## Trunk Road T2

## Monthly Environmental Monitoring and Audit Report (under EP-458/2013/C)

September 2022

(Version 1.0)

Approved By	
	(Environmental Team Leader:
	Mr. KS Lee)

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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17 October 2022

By Post and Email

Ref.: CEDKTDT2EM00\_0\_0388L.22

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

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for September 2022 (Version 1.0) certified by the ET Leader and provided to us via email on 16 October 2022. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

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

Y H Hui Independent Environmental Checker

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

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#### **EXECUTIVE SUMMARY**

#### Introduction

1. This is the 29<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of September 2022.

#### Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
  - East Bound RC Structure Construction, Service Gallery Drill & Blast, Service Gallery A Installation.
  - East Ventilation Building WB Blinding & Waterproofing, EB Excavation and RC Structure.
  - West Bound Extension & Blast Tunnel, RC Structure Construction.
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

#### Construction Noise

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

#### Air Quality

• Regularly watering on site to avoid dust generation.

#### Landscape and Visual

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

#### **Environmental Monitoring Works**

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

Environment al Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	1	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 <sup>(1)</sup>	N/A	N/A <sup>(1)</sup>	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. 1 (One) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

#### Construction Noise Monitoring

- 8. No Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table III**.
- 9. No Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month. Detail shall refer to **Appendix N**.

#### Water Quality Monitoring

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

#### Waste Management

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

#### Ecological Monitoring

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

Fisheries Impact Monitoring

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

Monitoring on Cultural Heritage

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

Landscape and Visual Monitoring and Audit

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

Landfill Gas Monitoring

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

Hazard to Life Monitoring

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

#### Environmental Site Inspection

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

#### Key Information in the Reporting Month

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

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

Event	Event Details		A ation Takan	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 Com	plaints Details in	<b>Reporting Month</b>
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Complaint Type Investigation Findings		Follow-up Action / Mitigation Measure	
-	-	-	

#### **Reporting Changes**

23. No reporting change is recorded in the reporting months.

#### **Future Key Issues**

24. The key works or activities will be anticipated in the next reporting period are as follows:

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

Site Activities (October 2022)	Key Environmental Issues
<ol> <li>East Bound – RC Structure Construction, Service Gallery Frill &amp; Blast. Service Gallery A Installation</li> <li>East Ventilation Building – WB Blinding &amp; Waterproofing, EB Excavation, RC Structure</li> <li>West Bound – Extension &amp; Blast Tunnel, RC Structure Construction</li> </ol>	(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 -	<u>Cha Kwo Ling Tunnel</u>		
Lam Tin Tunnel (TKOLTT) and	Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2		
Associated Works	to the TKOLTT at the Eastern Ventilation Building		

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

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

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

#### **Purpose of the Report**

1.6 This is the 29<sup>th</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in September 2022.

#### **Project Organizations**

- 1.7 Different Parties with different levels of involvement in the Project organization include:
  - Permit Holder Civil Engineering and Development Department (CEDD)
  - Supervisor Representative Hyder-Meinhardt Joint Venture (HMJV)
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) Ramboll Hong Kong Limited (Ramboll)
  - Contractor Bouygues Travaux Publics (BTP)
- 1.8 The key contacts of the Project are shown in **Table 1.1**.

#### Party Role **Contact Person** Phone No. CEDD Permit Holder Mr. Wong Chi Wai, Tommy 3842 7111 Supervisor HMJV 2149 8524 Ms. Hazel Tang Representative Mr. KS Lee (ETL) 2151 2091 Cinotech Environmental Team Ms. Karina Chan 2157 3880 Independent Ramboll Mr. YH Hui 3465 2850 Environmental Checker BTP Ms. Ality Chan Contractor 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:
  - East Bound RC Structure Construction, Service Gallery Drill & Blast, Service Gallery A Installation.
  - East Ventilation Building WB Blinding & Waterproofing, EB Excavation and RC Structure.
  - West Bound Extension & Blast Tunnel, RC Structure Construction.

#### Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in September 2022.

#### Status of Environmental Licensing and Permitting

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

#### Table 1.2 Summary of Environmental License and Permit

Demail ( Lieuwa Na	Valid Period		States a		
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 (Const	truction Dust) <b>F</b>	Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid		
Billing Account for Construction Waste Disp	osal				
A/C No.: 7036016	09 Dec 2019	N/A	Valid		
Construction Noise Permit					
CNP No. (For Portion Q): GW-RE0227-22	24 Mar 2022	23 Sep 2022	Expired on 23 Sep 2022		
CNP No. (For Portion T1): GW-RE0622-22	07 Jul 2022	06 Oct 2022	Valid		
CNP No. (For Portion Q): GW-RE0919-22	23 Sep 2022	23 Mar 2023	Valid		
Wastewater Discharge License					
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid		
Chemical Waste Producer License	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.

<b>Monitoring Stations</b>	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 <sup>(1)</sup>	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(B) <sup>(2) (*)(**)</sup>	Flat 103 Cha Kwo Ling Village	Ground Level

#### 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)

(\*\*) AM4(A) is not available for conducing monitoring due to the demolition of administrative office.

#### **Monitoring Parameters and Frequency**

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Period	Frequency
AM1, AM2, AM3, AM4	1-hour TSP	0700 - 1900	3 times per 6 days
AM1, AM2, AM3, AM4(B)	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 re-calibrated 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**.

Equipment	Model	Quantity
	Sibata Model No. LD-5R	
1-hour TSP Dust Meter	(Serial No.: 972781, 972778, 972779,	4
	972780)	
	GMW model: GS2310	2
HVS Sampler	(Serial No.: 1287, 10379, 10599)	5
	TE 5170 (Serial No.: 1956)	1
Calibrator	TISCH Model: TE-5025A	1
Calibrator	(Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
wind Allemonieter	(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.

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- 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 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.

- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm$ 3°C; the relative humidity (RH) should be < 50% and not vary by more than  $\pm$ 5%. A convenient working RH is 40%.

#### Maintenance/Calibration

- 2.12 The following maintenance/calibration is required for the HVS:
  - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.

High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

#### **Results and Observations**

- 2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3 and AM4 are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report. As the proposal for relocation approved, the monitoring at AM4(A) will conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP- 451/2013), is located in close proximity to AM4(B); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(B), which has similar environment when compared with that for CKL2. The location of monitoring station CKL2 is shown in **Figure 2**.
- 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 1 (One) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting

month. No Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

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

Monitoring Stations	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road, non-project related influence and the construction activity from other construction site
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related influence and the construction activity from other construction site
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(B) <sup>(**)</sup> - Flat 103 Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road <sup>(*)</sup>

#### Table 2.4 Major Dust Source during Air Quality Monitoring

(\*): Field observation observed at CKL2 during monitoring is presented. Detail refer to S2.13.

(\*\*) AM4(A) is not available for conducing monitoring due to the demolition of administrative office.

#### 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.

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 1-hr TSP Concentration in the Reporting Month (September 2022), μg/m <sup>3</sup>
AM1 – Tin Hau Temple	CL1	707	88.4
AM2 – Sai Tso Wan Recreation Ground	CL6	266	128.1
AM3 – Yau Lai Estate Bik Lai House	CL9	507	109.2
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	94.5

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

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

<b>Monitoring Stations</b>	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 24-hr TSP Concentration in the Reporting Month (September 2022), μg/m <sup>3</sup>
AM1 – Tin Hau Temple	CL1	199	198.2
AM2 – Sai Tso Wan Recreation Ground	CL6	109	174.9
AM3 – Yau Lai Estate Bik Lai House	CL9	123	41.0
AM4(B) – Flat 103 Cha Kwo Ling Village <sup>(*)</sup>	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	156.5 (**)

Remarks:

(\*\*): Monitoring results at CKL2 is presented. Detail refer to S2.13

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

<sup>(\*)</sup> 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 (B) (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 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). However, the 24-hour TSP concentration at AM2 was higher than the prediction in the EIA Report, AEIAR-183/2013 (as approved in 2013), that may due to the road traffic around the Lei Yue Mun Road and Sin Fat Road. 1 (One) Action Level exceedance of 24-hour TSP monitoring was recorded at AM1 in the reporting month and it was considered as non-project related as it is confirmed that there was no construction activity carried out near Tin Hau Temple. No Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

#### 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					Façade Measurement
CM2				L <sub>10</sub> (30 min.) dB(A)	Façade Measurement
CM3	0700-1900 hrs on normal 30 minu weekdays	30 minutes	) minutes Once per week	L <sub>90</sub> (30 min.) dB(A)	Façade Measurement
CM4				$L_{eq}(30 \text{ min.})$	Façade Measurement
CM5				dB(A)	Façade Measurement

#### **Monitoring Equipment**

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

Table 5.5 Noise Montoring Equipment			
Equipment	Model	Quantity	
Integrating Sound Level Meter	SVAN 957 (Serial No.: 23852, 21455) BSWA 308 (Serial No.: 570183)	3	
Calibrator	ST-120 (Serial No.: 181001608)	1	

#### Table 3.3Noise Monitoring Equipment

#### Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
  - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - The wind speed was frequently checked with the portable wind meter.
  - At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

#### **Maintenance and Calibration**

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

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

#### **Results and Observations**

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- 3.11 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 3.12 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major noise sources identified at the noise monitoring stations are shown in Table 3.4.

Monitoring Stations	Major Noise Source	
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project	
	related construction activities	
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project	
CIVIZ	related construction activities	
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project	
CIVIS	related construction activities	
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction	
CIV14	activities	
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza,	
CM5	Construction activity from other construction site,	
	Road Traffic at Yau Tong Road	

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	
CM2	63.6	75
CM3	65.6	/3
CM4	62.0	
CM5	68.2	70*

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

#### Comparison of EM&A Result with EIA Prediction

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

Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report
1 abit 5.0	Maximum I redicted Witigated Construction Noise Levels in ElA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (September 2022), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	72.6
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	73.1
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	72.4
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	66.7
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	69.8

3.15 The results at CM1 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). No Limit level exceedance was recorded in the reporting period.

#### 4 WATER QUALITY

#### **Monitoring Requirement**

#### Groundwater Quality

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

#### Marine Water Quality

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

#### Groundwater Level Monitoring (Piezometer Monitoring)

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

#### 5 WASTE MANAGEMENT

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

#### 6 ECOLOGY

#### **Post-Translocation Coral Monitoring**

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

#### 7 FISHERIES

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

#### 8 CULTURAL HERITAGE

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

#### Mitigation Measures for Cultural Heritage

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

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

#### 9 LANDSCAPE AND VISUAL IMPACT

- 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 01, 08, 15, 22 and 29 September 2022 in the reporting month. Site inspection of the IEC was conducted on 29 September 2022. No non-compliance was observed during the site audit.

#### **Implementation Status of Environmental Mitigation Measures**

- 12.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix J**.
- 12.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 12.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	24 Aug 2022	Damaged NRMM label was observed on the PME	The NRMM label had been replaced with the new one
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical	29 Sep 2022	Drip tray which prevent the leaked oil from entering drainage was not observed.	To be reported in the next month
Management	29 Sep 2022	The accumulated waste was found in the bin.	To be reported in the next month
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 in the reporting month.
- 1 (One) Action Level exceedance for 24-hour TSP monitoring was recorded and no Limit Level exceedance for 24-hour TSP monitoring was recorded in the reporting month.

Construction Noise Monitoring

- No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- No 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:
  - East Bound RC Structure Construction, Service Gallery Frill & Blast, Service Gallery A Installation.
  - East Ventilation Building WB Blinding & Waterproofing, EB Excavation, RC Structure.
  - West Bound- Extension & Blast Tunnel, RC Structure Construction.
- 14.3 Key environmental issues in the coming months include:
  - Make sure noise mitigation measures are implemented accordingly;
  - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain; and,
  - Make sure mitigation measure for dust suppression are implemented on site.

#### **Monitoring Schedule**

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

#### CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

14.5 This is the 29<sup>th</sup> 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 1 (One) Action Level exceedance for 24-hour TSP monitoring was recorded and no Limit Level exceedance for 24-hour TSP monitoring was recorded in the reporting month.

#### Construction Noise Monitoring

- 14.8 No Action Level exceedance was recorded due to documented complaint in the reporting month.
- 14.9 No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

#### Site Audit

14.10 5 ET joint weekly environmental site inspections were conducted in the reporting month.

#### Complaint, Notification of Summons and Successful Prosecution

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

#### Recommendations

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

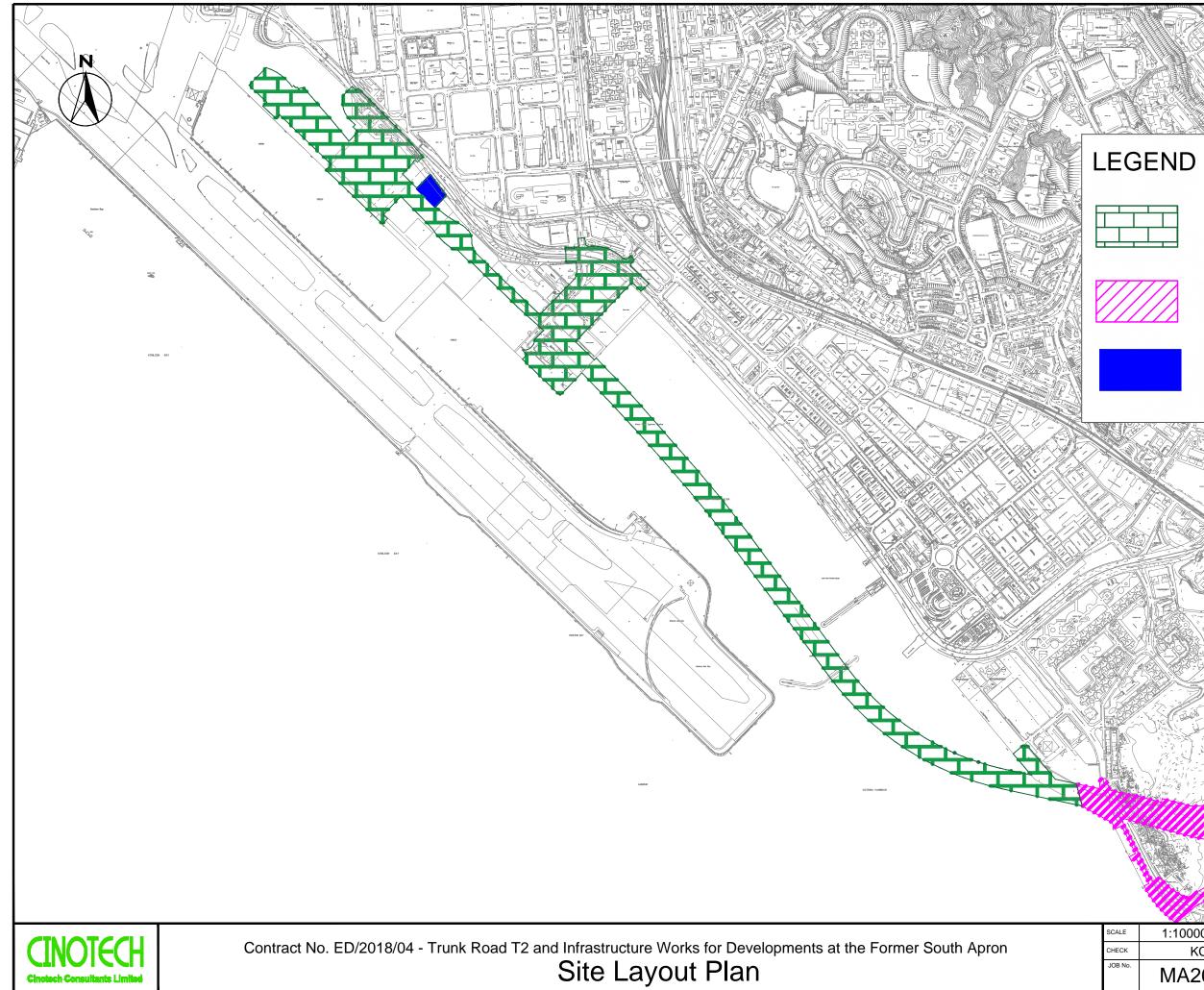
#### Air quality:

• The valid NRMM labels should be displayed at a conspicuous position on PME.

#### Waste / Chemical Management

- The general refuse should be stored in the enclosed bin and removed regularly.
- Drip tray should be provided to prevent leaked oil from entering drainage system during handling of chemical.

FIGURES



**Cinotech Consul** 

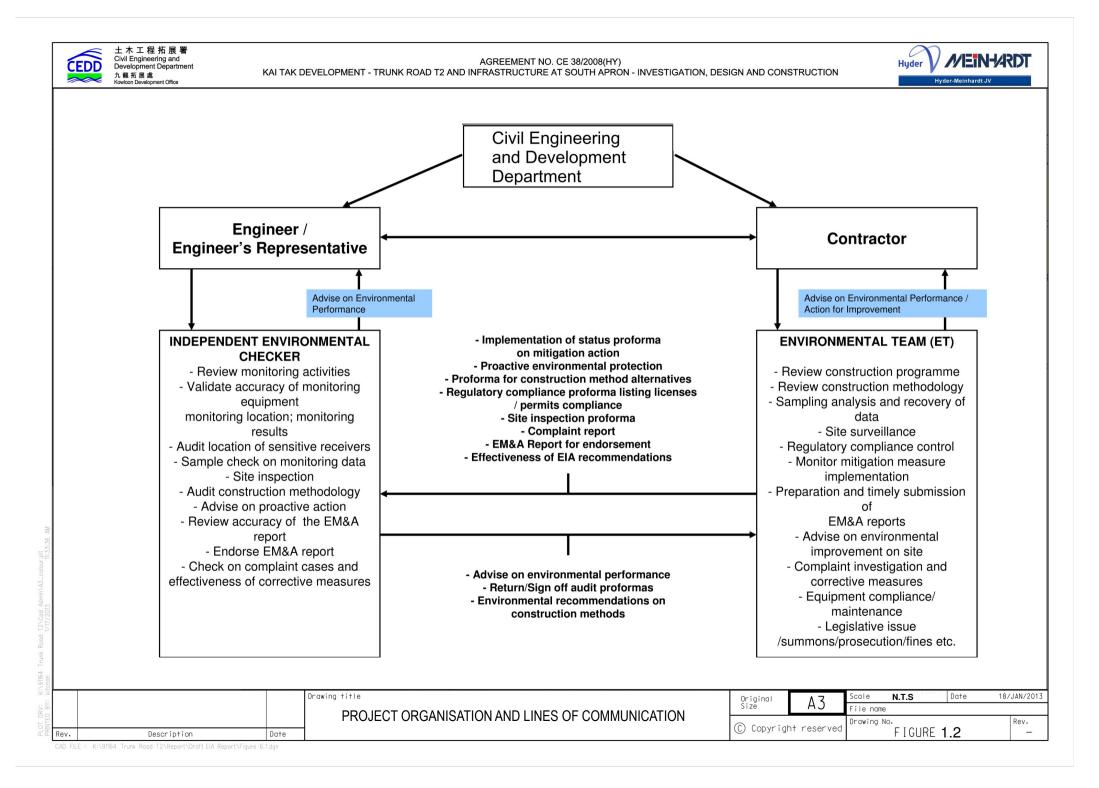
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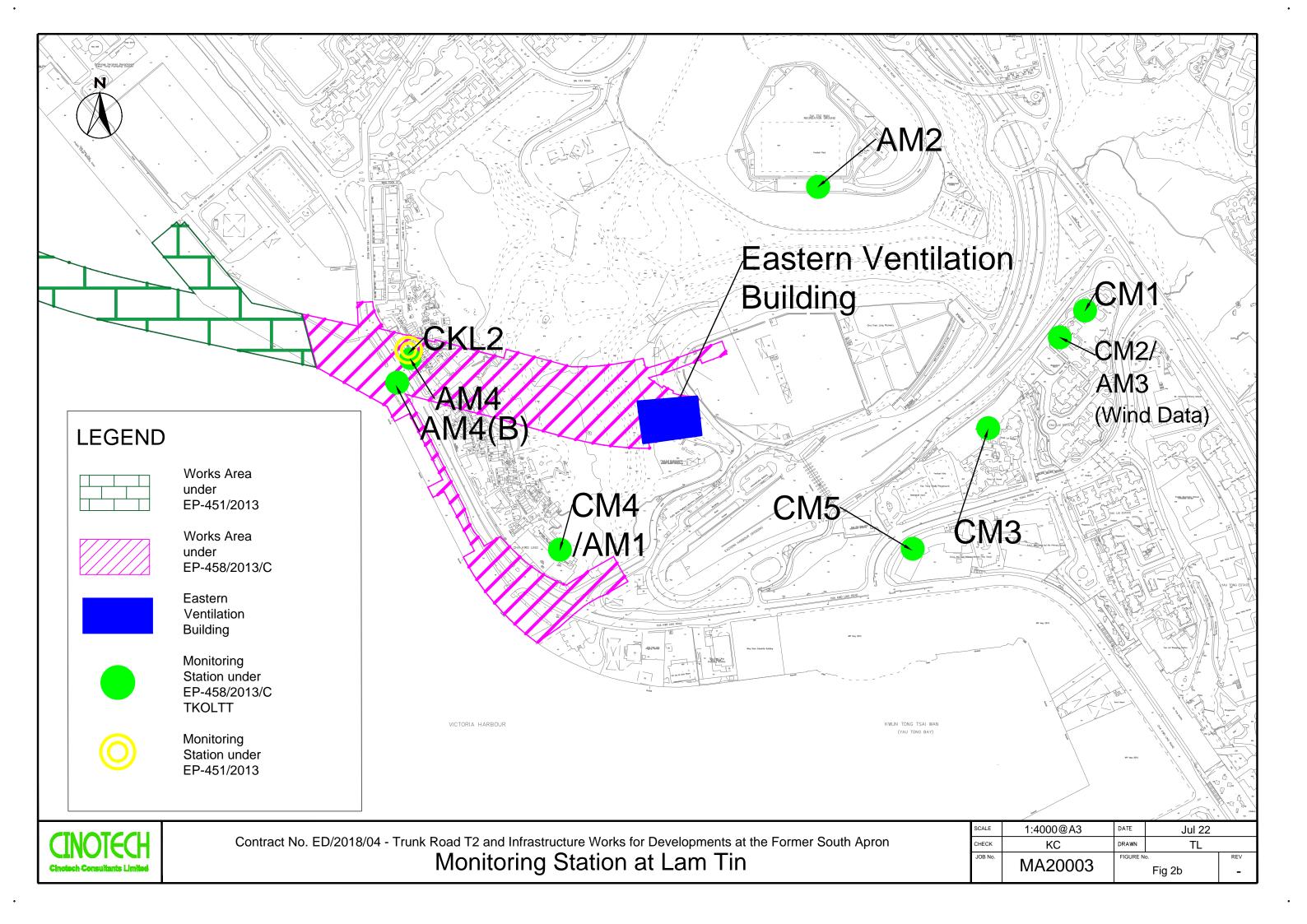
Works Area under Trunk Road T2

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 <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
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 <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(B)	Flat 103 Cha Kwo Ling Village	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) <sup>(1)</sup>

 $^{1}$  70 dB(A) for schools and 65 dB(A) for schools during examination period.

