Tunnel - CH9188-9158 Type A - Excavation	44	01-Apr-21	28-May-21	08-Apr-21 A	22 - May-21 A	E :				innel - CH918			vation										
Probe hole at CH9158	1	29-May-21	29-May-21	24-May-21 A	24-May-21 A				Probe hole a	t CH9158													
WB - D&BI Tunnel - CH9158-9138 Type A - Excavation	26	31 - May-21	30-Jun-21	25-May-21 A	26-Jun-21 A				1			B - D&BI Tur	nnel - CH9158-9	138 Type A -	Excavation								
WB - D&BI Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23-Jul-21 A		r			1		F		D&BI Tunnel -		1.1.1	+ Excavatio	l l					
WB - D&BI Tunnel - CH9258-9138 - SG Excavation	36	02-Jul-21	12-Aug-21	26-Jul-21 A	02-Oct-21									 					WB-	D&BI Tunnel -	CH9258-9138 - SG	Excavation	
Tunnel Structure WB Type A	24	13-Aug-21	09-Sep-21	04-Oct-21	01-Nov-21											+	▼ Tun	nel Structure	e WB Type A				
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	04-Oct-21	01-Nov-21																WB - D8	BI Tunnel -	CH9258
Cross Passage	16	06-Jul-21	23-Jul-21	04-Sep-21	23-Sep-21							V	Cross	Passage									
CP31	16	06-Jul-21	23-Jul-21	04-Sep-21	23-Sep-21							V	CP31										
CP31 - D&BI Excavation 16.7m	16	06-Jul-21	23-Jul-21	04-Sep-21	23-Sep-21															xcavation 16.7	1		
TUNNEL E&M INSTALLATION & COMMISSIONING	42	17-Sep-21	08-Nov-21	01 - Nov-21	18-Dec-21													V				UNNEL E&	
TKO-LTT Admin Building	42	17-Sep-21	08-Nov-21	01 - Nov-21	18-Dec-21													▼				KO-LTT Ad	
Material Delivery	6	17-Sep-21	24-Sep-21	01 - Nov - 21*	06-Nov-21	ļ															Ma	terial Delive	ry
Submain Power Supply Installation	12	25-Sep-21	09-Oct-21	08-Nov-21	20-Nov-21	ļ																	Submain
Conduit Installation	24	11-Oct-21	08-Nov-21	22 - Nov-21	18-Dec-21										· · · ·		· · · · · · · · · · · · · · · · · · ·						
Cable Trunking and Tray Installation	36	25-Sep-21	08-Nov-21	08-Nov-21	18-Dec-21							1											
Cable Pulling	24	11-Oct-21	08-Nov-21	22-Nov-21	18-Dec-21										,								
			-			•								1							· · ·		

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Summary Planned Bar

Actual Milestone Actual Work ♦ Baseline Milestone

Baseline Bar

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CriticalActivity

Milestone

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

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