 $^{2}$  Acceptable Noise Levels for Area Sensitivity Rating of A/B/C 3 If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

#### **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



File No. MA16034/05/0037

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Aug-22		Next Due Date:	9-(	9-Oct-22		SK
Equipment No.:	A-0	1-05	Model No.:	GS	\$2310	Serial No.	10599
			Ambient C	au 1141 au			
Tomporatu	ra Ta (K)	299.7	Ambient C			752.8	
Temperatur	Temperature, Ta (K)299.7Pressure, Pa (mmHg)752.8						
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ation Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23	(	$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	[a)] <sup>1/2</sup> -bc} / mo	
		-	Calibration of 7	<b>FSP Sampler</b>			
Calibration	$\Delta H$ (orifice),		fice	Qstd (CFM)	$\Delta W$ (HVS), in.	HVS	0) x (298/Ta)] <sup>1/2</sup>
Point	in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	X - axis	of water		axis
1	13.2		3.61	61.29	9.7	3	.09
2	10.1		3.15	53.67	7.2	2	.66
3	7.7		2.75	46.91	5.4	2	.31
4	5.3		2.28	38.99	3.3	1	.80
5	3.1		1.75	29.91	2.0	1	.40
By Linear Regr Slope , mw = Correlation C	0.0546 coefficient* =	0	.9986	ntercept, bw	-0.266	5	
From the TSP Fi	eld Calibration (	Curve, take Qstd	Set Point Ca = 43 CFM	alculation			
From the Regres							
			$\mathbf{D}\mathbf{std} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	(D- /7(0) (2)	1/2		
		mw x Q	$\mathbf{y}$ sta + dw = [ $\Delta \mathbf{w} \mathbf{x}$	$(Pa/760) \ge (25)$	98/1a)]		
Therefore, Se	et Point; W = ( n	nw x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	4.40		
Remarks:							
Conducted by:	Wong Sl	ning Kwai	Signature:	K	X.	Date:	9-Aug-22
Checked by:	Henry	Leung	Signature:	-lem	J Xran J	Date:	9-Aug-22



#### File No. MA16034/08/0037

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	9-Aug-22		Next Due Date:	: 9-Oct-22		Operator:	SK
Equipment No ·	: A-01-08			G\$2310			
Equipment i to	110	1 00			52310		1207
			Ambient C	ondition			
Temperatur	Temperature, Ta (K)299.7Pressure, Pa (mmHg)752.8						
			ifice Transfer Star		ation		
							-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		Qstd = $\{ [\Delta H x] \}$	(Pa/760) x (298/7	['a)] <sup>*/2</sup> -bc} / n	10
		•					
			Calibration of Z	ISP Sampler			
Calibration	ATT (::		fice			HVS	(000/m )1 <sup>1/2</sup>
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water		60) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>
1	13.2		3.61	61.29	9.5		3.06
2	10.4		3.20	54.45	6.8		2.59
3	7.8		2.77	47.21	5.2		2.26
4	5.4		2.31	39.35	3.6		1.88
5	3.1		1.75	29.91	2.1		1.44
Slope , mw = Correlation of *If Correlation C	coefficient* =		.9971	Intercept, bw =	-0.099	8	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Qstd					
From the Regress							
0	•		-				
		mw x (	$\mathbf{A} = [\Delta \mathbf{W} \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>72</sup>		
Therefore Se	et Point·W – (m	w = x O std + bw	<sup>2</sup> x ( 760 / Pa ) x ( 7	Га / <b>2</b> 98.) —	4.36		
Therefore, Be	( in the second s		x(700714)x(1	u / 290 ) –			
Remarks:							
Conducted by:	Wong Sh	ning Kwai	Signature:	R	<u>Д</u> .	Date:	9-Aug-22
						_	
Checked by:	Henry	Leung	Signature:	- lem	J Xm J	Date:	9-Aug-22

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA16034\_20220809\_AM2\_(A-01-08)



File No. MA16034/03/0037

	AM3 - Tau Lai	Estate, Bik Lai H	louse				
Date:	9-Aug-22 : A-01-03				Oct-22	Operator:	SK
Equipment No.:					52310	Serial No.	10379
	I		Ambient C				
Temperatu	re, Ta (K)	299.7	Pressure, Pa	(mmHg)		752.8	
		Ori	fice Transfer Star	ndard Inform	ation		
Serial	l No.	3864	Slope, mc	0.05922	Intercept	t, bc	-0.02420
Last Calibra	ation Date:	31-Jan-22		nc x Qstd + bo	$z = [\Delta H x (Pa/760)]$	) x (298/Ta)] <sup>1/2</sup>	
Next Calibra	ation Date:	31-Jan-23		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/1	Γa)] <sup>1/2</sup> -bc} / mc	2
		•					
			Calibration of '	<b>FSP Sampler</b>			
Calibration		Or	fice			HVS	
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/76	0) x $(298/Ta)$ ] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water		0) x (298/Ta)] <sup>1/2</sup> •axis
1	12.7		3.54	60.13	8.8		94
2	10.0		3.14	53.40	6.7	2	.57
3	7.9		2.79	47.51	5.1	2	.24
4	4.8		2.17	37.12	3.0	1	.72
5	2.6		1.60	27.43	1.7	1	.29
By Linear Regr	ession of Y on X	X		Intorcont hw-	-0 127	13	
Slone mw -	0.0505						
Slope , mw = Correlation		- 0.		intercept, ow			
Correlation	coefficient* =		9988				
Correlation	coefficient* =	<b>0</b> . 90, check and rec	9988	- -			
Correlation	coefficient* =		9988	-			
Correlation *If Correlation C	coefficient* = Coefficient < 0.9	90, check and rec	9988 alibrate. Set Point Ca = 43 CFM	-			
Correlation *If Correlation C	coefficient* = Coefficient < 0.9	90, check and rec	9988 alibrate. Set Point Ca = 43 CFM	-			
Correlation *If Correlation C	coefficient* = Coefficient < 0.9	90, check and rec Curve, take Qstd ne "Y" value acco	9988 alibrate. Set Point Ca = 43 CFM ording to	alculation	98/Ta)1 <sup>1/2</sup>		
Correlation ( *If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Correlation ( *If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to	alculation (Pa/760) x (29	98/Ta)] <sup>1/2</sup> 4.25		
Correlation ( *If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29			
Correlation ( *If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29			
Correlation ( *If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29			
Correlation of *If Correlation C From the TSP Fi From the Regres Therefore, Se	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29			
Correlation of *If Correlation C From the TSP Fi From the Regres Therefore, Se	coefficient* = Coefficient < 0.9 ield Calibration ( ssion Equation, th	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29			
Correlation of *If Correlation C From the TSP Fi From the Regres Therefore, Se	coefficient* = Coefficient < 0.99 ield Calibration ( ssion Equation, the et Point; W = ( n	90, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b>	9988 alibrate. Set Point Ca = 43 CFM ording to std + bw = [ΔW x	alculation (Pa/760) x (29 Γa / 298 ) =			9-Aug-22
Correlation of *If Correlation C From the TSP Fi From the Regres Therefore, Se Remarks:	coefficient* = Coefficient < 0.99 ield Calibration ( ssion Equation, the et Point; W = ( n	20, check and rec Curve, take Qstd ne "Y" value acco <b>mw x Q</b> nw x Qstd + bw )	9988 alibrate. = 43 CFM ording to std + bw = [ $\Delta W x$	alculation (Pa/760) x (29 Γa / 298 ) =			9-Aug-22



File No. MA20003/55/0015

Project No.	CKL 2 - Flat 10	CKL 2 - Flat 103 Cha Kwo Ling Village					
Date:	5-Jul-22		Next Due Date:	4-Sep-22	Operator:	SK 1956	
Equipment No.:	A-01-55		Model No.:	TE 5170	Serial No.		
			Ambient Conditi	on			
Temperatu	Temperature, Ta (K)302Pressure, Pa (mmHg)753.2						
				<b>-</b> 0			

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

Calibration of TSP Sampler							
Calibration		Orfice		HVS			
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water		0) x (298/Ta)] <sup>1/2</sup> •axis	
1	12.8	3.54	60.15	9.8	3	.10	
2	10.8	3.25	55.29	7.6	2		
3	8.6	2.90	49.38	5.9	2	40	
4	5.3	2.28	38.85	3.2	1	.77	
5	2.9	1.68	28.85	1.8	1	.33	
By Linear Regression of Y on X Slope , mw =							
		urve, take Qstd = 43 CFM e "Y" value according to		0.9/17->11/2			
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = ( mw x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x ( Ta / 298 ) =							
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k len	火.	Date:	5-Jul-22	
Checked by:	Henry I	Leung Signature:	len	y Kozy	Date:	5-Jul-22	



File No. MA20003/55/0016

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	5-Sep-22		Next Due Date:	5-Nov-22		Operator:	SK
Equipment No.:			Model No.:	TE	2 5170	Serial No.	1956
			Ambient C	ondition			
Temperatur	re, Ta (K)	304.1	Pressure, Pa			753.4	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ation Date:	31-Jan-22			$c = [\Delta H x (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23	(	$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/7	Γa)] <sup>1/2</sup> -bc} / m	ic
		•					
			Calibration of 7	<b>FSP Sampler</b>			
Calibration		Or	fice	-		HVS	1/2
Point	$\Delta H$ (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water		50) x (298/Ta)] <sup>1/2</sup> <b>'-axis</b>
1	12.7		3.51	59.72	9.7		3.07
2	10.7		3.22	54.85	7.5		2.70
3	8.5		2.87	48.93	5.7		2.35
4	5.2		2.25	38.36	3.1		1.74
5	2.8		1.65	28.26	1.7		1.29
By Linear Regr Slope , mw = Correlation		_	.9966	Intercept, bw =	-0.368	3	
*If Correlation C		90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, tl	ne "Y" value acco	ording to				
		mw x O	$\mathbf{bstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	(Pa/760) x (29	$98/T_{\rm P}$		
Therefore, Se	et Point; W = ( m	w x Qstd + bw )	<sup>2</sup> x ( 760 / Pa ) x ( 7	Га / 298 ) =	4.36		
Remarks:							
Conducted by:	Wong Sh	iing Kwai	Signature:	k	<u>у</u> .	Date:	5-Sep-22
Checked by:	Henry	Leung	Signature:	-lan	1 May	Date:	5-Sep-22

Report No.

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

: 00160



Issue Date : 10 Jan 2022

: HP00040 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-07 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 21455 Microphone No. 22391

Date Received	:	03 Jan 2022
Test Period	:	10 Jan 2022 to 10 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

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Issue Date : 10 Jan 2022

Report No.:00160Application No.:HP00040

# **Certificate of Calibration**

Measuring

equipment

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

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	113.8	-0.2	± 1.5

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

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

- End of report -

Report No.

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

: 00168



Issue Date : 25 Jan 2022

: HP00044 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-11 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 23852 Microphone No. 22454 Data Racaivad 20 Jan 2022

Date Received	:	20 Jan 2022
Test Period	:	21 Jan 2022 to 21 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

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Issue Date : 25 Jan 2022

Report No.:00168Application No.:HP00044

# **Certificate of Calibration**

Measuring

equipment

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

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.2	+0.2	± 1.5

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

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

- End of report -

Report No.

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

: 00152



Issue Date : 19 Nov 2021

: HP00034 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-01 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570183 Microphone No. 570605 Data Racaivad 10 Nov 2021

Date Received	•	10 NOV 2021
Test Period	:	10 Nov 2021 to 17 Nov 2021
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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

:

:



Issue Date : 19 Nov 2021

Report No.:00152Application No.:HP00034

# **Certificate of Calibration**

Measuring

equipment

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

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.0	0.0	± 1.5

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

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

- End of report -

Report No.

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

: 00150



Issue Date : 16 Nov 2021

Application No. : HP00032 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 05 Nov 2021 Date Received Test Period : 08 Nov 2021 to 12 Nov 2021 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Lee Wai Kit Laboratory Manager

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

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Issue Date : 16 Nov 2021

Report No.:00150Application No.:HP00032

# **Certificate of Calibration**

Measuring equipment

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

#### Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 0.3
114.0	114.0	0.0	± 0.5

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

- End of report -



## **Certificate of Calibration**

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

Description:	Digital Dust Indicator	Date	of Calibration	29-Jul-22	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	oration Record	28-Sep-22	
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 Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	735 CPM		
	Cal	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (µg/1 <b>X-axis</b>	m3) Ma	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	73.0		155.0		
2	64.0	133.0			
3	51.0		109.0		
Average	62.7		132.3		
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Intercept, bw =	2.3896		
	Set	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler (	$\mu g/m^3$ )	132.3		
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )		62.7		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor, SCF				

In-house method in according to the instruction manual:

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

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

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

Calibrated by:

Approved by: , an Project Manager (Henry Leung)

2.1



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	-	
High Volume Sa	ampler No.: A-01-03	Before 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/: X-axis	m3)	Mas	ss concentration (µ <b>Y-axis</b>	ug/m <sup>3</sup> )
1	74.0			156.0	
2	65.0			135.0	
3	52.0			110.0	
Average	63.7			133.7	
By Linear Regr	ression of Y on X				
Slope , mw =	2.0790	Intero	cept, bw =	1.3025	
Correlation co	oefficient* = 0.9985				

Set Correlation Factor				
Particaulate Concentration by High Volume Sampler ( $\mu g/m^3$ )	133.7			
Particaulate Concentration by Dust Meter ( $\mu g/m^3$ )	63.7			
Measureing time, (min)	60.0			
Set Correlation Factor, SCF				
SCF = [ K=High Volume Sampler / Dust Meter, (µg/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: 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	29-Jul-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	28-Sep-22
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 Sensitiv	ity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	744 CPM	
	Cal	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/n <b>X-axis</b>	m3)	Mas	s concentration (µ <b>Y-axis</b>	ıg/m <sup>3</sup> )
1	74.0			157.0	
2	63.0			137.0	
3	51.0			110.0	
Average	62.7			134.0	
By Linear Regr Slope , mw = Correlation co	ession of Y on X 2.0441 pefficient* =0.9999		ept, bw =	5.9043	
	Set	t Correlation Fa	actor		
Particaulate Con	centration by High Volume Sampler (	$(\mu g/m^3)$		134.0	
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )			62.7	
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)

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2.1



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	29-Nov-22
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 Sensitiv	ity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	744 CPM	
	Ca	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor	•	HVS		
Point	Mass Concentration (µg/ <b>X-axis</b>	(m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	75.0			158.0	
2	64.0			136.0	
3	52.0			111.0	
Average	63.7		135.0		
	ression of Y on X 2.0441	Intere	ept, bw =	4.8602	
Correlation co			сри, юм —	4.0002	

Set Correlation Factor					
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	135.0				
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	63.7				
Measureing time, (min)	60.0				
Set Correlation Factor, SCF					
SCF = [ K=High Volume Sampler / Dust Meter, (µg/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:



## **Certificate of Calibration**

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

Description:	Digital Dust Indicator	Date	of Calibration	29-Jul-22
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	ration Record	28-Sep-22
Model No.:	LD-5R			
Serial No.:	972780			
Equipment No.:	SA-01-09	Sensitivity 0.001 mg/m3	-	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	739 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	739 CPM	
	Ca	libration of 1 hr TSP		
Calibration	Laser Dust Monitor	•	HVS	
Point	Mass Concentration (µg/ <b>X-axis</b>	m3) Ma	ss concentration (µ <b>Y-axis</b>	g/m <sup>3</sup> )
1	72.0		161.0	
2	64.0		145.0	
3	51.0		115.0	
Average	62.3		140.3	
	ression of Y on X 2.2018	Intercept, bw =	3.0890	
Correlation co	oefficient* =0.9993			
	Se	t Correlation Factor		
Particaulate Con	centration by High Volume Sampler (	(µg/m <sup>3</sup> )	140.3	
Particaulate Con	acentration by Dust Meter ( $\mu g/m^3$ )		62.3	
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:

Approved by: <u>leng X27</u>

2.3

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	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	29-Nov-22
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 Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	739 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•	HVS		
Point	Mass Concentration (µg/	m3)	Mas	s concentration (µ	$\iota g/m^3$ )
	X-axis			Y-axis	
1	74.0			162.0	
2	65.0			146.0	
3	52.0			116.0	
Average	63.7			141.3	
By Linear Regr Slope , mw = Correlation co	ression of Y on X 		ept, bw =	7.2343	
	Se	t Correlation F	actor		

Set Correlation Factor						
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	141.3					
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	63.7					
Measureing time, (min)	60.0					
Set Correlation Factor, SCF						
SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]	2.2					

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: \_\_\_\_\_ Project Manager (Henry Leung)



## **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	29-Jul-22
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibr	ation Record	28-Sep-22
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitivi	ity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity	y Adjustment	734 CPM	
	Ca	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/ <b>X-axis</b>	(m3)	Mass concentration (µg/m <sup>3</sup> ) <b>Y-axis</b>		
1	76.0			157.0	
2	64.0			134.0	
3	51.0			108.0	
Average	63.7			133.0	
By Linear Regr Slope , mw = Correlation co	ression of Y on X <u>1.9606</u> pefficient* = 0.9999		ept, bw =	8.1780	
	Se	t Correlation Fa	ctor		
Particaulate Con	centration by High Volume Sampler (	$(\mu g/m^3)$		133.0	
Particaulate Con	centration by Dust Meter ( $\mu g/m^3$ )			63.7	
Measureing time	e, (min)			60.0	
Set Correlation I	Factor , SCF				

In-house method in according to the instruction manual:

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

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

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

Calibrated by:

Approved by: \_\_\_\_\_

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)

2.1



### **Certificate of Calibration**

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

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3	-	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	734 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/m3) <b>X-axis</b>		Mass concentration ( $\mu g/m^3$ ) <b>Y-axis</b>		
1	77.0			159.0	
2	65.0			135.0	
3	52.0			110.0	
Average	64.7			134.7	
a.	ression of Y on X 		cept, bw =	7.9531	
	Set	t Correlation F	actor		

Set Correlation Factor					
Particaulate Concentration by High Volume Sampler ( $\mu g/m^3$ )	134.7				
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	64.7				
Measureing time, (min)	60.0				
Set Correlation Factor, SCF					
SCF = [ K=High Volume Sampler / Dust Meter, (µg/m3) ]	2.1				

In-house method in according to the instruction manual:

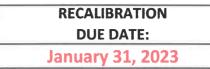
The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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

Calibrated by:

Approved by: len drag Project Manager (Henry Leung)





Certificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 31	, 2022	Rootsi	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch					Pa:	752.6	mm Hg
Calibration	Model #:	TE-5025A	Calik	prator S/N:	3864			0
								1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4490	3.2	2.00	
	2	3	4	1	1.0320	6.4	4.00	
	3	5	6	1	0.9160	7.9	5.00	
	5	7	8 10	1	0.8730	8.8	5.50 8.00	
		9				1.2.7	8.00	]
	L			Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> ) Ta)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9995	0.6898	1.416		0.9957	0.6872	0.8839	
	0.9952	0.9643	2.003		0.9915	0.9608	1.2500	
	0.9932	1.0843	2.240		0.9895	1.0802	1.3976	
	0.9920	1.1363	2.349		0.9883	1.1321	1.4658	
	0.9868	1.3649	2.833		0.9831	1.3598	1.7678	
	m=		2.092			1.31048		
	QSTD	b=	-0.024		QA	b=	-0.01514	
		L=	0.999	93		ľ=	0.99993	I
				Calculatio				
			)/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time				Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd= $1/m \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right)$			)-ь)	Qa=	1/m ((√∆H	I(Ta/Pa))-b)	
	Standard	Conditions						
Tstd:						RECA	LIBRATION	
Pstd:		mm Hg			LIS EDA room	mmonde	nnual recalibratio	on ner 1000
		<b>(ey</b> ter reading (i	n H2O)				Regulations Part !	
		eter reading (i					-	
		perature (°K)			Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter i			
		ressure (mm					erided Particulation erided Particulation erided Particulation erided eride	
b: intercept					LTI(	e Aunosphe	sie, 3.2.17, page	50
m: slope								

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## Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	<u>Davis7440</u>
Serial No.:	<u>MC01010A44</u>
Equipment No.:	<u>SA-03-04</u>
Date of Calibration	<u>19-Aug-2022</u>
Next Due Date	<u>19-Feb-2023</u>

#### 1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.6	-0.1
4.0	4.0	0.0

#### 2. Performance check of Wind Direction

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

**Test Specification:** 

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

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

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) <sup>1</sup>	Mean Relative Humidity	Precipitation (mm) <sup>3</sup>
		(%) <sup>2</sup>	• •
1-Sep-22	29.4	78	2.8
2-Sep-22	29.5	63	0.0
3-Sep-22	30.0	54	0.0
4-Sep-22	30.8	55	0.0
5-Sep-22	31.1	52	0.0
6-Sep-22	30.8	61	0.0
7-Sep-22	28.4	81	8.6
8-Sep-22	29.5	70	Trace
9-Sep-22	29.6	55	0.0
10-Sep-22	28.9	76	Trace
11-Sep-22	29.4	78	0.0
12-Sep-22	30.8	66	0.0
13-Sep-22	31.7	56	0.0
14-Sep-22	31.7	46	0.0
15-Sep-22	31.3	52	0.0
16-Sep-22	30.8	63	Trace
17-Sep-22	31.1	69	Trace
18-Sep-22	30.1	77	20.3
19-Sep-22	28.8	77	3.3
20-Sep-22	28.9	79	3.5
21-Sep-22	28.1	72	8.5
22-Sep-22	28.5	73	0.0
23-Sep-22	28.5	77	13.4
24-Sep-22	28.3	71	0.0
25-Sep-22	28.8	71	0.0
26-Sep-22	29.4	70	0.0
27-Sep-22	29.2	72	Trace
28-Sep-22	28.8	73	0.0
29-Sep-22	28.0	81	8.1
30-Sep-22	26.4	91	102.7

## Appendix C - Weather Conditions During Impact Monitoring Period

#### (Reporting Month:September 2022)

**Remarks:** 

Source - Hong Kong Observatory

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

September 2022				
Data	Wind Speed an		West Grand and	
Date		Direction	Wind Speed m-s	
1 Sep 2022	12:00 AM	ESE	1.8	
1 Sep 2022	1:00 AM	E	1.8	
1 Sep 2022	2:00 AM	E	1.8	
1 Sep 2022	3:00 AM	E	0.9	
1 Sep 2022	4:00 AM	NW	0.9	
1 Sep 2022	5:00 AM	W	1.3	
1 Sep 2022	6:00 AM	W	1.3	
1 Sep 2022	7:00 AM	NW	1.3	
1 Sep 2022	8:00 AM	NW	1.3	
1 Sep 2022	9:00 AM	NW	1.8	
1 Sep 2022	10:00 AM	WNW	0.9	
1 Sep 2022	11:00 AM	NW	1.3	
1 Sep 2022	12:00 PM	W	0.9	
1 Sep 2022	1:00 PM	ESE	1.8	
1 Sep 2022	2:00 PM	E	3.6	
1 Sep 2022	3:00 PM	WSW	3.1	
1 Sep 2022	4:00 PM	Е	3.1	
1 Sep 2022	5:00 PM	ESE	3.6	
1 Sep 2022	6:00 PM	W	1.3	
1 Sep 2022	7:00 PM	WSW	1.3	
1 Sep 2022	8:00 PM	W	1.3	
1 Sep 2022	9:00 PM	WSW	0.9	
1 Sep 2022	10:00 PM	W	0.9	
1 Sep 2022	11:00 PM	WNW	0.9	
2 Sep 2022	12:00 AM	W	0.9	
2 Sep 2022	1:00 AM	SSW	1.3	
2 Sep 2022	2:00 AM	WSW	0.9	
2 Sep 2022	3:00 AM	S	0.9	
2 Sep 2022	4:00 AM	WSW	0.4	
2 Sep 2022	5:00 AM	WNW	0.9	
2 Sep 2022	6:00 AM	SSW	1.8	
2 Sep 2022 2 Sep 2022	7:00 AM	SW	0.9	
2 Sep 2022 2 Sep 2022	8:00 AM	SW	1.8	
2 Sep 2022 2 Sep 2022	9:00 AM	WSW	1.3	
	1		0.4	
2 Sep 2022	10:00 AM	WSW		
2 Sep 2022	11:00 AM	WNW	0.4	
2 Sep 2022	12:00 PM	WNW	0.9	
2 Sep 2022	1:00 PM	S	0.9	
2 Sep 2022	2:00 PM	ESE	1.8	
2 Sep 2022	3:00 PM	SE	0.9	
2 Sep 2022	4:00 PM	SE	0.9	
2 Sep 2022	5:00 PM	SSW	1.8	
2 Sep 2022	6:00 PM	SSW	1.8	
2 Sep 2022	7:00 PM	SSE	1.3	
2 Sep 2022	8:00 PM	SSE	1.3	
2 Sep 2022	9:00 PM		1.3	
2 Sep 2022	10:00 PM	SSE	0.9	
2 Sep 2022	11:00 PM	SSW	1.3	
3 Sep 2022	12:00 AM	SSW	0.4	
3 Sep 2022	1:00 AM	SSW	0.0	
3 Sep 2022	2:00 AM	SSW	0.0	
3 Sep 2022	3:00 AM	SSW	0.4	
3 Sep 2022	4:00 AM	WNW	0.4	
3 Sep 2022	5:00 AM	WNW	0.4	
3 Sep 2022	6:00 AM	WNW	0.4	
3 Sep 2022	7:00 AM	WNW	0.4	
		******	0.1	

	Septembe Wind Speed an		
Date	Time	Direction	Wind Speed m-s
3 Sep 2022	9:00 AM	WNW	0.4
3 Sep 2022	10:00 AM	SSW	1.3
3 Sep 2022	11:00 AM	SSW	1.3
3 Sep 2022	12:00 PM	SSW	2.2
3 Sep 2022	1:00 PM	WSW	1.3
3 Sep 2022	2:00 PM	WSW	0.4
3 Sep 2022	3:00 PM	W	0.9
3 Sep 2022	4:00 PM	SSW	0.4
3 Sep 2022	5:00 PM	SSW	0.4
3 Sep 2022	6:00 PM	SSW	0.4
3 Sep 2022	7:00 PM	SSW	0.4
3 Sep 2022	8:00 PM	SSW	0.4
3 Sep 2022	9:00 PM	SW	0.9
3 Sep 2022	10:00 PM	SW	0.9
3 Sep 2022	11:00 PM	SW	0.0
4 Sep 2022	12:00 AM	NW	0.4
4 Sep 2022	1:00 AM	NW	0.0
4 Sep 2022	2:00 AM	NW	0.4
4 Sep 2022	3:00 AM	NW	0.4
4 Sep 2022	4:00 AM	NW	0.4
4 Sep 2022	5:00 AM	NW	0.4
4 Sep 2022	6:00 AM	NW	0.0
4 Sep 2022	7:00 AM	NW	0.4
4 Sep 2022	8:00 AM	WNW	0.4
4 Sep 2022	9:00 AM	NW	0.4
4 Sep 2022	10:00 AM	NW	0.4
4 Sep 2022	11:00 AM	SSW	0.4
4 Sep 2022	12:00 PM	SW	0.4
4 Sep 2022	1:00 PM	SE	0.4
4 Sep 2022	2:00 PM	SE	0.4
4 Sep 2022	3:00 PM	SE	0.4
4 Sep 2022	4:00 PM	SSE	1.3
4 Sep 2022	5:00 PM	SSW	1.3
4 Sep 2022	6:00 PM	SSW	2.2
4 Sep 2022	7:00 PM	SW	1.3
4 Sep 2022	8:00 PM	SW	0.4
4 Sep 2022	9:00 PM	WNW	0.9
4 Sep 2022	10:00 PM	ESE	0.4
4 Sep 2022	11:00 PM	E	0.4
5 Sep 2022	12:00 AM	Е	0.4
5 Sep 2022	1:00 AM	E	0.4
5 Sep 2022	2:00 AM	NW	0.4
5 Sep 2022	3:00 AM	W	0.4
5 Sep 2022	4:00 AM	W	0.4
5 Sep 2022	5:00 AM	NW	0.4
5 Sep 2022	6:00 AM	NW	0.9
5 Sep 2022	7:00 AM	ESE	0.4
5 Sep 2022	8:00 AM	E	0.9
5 Sep 2022	9:00 AM	E	0.4
5 Sep 2022	10:00 AM	E	0.9
5 Sep 2022	11:00 AM	NW	1.3
5 Sep 2022	12:00 PM	W	1.3
5 Sep 2022	1:00 PM	W	1.8
5 Sep 2022	2:00 PM	NW	1.8
5 Sep 2022	3:00 PM	NW	2.2
5 Sep 2022	4:00 PM	NW	1.3
5 Sep 2022	5:00 PM	WNW	0.4

	Septembe Wind Speed an		
Date	Time	Direction	Wind Speed m-s
5 Sep 2022	6:00 PM	NW	0.9
5 Sep 2022	7:00 PM	W	0.9
5 Sep 2022	8:00 PM	ESE	0.9
5 Sep 2022	9:00 PM	E	1.3
5 Sep 2022	10:00 PM	WSW	2.2
5 Sep 2022	11:00 PM	<u> </u>	2.7
6 Sep 2022	12:00 AM	ESE	1.3
6 Sep 2022	1:00 AM	W	1.3
6 Sep 2022	2:00 AM	WSW	1.8
6 Sep 2022	3:00 AM	W	1.3
6 Sep 2022	4:00 AM	SW	1.3
6 Sep 2022	5:00 AM	SSW	0.9
6 Sep 2022	6:00 AM	SSW	0.9
6 Sep 2022	7:00 AM	SSW	0.4
6 Sep 2022	8:00 AM	SSW	0.0
6 Sep 2022	9:00 AM	SSW	0.4
6 Sep 2022	10:00 AM	SW	0.0
6 Sep 2022	11:00 AM	WNW	0.0
6 Sep 2022	12:00 PM	WNW	0.0
6 Sep 2022	1:00 PM	WNW	0.0
6 Sep 2022	2:00 PM	W	0.4
6 Sep 2022	3:00 PM	WSW	0.4
6 Sep 2022	4:00 PM	WSW	0.4
6 Sep 2022	5:00 PM	WSW	0.4
6 Sep 2022	6:00 PM	WNW	1.3
6 Sep 2022	7:00 PM	ENE	1.3
6 Sep 2022	8:00 PM	WNW	1.3
6 Sep 2022	9:00 PM	WNW	0.9
6 Sep 2022	10:00 PM	WNW	1.8
6 Sep 2022	11:00 PM	WNW	1.3
7 Sep 2022	12:00 AM	WNW	2.2
7 Sep 2022	1:00 AM	WNW	1.8
7 Sep 2022	2:00 AM	WNW	2.2
7 Sep 2022	3:00 AM	NNE	1.3
7 Sep 2022	4:00 AM	WNW	0.4
7 Sep 2022	5:00 AM	WNW	0.9
7 Sep 2022	6:00 AM	WNW	0.4
7 Sep 2022	7:00 AM	WNW	0.4
7 Sep 2022	8:00 AM	WNW	0.9
7 Sep 2022	9:00 AM	WNW	0.4
7 Sep 2022	10:00 AM	WNW	0.4
7 Sep 2022	11:00 AM	WNW	0.9
7 Sep 2022	12:00 PM	WNW	0.0
7 Sep 2022	1:00 PM	WNW	0.9
7 Sep 2022	2:00 PM	WNW	0.9
7 Sep 2022	3:00 PM	WNW	0.9
7 Sep 2022	4:00 PM	WNW	0.4
7 Sep 2022	5:00 PM	WNW	0.9
7 Sep 2022	6:00 PM	WNW	0.9
7 Sep 2022	7:00 PM	W	0.0
7 Sep 2022	8:00 PM	WNW	0.4
7 Sep 2022 7 Sep 2022	9:00 PM	WNW	0.0
7 Sep 2022 7 Sep 2022	10:00 PM	WNW	0.4
7 Sep 2022 7 Sep 2022	11:00 PM	WNW	0.4
8 Sep 2022	12:00 AM	NW	0.4
8 Sep 2022	1:00 AM	ESE	0.4
8 Sep 2022	2:00 AM	ESE	0.0

	Septembe Wind Speed an		
Date	Time	Direction	Wind Speed m-s
8 Sep 2022	3:00 AM	NW	0.4
8 Sep 2022 8 Sep 2022	4:00 AM	WNW	0.4
8 Sep 2022 8 Sep 2022	5:00 AM	WNW	0.4
8 Sep 2022 8 Sep 2022	6:00 AM	WNW	0.4
8 Sep 2022 8 Sep 2022	7:00 AM	WNW	0.4
8 Sep 2022	8:00 AM	WNW	0.4
8 Sep 2022	9:00 AM	WNW	0.4
8 Sep 2022	10:00 AM	WNW	0.4
8 Sep 2022	11:00 AM	WNW	0.4
8 Sep 2022	12:00 PM	WNW	1.3
8 Sep 2022	1:00 PM	WSW	1.3
8 Sep 2022	2:00 PM	WSW	0.9
8 Sep 2022	3:00 PM	WNW	1.3
8 Sep 2022	4:00 PM	WNW	0.9
8 Sep 2022	5:00 PM	WNW	1.3
8 Sep 2022	6:00 PM	WSW	0.9
8 Sep 2022	7:00 PM	W	0.4
8 Sep 2022	8:00 PM	WNW	0.9
8 Sep 2022	9:00 PM	W	0.9
8 Sep 2022	10:00 PM	WNW	1.3
8 Sep 2022	11:00 PM	NNE	1.3
9 Sep 2022	12:00 AM	W	1.8
9 Sep 2022	1:00 AM	WNW	1.3
9 Sep 2022	2:00 AM	WNW	1.8
9 Sep 2022	3:00 AM	WNW	1.8
9 Sep 2022	4:00 AM	WNW	0.9
9 Sep 2022 9 Sep 2022	5:00 AM	WNW	0.9
9 Sep 2022	6:00 AM	WNW	1.3
9 Sep 2022	7:00 AM	WNW	1.8
9 Sep 2022	8:00 AM	WNW	0.9
9 Sep 2022	9:00 AM	WNW	0.4
9 Sep 2022 9 Sep 2022	10:00 AM	WNW	0.4
9 Sep 2022	11:00 AM	WSW	0.4
9 Sep 2022 9 Sep 2022	12:00 PM	WSW	0.4
9 Sep 2022 9 Sep 2022	1:00 PM	WSW	1.3
9 Sep 2022 9 Sep 2022	2:00 PM	WSW	0.4
9 Sep 2022 9 Sep 2022	3:00 PM	W	0.4
9 Sep 2022 9 Sep 2022	4:00 PM	NE	0.4
· ·	5:00 PM	ENE	0.0
9 Sep 2022 9 Sep 2022	6:00 PM	NE	0.0
9 Sep 2022 9 Sep 2022	7:00 PM	NE	0.4
9 Sep 2022 9 Sep 2022	8:00 PM	WSW	0.9
9 Sep 2022 9 Sep 2022	9:00 PM	W	0.0
9 Sep 2022 9 Sep 2022	10:00 PM	WSW	0.4
9 Sep 2022 9 Sep 2022	11:00 PM	WSW	1.8
10 Sep 2022	12:00 AM	WSW	1.3
10 Sep 2022 10 Sep 2022	1:00 AM	WSW	2.2
10 Sep 2022 10 Sep 2022	2:00 AM	WNW	2.2
10 Sep 2022 10 Sep 2022	3:00 AM	WNW	2.7
10 Sep 2022 10 Sep 2022	4:00 AM	WSW	1.3
10 Sep 2022 10 Sep 2022	5:00 AM	WNW	1.3
10 Sep 2022 10 Sep 2022	6:00 AM	WINW	1.8
10 Sep 2022 10 Sep 2022	7:00 AM	WSW WNW	0.9
*	8:00 AM		0.9
10 Sep 2022 10 Sep 2022	9:00 AM	WNW WNW	0.4
10 Sep 2022 10 Sep 2022	10:00 AM	ESE	0.4
10 Sep 2022 10 Sep 2022	10:00 AM 11:00 AM	ESE	0.9

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	Septeml		
	-	nd Directions	
Date	Time	Direction	Wind Speed m-s
10 Sep 2022	12:00 PM	E	0.4
10 Sep 2022	1:00 PM	E	0.4
10 Sep 2022	2:00 PM	NW	0.4
10 Sep 2022	3:00 PM	W	0.9
10 Sep 2022	4:00 PM	W	0.9
10 Sep 2022	5:00 PM	NW	0.4
10 Sep 2022	6:00 PM	NW	0.4
10 Sep 2022	7:00 PM	NW	0.4
10 Sep 2022	8:00 PM	WNW	0.9
10 Sep 2022	9:00 PM	NW	1.3
10 Sep 2022	10:00 PM	W	1.3
10 Sep 2022	11:00 PM	ESE	0.0
11 Sep 2022	12:00 AM	Е	0.0
11 Sep 2022	1:00 AM	WSW	0.4
11 Sep 2022	2:00 AM	Е	0.9
11 Sep 2022	3:00 AM	ESE	0.9
11 Sep 2022	4:00 AM	W	1.8
11 Sep 2022	5:00 AM	WSW	1.8
11 Sep 2022	6:00 AM	W	0.9
11 Sep 2022	7:00 AM	ESE	0.9
11 Sep 2022	8:00 AM	E	1.3
11 Sep 2022	9:00 AM	ENE	0.9
11 Sep 2022	10:00 AM	ESE	0.4
11 Sep 2022 11 Sep 2022	11:00 AM	ENE	0.4
11 Sep 2022	12:00 PM	SE	0.4
11 Sep 2022	1:00 PM	ENE	0.9
11 Sep 2022	2:00 PM	ENE	0.9
11 Sep 2022	3:00 PM	ESE	0.9
11 Sep 2022	4:00 PM	E	0.9
11 Sep 2022	5:00 PM	ENE	1.3
11 Sep 2022	6:00 PM	ENE	1.3
11 Sep 2022	7:00 PM	ESE	1.3
11 Sep 2022	8:00 PM	SE	1.3
11 Sep 2022	9:00 PM	ENE	0.9
11 Sep 2022	10:00 PM	SW	0.9
11 Sep 2022	11:00 PM	ENE	0.9
12 Sep 2022	12:00 AM	Е	0.9
12 Sep 2022	1:00 AM	SW	0.9
12 Sep 2022	2:00 AM	ENE	0.9
12 Sep 2022	3:00 AM	ENE	0.9
12 Sep 2022	4:00 AM	SW	1.3
12 Sep 2022	5:00 AM	SW	1.8
12 Sep 2022	6:00 AM	SSW	1.3
12 Sep 2022	7:00 AM	SW	1.8
12 Sep 2022	8:00 AM	SW	1.8
12 Sep 2022	9:00 AM	SW	2.2
12 Sep 2022	10:00 AM	SW	1.8
12 Sep 2022 12 Sep 2022	11:00 AM	SW	2.2
12 Sep 2022	12:00 PM	SSE	1.8
12 Sep 2022 12 Sep 2022	12.00 PM 1:00 PM	NE	0.9
	2:00 PM	NE	0.9
12 Sep 2022			
12 Sep 2022	3:00 PM	NE	0.0
12 Sep 2022	4:00 PM	NE	0.4
12 Sep 2022	5:00 PM	SE	1.8
12 Sep 2022	6:00 PM	ENE	1.3
12 Sep 2022	7:00 PM	ENE	0.9
12 Sep 2022	8:00 PM	ENE	0.4

	Septemb		
	Wind Speed ar		
Date	Time	Direction	Wind Speed m-s
12 Sep 2022	9:00 PM	ENE	0.4
12 Sep 2022	10:00 PM	ENE	0.4
12 Sep 2022	11:00 PM	ENE	0.9
13 Sep 2022	12:00 AM	ENE	0.9
13 Sep 2022	1:00 AM	ENE	1.3
13 Sep 2022	2:00 AM	ENE	0.4
13 Sep 2022	3:00 AM	ENE	0.9
13 Sep 2022	4:00 AM	ENE	1.8
13 Sep 2022	5:00 AM	ENE	0.4
13 Sep 2022	6:00 AM	ENE	0.9
13 Sep 2022	7:00 AM	ENE	0.9
13 Sep 2022	8:00 AM	ENE	3.6
13 Sep 2022	9:00 AM	ENE	3.1
13 Sep 2022	10:00 AM	ENE	3.1
13 Sep 2022	11:00 AM	ENE	1.8
13 Sep 2022	12:00 PM	ENE	1.3
13 Sep 2022	1:00 PM	ENE	0.4
13 Sep 2022	2:00 PM	E	0.9
13 Sep 2022	3:00 PM	ESE	0.9
13 Sep 2022	4:00 PM	ENE	0.9
13 Sep 2022	5:00 PM	ENE	0.4
13 Sep 2022	6:00 PM	Е	0.4
13 Sep 2022	7:00 PM	SE	0.4
13 Sep 2022	8:00 PM	Ν	0.4
13 Sep 2022	9:00 PM	NNW	0.4
13 Sep 2022	10:00 PM	NNW	1.3
13 Sep 2022	11:00 PM	NW	1.3
14 Sep 2022	12:00 AM	NNW	2.2
14 Sep 2022	1:00 AM	NNE	1.3
14 Sep 2022	2:00 AM	NNE	0.4
14 Sep 2022	3:00 AM	NNW	0.9
14 Sep 2022	4:00 AM	ENE	0.4
14 Sep 2022	5:00 AM	NNW	0.4
14 Sep 2022	6:00 AM	NNW	0.4
14 Sep 2022	7:00 AM	NNW	0.4
14 Sep 2022	8:00 AM	NNW	0.4
14 Sep 2022	9:00 AM	NNW	0.9
14 Sep 2022	10:00 AM	Ν	0.0
14 Sep 2022	11:00 AM	NNW	0.4
14 Sep 2022	12:00 PM	NNW	1.3
14 Sep 2022	1:00 PM	NE	0.4
14 Sep 2022	2:00 PM	NE	0.4
14 Sep 2022	3:00 PM	Е	0.4
14 Sep 2022	4:00 PM	Ν	0.0
14 Sep 2022	5:00 PM	Е	0.4
14 Sep 2022	6:00 PM	Е	0.9
14 Sep 2022	7:00 PM	ESE	0.0
14 Sep 2022	8:00 PM	ESE	0.4
14 Sep 2022	9:00 PM	SE	0.9
14 Sep 2022	10:00 PM	NW	1.8
14 Sep 2022	11:00 PM	WNW	1.3
15 Sep 2022	12:00 AM	WNW	2.2
15 Sep 2022	1:00 AM	WNW	2.7
· · · · · · · · · · · · · · · · ·			
15 Sep 2022	2:00 AM	ESE	2.7
15 Sep 2022 15 Sep 2022	2:00 AM 3:00 AM	ESE E	2.7
15 Sep 2022 15 Sep 2022 15 Sep 2022	2:00 AM 3:00 AM 4:00 AM		2.7 1.3 1.8

	Septemb		
D (	Wind Speed a		
Date	Time	Direction	Wind Speed m-s
15 Sep 2022	6:00 AM	NW	0.9
15 Sep 2022	7:00 AM	W	1.3
15 Sep 2022	8:00 AM	W	0.4
15 Sep 2022	9:00 AM	NW	0.4
15 Sep 2022	10:00 AM	NW	0.4
15 Sep 2022	11:00 AM	NW	0.4
15 Sep 2022 15 Sep 2022	12:00 PM 1:00 PM	WNW NW	0.4
A	2:00 PM	W	1.3
15 Sep 2022	2:00 PM 3:00 PM	ESE	2.2
15 Sep 2022 15 Sep 2022	4:00 PM	ESE E	1.3
15 Sep 2022 15 Sep 2022	4.00 PM 5:00 PM	WSW	0.4
15 Sep 2022	6:00 PM	<u> </u>	0.4
15 Sep 2022 15 Sep 2022	7:00 PM	ESE	0.9
15 Sep 2022 15 Sep 2022	8:00 PM	W	0.4
15 Sep 2022	9:00 PM	WSW	0.4
15 Sep 2022 15 Sep 2022	10:00 PM	W	0.4
15 Sep 2022 15 Sep 2022	10:00 PM	NNW	0.4
16 Sep 2022	12:00 AM	NNW	0.4
	12.00 AM 1:00 AM	WNW	0.4
16 Sep 2022 16 Sep 2022	2:00 AM	NNW	1.3
	3:00 AM	WNW	1.3
16 Sep 2022	4:00 AM	NNW	0.9
16 Sep 2022			
16 Sep 2022	5:00 AM	WNW	0.9
<u>16 Sep 2022</u>	6:00 AM	WNW	0.9
16 Sep 2022	7:00 AM	WNW	2.7
16 Sep 2022	8:00 AM	WNW	0.4
16 Sep 2022	9:00 AM	WNW	0.4
16 Sep 2022	10:00 AM	WNW	
16 Sep 2022	11:00 AM	NW WNW	0.4
<u>16 Sep 2022</u>	12:00 PM	NNW	1.3
16 Sep 2022	1:00 PM 2:00 PM		1.3
16 Sep 2022		NW	
16 Sep 2022	3:00 PM	NW	2.2
16 Sep 2022	4:00 PM	NNW	1.3
16 Sep 2022	5:00 PM	NNW	0.4
16 Sep 2022	6:00 PM	NNW	0.9
16 Sep 2022	7:00 PM	NNW	0.4
16 Sep 2022	8:00 PM	NNW	0.4
16 Sep 2022	9:00 PM	NNW	0.4
16 Sep 2022 16 Sep 2022	10:00 PM 11:00 PM	NNW NNW	0.4
17 Sep 2022 17 Sep 2022	12:00 AM 1:00 AM	NNW NNW	0.9
17 Sep 2022 17 Sep 2022	2:00 AM	NNW	0.4
17 Sep 2022 17 Sep 2022	3:00 AM	NNW	0.4
17 Sep 2022 17 Sep 2022	4:00 AM	NNW	0.4
17 Sep 2022 17 Sep 2022	5:00 AM	NNW	0.9
17 Sep 2022 17 Sep 2022	6:00 AM	NNW	1.3
17 Sep 2022 17 Sep 2022	7:00 AM	NW	0.4
17 Sep 2022 17 Sep 2022	8:00 AM	NW	0.4
	9:00 AM	ESE	1.8
17 Sep 2022		ESE	0.4
17 Sep 2022	10:00 AM	<u>Е</u> Е	0.4
17 Sep 2022	11:00 AM	E E	0.9
17 Sep 2022	12:00 PM 1:00 PM		
17 Sep 2022	1:00 PM 2:00 PM	NW W	0.9
17 Sep 2022	2:00 PM	vv	1.8

	Septemb		
-	Wind Speed an		
Date	Time	Direction	Wind Speed m-s
17 Sep 2022	3:00 PM	W	0.9
17 Sep 2022	4:00 PM	NW	0.4
17 Sep 2022	5:00 PM	NW	0.0
17 Sep 2022	6:00 PM	NW	0.9
17 Sep 2022	7:00 PM	WNW	0.4
17 Sep 2022	8:00 PM	NW	0.4
17 Sep 2022	9:00 PM	W	0.4
17 Sep 2022	10:00 PM	ESE	0.4
17 Sep 2022	11:00 PM	E	0.4
18 Sep 2022	12:00 AM	WSW	0.4
18 Sep 2022	1:00 AM	E	1.3
18 Sep 2022	2:00 AM	ESE	1.3
18 Sep 2022	3:00 AM	W	2.2
18 Sep 2022	4:00 AM	WSW	1.3
18 Sep 2022	5:00 AM	W	0.4
18 Sep 2022	6:00 AM	NW	0.9
18 Sep 2022	7:00 AM	NW	0.4
18 Sep 2022	8:00 AM	WNW	0.4
18 Sep 2022	9:00 AM	NW	0.4
18 Sep 2022	10:00 AM	NW	0.4
18 Sep 2022	11:00 AM	SSW	0.4
	12:00 PM	SW	1.3
18 Sep 2022		SE	
18 Sep 2022	1:00 PM		0.9
18 Sep 2022	2:00 PM	SE	1.8
18 Sep 2022	3:00 PM	SE	0.9
18 Sep 2022	4:00 PM	SSE	0.9
18 Sep 2022	5:00 PM	SSW	0.9
18 Sep 2022	6:00 PM	SSW	0.9
18 Sep 2022	7:00 PM	SW	0.9
18 Sep 2022	8:00 PM	SW	1.3
18 Sep 2022	9:00 PM	WNW	0.9
18 Sep 2022	10:00 PM	WNW	0.0
18 Sep 2022	11:00 PM	W	0.9
19 Sep 2022	12:00 AM	W	0.4
19 Sep 2022	1:00 AM	W	0.0
19 Sep 2022	2:00 AM	W	0.9
19 Sep 2022	3:00 AM	ESE	0.4
19 Sep 2022	4:00 AM	Е	0.9
19 Sep 2022	5:00 AM	Е	0.9
19 Sep 2022	6:00 AM	Е	1.3
19 Sep 2022	7:00 AM	NW	2.7
19 Sep 2022	8:00 AM	W	0.9
19 Sep 2022	9:00 AM	W	0.9
19 Sep 2022	10:00 AM	NW	1.3
19 Sep 2022	10:00 AM 11:00 AM	NW	2.7
19 Sep 2022 19 Sep 2022	12:00 PM	NW	1.3
	12:00 PM 1:00 PM	WNW	1.5
19 Sep 2022			
<u>19 Sep 2022</u>	2:00 PM	NW	0.9
<u>19 Sep 2022</u>	3:00 PM	W	1.3
19 Sep 2022	4:00 PM	ESE	0.9
19 Sep 2022	5:00 PM	E	1.3
19 Sep 2022	6:00 PM	WSW	2.7
19 Sep 2022	7:00 PM	E	2.2
19 Sep 2022	8:00 PM	ESE	2.2
19 Sep 2022	9:00 PM	W	0.9
19 Sep 2022	10:00 PM	WSW	0.4
19 Sep 2022	11:00 PM	W	0.4

United Speed and Direction         Wind Speed area           Date         Time         Direction         Wind Speed area           20 Sep 2022         1:00 AM         SSW         0.9           20 Sep 2022         2:00 AM         SSW         0.9           20 Sep 2022         3:00 AM         SSW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         7:00 AM         SSW         0.4           20 Sep 2022         1:00 AM         SW         1.3           20 Sep 2022         1:00 PM         WNW         1.3           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WSW         0.4           20 Sep 2022         1:00 PM         WNW         0.9 </th <th></th> <th></th> <th>ber 2022</th> <th></th>			ber 2022	
20 Sep 2022         1:2:00 AM         SW         0.4           20 Sep 2022         1:00 AM         SSW         0.9           20 Sep 2022         2:00 AM         SSW         0.9           20 Sep 2022         4:00 AM         SW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         7:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SW         1.3           20 Sep 2022         1:00 PM         WNW         1.3           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WNW         0.4           20 Sep 2022         9:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW		-		
20 Sep 2022         1:00 AM         SSW         0.9           20 Sep 2022         2:00 AM         SSW         0.9           20 Sep 2022         3:00 AM         SSW         0.9           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SW         1.3           20 Sep 2022         11:00 AM         WNW         2.2           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         7:00 PM         ENE         0.4           20 Sep 2022         7:00 PM         WNW         0.9           20 Sep 2022         1:00 PM         WNW         0.9           20 Sep 2022         1:00 AM         WNW				_
20 Sep 2022         2:00 AM         SSW         0.9           20 Sep 2022         3:00 AM         SSW         0.4           20 Sep 2022         4:00 AM         SW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         1.3           20 Sep 2022         10:00 AM         SW         1.3           20 Sep 2022         10:00 AM         WW         1.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WW         0.4           20 Sep 2022         1:00 PM         WSW         0.4           20 Sep 2022         1:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WNW         0.4           20 Sep 2022         5:00 PM         WNW         0.4           20 Sep 2022         9:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 AM         WNW	•			
20 Sep 2022         3:00 AM         SSW         0.9           20 Sep 2022         4:00 AM         SW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SSW         1.3           20 Sep 2022         11:00 AM         WNW         2.2           20 Sep 2022         12:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WSW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW				
20 Sep 2022         4:00 AM         SW         0.4           20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SSW         1.3           20 Sep 2022         11:00 AM         WNW         2.2           20 Sep 2022         12:00 PM         WNW         1.3           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WSW         0.4           20 Sep 2022         10:00 PM         WSW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         7:00 PM         ENE         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           21 Sep 2022         10:00 AM         WNW </td <td></td> <td></td> <td></td> <td></td>				
20 Sep 2022         5:00 AM         SSW         0.4           20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         7:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SSW         1.3           20 Sep 2022         11:00 AM         WNW         2.2           20 Sep 2022         12:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WNW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.9           21 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW <td></td> <td></td> <td></td> <td></td>				
20 Sep 2022         6:00 AM         SSW         0.4           20 Sep 2022         7:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         10:00 AM         SSW         1.3           20 Sep 2022         10:00 AM         SW         1.3           20 Sep 2022         12:00 PM         WNW         2.2           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         1:00 PM         WNW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         5:00 PM         WSW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         6:00 PM         WNW         0.9           20 Sep 2022         10:00 PM         WNW         0.9           20 Sep 2022         10:00 PM         WNW         0.9           21 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW <td>· · ·</td> <td></td> <td></td> <td></td>	· · ·			
20 Sep 2022         7:00 AM         SSW         0.4           20 Sep 2022         8:00 AM         SSW         0.4           20 Sep 2022         9:00 AM         SSW         1.3           20 Sep 2022         10:00 AM         SW         1.3           20 Sep 2022         12:00 PM         WNW         2.2           20 Sep 2022         12:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         2:00 PM         W         0.9           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         3:00 PM         WSW         0.4           20 Sep 2022         6:00 PM         WNW         0.4           20 Sep 2022         7:00 PM         ENE         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           20 Sep 2022         10:00 PM         WNW         0.4           21 Sep 2022         10:00 AM         WNW         0.9           21 Sep 2022         10:00 AM         WNW         0.4           21 Sep 2022         10:00 AM         WNW <td></td> <td></td> <td></td> <td></td>				
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Data	Wind Speed an		Wind Snood m. o
Date	Time	Direction	Wind Speed m-s
22 Sep 2022	9:00 AM	W	0.0
22 Sep 2022	10:00 AM	WNW	0.4
22 Sep 2022	11:00 AM	WNW	1.3
22 Sep 2022	12:00 PM	WNW	2.2
22 Sep 2022	1:00 PM	WSW	3.6
22 Sep 2022	2:00 PM	WSW	3.6
22 Sep 2022	3:00 PM	WNW	3.1
22 Sep 2022	4:00 PM	WNW	3.1
22 Sep 2022	5:00 PM	WNW	1.8
22 Sep 2022	6:00 PM	WSW	1.3
22 Sep 2022	7:00 PM	W	0.4
22 Sep 2022	8:00 PM	WNW	0.9
22 Sep 2022	9:00 PM	W	0.9
22 Sep 2022	10:00 PM	WNW	0.9
22 Sep 2022	11:00 PM	NNE	0.9
23 Sep 2022	12:00 AM	W	1.3
23 Sep 2022	1:00 AM	WNW	0.9
23 Sep 2022	2:00 AM	WNW	0.9
23 Sep 2022	3:00 AM	WNW	0.9
23 Sep 2022	4:00 AM	WNW	1.3
23 Sep 2022	5:00 AM	WNW	1.8
23 Sep 2022	6:00 AM	WNW	1.3
23 Sep 2022	7:00 AM	WNW	1.3
23 Sep 2022	8:00 AM	ESE	1.3
23 Sep 2022	9:00 AM	E	1.3
23 Sep 2022	10:00 AM	E	0.4
23 Sep 2022	11:00 AM	E	0.9
23 Sep 2022	12:00 PM	NW	0.9
23 Sep 2022 23 Sep 2022	1:00 PM	W	1.3
23 Sep 2022 23 Sep 2022	2:00 PM	W	1.3
23 Sep 2022 23 Sep 2022	3:00 PM	NW	0.9
23 Sep 2022 23 Sep 2022	4:00 PM	NW	0.9
23 Sep 2022 23 Sep 2022	5:00 PM	NW	0.9
			0.9
23 Sep 2022	6:00 PM	WNW	
23 Sep 2022	7:00 PM	NW	0.9
23 Sep 2022	8:00 PM	W	0.4
23 Sep 2022	9:00 PM	ESE	0.9
23 Sep 2022	10:00 PM	E	0.9
23 Sep 2022	11:00 PM	WSW	0.9
24 Sep 2022	12:00 AM	E	1.3
24 Sep 2022	1:00 AM	ESE	0.4
24 Sep 2022	2:00 AM	W	0.4
24 Sep 2022	3:00 AM	WSW	0.9
24 Sep 2022	4:00 AM	W	0.4
24 Sep 2022	5:00 AM	WNW	0.4
24 Sep 2022	6:00 AM	WSW	0.4
24 Sep 2022	7:00 AM	WNW	0.9
24 Sep 2022	8:00 AM	WNW	0.9
24 Sep 2022	9:00 AM	WNW	0.4
24 Sep 2022	10:00 AM	WNW	0.4
24 Sep 2022	11:00 AM	WNW	0.4
24 Sep 2022	12:00 PM	ENE	0.9
24 Sep 2022 24 Sep 2022	1:00 PM	WSW	0.4
24 Sep 2022 24 Sep 2022	2:00 PM	WSW	0.4
24 Sep 2022 24 Sep 2022	3:00 PM	SW	0.4
24 Sep 2022 24 Sep 2022	4:00 PM	<u> </u>	0.4
24 Sep 2022 24 Sep 2022	5:00 PM	ENE	0.4

Unit Speed and Directions           Date         Time         Direction         Wind Speed mes           24 Sep 2022         6:00 PM         ENE         1.3           24 Sep 2022         8:00 PM         ENE         1.3           24 Sep 2022         9:00 PM         ENE         1.3           24 Sep 2022         10:00 PM         ENE         0.4           24 Sep 2022         11:00 PM         ENE         0.4           25 Sep 2022         12:00 AM         ENE         0.4           25 Sep 2022         1:00 AM         E         0.4           25 Sep 2022         2:00 AM         ESE         0.4           25 Sep 2022         3:00 AM         E         0.4           25 Sep 2022         5:00 AM         ESE         1.3           25 Sep 2022         5:00 AM         ESE         1.3           25 Sep 2022         7:00 AM         E         2.2           25 Sep 2022         1:00 AM         E         1.3           25 Sep 2022         1:00 AM         E         1.3           25 Sep 2022         1:00 PM         E         0.9           25 Sep 2022         1:00 PM         E         0.9           25 Sep 202
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24 Sep 2022         9:00 PM         ENE         1.3           24 Sep 2022         10:00 PM         ENE         0.4           24 Sep 2022         11:00 PM         ENE         0.9           25 Sep 2022         12:00 AM         ENE         0.4           25 Sep 2022         1:00 AM         E         0.4           25 Sep 2022         3:00 AM         ESE         0.4           25 Sep 2022         3:00 AM         ENE         0.4           25 Sep 2022         5:00 AM         ENE         0.4           25 Sep 2022         5:00 AM         ENE         1.3           25 Sep 2022         6:00 AM         ENE         1.8           25 Sep 2022         9:00 AM         ENE         1.3           25 Sep 2022         10:00 AM         E         2.2           25 Sep 2022         10:00 AM         E         0.9           25 Sep 2022         10:00 AM         E         0.9         25 Sep 2022           25 Sep 2022         10:00 PM         W         0.3         3           25 Sep 2022         1:00 PM         W         1.3         3           25 Sep 2022         5:00 PM         NW         1.3           25 Sep
24 Sep 2022         10:00 PM         ENE         0.4           24 Sep 2022         11:00 PM         ENE         0.9           25 Sep 2022         12:00 AM         ENE         0.4           25 Sep 2022         1:00 AM         E         0.4           25 Sep 2022         2:00 AM         ESE         0.4           25 Sep 2022         3:00 AM         E         0.4           25 Sep 2022         4:00 AM         ENE         0.4           25 Sep 2022         5:00 AM         ESE         1.3           25 Sep 2022         6:00 AM         ENE         1.8           25 Sep 2022         7:00 AM         ESE         1.8           25 Sep 2022         10:00 AM         ESE         1.3           25 Sep 2022         10:00 AM         ESE         1.8           25 Sep 2022         10:00 AM         E         0.9           25 Sep 2022         1:00 PM         E         0.9           25 Sep 2022         1:00 PM         W         1.3           25 Sep 2022         4:00 PM         W         1.3           25 Sep 2022         5:00 PM         NW         1.3           25 Sep 2022         7:00 PM         NW         1
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26 Sep 2022         2:00 AM         E         1.8           26 Sep 2022         3:00 AM         ESE         1.8           26 Sep 2022         4:00 AM         W         1.8           26 Sep 2022         5:00 AM         WSW         1.8           26 Sep 2022         5:00 AM         WSW         1.8           26 Sep 2022         5:00 AM         WSW         1.8           26 Sep 2022         6:00 AM         W         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SEE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         1.8 </td
26 Sep 2022         3:00 AM         ESE         1.8           26 Sep 2022         4:00 AM         W         1.8           26 Sep 2022         5:00 AM         WSW         1.8           26 Sep 2022         6:00 AM         W         0.9           26 Sep 2022         6:00 AM         W         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SEE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         1.8           26 Sep 2022         4:00 PM         NE         1.8
26 Sep 20224:00 AMW1.826 Sep 20225:00 AMWSW1.826 Sep 20226:00 AMW0.926 Sep 20227:00 AMSW0.926 Sep 20228:00 AMSW1.326 Sep 20229:00 AMSW1.326 Sep 202210:00 AMSW1.326 Sep 202211:00 AMSW1.326 Sep 202212:00 PMSSE1.826 Sep 202212:00 PMNE0.926 Sep 20222:00 PMNE1.326 Sep 20223:00 PMNE1.326 Sep 20223:00 PMNE1.326 Sep 20225:00 PMSE3.626 Sep 20225:00 PMSE3.1
26 Sep 2022         5:00 AM         WSW         1.8           26 Sep 2022         6:00 AM         W         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SEE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         5:00 PM         SE         3.6
26 Sep 2022         6:00 AM         W         0.9           26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SEE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1 </td
26 Sep 2022         7:00 AM         SW         0.9           26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         1.3           26 Sep 2022         1:00 PM         NE         1.3           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         8:00 AM         SW         1.3           26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SSE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         9:00 AM         SW         1.3           26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SSE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         10:00 AM         SW         1.3           26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SSE         1.8           26 Sep 2022         12:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         2:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         11:00 AM         SW         1.3           26 Sep 2022         12:00 PM         SSE         1.8           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         12:00 PM         SSE         1.8           26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         5:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         1:00 PM         NE         0.9           26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         2:00 PM         NE         1.3           26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         3:00 PM         NE         0.9           26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         4:00 PM         NE         1.8           26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022         5:00 PM         SE         3.6           26 Sep 2022         6:00 PM         ENE         3.1
26 Sep 2022 6:00 PM ENE 3.1
26 Sep 2022 7:00 PM ENE 3.1
26 Sep 2022 8:00 PM ENE 3.6
26 Sep 2022 9:00 PM ENE 1.3
26 Sep 2022 10:00 PM ENE 1.3
26 Sep 2022 11:00 PM ENE 1.3
27 Sep 2022 12:00 AM ENE 0.9
27 Sep 2022         1:00 AM         ENE         0.9           27 Sep 2022         2:00 AM         ENE         0.9

	Septem	ber 2022								
Wind Speed and Directions										
Date	te Time Direction Wind Speed									
27 Sep 2022	3:00 AM	ENE	0.9							
27 Sep 2022	4:00 AM	ENE	1.3							
27 Sep 2022	5:00 AM	ENE	0.9							
27 Sep 2022	6:00 AM	ENE	0.9							
27 Sep 2022	7:00 AM	ENE	0.4							
27 Sep 2022	8:00 AM	ENE	0.9							
27 Sep 2022	9:00 AM	ENE	1.8							
27 Sep 2022	10:00 AM	ENE	0.9							
27 Sep 2022	11:00 AM	ENE	1.8							
27 Sep 2022	12:00 PM	ENE	1.3							
27 Sep 2022	1:00 PM	ENE	0.4							
27 Sep 2022	2:00 PM	Е	0.4							
27 Sep 2022	3:00 PM	ESE	0.4							
27 Sep 2022	4:00 PM	ENE	0.4							
27 Sep 2022	5:00 PM	ENE	0.4							
27 Sep 2022	6:00 PM	Е	0.4							
27 Sep 2022	7:00 PM	SE	0.4							
27 Sep 2022	8:00 PM	ESE	1.3							
27 Sep 2022	9:00 PM	Е	1.3							
27 Sep 2022	10:00 PM	ESE	2.2							
27 Sep 2022	11:00 PM	ESE	1.3							
28 Sep 2022	12:00 AM	ESE	0.4							
28 Sep 2022	1:00 AM	ENE	0.9							
28 Sep 2022	2:00 AM	ENE	0.4							
28 Sep 2022	3:00 AM	ENE	0.4							
28 Sep 2022	4:00 AM	ENE	0.4							
28 Sep 2022	5:00 AM	SW	0.4							
28 Sep 2022	6:00 AM	SW	0.4							
28 Sep 2022	7:00 AM	Е	0.4							
28 Sep 2022	8:00 AM	Е	0.9							
28 Sep 2022	9:00 AM	ESE	1.3							
28 Sep 2022	10:00 AM	Е	0.9							
28 Sep 2022	11:00 AM	Е	0.9							
28 Sep 2022	12:00 PM	ENE	0.9							
28 Sep 2022	1:00 PM	ENE	0.4							
28 Sep 2022	2:00 PM	NNE	0.9							

September 2022 Wind Speed and Directions											
Wind Speed and Directions           Date         Time         Direction         Wind Speed m-state											
	-		-								
28 Sep 2022	3:00 PM	ENE	1.3								
28 Sep 2022	4:00 PM	ENE	1.8								
28 Sep 2022	5:00 PM	ENE	1.8								
28 Sep 2022	6:00 PM	ENE	0.9								
28 Sep 2022	7:00 PM	WNW	1.3								
28 Sep 2022	8:00 PM	E	1.3								
28 Sep 2022	9:00 PM	ENE	0.9								
28 Sep 2022	10:00 PM	E	2.7								
28 Sep 2022	11:00 PM	E	1.3								
29 Sep 2022	12:00 AM	ESE	0.9								
29 Sep 2022	1:00 AM	E	0.9								
29 Sep 2022	2:00 AM	E	0.0								
29 Sep 2022	3:00 AM	ENE	0.4								
29 Sep 2022	4:00 AM	ENE	0.0								
29 Sep 2022	5:00 AM	NNE	0.4								
29 Sep 2022	6:00 AM	ENE	0.4								
29 Sep 2022	7:00 AM	ENE	0.4								
29 Sep 2022	8:00 AM	ENE	0.4								
29 Sep 2022	9:00 AM	ENE	0.0								
29 Sep 2022	10:00 AM	WNW	0.4								
29 Sep 2022	11:00 AM	E	0.4								
29 Sep 2022	12:00 PM	ENE	0.4								
29 Sep 2022	1:00 PM	E	0.4								
29 Sep 2022	2:00 PM	E	0.4								
29 Sep 2022	3:00 PM	E	0.4								
29 Sep 2022	4:00 PM	NW	0.4								
29 Sep 2022	5:00 PM	W	0.4								
29 Sep 2022	6:00 PM	W	0.4								
29 Sep 2022	7:00 PM	NW	1.3								
29 Sep 2022	8:00 PM	NW	1.3								
29 Sep 2022	9:00 PM	NW	2.2								
29 Sep 2022	10:00 PM	WNW	1.3								
29 Sep 2022	11:00 PM	NW	0.4								
30 Sep 2022	12:00 AM	W	0.9								
30 Sep 2022	1:00 AM	ESE	0.4								
30 Sep 2022	2:00 AM	E	0.4								
30 Sep 2022	3:00 AM	E	0.4								
30 Sep 2022	4:00 AM	E	0.4								
30 Sep 2022	5:00 AM	NW	0.4								
30 Sep 2022	6:00 AM	W	0.4								
30 Sep 2022	7:00 AM	W	0.4								
30 Sep 2022	8:00 AM	NW	1.3								
30 Sep 2022	9:00 AM	NW	1.3								
30 Sep 2022	10:00 AM	NW	2.2								
30 Sep 2022	11:00 AM	WNW	1.3								
30 Sep 2022	12:00 PM	NW	0.4								
30 Sep 2022	1:00 PM 2:00 PM	W	0.9								
30 Sep 2022	2:00 PM	ESE	0.4								
30 Sep 2022	3:00 PM	E	0.4								
30 Sep 2022	4:00 PM	WSW	0.4								
30 Sep 2022	5:00 PM	E	0.4								
30 Sep 2022	6:00 PM	ESE	0.4								
30 Sep 2022	7:00 PM	W	1.3								
30 Sep 2022	8:00 PM	WSW	2.7								
30 Sep 2022	9:00 PM	W	2.2								
30 Sep 2022	10:00 PM	ESE	2.2								
30 Sep 2022	11:00 PM	ENE	1.3								

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

#### Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Impact Air and Noise Monitoring Schedule (September 2022)

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

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<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)(3)</sup> - 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

#### 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 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		10.1		6.0		
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
	10 000	11 000		10 000	11000	15 000
			1-hr TSP X3			
		24-hrs TSP	Noise			
		24-nrs 1 SP				
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
23-Oct	24-Oct	` 25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
25-061	24-001	25-Oct	26-Oct	27-001	28-001	29-001
	1-hr TSP X3				1-hr TSP X3	
	Noise					
				24-hrs TSP		
30-Oct	t 31-Oct					
The schedule may be abe						

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<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)(3)</sup> - 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

#### 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 2022)

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

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<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)(3)</sup> - 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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (December 2022)

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

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

Air Quality Monitoring Station 1-hr TSP / 24-hrs TSP AM 1- Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village 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

AM4(A)<sup>(2)(3)</sup> - Cha Kwo Ling Public Cargo Working Area Administrative Office

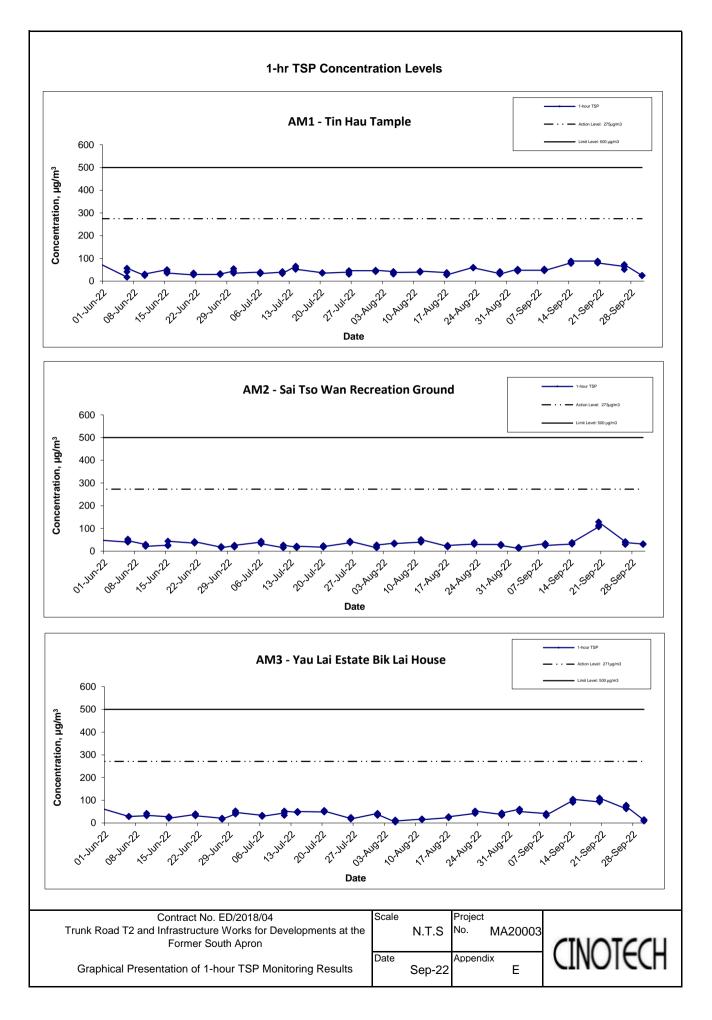
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

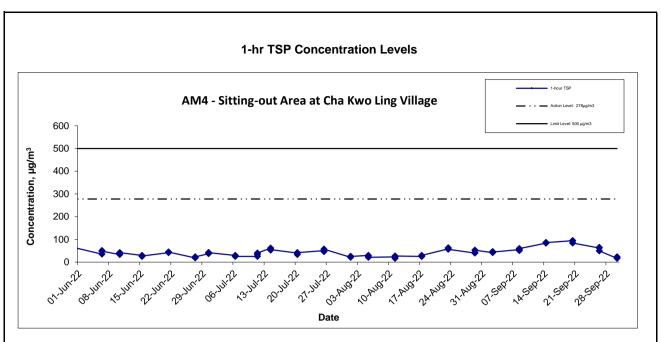
Location AM1 -	Tin Hau Ten	nple	
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
2-Sep-22	10:00	Sunny	52.5
2-Sep-22	11:00	Sunny	44.1
2-Sep-22	12:00	Sunny	48.3
8-Sep-22	13:00	Sunny	48.3
8-Sep-22	14:00	Sunny	52.9
8-Sep-22	15:00	Sunny	46.0
14-Sep-22	13:00	Sunny	80.6
14-Sep-22	14:00	Sunny	78.0
14-Sep-22	15:00	Sunny	88.4
20-Sep-22	13:45	Cloudy	88.2
20-Sep-22	14:45	Cloudy	81.9
20-Sep-22	15:45	Cloudy	79.8
26-Sep-22	12:55	Sunny	65.0
26-Sep-22	13:55	Sunny	52.0
26-Sep-22	14:55	Sunny	72.8
30-Sep-22	10:51	Rainy	25.2
30-Sep-22	11:51	Rainy	25.2
30-Sep-22	12:51	Rainy	25.2
		Average	58.6
		Maximum	88.4
		Minimum	25.2

Location AM2 -	Location AM2 - Sai Tso Wan Recreation Ground										
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )								
2-Sep-22	13:20	Fine	12.6								
2-Sep-22	14:20	Fine	12.6								
2-Sep-22	15:20	Fine	16.8								
8-Sep-22	16:00	Sunny	33.6								
8-Sep-22	17:00	Sunny	27.3								
8-Sep-22	18:00	Sunny	25.2								
14-Sep-22	10:00	Sunny	31.5								
14-Sep-22	11:00	Sunny	31.5								
14-Sep-22	12:00	Sunny	37.8								
20-Sep-22	14:30	Cloudy	107.1								
20-Sep-22	15:30	Cloudy	113.4								
20-Sep-22	16:30	Cloudy	128.1								
26-Sep-22	9:00	Fine	42.0								
26-Sep-22	10:00	Fine	29.4								
26-Sep-22	11:00	Fine	37.8								
30-Sep-22	16:00	Rainy	31.5								
30-Sep-22	17:00	Rainy	29.4								
30-Sep-22	18:00	Rainy	31.5								
		Average	43.3								
		Maximum	128.1								
		Minimum	12.6								

Location AM3 -	Yau Lai Esta	ate Bik Lai House	
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
2-Sep-22	13:00	Sunny	60.9
2-Sep-22	14:00	Sunny	58.8
2-Sep-22	15:00	Sunny	50.4
8-Sep-22	9:00	Sunny	41.4
8-Sep-22	10:00	Sunny	32.2
8-Sep-22	11:00	Sunny	34.5
14-Sep-22	9:00	Sunny	98.8
14-Sep-22	10:00	Sunny	91.0
14-Sep-22	11:00	Sunny	104.0
20-Sep-22	10:00	Rainy	92.4
20-Sep-22	11:00	Rainy	98.7
20-Sep-22	12:00	Rainy	109.2
26-Sep-22	9:30	Sunny	62.4
26-Sep-22	10:30	Sunny	78.0
26-Sep-22	11:30	Sunny	72.8
30-Sep-22	9:40	Rainy	12.6
30-Sep-22	10:40	Rainy	8.4
30-Sep-22	11:40	Rainy	14.7
		Average	62.3
		Maximum	109.2
		Minimum	8.4

Location AM4 -	Location AM4 - Sitting-out Area at Cha Kwo Ling Village										
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )								
2-Sep-22	16:00	Sunny	42.0								
2-Sep-22	17:00	Sunny	46.2								
2-Sep-22	18:00	Sunny	44.1								
8-Sep-22	16:00	Sunny	55.2								
8-Sep-22	17:00	Sunny	50.6								
8-Sep-22	18:00	Sunny	59.8								
14-Sep-22	16:00	Sunny	83.2								
14-Sep-22	17:00	Sunny	85.8								
14-Sep-22	18:00	Sunny	85.8								
20-Sep-22	16:10	Cloudy	94.5								
20-Sep-22	17:10	Cloudy	94.5								
20-Sep-22	18:10	Cloudy	84.0								
26-Sep-22	16:00	Sunny	62.4								
26-Sep-22	17:00	Sunny	65.0								
26-Sep-22	18:00	Sunny	49.4								
30-Sep-22	15:10	Rainy	16.8								
30-Sep-22	16:10	Rainy	23.1								
30-Sep-22	17:10	Rainy	21.0								
		Average	59.1								
		Maximum	94.5								
		Minimum	16.8								





Notes:

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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale		Project No. MA20003	CINOTCOL
•	Date	Aug-22	Appendix E	CINOIECH

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	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rat	e (m <sup>3</sup> /min.)	Av. flow	Total vol	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
1-Sep-22	Fine	3.3132	3.5066	0.1934	10530.5	10554.5	24.0	1.22	1.21	1.21	1749.0	110.6
7-Sep-22	Sunny	3.3361	3.5805	0.2444	10530.5	10554.5	24.0	1.22	1.22	1.22	1755.6	139.2
13-Sep-22	Sunny	3.2967	3.4018	0.1051	10554.5	10578.5	24.0	1.21	1.21	1.21	1743.5	60.3
19-Sep-22	Sunny	3.2953	3.4624	0.1671	10602.3	10626.3	24.0	1.22	1.22	1.22	1750.7	95.4
24-Sep-22	Cloudy	3.3039	3.5345	0.2306	16026.3	16050.3	24.0	1.22	1.22	1.22	1754.3	131.4
29-Sep-22	Sunny	3.3035	3.6520	0.3485	10650.3	10674.3	24.0	1.22	1.22	1.22	1758.2	198.2
				-							Min	60.3
											Max	198.2
											A	400.5

Average 122.5

#### Location AM2 - Sai Tso Wan Recreation Ground

Start Date	Weather	Filter We	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rat	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m³)
1-Sep-22	Cloudy	3.3199	3.3916	0.0717	31627.1	31651.1	24.0	1.22	1.21	1.21	1748.9	41.0
7-Sep-22	Sunny	3.3048	3.3881	0.0833	31651.1	31675.1	24.0	1.22	1.22	1.22	1755.9	47.4
13-Sep-22	Sunny	3.3300	3.6349	0.3049	31675.1	31699.1	24.0	1.21	1.21	1.21	1743.6	174.9
19-Sep-22	Cloudy	3.3084	3.4078	0.0994	31699.1	31723.1	24.0	1.22	1.22	1.22	1750.7	56.8
24-Sep-22	Fine	3.2950	3.4244	0.1294	31723.1	31747.1	24.0	1.22	1.22	1.22	1754.6	73.7
29-Sep-22	Cloudy	3.3177	3.3950	0.0773	31807.3	31831.3	24.0	1.22	1.22	1.22	1759.4	43.9
											Min	41.0
											Max	174.9
											Average	73.0

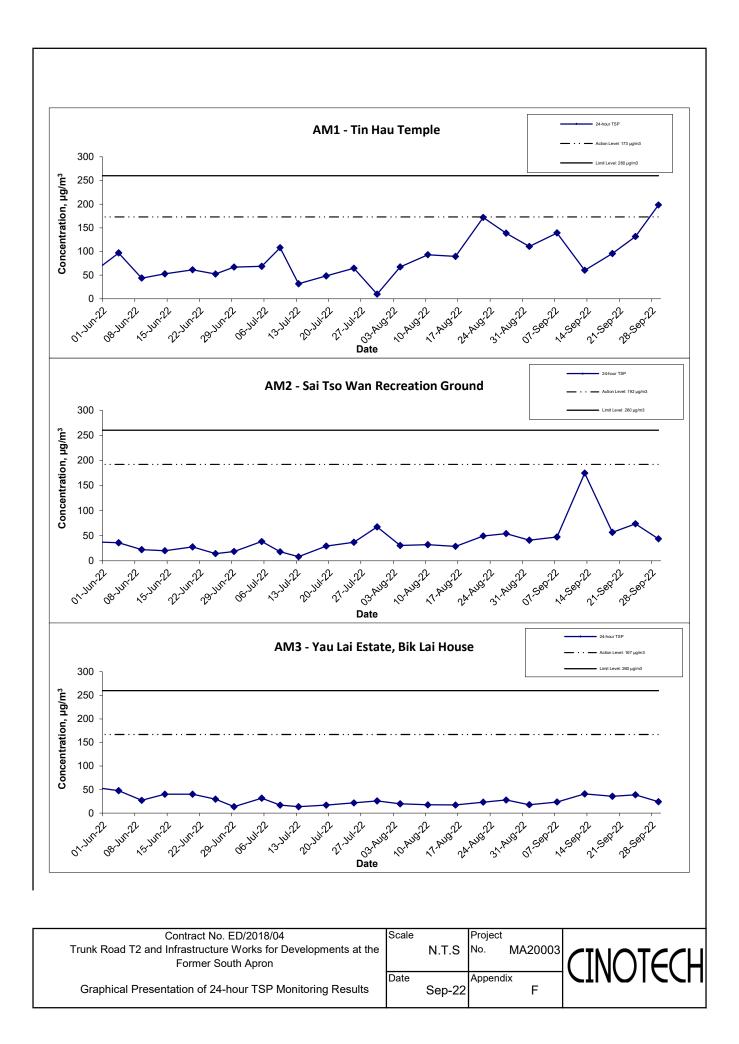
#### Location AM3 - Yau Lai Estate, Bik Lai House

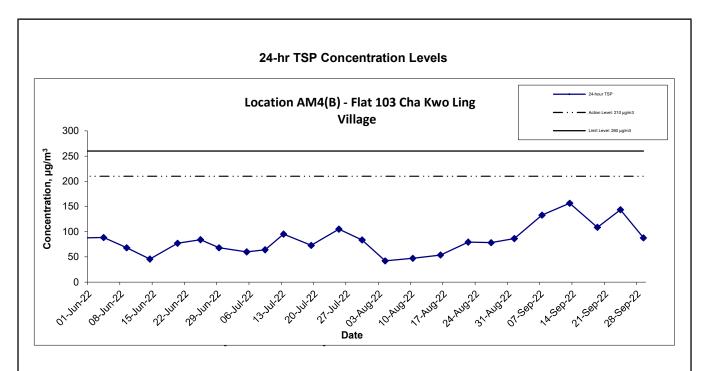
Start Date	Weather	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rat	te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m³)
1-Sep-22	Fine	3.3069	3.3383	0.0314	5969.6	5993.6	24.0	1.22	1.21	1.22	1749.9	17.9
7-Sep-22	Sunny	3.3128	3.3543	0.0415	5993.6	6017.6	24.0	1.22	1.22	1.22	1756.9	23.6
13-Sep-22	Sunny	3.3223	3.3938	0.0715	6017.6	6041.6	24.0	1.21	1.21	1.21	1744.0	41.0
19-Sep-22	Cloudy	3.2946	3.3573	0.0627	6041.6	6065.6	24.0	1.22	1.22	1.22	1751.6	35.8
24-Sep-22	Sunny	3.3189	3.3874	0.0685	6065.6	6089.7	24.0	1.22	1.22	1.22	1756.3	39.0
29-Sep-22	Rainy	3.3159	3.3585	0.0426	6089.7	6113.7	24.0	1.22	1.22	1.22	1759.6	24.2
				-							Min	17.9
											Max	41.0
											Average	30.3

Location AM4(B) - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Filter W	eight (g)	Particulate	Particulate Elapse Time			Flow Rat	te (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
1-Sep-22	Sunny	3.3321	3.4834	0.1513	16983.7	17007.7	24.0	1.22	1.22	1.22	1754.5	86.2
7-Sep-22	Sunny	3.3733	3.6077	0.2345	17007.7	17031.7	24.0	1.23	1.23	1.23	1766.2	132.7
13-Sep-22	Sunny	3.2975	3.5721	0.2746	17031.7	17055.7	24.0	1.22	1.22	1.22	1754.6	156.5
19-Sep-22	Cloudy	3.3207	3.5119	0.1912	17055.7	17079.7	24.0	1.22	1.22	1.22	1762.3	108.5
24-Sep-22	Sunny	3.2895	3.5429	0.2534	17079.7	17103.7	24.0	1.23	1.23	1.23	1765.1	143.6
29-Sep-22	Rainy	3.3400	3.4957	0.1557	17103.7	17127.9	24.1	1.23	1.23	1.23	1776.8	87.6
											Min	86.2
											Max	156.5

Average 119.3





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 2.18.

Contract No. ED/2018/04	Scale		Project		
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron		N.T.S	No.	MA20003	CINOTECH
Graphical Presentation of 24-hour TSP Monitoring Results	Date	Sep-22	Appendi	ix F	

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

### Appendix G - Noise Monitoring Results

#### (0700-1900 hrs on Normal Weekdays)

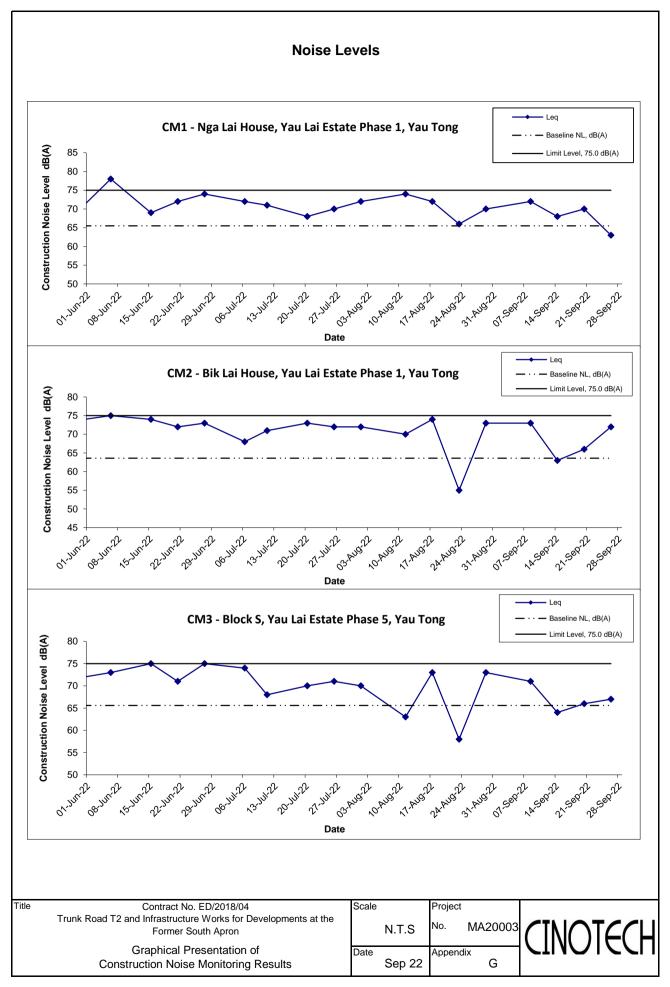
Location CM1 -	• Nga Lai Ho	use, Yau Lai	Estate Phase	e 1, Yau Tor	ng							
				Unit: dB (A) (30-min)								
Date	Time	Weather	Meas	sured Noise	evel Baseline Level		Construction Noise Level					
Duto		Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>					
8 Sep 2022	9:00	Sunny	72.6	75.4	70.8	65.5	72					
14 Sep 2022	10:53	Sunny	69.8	72.6	66.6	65.5	68					
20 Sep 2022	10:59	Drizzle	71.5	74.6	67.5	65.5	70					
26 Sep 2022	11:40	Sunny	67.4	68.8	65.7	65.5	63					

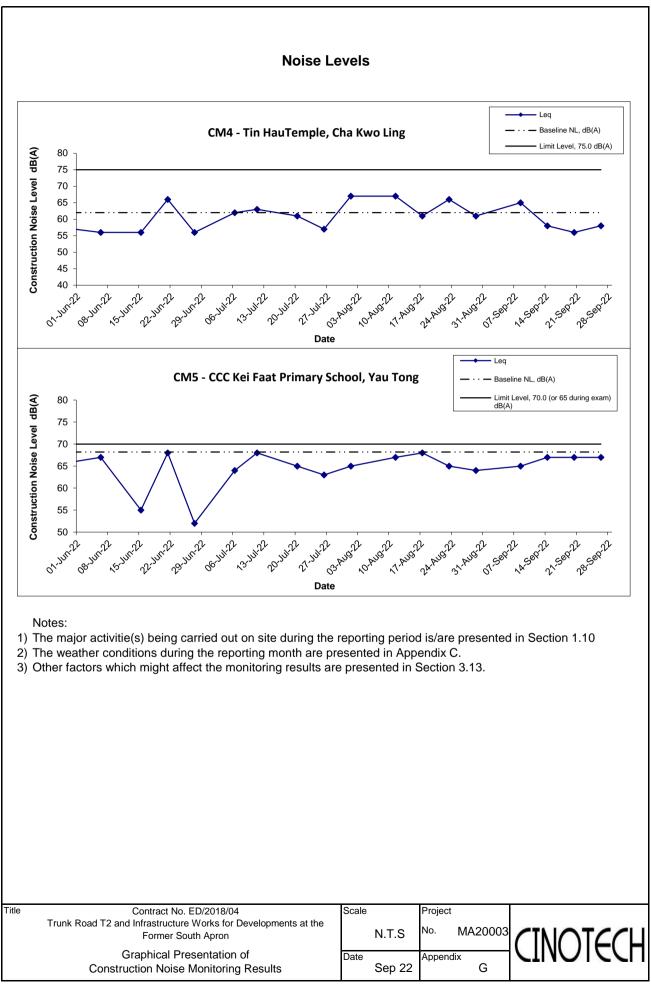
Location CM2 -	ocation CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong												
				Unit: dB (A) (30-min)									
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level						
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>						
8 Sep 2022	10:00	Sunny	73.1	75.9	71.2	63.6	73						
14 Sep 2022	11:39	Sunny	66.2	67.4	64.9	63.6	63						
20 Sep 2022	11:40	Drizzle	67.8	69.3	66.1	63.6	66						
26 Sep 2022	13:00	Sunny	72.5	74.7	69.3	63.6	72						

Location CM3 -	Block S, Ya	au Lai Estate	Phase 5, Yau	u Tong							
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level				
Dulo	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>				
8 Sep 2022	11:00	Sunny	72.4	75.2	70.6	65.6	71				
14 Sep 2022	10:05	Sunny	67.8	69.5	65.9	65.6	64				
20 Sep 2022	10:08	Cloudy	68.9	70.7	66.7	65.6	66				
26 Sep 2022	10:50	Sunny	69.2	71.5	66.2	65.6	67				

Location CM4 -	Tin Hau Te	mple, Cha Kv	vo Ling				
					Uni	t: dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Buto	Time	volution	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
8 Sep 2022	14:00	Sunny	66.7	69.8	65.3	62.0	65
14 Sep 2022	15:57	Sunny	58.3	60.1	54.0	62.0	58 Measured $\leq$ Baseline
20 Sep 2022	14:00	Drizzle	55.6	57.1	51.9	62.0	56 Measured $\leq$ Baseline
26 Sep 2022	15:05	Sunny	58.1	60.2	54.7	62.0	58 Measured $\leq$ Baseline

Location CM5 -	CCC Kei Fa	aat Primary So	chool, Yau T	ong							
			Unit: dB (A) (30-min)								
Date	Time Weather		Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level				
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>				
8 Sep 2022	13:00	Sunny	69.8	71.3	67.9	68.2	65				
14 Sep 2022	9:14	Sunny	67.2	69.7	63.3	68.2	67 Measured $\leq$ Baseline				
20 Sep 2022	9:15	Sunny	66.8	69.2	63.7	68.2	67 Measured $\leq$ Baseline				
26 Sep 2022	10:02	Sunny	66.5	68.9	63.2	68.2	67 Measured $\leq$ Baseline				





APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2022 (CKL)

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

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual C	Quantities of	C&D Wastes	s Generated	Monthly
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January	4.615	4.615	0.000	4.615	0.000	0.000	0.000	0.000	0.000	0.000	0.031
February	1.374	1.374	0.000	1.374	0.000	0.000	0.000	0.000	0.000	0.000	0.005
March	2.227	2.227	0.000	2.227	0.000	0.000	0.000	0.000	0.000	0.000	0.009
April	2.249	2.249	0.000	2.249	0.000	0.000	0.000	0.000	0.000	0.000	0.019
May	4.334	4.334	0.000	4.334	0.000	0.000	0.000	0.000	0.000	3.200	0.024
June	3.429	3.429	0.000	3.429	0.000	0.000	0.000	0.000	0.000	0.000	0.026
Sub-total	18.228	18.228	0.000	18.228	0.000	0.000	0.000	0.000	0.000	3.200	0.114
July	3.158	3.158	0.000	3.158	0.000	0.000	0.000	0.000	0.000	0.000	0.019
August	4.160	4.160	0.000	4.160	0.000	0.000	0.000	0.000	0.000	3.810	0.021
September	1.701	1.701	0.000	1.701	0.000	0.000	0.000	0.000	0.000	0.000	0.021
October											
November											
December											
Total	27.247	27.247	0.000	27.247	0.000	0.000	0.000	0.000	0.000	7.010	0.175

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 Checklist Reference Number 220901

Checklist Reference Number	220901
Date	01 September 2022 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<ul><li><i>B. Water Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>C. Air Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>D. Construction Noise Impact</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>E. Waste/Chemical Management</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul> <li><i>I. Others</i></li> <li>Follow up on the previous session (Ref No.:220824), all item has been rectified.</li> </ul>	

	Name	Signature	Date
Recorded by	Tim Lui	Cigli	01 September 2022
Checked by	Karina Chan	Zelle	01 September 2022

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

# Weekly Site Inspection Record Summary Inspection Information 220908 Checklist Reference Number 220908 Date 08 September 2022 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<ul><li><i>B. Water Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>C. Air Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>D. Construction Noise Impact</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>E. Waste/Chemical Management</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>I. Others</i></li><li>Follow up on the previous session (Ref No.:220901), no major environmental deficiency was identified.</li></ul>	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	08 September 2022
Checked by	Karina Chan	Zelle	08 September 2022

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

# Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	220915
Date	15 September 2022 (Thursday)
Time	09:20 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:220908), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	15 September 2022
Checked by	Karina Chan	Zelle	15 September 2022

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

# Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	220922
Date	22 September 2022 (Thursday)
Time	09:20 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:220915), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	22 September 2022
Checked by	Karina Chan	Julle	22 September 2022

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

#### Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	220929			
Date	29 September 2022 (Thursday)			
Time	09:20 - 12:00			

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

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li><i>B. Water Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>C. Air Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>D. Construction Noise Impact</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
220929 – R1 220929 – R2	<ul> <li><i>E. Waste/Chemical Management</i></li> <li>Drip tray should be provided to prevent leaked oil from entering drainage system.</li> <li>Refuse should be cleaned regularly.</li> </ul>	E9 E1
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>I. Others</i></li><li>Follow up on the previous session (Ref No.:220922), no major environmental deficiency was identified.</li></ul>	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	29 September 2022
Checked by	Karina Chan	Zelle	29 September 2022

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

#### App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
\$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	<ul> <li>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.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs</li> <li>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.</li> <li>Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>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.</li> <li>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.</li> <li>Imposition of speed controls for vehicles on site haul roads.</li> <li>Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs</li> <li>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.</li> </ul>	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 <ul> <li>All vehicles shall be shut down in intermittent use.</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.</li> <li>All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD)</li> </ul>	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО

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	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants				APCO
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	<ul> <li>Good Site Practice</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>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.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	ct (Construction Phase)					
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m <sup>3</sup> , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
85.8.2	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 <sup>3</sup> (i.e. 1,000 m <sup>3</sup> 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	<ul> <li>Silt curtains should be deployed properly to surround the works area.</li> <li>Maintenance of silt curtain should be provided.</li> <li>Sufficient stock of silt curtain should be provided on site.</li> </ul>	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

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	Other good site practices should be undertaken during filling operations include:					
\$5.8.3	<ul> <li>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;</li> <li>floating single silt curtain shall be employed for all marine works;</li> <li>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;</li> <li>all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>adequate freeboard shall be cleaned from the decks and exposed fittings of barges before the vessel is moved;</li> <li>adading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filed to a level that will cause the overflow of materials or polluted water during loading or transportation;</li> <li>any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;</li> <li>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 operation of the situ curtain.</li> </ul>	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
\$5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site oractices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	<ul> <li>To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: <ul> <li>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)</li> <li>The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works.</li> <li>Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is.</li> <li>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.</li> </ul> </li> </ul>	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 housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1.94, EIAOTM, WPCO, TM-DSS
S5.8.8 S5.8.8 S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps; and adequate maintenance of drainage systems to prevent flooding and overflow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix AI of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m <sup>3</sup> 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
\$5.8.13	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
\$5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m <sup>3</sup> should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.19	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
\$5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
\$5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of unnels or caverus 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
85.8.25 - 85.8.27 & 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 he measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the unnel 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
\$5.8.29 - \$5.8.31	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

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\$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 sitt 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
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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
\$5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
\$5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
\$6.8.4	<ul> <li>Measures to Minimize Disturbance</li> <li>Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible.</li> <li>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;</li> <li>Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities</li> </ul>	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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EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$6.8.5	Standard Good Site Practice         • Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats.         • Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works.         • Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner.         • General drainage arrangements should include sediment and oil traps to collect and control construction site run-off.	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	<ul> <li>Open burning on works sites is illegal, and should be strictly prohibited.</li> <li>Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.</li> </ul> Measure to Minimize Groundwater Inflow <ul> <li>The drained tunnel construction method with groundwater inflow control measures would generally be adopted.</li> <li>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</li> </ul>	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
\$6.8.8	requirements. Measure to Minimize Impact on Corals Coral translocation • It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i> , within the reclamation area and bridge footprint to the other suitable locations as far as practicable. • The coral translocation should be conducted during the winter months (November- March) in order to avoid disturbance during their spawning period (i.e. July to October). • A detailed coral translocation plan with a description on the methodology for pretranslocation organized 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.	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A
	<ul> <li>A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities</li> <li>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.</li> </ul>					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$6.8.9 \$6.8.10	Measure to Control Water Quality Impact           • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.           • Diverting of the site runoff to silt trap facilities before discharging into storm drain;           • Proper waste and dumping management; and           • Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
\$6.8.11	Compensation for Vegetation Loss <ul> <li>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.</li> </ul>	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 <ul> <li>Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.</li> </ul>	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	(Construction Phase)					
\$8.6.3	<ul> <li>Good Site Practices and Waste Reduction Measures</li> <li>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;</li> <li>Training of site personnel in site cleanliness, proper waste management and chemical handling procedures;</li> <li>Provision of sufficient waste disposal points and regular collection of waste;</li> <li>Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and</li> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> </ul>	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	<ul> <li>Good Site Practices and Waste Reduction Measures (con't)</li> <li>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;</li> <li>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;</li> <li>Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and</li> <li>Phan and stock construction materials; and</li> <li>Phan and stock construction materials; and</li> </ul>	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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$8.6.6	Good Site Practices and Waste Reduction Measures (con't) <ul> <li>C&amp;D materials would be reused in the project and other local concurrent projects as far as possible.</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.7	<ul> <li>Storage, Collection and Transportation of Waste</li> <li>Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: <ul> <li>Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;</li> <li>Maintain and clean storage areas routinely;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and</li> <li>Different locations should be designated to stockpile each material to enhance reuse.</li> </ul> </li> </ul>	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	<ul> <li>Storage, Collection and Transportation of Waste (con't) <ul> <li>Remove waste in timely manner;</li> <li>Waste collectors should only collect wastes prescribed by their permits;</li> <li>Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;</li> <li>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);</li> <li>Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and</li> <li>Maintain records of quantities of waste generated, recycled and disposed.</li> </ul> </li> </ul>	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	<ul> <li>Storage, Collection and Transportation of Waste (con't)</li> <li>Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction &amp; 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.</li> </ul>	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	<ul> <li>Sorting of C&amp;D Materials</li> <li>Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site.</li> <li>Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials.</li> <li>The C&amp;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</li> </ul>	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	<ul> <li>Sediments (con't) <ul> <li>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 sediments.</li> <li>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).</li> <li>In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment shury to the surrounding water.</li> <li>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.</li> </ul> </li> </ul>	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	<ul> <li>Sediments (con't)</li> <li>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.</li> <li>Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments 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 clowered by tarpatin 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 of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).</li> <li>In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the sediment surry to the surrounding water.</li> <li>The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should hor to 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 tight fitting seals to prevent leakage and should hor 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</li></ul>	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. <ul> <li>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 chemical 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, toxie, 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.</li> </ul>	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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EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	General Refuse      General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
\$9.6.4	Dust and visual impacts           • Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided;           • The open yard in front of the temple should be kept as usual for annual Tin Hau festival;           • Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
\$9.6.4	Indirect vibration impact <ul> <li>Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings;</li> <li>Monitoring of vibration should be carried out during construction phase.</li> <li>Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well.</li> <li>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.</li> </ul>	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	<ul> <li>Established Alert, Alarm and Action Level for the monitoring parameters.</li> <li>To increase the instrumentation monitoring and reporting frequency.</li> <li>To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded.</li> </ul>	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visua	l Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$11.5.10 \$11.5.25	<ul> <li>Safety Measures <ul> <li>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.</li> <li>An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out.</li> <li>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.</li> <li>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.</li> <li>Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation.</li> <li>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).</li> <li>The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be eresponsible for reviewing the gas measurements as they are made, and who should have executive responsibility of 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 ho works in confined areas.<td>Protect the workers from landfill gas hazards</td><td>Contractor</td><td>Project sites within the Sai Tso Wan Landfill Consultation Zone</td><td>Construction phase</td><td>EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space</td></li></ul></li></ul>	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	<ul> <li>The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow.</li> <li>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.</li> </ul>					
\$11.5.10 \$11.5.25	<ul> <li>Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong).</li> </ul>					
	<ul> <li>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.</li> </ul>					
	Monitoring <ul> <li>Routine monitoring should be carried out in all excavations, manholes, chambers,</li> </ul>					
	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 <b>deeper than 1m</b> , measurements should be carried out:					
	at the ground surface before excavation commences;-					
	<ul> <li>immediately before any worker enters the excavation;</li> <li>at the beginning of each working day for the entire period the excavation remains open; and</li> </ul>					
	<ul> <li>periodically throughout the working day whilst workers are in the excavation.</li> </ul>			Project sites within the Sai		EPD's Landfill Gas Hazard Assessment
\$11.5.26 - \$11.5.31	<ul> <li>For excavations between 300mm and 1m deep, measurements should be carried out:</li> </ul>	Protect the workers from landfill gas hazards	Contractor	Tso Wan Landfill Consultation Zone	Construction phase	Guidance Note
	<ul> <li>directly after the excavation has been completed; and</li> <li>periodically whilst the excavation remains open</li> </ul>					
	<ul> <li>periodically whilst the excavation remains open.</li> <li>For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.</li> </ul>					
	<ul> <li>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.</li> </ul>					
	<ul> <li>The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system.</li> </ul>					
\$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	construction stage within the Sai Tso Wan	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	Protect the workers from landfill gas hazards		Consultation Zone		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

 $\cdot\,$  Non-compliance but improved by the contractor

EIA Ref	<b>Recommended Mitigation Measures</b>	Details of Reminder/Observation	<b>Recorded Date</b>	Status
Air Quality				
<b>Construction</b> N	Noise Impact			
Water Quality	Impact			
Ecological Imp	pact			
<b>Fisheries Impa</b>	ct			
Waste Manage	ement			
S8.6.8	Refuse should be removed regularly	The waste was accumulated in the bin	29 Sep 2022	#
	Drip tray should be provided to prevent leaked oil	Drip tray was not observed around the oil container	29 Sep 2022	#
Landscape and	l Visual Impact			
Landfill Gas H	lazards			

APPENDIX L EVENT AND ACTION PLANS

### **Event and Action Plan for Air Quality (Dust)**

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

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

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		
		• 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:** September 2022

Table M1Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting<br/>Period

Log Ref.	Location	Received Date	Details of Complaint/warning/su mmon 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

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	<ul> <li>Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance.</li> <li>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.</li> </ul>	Closed
		9-Feb- 2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside	
Complaint #N04	Portion T1	6 March 2021	The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	Noise	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

Table M2	Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
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Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

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

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	
		18 July 2021	Complainant informed that breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) from the ground during 3-4 a.m. on 17 Jul and 18 Jul 2021.			• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne	
Complaint #N05	Portion T1	27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.	Noise	<ul> <li>noise nuisance.</li> <li>A valid CNP was hold and the construction activities being taken were complied with the relevant CNP.</li> <li>Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise</li> <li>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.</li> <li>Contractor is recommended to</li> </ul>	Closed	

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
					<ul> <li>continue to strictly follow the requirements in the relevant CNP.</li> <li>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.</li> </ul>	
Complaint #N06	Portion T1	03-Nov- 2021	Complainant informed that underground breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) at about 10 p.m. on 03 Nov 2021. Also, the complainant further informed that recently they continued to hear underground breaking noise which had caused serious noise nuisance to the residents.	Noise	<ul> <li>No major construction noise related environmental deficiency was identified during ad-hoc inspection carried out by ET, RE and the Contractor representative on 12 November 2021.</li> <li>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.</li> </ul>	Closed

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

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint	Portion	17-Feb- 22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day.	Noise	<ul> <li>The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance.</li> <li>A valid CNP was hold and the construction activities being taken ware complied with the relevant.</li> </ul>	Closed
#N07	T1	24- March-22	Follow up complaint from the same complainant was received and he/she informed that the day time ground-borne noise nuisance had deteriorated this week.		<ul> <li>were complied with the relevant CNP.</li> <li>Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise</li> <li>In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide</li> </ul>	Closed

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
		12-April- 22	3 <sup>rd</sup> complaint from the same complainant was received again, he/ she complained that his/ her family were affected by the noise from construction site of T2 at the night-time period and felt no improvement on this issues.		<ul> <li>regularly maintenance for PMEs.</li> <li>Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP.</li> <li>According to the condition 3.d point 5 of the CNP (GW-RE1201-21, GW-RE0199-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received.</li> </ul>	

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: September 2022**

#### (A) Exceedance Report for Air Quality

One (1) Action Level exceedance of 24hr TSP monitoring was recorded in this reporting month and no Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. (µg/m <sup>3</sup> )	Level exceeded
AM1	29 September 2022	198.2	Action Level

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

#### (B) Exceedance Report for Construction Noise

No Action Level exceedance was recorded due to the documented complaint in the reporting month.

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

#### (C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

## Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

#### - Notification of Exceedances

NOE No. 220929\_24hrTSP (AM1) Exceedance Level: Action

Date of Air Quality Monitoring: 29 September 2022

#### **Part A – Exceedance Summary Tables**

Table I:Parameter(s) – 24-hour TSP

Stati	on Location	Time	Filter Weight (g) Initial	Filter Weight (g) Final	Particulate Weight (g)	Particulate Concentration (µg/m3)		Limit Level: (µg/m3)	Level exceeded
AM	I Tin Hau Temple	0900 (29 Sep 2022) – 0900 (30 Sep 2022)	3.3035	3.6520	0.3485	198.2	173	<u>260</u>	Action

 Note:
 Bold Italic means Action Level exceedance

 Bold Italic with underline means Limit Level exceedance

#### Part B – Major Source of Parameter Monitored

#### Field Observation(s) and Finding(s)

(a) Statement of exceedance(s)

24-hour TSP monitoring measured at AM1 on 29 September 2022 exceeded the action level.

(b) Cause of exceedance(s)

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

1. According to our field observation, the joss paper furnace was found next to the high volume sampler (HVS), which may affect the result if incense burning was conducted.

2. Non-project related construction works (TKOLTT project)

3. Road traffic along Cha Kwo Ling Road

4. RE and Contractor have confirmed that no construction activity was carried out in the vicinity of the Tin Hau Temple on 29-30 September 2022 under this contract.

## Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

### - Notification of Exceedances

Photo Record (Photo Taken by ET)



## Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

#### - Notification of Exceedances

#### Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce Action Level exceedance of 24-hour TSP recorded at station AM1 on 29 September 2022 respectively are due to the non-project related influence. Therefore, the exceedance is considered as **non-project related**.

#### **Part D – Recommendation**

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

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

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur S	tart Finish	nish 2022 A										Apr	Appendix A										
			03	April		01 0	May 08 15	22 29 0	June 5 12 19	26	July 03 10	17   24	Aug 31 07 1		28 04	September 11 18	3 25 02	October			vember 13 20	1.1	December 11 18	
ED/2018/04 - Trunk Road T2	977 13-Ma	ar-21 A 24-Oct-																						1
DESIGN SUBMISSION & APPROVAL	454 15-Ma	ar-21 A 17-Jan-	23					+++++			<u></u>		·	·						<u>-</u> <u>-</u>       			 I I I I I I I	
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DAP-WVB		ec-22 06-Jan-																						
DDA - Draft - Final Review and prepare for 1st Sub		ec-22 06-Jan-																						
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)		ec-21 A 29-Mar-2						····									+							
DDA - 7th Review by SO		ec-21 A 07-Jan-2							, , , , , , , , , , , , , , , , , , , ,											· · · ·				
DDA - Further information required by SO		n-22 A 27-Jan-2								_														/
DDA - 8th Sub	0	27-Jan-2																						
DDA - 8th Review by SO	35 28-Ja		2 a DDA -			1																	 	/
DDA - SO Consent for DDA Submission	0	29-Mar-2	2 a DDA -	SOConse	ent for DI	DA Submis	ssion		1 1 1 1 1 1 1 1 1 1															/
DDA Landscape Design		ep-21 A 15-Oct-																					· · · · · · · · · · · · · · · · · · ·	<b></b>
DDA - Further information required by SO	24 10-Se	ep-21 A 05-Jan-2	2 A						1 1 1 1 1 1 1 1															
DDA - 2nd Sub	0	05-Jan-2	2 A					· · · · · · · · · · · · · · · · · · ·						· I									· · · · · · · · · · · · · · · · · · ·	
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DEPRESSED ROAD [DPR]		ep-21 A 04-May-2			·				· +		+-												·	//////////////////////////////////////
DDA DPR - Portal Structure		ep-21 A 04-May-2						*			4			· + · · · · · · · · · · · · ·			+   . 							
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DDA - SO Consent for Construction	0	04-May-2	2 A		       	◆ DD	A - SO C	onsent for Cons	truction															
Stage 1A Completion	0	04-May-2	2 A		       	♦ \$ta	ge 1 A Co	mpletion						· +						k			·	
WEST VENTILATION BUILDING [WVB]	409 14-Ma	ay-21 A 22-Nov-	22					+++++															·	
DDA WVB - ABWF	326 11-Se	ep-21 A 22-Nov-	22																			-		
DDA - Review by SO	28 11-Se	ep-21 A 09-Sep-	1 !													DDA - Re	eview by SO							
DDA - Review by IP / DC	28 11-Se	ep-21 A 09-Sep-	22		·			+	·	·						DDA - R	eview by IP /	DC						
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Data Date: 03-Sep-22

Milestone
Planned Bar
Critical A divity

Critical A divity
 Actual Milestone

ual Work

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	Start	Finish			
				April     May     June     July     August     September     Octobe       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     10	6 23 30 06 13 20	
DDA - Further information required by SO	30	10-Sep-22	18-Oct-22		DDA - Further information requ	ired by SO
DDA - 2nd Sub	0	,	18-Oct-22		DDA - 2nd Sub	
DDA - 2nd Review by SO	35	19-Oct-22	22-Nov-22			DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		22-Nov-22		••••	DDA - SO Consent for Con
DDA WVB - Aesthetic Design		14-May-21 A				
DDA - Review by IP / DC	28 1	14-May-21 A	09-Sep-22	DDA- Review by IP / DC		
DDA - 2nd Review by SO	35 2	20-Jun-21 A	15-Sep-22	DDA 2nd Review by SO		
DDA - 2nd Review by IP	35 2	20-Jun-21 A	15-Sep-22	DDA + 2nd Review by IP		
DDA - Further information required by SO	24	16-Sep-22	15-Oct-22		DA - Further information require	d by SO
DDA - 3rd Sub	0	·	15-Oct-22		DDA - 3rd Sub	
DDA - 3rd Review by SO	35	16-Oct-22	19-Nov-22			0A - 3rd Review by \$O
DDA - SO Consent for Construction	0	·	19-Nov-22		♦ DD	0A - SO Consent for Constr
SOUTH APRON ROAD WORKS	319	29-Oct-21 A	26-Nov-22			
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking and Traffic	172	11-Nov-21 A	08-Jun-22 A			
DDA - Further information required by SO	12			DDA: Further information required by SO		
DDA - 6th Sub	0	]	01-Apr-22 A	DDA- 6th Sub		
DDA - 6th Review by SO	35	02-Apr-22 A	08-Jun-22 A	DDA - 6th Réview by SO		
DDA - SO Consent for Construction	0		08-Jun-22 A	◆ DDA - SO Consent for Construction		
DDA Road L10 (S) - Roadworks and Street Furniture						
DDA - Further information required by SO	12 1		31-Mar-22 A	DDA - Further information required by SO		
DDA - 7th Sub	0	]	31-Mar-22 A	DDA - 7th Sub		
DDA - 7th Review by SO	35	01-Apr-22 A	06-May-22 A	DDA- 7th Review by SO		
DDA - Further information required by SO	13	07-May-22 A	01-Jun-22 A	DDA - Further information required by SO		
DDA - 8th Sub	0	·	01-Jun-22 A	DDA - 8th Sub		
DDA - 8th Review by SO	35	02-Jun-22 A	27-Jun-22 A	DDA - 8th Review by SO		
DDA - SO Consent for Construction	0	·	27-Jun-22 A	◆ DDA - SO Consent for Construction		
AIP - Kiosk	21 (	04-Dec-21 A	03-Jan-22 A			
AIP - 3rd Review by SO	28 (					
AIP - SO Consent for DDA Submission	0	·	03-Jan-22 A			
DDA - Kiosk	244	04-Jan-22 A	26-Nov-22			
DDA - Draft - Preparation by Designer	36 (	04-Jan-22 A	15-Feb-22 A			
DDA - Draft - Final Review and prepare for 1st Sub	14	16-Feb-22 A	10-Sep-22	DDA - Draft - Final Review and p	prepare for 1st \$ub	
DDA - 1st Sub	0	·	10-Sep-22	DDA - 1st Sub		
DDA - Review by SO	28	11-Sep-22	08-Oct-22		Review by SO	
DDA - Review by IP / DC	28	11-Sep-22	08-Oct-22		Review by IP / DC	
DDA - Further information required by SO		10-Oct-22	22-Oct-22	┊╌╌┊╌╴┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊	DDA - Further information r	equired by SO
DDA - 2nd Sub	0	]	22-Oct-22	┋╌╌┋╌╌┋╌╴┋╌╴┋╌╴┋╌╴┋╌╴┋┼╴┋╌╴┋╴╴┋╴╴╞╴╴┠┇╴╴┋╴╴┋╴╴┋╴╴┋╴╴┋╴╴┋╴╴┋╴╴┋╴╴┊╴╴	◆ DDA - 2nd Sub	
DDA - 2nd Review by SO		23-Oct-22	26-Nov-22	┊╌╌┊╌╴┊╌╴┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴╎┊╴╴┊╴╴╎┊╴╴┊╴╴┊╴╴┊╴╴┊		DDA - 2nd Review by S
DDA - SO Consent for Construction	0	23 000 22	26-Nov-22	┋╌╌┋╌╴┋╌╴┊╌╴┊╴╴┋╴╴┋╴╴┋╴╴┋╴╴┋╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴		<ul> <li>DDA - SO/Consent for/0</li> </ul>
		29-Oct-21 A		┋╌╌┋╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴		
[STE] AIP Kai Hing Road / Lam Chak Street Modification	115	29-001-21 A	21-1Vid1-22 A			
Page 2 of 34	-	1		A Truck Dood TO and Infractructure Marks		hecked Approved
Data Date: 03-Sep-22	1		$\gamma \wedge 1 \circ \mu$	A Trunk Road T2 and Infrastructure Works	9 10071 17714	

Data Date: 03-Sep-22

- Planned Bar Critical Activity
  - Actual Milestone

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

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

Activity Name	Dur Start	Finish	2022	
			April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     17	er 18 25
AIP - Review by IP / DC	28 29-Oct-21 A	17-Jan-22 A		
AIP - Further information required by SO	24 20-Nov-21 A	20-Jan-22 A		
AIP - 2nd Sub	0	20-Jan-22 A		
AIP - 2nd Review by SO	28 21-Jan-22 A	04-Feb-22 A		
AIP - Further information required by SO	24 05-Feb-22 A	18-Feb-22 A	A þý SO	
AIP - 2nd Sub	0	18-Feb-22 A		
AIP - 2nd Review by SO	28 19-Feb-22 A	21-Mar-22 A	A hd Review by SO	
AIP - SO Consent for DDA Submission	0	21-Mar-22 A	A D Consent for DDA Submission	
[STE] DDA KHR Modification - Permanent Utility Design	184 28-Dec-21 A	09-Sep-22		
DDA - Draft - Preparation by Designer	6 28-Dec-21 A	20-Jan-22 A		
DDA - Draft - Final Review and prepare for 1st Sub	6 21-Jan-22 A	31-Jan-22 A		
DDA - 1st Sub	0	31-Jan-22 A		
DDA - Review by SO	28 01-Feb-22 A			
DDA - Review by IP / DC	28 01-Feb-22 A	27-Apr-22 A		
DDA - Further information required by SO	12 12-Mar-22 A	03-May-22 A		
DDA - 2nd Sub	0	03-May-22 A		
DDA - 2nd Review by SO	35 04-May-22 A	27-May-22 A		
DDA - Further information required by SO	24 28-May-22 A	03-Aug-22 A	A DDA - Further information required by SO	
DDA - 3rd Sub	0	03-Aug-22 A		
DDA - 3rd Review by SO	35 04-Aug-22 A	09-Sep-22	DDA- 3rd Review by SO	
DDA - SO Consent for Construction	0	09-Sep-22	◆ DDA - SO ¢ onsent for ¢ onstruction	
[STE] DDA KHR Modification - Alignment, Traffic Sign, Road Marking a				
DDA - Draft - Preparation by Designer	6 03-Jan-22 A	12-Jan-22 A		
DDA - Draft - Final Review and prepare for 1st Sub	6 13-Jan-22 A	17-Jan-22 A		
DDA - 1st Sub	0	17-Jan-22 A		
DDA - Review by SO	28 18-Jan-22 A		A Review by SO	
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DDA - 3rd Sub	0	24-Mar-22 A		
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DDA - 4th Sub	0	03-May-22 A		
DDA - 4th Review by SO	35 04-May-22 A	19-May-22 A		
DDA - Further information required by SO	12 20-May-22 A	02-Jun-22 A	DDA + Further information required by SO	
DDA - 5th Sub	0	02-Jun-22 A	A DDA - 5th Sub	
DDA - 5th Review by SO	35 03-Jun-22 A	16-Jun-22 A	A DDA 5th Review by SQ	
DDA - SO Consent for Construction	0	16-Jun-22 A	A DDA SO Consent for Construction	
[STE] DDA KHR Modification - Roadworks and Street Furniture	207 03-Jan-22 A	14-Sep-22		
DDA - Draft - Preparation by Designer	9 03-Jan-22 A	12-Jan-22 A		
			Date Revision Checked Appr	

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- Planned Bar
- Critical A divity

  Critical Milestone

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur Start	Finish	2022           April         May         June         July         August         September         October         November         December						
	4 40 4 4		03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25						
DDA - Draft - Final Review and prepare for 1st Sub		2 A 17-Jan-22 A							
DDA - 1st Sub	0	17-Jan-22 A							
DDA - Review by SO	28 18-Jan-2								
DDA - Review by IP / DC	28 18-Jan-2								
DDA - Further information required by SO	12 12-Mar-	'							
DDA - 2nd Sub	0	27-Apr-22 A							
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DDA - Further information required by SO	12 28-May-	2 A 10-Aug-22 A	DDA - Further information required by SO						
DDA - 3rd Sub	0	10-Aug-22 A	A DDA - 3rd Sub						
DDA - 3rd Review by SO	35 11-Aug-	2 A 14-Sep-22	DDA - 3rd Review by SO						
DDA - SO Consent for Construction	0	14-Sep-22	◆ DDA - SO Consent for Construction						
	236 28-Dec-								
DDA - Draft - Preparation by Designer	20 28-Dec-	1 A 20-Jan-22 A							
DDA - Draft - Final Review and prepare for 1st Sub	9 21-Jan-2	2 A 31-Jan-22 A							
DDA - 1st Sub	0	31-Jan-22 A							
DDA - Review by SO	28 01-Feb-	2 A 12-Mar-22 A	, þý SO						
DDA - Review by IP / DC	28 01-Feb-	2 A 30-Mar-22 A	DDA - Review by IP / DC						
DDA - Further information required by SO	12 14-Mar-	2 A 30-Mar-22 A	DDA - Further information required by SO						
DDA - 2nd Sub	0	30-Mar-22 A	DDA - 2nd Sub						
DDA - 2nd Review by SO	35 31-Mar-2	2 A 06-Apr-22 A	DDA - 2nd Review by SO						
DDA - Further information required by SO	12 07-Apr-2	2 A 06-Jun-22 A	DDA - Further information required by SO						
DDA - 3rd Sub	0	06-Jun-22 A	◆ DDA - 3rd Sub						
DDA - 3rd Review by SO	35 07-Jun-2	2 A 27-Jun-22 A	DDA - 3rd Review by SO						
DDA - Further information required by SO	12 28-Jun-2	2 A 10-Sep-22	DDA - Further information required by SO						
DDA - 4th Sub	0	10-Sep-22	◆ DDA - 4th/Sub						
DDA - 4th Review by SO	35 11-Sep	2 15-Oct-22	DDA - 4th;Review by SO						
DDA - SO Consent for Construction	0	15-Oct-22	DDA - SO/Consent for Construction						
[STE] DDA Road L10 (N) - Permanent Utility Design	226 18-Dec-	1 A 15-Oct-22							
DDA - 3rd Review by SO	35 18-Dec-2	1 A 05-Jan-22 A							
DDA - Further information required by SO	12 06-Jan-2	2 A 25-Feb-22 A	quired by SO						
DDA - 4th Sub	0	25-Feb-22 A							
DDA - 4th Review by SO	35 26-Feb-	2 A 23-Mar-22 A	4th Review by SO						
DDA - Further information required by SO	12 24-Mar-	2 A 20-Apr-22 A	DDA - Further information required by SO						
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DDA - 5th Review by SO	35 21-Apr-2	2 A 28-May-22 A	DDA - 5th Review by SO						
DDA - Further information required by SO	12 30-May-	2 A 10-Sep-22	DDA - Further information required by SO						
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DDA - SO Consent for Construction	0	15-Oct-22	◆ DDA - SO/C onsent for Construction						
			Date Revision Checked Approved						
Page 4 of 34   Data Date: 03-Sep-22      Planned Bar     Critical A divity    Actual Milestone      Actual Work	E	ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron       BOUYGUES TRAVAUX PUBLICS       Date       Revision       Checked         BOUYGUES Three Months Rolling Programme (Aug-22)       01V1       SPa/LLo       V							

Activity Name	Dur	Start	Finish	2022			
				April         May         June         July         August         Septe           03         10         17         24         01         08         15         22         29         05         12         19         26         03         10         17         24         31         07         14         21         28         04         11			
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Marking and T	211	02-Dec-21 A	06-Jun-22 A				
DDA - Further information required by SO	12	02-Dec-21 A	18-May-22 A	DDA - Further information required by SO			
DDA - 6th Sub	0		18-May-22 A	◆ DDA - 6th Sub			
DDA - 6th Review by SO	35	19-May-22 A	06-Jun-22 A	DDA - 6th Review by SO			
DDA - SO Consent for Construction	0		06-Jun-22 A	◆ DDA - SD Consent for Construction	!		
[STE] DDA Road L10 (N) - Roadworks and Street Furniture	108	07-Dec-21 A	11-Apr-22 A				
DDA - Further information required by SO	12	07-Dec-21 A	16-Mar-22 A	er information required by SO			
DDA - 7th Sub	0		16-Mar-22 A	ир			
DDA - 7th Review by SO	35	17-Mar-22 A	11-Apr-22 A	DDA - 7th Review by SO			
DDA - SO Consent for Construction	0		11-Apr-22 A	DDA - SO Consent f			
SUPPORTING UNDERGROUND STRUCTURE [SUS]	201	17-Dec-21 A	25-Jul-22 A				
DDA SUS - Internal Structure	201	17-Dec-21 A	25-Jul-22 A		I I I I		
DDA - Draft - Preparation by Designer	36	17-Dec-21 A	15-Feb-22 A				
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Feb-22 A	29-Mar-22 A	DDA - Draft - Final Review and prepare for 1st Sub			
DDA - 1st Sub	0		29-Mar-22 A	DDA - 1ist Sub			
DDA - Review by SO	28	30-Mar-22 A	13-Apr-22 A	DDA - Review by SO			
DDA - Review by IP / DC	28	30-Mar-22 A	14-Jul-22 A	DDA - Review by IP / DC			
DDA - Further information required by SO	30	14-Apr-22 A	20-Jul-22 A	DDA - Further information required by SO			
DDA - 2nd Sub	0		20-Jul-22 A	DDA - 2nd Sub			
DDA - 2nd Review by SO	35	21-Jul-22 A	25-Jul-22 A	DDA - 2nd Review by SO			
DDA - SO Consent for Construction	0		25-Jul-22 A	DDA - SO Consent for Construction			
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	358	17-Jul-21 A	15-Oct-22				
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	358	17-Jul-21 A	15-Oct-22				
DDA - Further information required by SO	39	17-Jul-21 A	12-May-22 A	DDA - Further information required by SC			
DDA - 5th Sub	0		12-May-22 A	◆ DDA -5th Sub			
DDA - 5th Review by SO	35	13-May-22 A	08-Jul-22 A	DDA - 5th Review by SD			
DDA - Further information required by SO	24	09-Jul-22 A	10-Sep-22		DA -		
DDA - 6th Sub	0		10-Sep-22	♦ DI	DA -		
DDA - 6th Review by SO	35	11-Sep-22	15-Oct-22				
DDA - SO Consent for Construction	0		15-Oct-22				
Stage 2A Completion	0		15-Oct-22				
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scheme)	358	17-Jul-21 A	15-Oct-22				
DDA - Further information required by SO	39	17-Jul-21 A	12-May-22 A	DDA - Further information required by SO			
DDA - 5th Sub	0		12-May-22 A	◆ DDA - 5th Sub			
DDA - 5th Review by SO	6	13-May-22 A	08-Jul-22 A	DDA - 5th Review by SO			
DDA - Further information required by SO	24	09-Jul-22 A	10-Sep-22		DA -		
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DDA - 6th Review by SO	35	11-Sep-22	15-Oct-22				
DDA - SO Consent for Construction	0		15-Oct-22				
SUB-SEA TBM TUNNEL	319	29-May-21 A	09-Sep-22				

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Critical A divity

 Actual Milestone

Actual Work

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

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

Activity Name	Dur S	Start Finish							2022												
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DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD)	134 29-M	May-21 A 09-Feb-22 A			0. 0.					00 10 11	2.					02					
DDA - Further information required by SO	24 29-Ma	Nay-21 A 06-Jan-22 A		· <del>1</del>					! [												
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DDA Tunnel - General Building Plan	35 16-De	Dec-21 A 05-Jan-22 A		· <del>·</del> · · · · · · · · · · · · · · · · ·				·				·		·							
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FER - Fire Engineering Report (SG Scheme)	234 29-De	Dec-21 A 09-Sep-22						$\frac{1}{1}$						·							
FER - 3rd Review by SO	45 29-De	Dec-21 A 11-Jan-22 A	1	· <del>·</del> · · · · · · · · · · · · · · · · ·				·													
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DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (SG Schem	47 06-No	lov-21 A 05-Jan-22 A												· · · · · · · · · · · · · · · · · · ·							
DDA - 4th Review by SO		Nov-21 A 05-Jan-22 A																			
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CROSS PASSAGE	260 01-S	Sep-21 A 10-Jun-22 A		· · · · · · ·				·													
DDA - Cross Passage - CP TBM Confinement		Sep-21 A 10-Jun-22 A						·							·						
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DDA - 2nd Review by SO	35 29-Ja	an-22 A 26-Mar-22 A	A - 2nd Revie	ew by SO																	,
DDA - Further information required by SO	30 28-Ma	Mar-22 A 21-May-22 A		· · · · · · · · · · · · · · · · · · ·			DDA - Furthe	r information	equirec	by SQ				·							·
DDA - 3rd Sub	0	21-May-22 A				•	DDA - 3rd Su	ıb						·							
DDA - 3rd Review by SO	35 23-M <sup>-</sup>	May-22 A 10-Jun-22 A	-			+		DDA - 3r	d Revie	w by SO		·									
DDA - SO Consent for Construction	0	10-Jun-22 A	+	· <del>·</del> · · · · · · · · · · · · · · · · ·				DDA - S	) Conse	nt for Construction				·							
DDA - Cross Passage - CP TBM - DCRA	260 01-S	Sep-21 A 10-Jun-22 A																			
DDA - Review by IP / DC		Sep-21 A 26-Jan-22 A		· +																	
DDA - Further information required by SO	30 07-00	Oct-21 A 28-Jan-22 A												·			   				
DDA - 2nd Sub	0	28-Jan-22 A						·						·							
DDA - 2nd Review by SO	35 29-Ja	an-22 A 26-Mar-22 A	A - 2nd Revie	ew by SO				·		· · · · · · · · · · · · · · · · · · ·				·							
DDA - Further information required by SO	30 28-Ma	Mar-22 A 21-May-22 A	, <b>-</b>	, , , , , , , , , , , , , , , , , , ,			DDA - Furthe	r information	equirec	by SO											
DDA - 3rd Sub	0	21-May-22 A		· +		•	DDA - 3rd Su	ıb									     				· · · · · · · · · · · · · · · · · · ·
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Page 6 of 34 ♦ ♦ Milestone Planned Bar	,		- <i>.</i> -					<b>-</b> .								Date		Revision 00V1	Checl WYu	.ed Appr	proved

Data Date: 03-Sep-22

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

BOUYGUES TRAVAUX PUBLICS



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	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	Start	Finish							2022							-	
				03	April 10   17	24 01 08	May 15	June July 22 29 05 12 19 26 03 10 17	7 24	August 31 07 14 21 28	September 04 11 18	25	Octob 02 09 1	er 16 23	Novei 30 06 1	mber 3 20	Decemb 27 04 11	ber 18 25
DDA - 3rd Review by SO	35	23-May-22 A	10-Jun-22 A					DDA - 3rd Review by SO	_									
DDA - SO Consent for Construction	0		10-Jun-22 A	·				DDA - SO Consent for Construction	on									
EAST VENTILATION BUILDING [EVB]	360	26-Oct-21 A	17-Jan-23					······							÷			
DDA - EVB - ABWF	258	14-Dec-21 A	22-Nov-22						-       					·   ·     	+		++	
DDA - Draft - Final Review and prepare for 1st Sub	24	14-Dec-21 A	04-Feb-22 A	Sub										·   · · · · · · · · · · ·	*			
DDA - 1st Sub	0		04-Feb-22 A	·										·         	1			
DDA - Review by SO	28	05-Feb-22 A	09-Sep-22							· · · · · · · · · · · · · · · · · · ·	DDA-Re	eview by S	50	· L · · · · · · · · · · ·	$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$			
DDA - Review by IP / DC	28	05-Feb-22 A	31-Jul-22 A							DDA - Review by IP / DC					+			
DDA - Further information required by SO	30	10-Sep-22	18-Oct-22	·								· · · · · · · · · · · · · · · · · · ·		DDA - F	urther informat	ontrequire	l by SO	
DDA - 2nd Sub	0		18-Oct-22		+									DDA - 2				
DDA - 2nd Review by SO	35	19-Oct-22	22-Nov-22								<sup>-</sup>				±	DD	A - 2nd Review b	y SO
DDA - SO Consent for Construction	0		22-Nov-22											· L · · · · · · · · · · ·		♦ DD	A - \$O Consent f	or Construc
DDA - EVB - Aesthetic Design	326	05-Nov-21 A	17-Jan-23												+			
DDA - Review by SO	28	05-Nov-21 A	09-Sep-22				-j	*			DDA - Re	eview by S	50					
DDA - Review by IP / DC	28	05-Nov-21 A	09-Sep-22	·							DDA- Re	eview by II	P/DC	·   · · · · · · · · · · ·	+			
DDA - Further information required by SO	24	10-Sep-22	11-Oct-22	· · · · · · · · · · · · · · · · · · ·								· - •	DD/	A - Furthei	r information rec	uir ed by S	D	
DDA - 2nd Sub	0		11-Oct-22	· J									◆ DDA	A - 2 nd Su				
DDA - 2nd Review by SO	35	12-Oct-22	15-Nov-22												<u>+</u>	DDA - 2n	d Review by SO	
DDA - 2nd Review by IP	35	12-Oct-22	15-Nov-22												+	DDA - 2n	d Review by IP	
DDA - Further information required by SO	24	16-Nov-22	13-Dec-22														DI	DA - Furthe
DDA - 3rd Sub	0		13-Dec-22												•		♦ DI	DA - 3rd Su
DDA - 3rd Review by SO	35	14-Dec-22	17-Jan-23	·										· la · I I I I				
DDA Foot Bridge FT-03 [NEW]	309	26-Oct-21 A	15-Nov-22												+			
DDA - Review by SO	28	26-Oct-21 A	09-Sep-22								DDA-Re	eview by S	50					
DDA - Review by IP / DC	28	26-Oct-21 A	09-Sep-22	·				<del>,</del>		· · · · · · · · · · · · · · · · · · ·	DDA - Re	eview by II	P/DC		+			
DDA - Further information required by SO	24	10-Sep-22	11-Oct-22									· - +	DD/	A - Furthei	r information rec	uired by S	D	
DDA - 2nd Sub	0		11-Oct-22										◆ DD/	A - 2nd Su	lb			
DDA - 2nd Review by SO	35	12-Oct-22	15-Nov-22	· · · · · · · · · · · · · · · · · · ·						·····		· - i		·		DDA - 2n	d Review by SO	
DDA - SO Consent for Construction	0		15-Nov-22											·		DDA - \$C	Consent for Con	nstruction
DDA - EVB - General Building Plan (including SoA) (SG Scheme)	79	04-Dec-21 A	28-Feb-22 A					+++++++++++++++++++++++++++++++							+			
DDA - 3rd Review by SO	35	04-Dec-21 A	28-Feb-22 A												+			
DDA - SO Consent for Construction	0		28-Feb-22 A	nstruction	1									· · · · · · · · · · · ·				
TUNNEL E&M INSTALLATION & COMMISSIONING	440	15-Mar-21 A	30-Dec-22		+													
DDA - E&M Tunnel Ventilation Design (SG Scheme)	187	08-Dec-21 A	09-Sep-22											1				
DDA - 3rd Review by SO	35	08-Dec-21 A	24-Feb-22 A															
DDA - Further information required by SO	42	25-Feb-22 A	16-Jul-22 A					<u>iiiiii.</u>		her information required by SO				L				
DDA - 4th Sub	0		16-Jul-22 A					• D	DA - 4th	\$ub								
DDA - 4th Review by SO	35	18-Jul-22 A	09-Sep-22								DDA - 4tl							
DDA - SO Consent for Construction	0		09-Sep-22								♦ DDA-SC	D Consent	t for Construct	tion				
DDA - E&M Air Purification System (WVB)	349	15-Mar-21 A	09-Sep-22		+		-								+			
Page 7 of 34 ♦ Milestone													Dat	e	Revision	Che	ked Apr	proved

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Planned Bar

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

Activity Name	Dur	Start	Finish						2022					
				April 03 10 17 24 0	May 1 08 15 22		June J 12 19 26 03 10		ugust 14 21 28	Septemb		er 6 23 30 06	November 13 20 27	December 04 11 18 25
DDA - Review by IP / DC	28 1	5-Mar-21 A	03-Mar-22 A											
DDA - Further information required by SO	42 1:	2-May-21 A	10-Mar-22 A	ormation required by SO						· · · · · · · · · · · · · · · · · · ·				
DDA - 2nd Sub	0		10-Mar-22 A											
DDA - 2nd Review by SO	35 1	1-Mar-22 A	12-Apr-22 A	DDA - 2nd Revie	w by SO									
DDA - Further information required by SO	42 1	3-Apr-22 A	15-Jun-22 A				DDA - Further information	on required by SO						
DDA - 3rd Sub	0		15-Jun-22 A				♦ DDA - 3rd \$ub							
DDA - 3rd Review by SO	35 1	6-Jun-22 A	09-Sep-22								3rd Review by SO			
DDA - SO Consent for Construction	0		09-Sep-22							◆ DDA-	SO Consent for Construct	on		
DDA - E&M Fire Services Installation			09-Sep-22											
DDA - Review by IP / DC			10-Feb-22 A											
DDA - Further information required by SO	32 (	)7-Jul-21 A		P										
DDA - 2nd Sub	0		11-Feb-22 A											
DDA - 2nd Review by SO	35 1	2-Feb-22 A	26-Mar-22 A	A - 2nd Review by SO										
DDA - Further information required by SO	32 2	8-Mar-22 A	14-Apr-22 A		nformation required	l by SO								
DDA - 3rd Sub	0		14-Apr-22 A	DDA - 3rd Sub										
DDA - 3rd Review by SO	35 1	5-Apr-22 A	09-Sep-22			·					3rd Review by SO			
DDA - SO Consent for Construction	0		09-Sep-22							◆ DDA -	SO Consent for Construct	on		
DDA-E&M MVAC		7-Dec-21 A				·								
DDA - Further information required by SO	32 1	7-Dec-21 A	21-Feb-22 A	ed by SO										
DDA - 3rd Sub	0		21-Feb-22 A											
DDA - 3rd Review by SO	35 2	2-Feb-22 A	23-Mar-22 A	- 3rd Review by SO										
DDA - Further information required by SO		4-Mar-22 A (	-		🗖 🗄 DDA - Further in	information requ	ired by SO							
DDA - 4th Review by SO	35 0	5-May-22 A					A - 4th Review by SO							
DDA - 4th Sub	0		06-May-22 A		◆ DDA - 4th \$ub									
DDA - SO Consent for Construction	0		06-Jun-22 A			◆ DD	A - SO Consent for Construc	tion						
DDA - E&M Plumbing & Drainage System			15-Oct-22			·				-				
DDA - 2nd Review by SO			24-Jan-22 A					· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	·	
DDA - Further information required by SO		5-Jan-22 A	-				r information required by SO	·						
DDA - 3rd Sub	0		26-May-22 A			DDA - 3rd Su	ID							
DDA - 3rd Review by SO		-	15-Jul-22 A					DDA - 3rd Review by S	0					
DDA - Further information required by SO			10-Sep-22								- Further information requi	ed by SO		
DDA - 4th Sub	0		10-Sep-22							◆ DDA				
DDA - 4th Review by SO		· · ·	15-Oct-22								iii	DDA - 4th Review by		
DDA - SO Consent for Construction	0		15-Oct-22								] 🔶	DDA - SO Consent fo	or Construction	
DDA - E&M Electrical Installation			15-Oct-22											
DDA - Review by IP / DC			19-Jan-22 A											
DDA - Further information required by SO		5-Aug-21 A												
DDA - 2nd Sub	0		19-Jan-22 A											
DDA - 2nd Review by SO	35 2	0-Jan-22 A	24-Feb-22 A											
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Actual Work

Critical A divity

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

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

tivity Name	Dur Start	Finish		2022			
			April         May         June         July           03         10         17         24         01         08         15         22         29         05         12         19         26         03         10         17         24         31	August 07 14 21 28	September 8 04 11 18 25 02	October         November           09         16         23         30         06         13         20	December           27         04         11         18         25
DDA - Further information required by SO	33 25-Feb-22 A	25-May-22 A	DDA - Further information required by SO				
DDA - 3rd Sub	0	25-May-22 A	◆ DDA - 3rd Sub				
DDA - 3rd Review by SO	35 26-May-22 A	21-Jun-22 A	DDA - 3rd Review by SO				
DDA - Further information required by SO	33 22-Jun-22 A	10-Sep-22		· · · · · · · · · · · · · · · · · · ·	DDA - Further informat	ion required by SO	
DDA - 4th Sub	0	10-Sep-22		······································	◆ DDA - 4th Sub		
DDA - 4th Review by SO	35 11-Sep-22	15-Oct-22				DDA - 4th Review by SO	
DDA - SO Consent for Construction	0	15-Oct-22				DDA - SO/Consent for Construction	
DDA - Further information required by SO	34 11-Dec-21 A	10-Feb-22 A					
DDA - 4th Sub	0	10-Feb-22 A					
DDA - 4th Review by SO	35 11-Feb-22 A	28-Feb-22 A					
DDA - SO Consent for Construction	0	28-Feb-22 A	nstruction				
	247 29-Nov-21 A						
· ·	12 29-Nov-21 A	13-Jan-22 A					
DDA - 1st Sub	0	13-Jan-22 A					
DDA - Review by SO	28 14-Jan-22 A	07-Feb-22 A					
DDA - Review by IP / DC	28 14-Jan-22 A	07-Feb-22 A		· · · · · · · · · · · · · · · · · · ·			
DDA - Further information required by SO	24 08-Feb-22 A	11-May-22 A	DDA - Further information required by SO				
DDA - 2nd Sub	0	11-May-22 A	DDA - 2nd Sub				
DDA - 2nd Review by SO	35 12-May-22 A	09-Jun-22 A	DDA + 2nd Review by SO				
DDA - Further information required by SO	24 10-Jun-22 A	10-Sep-22		<u>-</u>	DDA - Further informat	ion required by SO	
DDA - 3rd Sub	0	10-Sep-22			• DDA - 3rd Sub		
DDA - 3rd Review by SO	35 11-Sep-22	15-Oct-22				DDA - 3rd Review by \$O	
DDA - SO Consent for Construction	0	15-Oct-22				DDA - SO/Consent for Construction	
DDA-E&MCMCS	226 04-Dec-21 A	14-Oct-22					
DDA - Review by IP / DC	36 04-Dec-21 A	31-May-22 A	DDA - Review by IP / DC				
DDA - Further information required by SO	24 23-Dec-21 A	06-Jun-22 A	DDA - Further information required by SO				
DDA - 2nd Sub	0	06-Jun-22 A	DDA - 2nd Sub				
DDA - 2nd Review by SO	35 07-Jun-22 A	08-Jul-22 A	DDA- 2nd Review by S	SO			
DDA - Further information required by SO	24 09-Jul-22 A	09-Sep-22			DDA - Further information	on required by SO	
DDA - 3rd Sub	0	09-Sep-22			◆ DDA - 3rd \$ub		
DDA - 3rd Review by SO	35 10-Sep-22	14-Oct-22				DDA - 3rd Review by SO	
DDA - SO Consent for Construction	0	14-Oct-22				◆ DDA - SO Consent for Construction	
AIP - Civil Provision for TCSS	64 15-Oct-22	30-Dec-22					
AIP - Draft - Preparation by Designer	22 15-Oct-22	09-Nov-22				AIP - Draft - I	Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12 10-Nov-22	23-Nov-22					NP - Draft - Final Review and
AIP - 1st Sub	0	23-Nov-22				•	NP - 1st Sub
AIP - Review by SO	28 24-Nov-22	21-Dec-22					AIP
AIP - Review by IP / DC	28 24-Nov-22	21-Dec-22					AIP -

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

Activity Name	Dur Start	Finish							2022							
			April 03 10 17 24	May 01 08 15	5 22 29	June 05 12 19 2	Ju 26 03 10	ly 17 24	Augus 31 07 14		September 8 04 11 18		October 09 16 23	No 30 06	vember 13 20 27 04	December 4 11 18 25
AIP - Update & prepare for 2nd Sub	6 22-Dec	22 30-Dec-22														
PAYMENT MILESTONE	424 13-Jan-2	2 A 29-Dec-22														
1.1 Preliminaries and General Requirements	98 13-Jan-2	· · ·														
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 26	0	13-Jan-22 A							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 27	0	14-Feb-22 A	s Cost Centre 1 Month 2	27												
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 28	0	14-Mar-22 A	ly Remaining value of th	s Cost Centre 1	Vonth 28			÷								
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 29	0	13-Apr-22 A	◆ 1.1.42 Mor	thly Remaining va	alue of this Cos	Centre 1 Month 29										
3.1 for Trunk Road T2	175 13-Jan-2	2 A 13-Aug-22 A														
3.1 .50 Approval AIP for completion of SUS	0	13-Jan-22 A														
3.1.52 Approval DDA for completion of SUS	0	13-Aug-22 A						±	<b>•</b> 3.	1 52 Appro	va DDA for comple	etion of SUS				
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (Southe	0 13-Jan-2	2 A 13-Jan-22 A						+								
3.3 .16 Approval DDA for waterworks	0	13-Jan-22 A														
3.4 for the Remaining Stage 5 Infrastructure Works - FT02	51 13-Jan-2	2 A 14-Mar-22 A						+								
3.4 .10 Approval DDA for modification of existing footbridge	0	13-Jan-22 A														
3.4 .12 Approval Demolition plan for existing footbridge	0	14-Mar-22 A	wal Demolition plan for e	xisting footbridge		· · · · · · · · · · · · · · · · · · ·								T		
3.4.13 Complete whole activities of this cost centre	0	14-Mar-22 A	lete whole activities of the	nis cost centre				+						+		
3.5 for Lam Chak Street and Kai Hing Road	3 09-Sep	22 14-Sep-22							L J							
3.5 .12 Approval DDA for storm water drainage works	0	09-Sep-22									♦ 3.5 .12 /	pproval DDA for	stormwater drair	age works		
3.5 .16 Approval DDA for waterworks	0	09-Sep-22						+			♦ 3.5 .16 /	pproval DDA for	waterworks	+		
3.5 .20 Approval DDA for sewage works	0	09-Sep-22				· +					◆ 3.5 .20 /	Approval DDA for	sewage works			
3.5 .8 Approval DDA for roadworks	0	14-Sep-22						+		-+	♦ 3.5	.8 Approval DDA	for roadworks	+		
3.5 .24 Approval DDA for landscape works	0	14-Sep-22									♦ 3.5	.24 Approval DDA	A for landscape v	vorks		
3.5 .25 Complete whole activities of this cost centre	0	14-Sep-22						±			♦ 3.5	.25 Complete who	ole activities of th	his cost centr	9	
3.6 for Road L10 (Northern Section)	0 03-Sep	22 03-Sep-22						+	<u>-</u>			++-				
3.6 .8 Approval DDA for Road L10 (northern section)	0	03-Sep-22*									🔶 3.6 .8 Approv	al DDA for Road I	L10 (northern se	ction)		
3.6 .9 Complete whole activities of this cost centre	0	03-Sep-22*				+++++++++		+			◆ 3.6 .9 Comple	te whole activities	s of this cost cen	tre		
3.9 for the Pipelines for District Cooling System for Commissioning of	0 03-Sep	22 03-Sep-22							 	- +						
3.9.11 Submit O&M manual for DCS pipelines	0	03-Sep-22						+	ii 		🔶 3.9.11 Submi	O&M manual for	DCS pipelines			
4.1 South Apron Adits from Interface with the Depressed Road to the Ir	32 19-Nov	22 29-Dec-22						+								
4.1.1 Complete mobilization of excavation equipment 0.5	0	19-Nov-22													◆ 4.1.1 Complete	e mobilization of exca
4.1.3 Complete excavation of South Apron Adist 0.2	0	03-Dec-22							L J L I						◆ 4.	1.3 Complete excava
4.1.4 Complete excavation of South Apron Adist 0.4	0	06-Dec-22						+							•	4.1.4 Complete exc
4.1.8 Complete South Apron Adist permanent structure 0.2	0	07-Dec-22						+							•	4.1.8 Complete So
4.1.5 Complete excavation of South Apron Adist 0.6	0	08-Dec-22				· · · · · · · · · · · · · · · · · · ·		+								♦ 4.1.5 Complete ex
4.1.6 Complete excavation of South Apron Adist 0.8	0	10-Dec-22												+		♦ 4.1.6 Complete
4.1.7 Complete excavation of South Apron Adist 1	0	12-Dec-22						±								◆ 4.1.7 Complet
4.1.9 Complete South Apron Adist permanent structure 0.4	0	21-Dec-22				· · · · · · · · · · · · · · · · · · ·		<u>+</u>	- - - - - - - - - - - - -							♦ 4.1.9 (
4.1.13 Complete backfill at South Apron Adist 0.2	0	29-Dec-22						+								•
4.2 Depressed Road and Remaining Ventilation Adits at the South Apro	0 03-Sep	22 03-Sep-22														
4.2 .23 Complete foundation of Depressed Road by length 1	0	03-Sep-22*						<b>T</b>			🔶 4.2 .23 Comp	lete foundation of	Depressed Roa	d by length		

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



Three Months Rolling Programme (Aug-22)

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

Activity Name	Dur	Start	Finish						2022					
				April	May 24 01 08 15 2			July D   17   24   31   07	August 14 21 28 04	September	October	Nove 30 06 1	mber	December
4.2.31 Complete permanent structure of Depressed Road by length 1	0		03-Sep-22*						◆ 4.	2.31 Complete per	manent structure of Depre	essed Road by	length 1	
5.2 Completion of SUS	57	14-Oct-22	20-Dec-22									+		
5.2.5 Complete overhead ventilation duct slab by length 0.1	0		14-Oct-22								◆ 5.2 .5 Com	plete overhead	ventilation duct slab l	by length 0.1
5.2 .6 Complete overhead ventilation duct slab by length 0.2	0		05-Nov-22									◆ 5.2.6 C	complete overhead ve	entilation duct slab l
5.2.7 Complete overhead ventilation duct slab by length 0.3	0		28-Nov-22	- <u>-</u> <u>-</u> <u>+</u>								<u>+</u>	◆ 5.2 .7 C	omplete overhead
5.2.8 Complete overhead ventilation duct slab by length 0.4	0		20-Dec-22	- <mark>1</mark>								1		◆ 5.2 .8 C
6.2 TBM Tunnel	52	26-Oct-22	28-Dec-22	•								+		
6.2.31 Complete TBM Tunnel overhead ventilation duct slab 0.1	0		26-Oct-22	· · · · · · · · · · · · · · · · · · ·							•	6.2.31 Complet	e TBM Tunnel overho	ead ventilation duct
6.2.7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		05-Nov-22	· · · · · · · · · · · · · · · · · · ·								♦ 6.2.70	complete excavation	& installation of TBI
6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		19-Nov-22	·								+	♦ 6.2 .8 Complete	e excavation & insta
6.2 .24 Complete TBM Tunnel waterproofing 0.4	0		19-Nov-22	· J									♦ 6.2 .24 Complet	te TBM Tunnel wate
6.2 .41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1	0		29-Nov-22	- J I I I I I I I I I I I I I I I									♦ 6.2.41	Complete TBM Tu
6.2.9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0		30-Nov-22	·								+	<b>•</b> 6.2 .9	Complete excavati
6.2.32 Complete TBM Tunnel overhead ventilation duct slab 0.2	0		05-Dec-22										<b>◆</b> 6.	.2.32 Complete TB
6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5	0		12-Dec-22									+		◆ 6.2 .10 Comple
6.2.25 Complete TBM Tunnel waterproofing 0.5	0		12-Dec-22	- J										◆ 6.2 .25 Compl∉
6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55	0		19-Dec-22	- <mark>1 1</mark> 1 1 1 1 1 1 1 1 1 1 1 1 1										♦ 6.2 .11 (
6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6	0		28-Dec-22	- <mark>1</mark>									·	•
6.2 .26 Complete TBM Tunnel waterproofing 0.6	0		28-Dec-22											•
6.3 Cross Passages for TBM Tunnel	40	21-Oct-22	07-Dec-22											
6.3.5 Complete Ground treatment for all Cross Passages 0.2	0		21-Oct-22								◆ 6.3 .	5 Complete Gro	und treatment for all	Cross Passages 0.
6.3.14 Complete excavation and support of Cross Passages 0.1	0		03-Nov-22									♦ 6.3 .14 C	omplete excavation a	and support of Cros
6.3 .6 Complete Ground treatment for all Cross Passages 0.3	0		30-Nov-22	- <u>1</u> <sup>1</sup> <u>1</u> 1 1 1 1 1 1 1 1 1 1									• 6.3.6	Complete Ground
6.3.15 Complete excavation and support of Cross Passages 0.2	0		07-Dec-22										•	6.3.15 Complete ε
7.1 Western Ventilation Building	75	13-Jun-22 A	30-Sep-22											
7.1.5 Complete pile foundation for WVB 0.5	0		13-Jun-22 A	· · · · · · · · · · · · · · · · · · ·		•	7.1.5 Complete pile foun	ndation for WVB 0.5					·	
7.1.6 Complete pile foundation for WVB 1	0		18-Jun-22 A				♦ 7.1 6 Complete pile	e foundation for WVB 1						
7.1.7 Complete concrete works of gross plan area for WVB 0.25	0		30-Sep-22	- J  I I I I I I I I I I I I I			·				7.1 .7 Complete concre	ete works of gros	ss plan area for WVB	0.25
8.1 Eastern Ventilation Building	0	03-Sep-22	03-Sep-22	- <u>-</u> <u>-</u> <u>-</u>	· · · · · · · · · · · · · · · · · · ·							+	·	
8.1.3 Complete excavation for EVB 1	0		03-Sep-22						◆ 8.	1 3 Complete exca	vation for EVB 1			
9.1 Launching Shaft	24	19-Nov-22	17-Dec-22											
9.1.18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0		19-Nov-22										• 9.1 18 Comple	te permanent wall &
9.1.19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0		17-Dec-22											♦ 9.1 .19 Cc
11.1 Drill and Break Tunnel	244	12-Feb-22 A	21-Dec-22									+		
11.1.2 Complete tunnel excavation 0.3 by length	0		12-Feb-22 A	y length										
11.1.2 Complete tunnel excavation 0.4 by length	0		13-May-22 A		◆ 11.1.2 C		cavation 0.4 by length							
11.1.2 Complete tunnel excavation 0.5 by length	0		13-Jun-22 A			•		excavation 0.5 by length						
11.1.3 Complete tunnel excavation 0.6 by length	0		13-Jul-22 A					11.1.3 Complete tunnel	excavation 0.6 by lengtl	h				
11.1.5 Complete tunnel excavation 0.7 by length	0		13-Oct-22								♦ 11.1.5 Com	1 1 1 1 1	avation 0.7 by length	
11.1.7 Complete tunnel excavation 0.8 by length	0		05-Nov-22									◆ 11.1.7	Complete tunnel exca	avation 0.8 by leng
Page 11 of 34 ♦ Milestone					·						Date	Revision	Checked	Approved
Page 11 01 54 Planned Bar			0010/0		Dood TO	nd Infr	otructure				18-Dec-19 (	)0V1	WYu	

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

Activity Name	Dur	Start	Finish	2022
				April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
11.1.9 Complete tunnel excavation 0.9 by length	0		29-Nov-22	
11.1.11 Complete tunnel excavation 1 by length	0		21-Dec-22	2 11.1
12.1 Drill and Blast Tunnel	177	14-Mar-22 A	13-Apr-22 A	
12.1.10 Complete tunnel excavation 0.9 by length	0		14-Mar-22 A	A plete tunnel excavation 0.9 by length
12.1.11 Complete tunnel excavation 1 by length	0		13-Apr-22 A	A • 12.1.11 Complete tunnel excavation 1 by length
13.1 Lam Tin Interchange Works	51	20-Oct-22	19-Dec-22	
13.1.1 Complete foundation	0		20-Oct-22*	* 13.1.1 Complete foundation
13.1.2 Complete fabrication of structural frame	0		19-Dec-22*	* 13.1.2
15.0 E&M Design Works	187	13-Jan-22 A	15-Oct-22	
15.0.25 Submit DDA for Tunnel lighting system	0		13-Jan-22 A	A
15.0.26 Approval DDA for Tunnel lighting system	0		15-Oct-22	◆ 15.0.26 Approval DDA for Tunnel lighting system
15.2 E&M Works for Western Ventilation Building	2	13-Jul-22 A	13-Jul-22 A	
15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0		13-Jul-22 A	A 15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc 0.5
15.2.9 Complete UG pipeworks from sumpit to manhole 0.5	0		13-Jul-22 A	A 15.2.9 Complete UG pipeworks from sumplit to manhole 0.5
15.4 APS Works for Western Ventilation Building	0	17-Sep-22	17-Sep-22	
15.4 .1 Complete site delivery of DeNO2 filters	0		17-Sep-22*	★ 15.4: .1 Complete site delivery of DeNO2 filters
15.4.3 Complete site delivery of electrostatic precipitation system	0		17-Sep-22*	★ 15.4 .3 Complete site delivery of electrostatic precipitation system
15.4.5 Complete site delivery of wash down system	0		17-Sep-22*	◆ 15.4 .5 Complete site delivery of wash down system
15.4.7 Complete site delivery of support system	0		17-Sep-22*	* 15.4.7 Complete site delivery of support system
17.1 Works under Sections 6A, 6C and 12 and Associated Landscape	84	03-Sep-22	14-Dec-22	
17.1.13 Complete footpath 0.25	0		03-Sep-22	2 • 17.1.13 Complete foo tpath 0.25
17.1.15 Complete footpath 0.8	0		27-Sep-22	2 ◆ 17.1.15 Complete footpath 0.8
17.1.17 Complete street furnitures of at-grade roads 0.25	0		30-Sep-22	2 • 17.1 17 Complete street furnitures of at-grade roads 0.25
17.1.16 Complete footpath 1	0		19-Oct-22	
17.1 .56 Complete landscaping works 0.5	0		03-Nov-22	2 • 17.1.56 Complete landscaping works 0.5
17.1 .19 Complete street furnitures of at-grade roads 0.8	0		21-Nov-22	2 • 17;1.19 Complete street furnitu
17.1.57 Complete landscaping works 0.8	0		24-Nov-22	2 ♦ 17.1.57 Complete landscapi
17.1.20 Complete street furnitures of at-grade roads 1	0		14-Dec-22	2 • 17.1.20 Cd
17.1.58 Complete landscaping works 1	0		14-Dec-22	2 • 17.1.58 C
17.1.60 Complete whole activities of this cost centre 1	0		14-Dec-22	2 ◆ 17.1.60 Cd
17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As	54	13-Oct-22	14-Dec-22	
17.2.1 Complete irrigation system 0.3	0		13-Oct-22	◆ 17.2.3 Complete irrigation system 0.3
17.2.2 Complete irrigation system 0.6	0		03-Nov-22	2 ♦ 17.2.2 Complete irrigation system 0.6
17.2.3 Complete irrigation system 1	0		24-Nov-22	2 ♦ 17.2.3 Complete irrigation s
17.2.4 Complete whole activities of this cost centre 1	0		14-Dec-22	2 • 17.2.4 Co
17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V	161	13-Apr-22 A	14-Dec-22	
17.5.11 Complete concrete works of pile caps 0.5	0		13-Apr-22 A	
17.5.16 Complete concrete works of piers 0.25	0		13-May-22 A	A 17.5 16 Complete concrete works of piers 0.25
17.5.17 Complete concrete works of piers 0.5	0		13-Jun-22 A	A 17.5.17 Complete concrete works of piers 0.5
17.5.18 Complete concrete works of piers 0.8	0		10-Sep-22	2 • 17.5.18 Complete concrete works of piers 0.8
	;	·		

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

Activity Name	Dur	Start	Finish		
					April     May     June     July     August     September     October     November     December       0     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
17.5.29 Complete lift shaft A and B 0.5	0		27-Sep-22		◆ 17.5.29 Complete lift shaft A and B 0.5
17.5.21 Complete concrete works of deck 0.25	0		05-Oct-22		◆ 17.5.21 Complete concrete works of deck 0.25
17.5.25 Complete prestressing works of deck 0.25	0		05-Oct-22		◆ 17.5.25 Complete prestressing works of deck 0.25
17.5 .12 Complete concrete works of pile caps 0.8	0		18-Oct-22		◆ 17.5.12 Complete concrete works of pile caps 0.8
17.5 .30 Complete lift shaft A and B 1	0		19-Oct-22		◆ 17.5.30 Complete lift shaft A and B 1
17.5.13 Complete concrete works of pile caps 1	0		23-Nov-22		◆ 17.5 .13 Complete concrete wc
17.5.22 Complete concrete works of deck 0.5	0		14-Dec-22		◆ 17.5.22 Cor
17.5.26 Complete prestressing works of deck 0.5	0		14-Dec-22		◆ 17.5.26 Cor
21.3 Establishment Works for Improvement Works at the Junction of H	0	16-Dec-22	16-Dec-22		
21.3.2 Complete establishment works for 6 mths completion of softworks	0		16-Dec-22		◆ 21.3 2 Cor
21.5 Establishment Works for Improvement Works at the Junctions of	72	13-Apr-22 A	13-Apr-22 A		
21.5.3 Complete establishment works for 9 mths completion of softworks	0		13-Apr-22 A	•	21.5.3 Complete establishment works for 9 mths completion of softworks
21.5.4 Complete whole activities of this cost centre	0		13-Apr-22 A	•	21.5.4 Complete whole activities of this cost centre
22.1 Pipelines for District Cooling System for Commissioning of AMAV	415	13-Jan-22 A	13-Jul-22 A		
22.1.3 Complete DCS installation length 0.8	0		13-Jan-22 A		
22.1.5 Complete T&C of DCS system 1	0		13-Jun-22 A		◆ 22.1.5 Complete T&C of D/CS system 1
22.1.6 Complete whole activities of this cost centre 1	0		13-Jul-22 A		◆ 22.1.6 Complete whole activities of this cost centre 1
34.1 Common Utilities Enclosure (CUE) under Section 6A of the Works	0	14-Dec-22	14-Dec-22		
34.1.19 Complete whole activities of this cost centre 1	0		14-Dec-22		◆ 34.1.19 Cor
34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works	78	13-Aug-22 A	22-Dec-22		
34.2.4 Complete concrete works of base slab of CUE 0.5	0		13-Aug-22 A		♦ 34.2.4 Complete concrete wprks of base slab of CUE 0.5
34.2 .8 Complete concrete works of walls of CUE 0.5	0		30-Sep-22		• 34.2 8 Complete concrete works of walls of CUE 0.5
34.2 .12 Complete concrete works of top slab of CUE 0.5	0		26-Oct-22		◆ 34 2 .12 Complete concrete works of top slab of CUE C
34.2 .2 Complete excavation of CUE	0		23-Nov-22		◆ 34.2.2 Complete excavation of
34.2.9 Complete concrete works of walls of CUE 0.75	0		22-Dec-22		◆ 34.2.
35 Services Gallery	167	13-Apr-22 A	21-Dec-22		
35.16 Complete 20% of total length (measured on plan) of SG structures in Drill-and-Break and Drill-and-Blast Tunnel	0		13-Apr-22 A	•	35.16 Complete 20% of total length (measured on plan) of SG structures in Drill-and-Break and Drill and Blast Tunnel
35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basement of East Ventilation Building	0		13-Apr-22 A	•	35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basement of East Ventilation Building
35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basement of East Ventilation Building	0		13-Jun-22 A		35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basement of East Ventilation Building
35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Basement of East Ventilation Building	0		03-Sep-22		♦ 35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Basement of East V
35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and ancillaries in TBM Tunnel	0		13-Oct-22		◆ 35.21 Complete 10% of total length (measured on plan) of Services
35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Break	0		29-Oct-22		◆ 35.14 Complete 80% of total length (measured on pla
and Drill-and-Blast Tunnel 35.35 Complete concreting works of 25% of the total gross plan area for the Lower	0		31-Oct-22		◆ 35.35 Complete concreting works of 25% of the tota
Basement of East Ventilation Building 35.22 Complete 20% of total length (measured on plan) of Services Gallery structures and	0		11-Nov-22		◆ 35.22 Complete 20% of total length (meas
ancillaries in TBM Tunnel 35.23 Complete 30% of total length (measured on plan) of Services Gallery structures and	0		10-Dec-22		◆ 35.23 Complete
ancillaries in TBM Tunnel 35.15 Complete 100% of total length (measured on plan) of SG excavation in	0		21-Dec-22		◆ 35.15
Drill-and-Break and Drill-and-Blast Tunnel SOUTH APRON EXTERNAL WORKS	892	21-Oct-21 A	24-Oct-24		
Road S20		21-Oct-21 A	11-Mar-24		
CUE (Section 6A)	213	28-Dec-21 A	17-Aug-22 A		
CKR Crossing	40	30-May-22 A	05-Jul-22 A		
BS/E&M	40	30-May-22 A	05-Jul-22 A		
Page 13 of 34   Milestone					Date Revision Checked Approved
Data Date: 03-Sep-22		ED/2	2018/0	)4 Tru	runk Road T2 and Infrastructure Works
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Activ	vity Name	Dur	Start	Finish	2022
					April         May         June         July         August         September           03         10         17         24         01         08         15         22         29         05         12         19         26         03         10         17         24         31         07         14         21         28         04         11         1
	CUE L10(N) Watermain (100m, 30m/wk)	40	30-May-22 A	05-Jul-22 A	CUE L10(N) Watermain (100m, 30m/wk)
	Entrance	188	28-Dec-21 A	17-Aug-22 A	
	Structure	30		11-Apr-22 A	
	Entrance - Waterproofing, Backfill & Remove S1	9	28-Dec-21 A	07-Jan-22 A	
	Entrance - Structure (Wall & Top Slab)	15	08-Jan-22 A	25-Jan-22 A	
	Entrance - Strength & Falsework dismantle	6	26-Jan-22 A	11-Apr-22 A	Entrance - Strength & Falsework dismantle
	BS/E&M	72	11-Apr-22 A	17-Aug-22 A	
	Entrance - E&M Installation	72		17-Aug-22 A	Entrance - E&M Installation
	Junction	194	28-Dec-21 A	23-Jul-22 A	
	Structure	147	28-Dec-21 A	17-May-22 A	
	Junction - Structure (Wall & Top Slab)	12	28-Dec-21 A	19-Apr-22 A	Junction - Structure (Wall & Top \$lab)
	Junction - Waterproofing, Backfill & Remove S2	9	20-Apr-22 A	30-Apr-22 A	Junction - Waterproofing, Backfill & Remove S2
	Junction - Waterproofing, Backfill & Remove S1	9	30-Apr-22 A	10-May-22 A	Junction - Waterproofing, Backfill & Remove S1
	Junction - Strength & Falsework dismantle	6	11-May-22 A	17-May-22 A	Junction - Strength & Falsework dismantle
	BS/E&M	45	24-May-22 A	23-Jul-22 A	
	Junction - E&M1st Fix Installation	18	24-May-22 A	14-Jun-22 A	Junction - E&M1st Fix Installation
	Junction - E&M Installation	24	15-Jun-22 A	12-Jul-22 A	Junction - E&M Installation
	Junction - Backfill	12	12-Jul-22 A	23-Jul-22 A	Junçtion - Backfill
	S20 (Section 6A)	708	21-Oct-21 A	11-Mar-24	
	Future Carriageway - Stage 3	289	21-Oct-21 A	27-Aug-22 A	
	S20 Stage 3 (Drainage & Watermain near CUE)	30	21-Oct-21 A	20-May-22 A	S20 Stage 3 (Drainage & Watermain near CUE)
	S20 Stage 3 (Catchpit, Gully)	24	24-May-22 A	21-Jun-22 A	S20 Stage 3 (Catchpit, Gully)
	S20 Stage 3 (Watermain)	36	22-Jun-22 A	30-Jul-22 A	S20 Stage 3 (Watermain)
	S20 Stage 3 (Roadworks)	24	01-Aug-22 A	27-Aug-22 A	S20 Stage 3 (Road
	Future Amenity Area (Gas Station Side)	331	21-Oct-21 A	30-Nov-22	
	Gas Station Side (Gully & Planter)	36	21-Oct-21 A	07-Jan-22 A	
	S20 Stage 2 (Roadworks) (Gas Station Side)	24	05-Sep-22	05-Oct-22	
	Gas Station Side (Landscape)	48	06-Oct-22	30-Nov-22	
	Future Footpath	650	18-Mar-22 A	11-Mar-24	
	Watermain diversion (Part 1 - CKR side)	24	18-Mar-22 A	06-Aug-22 A	Watermain diversion (Part 1 - CKR isid
	Watermain diversion (Part 2 - AMAWBC side)	24	03-Apr-22 A	04-Jun-22 A	Watermain diversion (Part 2 - AMAWBC side)
	CLP 11kV diversion (Part 2 - AMAWBC side)	24	06-Jun-22 A	20-Jul-22 A	CLP 11 kV diversion (Part 2 - AMAWBC side)
	Utilities undertaker for AMAWBC (Part 1 - CKR side)	24	21-Jul-22 A	07-Aug-22 A	Utilities undertaker for AMAWBC (Par
	Utilities undertaker for AMAWBC (Part 2 - AMAWBC side)	24	08-Aug-22 A	20-Aug-22 A	Utilities undertaker for AM
	Footpath / U channel / planter (Part 1 - CKR side)	36	22-Aug-22 A	05-Oct-22	
	Footpath / U channel / planter (Part 2 - AMAWBC side)	36	05-Sep-22	19-Oct-22	
	Landscape softwork (Part 1 - CKR side)	48	06-Oct-22	30-Nov-22	
	Landscape softwork (Part 2 - AMAWBC side)	48	20-Oct-22	14-Dec-22	
	Section 9A Completion	0		14-Dec-22	
	Section 6A Completion	0		14-Dec-22	
	Road S20 - Establishment Period	365	15-Dec-22	11-Mar-24	
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

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Three Months Rolling Programme (Aug-22)

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Activity Name	Dur	Start	Finish						2022				
				April	May 01 08 15	22 29 05	June 12 19 26	July 5 03 10 17 24	August	September 8 04 11 18 25 1	October 02 09 16 23	November           30         06         13         20	December 27 04 11 18 25
AMAWBC	287 2	26-Nov-21 A	19-Oct-22	10 17 24	00 13		12 17 20						
Drainage & Sewerage	287 2	26-Nov-21 A	19-Oct-22			·····							
Section B		11-Feb-22 A											
Section B (Drainage & Sewerage) Sheetpile (180m2, 55m2/d)	29 1	11-Feb-22 A	01-Apr-22 A	I Section B (Drainage &	1 1 1								
Section B (Drainage & Sewerage) Excavation	26 0	02-Apr-22 A	21-May-22 A			Section B (Drain							
Section B (Drainage & Sewerage) (80m, 30m/wk)	16 1	13-Apr-22 A	02-Jul-22 A					Section B (Drainage	&\$ewetage) (80m, 30m/wk)				
Section B (Drainage & Sewerage) Backfill	10 C	04-Jul-22 A	26-Jul-22 A						Section B (Drainage & Sewer	age) Backfill			
Section D		26-Nov-21 A	19-Oct-22										
L18 (Drainage) (3 manhole) SMH1.10-1.12	18 2	26-Nov-21 A	07-Jan-22 A										
L18 (Drainage) Backfill	10 1	15-Jan-22 A											
Section 6A Completion	0		19-Oct-22								◆ Section	6A Completion	
Overall		)3-Jan-22 A	0										
L10/L18 (Drainage) Sheet pile	35 0	)3-Jan-22 A	15-Feb-22 A										
L10/L18 (Drainage) Excavation	36 1	16-Feb-22 A	29-Mar-22 A	L10/L18 (Drainage) Exca	vation								
L10/L18 (Drainage) (4 manhole) SMH1.6-1.9	24 3	80-Mar-22 A	20-Jul-22 A	·		<u>+</u>			/L18 (Drainage) (4 manhole) SI				
L10/L18 (Drainage) Backfill	10 2	21-Jul-22 A	24-Aug-22 A			÷			L10,	L18 (Drainage) Backfill			
Outfall 1	112 1	0-Mar-22 A	19-Oct-22										
Slab Breaking	4 1	10-Mar-22 A	15-Mar-22 A	)									
Outfall 1 - Sheetpiling (235m2)	4 2	28-Mar-22 A	10-May-22 A		Outfall 1	- Sheetpiling (235	m2)						
Outfall 1 - Excavation to S1 (+4.7 to + 3.7, 78m3)	4 1 <sup>-</sup>	1-May-22 A	14-May-22 A		1 1 1	all 1 - Excavation to		3.7, 78m3)					
Outfall 1 - S1 Installation	4 10	6-May-22 A	14-Jun-22 A			++	Outfall 1 - S	S1 Installation					
Outfall 1 - Excavation to S2 (+3.7 to +0.9, 220m3)	8 1	17-Jun-22 A	25-Jun-22 A			· · · · · · · · · · · · · · · · · · ·	0	uttall 1 - Excavation to S	2 (+3.7 to +0.9, 220m3)				
Outfall 1 - S2 Installation	7 2	27-Jun-22 A	05-Jul-22 A					Outfall 1 - S2 Inst	allation				
Outfall 1 - Excavation to FEL (+0.9 to -1.4, 180m3)	8 0	06-Jul-22 A	11-Jul-22 A			+			xcavation to FEL (+0.9 to -1.4,				
Outfall 1 - Ground Improvement Works at FEL	4 1	12-Jul-22 A	15-Jul-22 A			±		Dutfall 1	- Ground Improvement Works	at FEL			
Outfall 1 - Base Slab (16m3)	2 1	16-Jul-22 A	18-Jul-22 A					🗖 Outfal	II 1 Base Slab (16m3)				
Outfall 1 - S2 Removal	4 1	19-Jul-22 A	20-Jul-22 A			÷		Outf	fall 1 - S2 Removal	······································			
Outfall 1 - Backfill to Pipe Bottom Level	2 2	21-Jul-22 A	23-Jul-22 A					<b>0</b>	utfall 1 - Backfill to Pipe Botton	Level			
Outfall 1 - DCS ELS Cutting	2 2	23-Jul-22 A	25-Jul-22 A						Outfall 1 - DC\$ ELS Cutting				
Outfall 1 - Drainage Pipe Installation (up to seawall block)	2 2	26-Jul-22 A	27-Jul-22 A						Outfall 1 - Drainage Pipe Ins		)		
Outfall 1 - Steel Plate installation	2 2	27-Jul-22 A	28-Jul-22 A			++	· · · · · · · · · · · · · · · · · · ·		Outfall 1 - Steel Plate install	lation			
Outfall 1 - Concrete surround installed pipes	3 2	29-Jul-22 A	29-Jul-22 A			+			Outfall 1 - Concrete surrou				
Outfall 1 - Core-cut seawall	10 2	29-Jul-22 A	19-Aug-22 A						Outfall 1	- Core-cut seawall	·····		
Outfall 1 - Remaining drainage pipe installation	2 (	05-Sep-22	06-Sep-22							Outfall 1 - Remaining	g drainage pipe installatio	n	
Outfall 1 - Tie Bar Installation	2 (	07-Sep-22	08-Sep-22			±				Outfall 1 - Tie Bar	Installation		
Outfall 1 - Tremie Concrete	2 (	09-Sep-22	10-Sep-22							📕 Outfall 1 - Tremie	e Conçrete		
Outfall 1 - Backfill	6	13-Sep-22	19-Sep-22							Outfall 1			
Section 6A Drainage - T&C	24	20-Sep-22	19-Oct-22								Section	6A Drainage - T&C	
[STE] District Cooling System for AMAWBC Section 6B		11-Dec-21 A											
Section 1 - Bay 3	98 2	23-Dec-21 A	18-Jun-22 A										
1									1				

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- Milestone
  Planned Bar
  Critical Activity
- Actual Milestone
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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
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	Start	Finish									2022						1					
				Apr 03 10	ril   17   24   01	May 08 15	5 22 29	June 05 12	19 26	July 03 10		Augu:		Septe	mber 18 2	25 02 0	October 19 16 23	30 06	Novembe	r 20 27	Dec 04 1	ember	25
DCS - Bay 3 Pipe Installation - Pipe welding	9 2	23-Dec-21 A	17-Feb-22 A																				
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10 1	18-Feb-22 A	28-Feb-22 A	tion - Jainting	(15nos)																		
DCS - Bay 3 Backfill	10 2	24-Mar-22 A	18-Jun-22 A		+			· · · · · · · · · · · · · · · · · · ·	DC\$ - Ba	iý 3 Backfill													
Section 2 - Bay 5	88 1	14-Dec-21 A	02-Mar-22 A		<u> </u>					Jk												· L J         	
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15 1	14-Dec-21 A	21-Feb-22 A	ointing (30no	(5)																		
DCS - Bay 5 Backfill	12 2	22-Feb-22 A	02-Mar-22 A																				
Section 2 - S20	14 2	21-Dec-21 A	06-Jan-22 A									; ; ; ;											
DCS - S20 Pipe Installation - Jointing (27nos)	14 2	21-Dec-21 A	06-Jan-22 A																				
Section 2 - CUE		11-Dec-21 A																					
DCS - CUE - Pipe welding		11-Dec-21 A																				       	
DCS - CUE - Jointing (42nos)	21 1	17-Jan-22 A	19-Jan-22 A																				
Testing & Commissioning	79 1	11-Feb-22 A	10-Jun-22 A								!											· · · · · · · · · · · · · · · · · · ·	
Section 6B Substantial Completion - Agreed with HMJV	0		11-Feb-22 A	eed with HMJ\	V	ļ				4												· · · · · · · · · · · · · · · · · · ·	
Overall DCS - Testing & Commissioning	48 C	01-Mar-22 A	10-Jun-22 A					Overa	all DCS - Te	esting & Comr	nissioning												
Section 6B completion	0		10-Jun-22 A					Section	on 6B com	pletion													
		17-Jan-22 A	20-Apr-23		+		+									· · · · · · · · · · · · · · · · · · ·	·					·	
		17-Jan-22 A	20-Apr-23																			·	
DCS - Pipe Jacking Pre-treatment			29-Jan-22 A				/11771	ο /-l )														·   4	
DCS - Pipe Jacking Sheet pile (1571m2, 55m2/d)		31-Jan-22 A	11-Apr-22 A		CS - Pipe Jacking :			2/0)		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·										
DCS - Receiving Pit Pre-treatment		01-Apr-22 A	19-Apr-22 A	· · · · · · · · · · · · · · · · · · ·	DCS - Receiv	i i i	i i i			44													
DCS - Pipe Jacking Excavation (1772m3, 135m3/d + 6d per layer of strut)	37 1	12-Apr-22 A	06-Jul-22 A							DCS-	Pipe Jacking	Excavation (17	72m3,135m	3/d + 6d per l	layer of str								
DCS - Receiving Pit Sheet pile (1276m2, 55m2/d)	24 2	20-Apr-22 A	05-Oct-22						i		i					DC	S - Receiving	Pit Sheet pi	le (1276n	12, 55m2	d)		
DCS - Pipe Jacking (90m, 2m/d + 31d set up & demob)	76	15-Sep-22	14-Dec-22												· · · ·	1 1	· · · · · · · · · · · · · · · · · · ·	· · · ·			· · ·	DCS - I	vipe.
DCS - Receiving Pit Excavation (3200m3, 135m3/d + 6d per layer of strut)	48	06-Oct-22	30-Nov-22																		DCS-Re	ceiving Pi	Exca
DCS - Pipe Jacking Pipe Install (90m, 6m/5d) & Valve Pit (24d)	99	15-Dec-22	20-Apr-23																				
DCS (L10(S))	270 1	10-Feb-22 A	06-Jan-23														· J						
			29-Jun-22 A																			·	
DCS - L10(S) 1 Pre-treatment (576m, 36m/d/rig, 2rigs)			18-Feb-22 A			ļ																	
DCS - L10(S) 2 Pre-treatment (576m, 36m/d/rig, 2rigs)					36m/d/rig, 2rigs)																		
DCS - L10(S) 3 Pre-treatment (576m, 36m/d/rig, 2rigs)				re-treatment (!	576m, 36m/d/rig, 2	2rigs)									· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·	
DCS - L10(S) 4 Pre-treatment (404m, 36m/d/rig, 2rigs)	6 2	24-May-22 A	31-May-22 A				D			ment (404m, 3													
DCS - L10(S) 5 Pre-treatment (404m, 36m/d/rig, 2rigs)	6 C	06-Jun-22 A	11-Jun-22 A					DC\$	- L10(S) 5	Pre-treatmen	t (404m, 36i	m/d/rig, 2rigs)											
DCS - L10(S) 6 Pre-treatment (404m, 36m/d/rig, 2rigs)	6 2	20-Jun-22 A	29-Jun-22 A							DCS - L10(S)	6 Pre-treat	ment (404m, 36n	n/d/rig, 2rigs	)									
· · · ·		19-Feb-22 A	14-Sep-22															· - + -				·	
DCS - L10(S) 1 Sheet pile (576m2, 55m2/d)	18 1	19-Feb-22 A	11-Mar-22 A	Sheet pile (57	76m2, 55m2/d)																		
DCS - L10(S) 2 Sheet pile (576m2, 55m2/d)	24 1	12-Mar-22 A	09-Apr-22 A	DCS	S - L10(S) 2 Sheet	pile (576m	12, 55m2/d)				 											· · · · · · · ·	
DCS - L10(S) 3 Sheet pile (830m2, 55m2/d)	24 1	11-Apr-22 A	13-May-22 A		+	DC	CS - L10(S) 3 S	Sheet pile (83)	0m2, 55m2	2/d)												·	
DCS - L10(S) 4 Sheet pile (404m2, 55m2/d)	8 3	31-May-22 A	11-Jun-22 A					DC\$	- L10(S) 4	Sheet pile (40	)4m2,55m2	⊉/d)		<b>L</b> J         								· L	
DCS - L10(S) 5 Sheet pile (404m2, 55m2/d)	8 1	13-Jun-22 A	18-Jun-22 A		<u>+</u>				DC\$ - L1	0(S) 5 Sheet	oile (404m2,	55m2/d)										·	
DCS - L10(S) 6 Sheet pile (404m2, 55m2/d)	8	05-Sep-22	14-Sep-22		+										DCS - L1	0(\$) 6 Sheet	t pile (404m2,	55m2/d)					
																							-

Page 16 of 34 Data Date: 03-Sep-22 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work

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

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

Activity Name	Dur Start	Finish	April May June July	2022 August September October November December
	100 10 1 00		03         10         17         24         01         08         15         22         29         05         12         19         26         03         10         17         24         3	
Excavation           DCS - L10(S) 1 Excavation (1109m3, 40m3/d)	108 13-Jun-22 / 28 13-Jun-22 /		╡╌╌┊╌╌┊╌╴┊╌╴┊╌╴┊╌╴┊╌╴┊╴ <mark>╴┊╴┊╴┊╴┊╴┊╴</mark>	DCS - L10(S) 1 Excavation (1109m3, 40m3/d)
DCS - L10(S) 2 Excavation (1109m3, 40m3/d)	28 13-Jun-22 /			DCS L10(\$) 2 Excavation (1109m3; 40m3/d)
DCS - L10(S) 2 Excavation (1920m3, 40m3/d)	48 13-Jun-22 /			DCS + L10(\$) 3 Excavation (1920m3, 40m3/d)
		· · ·		DCS - L10(S) 4 Excavation (564m3, 40m3/d)
DCS - L10(S) 4 Excavation (564m3, 40m3/d)	15 16-Sep-22			
DCS - L10(S) 5 Excavation (564m3, 40m3/d)	15 06-Oct-22			DC\$ L10(S) 5 Excavation (564m3, 40m3/d)
DCS - L10(S) 6 Excavation (564m3, 40m3/d)	15 24-Oct-22			DCS - L10(S) 6 Excavation (564m3, 40m3/
DCS Set up DCS - L10(S) 1 Pipe Installation - Set up	58 26-Aug-22 4 4 26-Aug-22 4			DCS - L'10(S):1 Pipe Installation:- Set up
DCS - L10(S) 2 Pipe Installation - Set up	4 07-Sep-22	· · ·		DCS - L10(S) 2 Pipe Installation - Set up
DCS - L10(S) 3 Pipe Installation - Pit	12 16-Sep-22			DCS - L10(\$) 3 Pipe Installation - Pit
DCS - L10(S) 3 Pipe Installation - Set up	4 30-Sep-22	· · ·		DCS - L10(\$) 3 Pipe Installation - Set up
DCS - L10(S) 4 Pipe Installation - Set up	4 07-Oct-22			DCS - L(10(S)) 4 Pipe Installation;- Set up
	4 07-Oct-22 4 24-Oct-22			DCS - L 10(\$), 41 lipe installation - Set up
DCS - L10(S) 5 Pipe Installation - Set up				
DCS - L10(S) 6 Pipe Installation - Set up	4 10-Nov-22			DCS - L10(\$) 6 Pipe Installation - Set u
DCS welding DCS - L10(S) 1 Pipe Installation - Pipe welding (3nos/d)	60 07-Sep-22 4 07-Sep-22			■ DC\$ - L10(S) 1 Pipe Iristallation - Pipe welding (3nos/d)
DCS - L10(S) 2 Pipe Installation - Pipe welding (3nos/d)	4 13-Sep-22	· · ·		DCS - L10(S) 2 Pipe Installation - Pipe welding (3nos/d)
DCS - L10(S) 3 Pipe Installation - Pipe welding (3nos/d)	4 07-Oct-22	· · ·		DCS - L 10(S) 3 Pipe Installation;- Pipe welding (3nos/d)
DCS - L10(S) 4 Pipe Installation - Pipe welding (3nos/d)	4 12-Oct-22			DCS - L10(\$) 4 Pipe Installation - Pipe welding (3nos/d)
DCS - L10(S) 5 Pipe Installation - Pipe welding (3nos/d)	4 28-Oct-22			DCS - L10(S) 5 Pipę Installation - Pipę welding (3r
DCS - L10(S) 6 Pipe Installation - Pipe welding (3nos/d)	4 15-Nov-22			DCS-L10(S) 6 Pipe Installation - P
Electrofusion	64 13-Sep-22			
DCS - L10(S) 1 Pipe Installation - Electrofusion joint (1.5nos/d)	· · ·	20-100V-22 21-Sep-22		DCS L10(S) 1 Pipe Installation Electrofusion joint (1.5nos/d)
DCS - L10(S) 2 Pipe Installation - Electrofusion joint (1.5nos/d)	8 22-Sep-22	30-Sep-22		DCS:- L10(S) 2 Pipe Installation - Electrofusion joint (15nos/d)
DCS - L10(S) 3 Pipe Installation - Electrofusion joint (1.5nos/d)	8 12-Oct-22	20-Oct-22		DCS - L 10(\$) 3 Pipe Installation - Electrofusion joint (1.5nos/
DCS - L10(S) 4 Pipe Installation - Electrofusion joint (1.5nos/d)	8 21-Oct-22	29-Oct-22		DCS - L10(S) 4 Pipe Installation - Electrofusion joint (
DCS - L10(S) 5 Pipe Installation - Electrofusion joint (1.5nos/d)	8 02-Nov-22	10-Nov-22		DCS - L10(\$) 5 Pipe Installation - Electrofi
DCS - L10(S) 6 Pipe Installation - Electrofusion joint (1.5nos/d)	8 19-Nov-22	28-Nov-22		D¢S - L10(S) 6 Pipe Instal
Backfill	72 22-Sep-22	16-Dec-22		
DCS - L10(S) 1 Backfill	12 22-Sep-22	07-Oct-22		DCS - L10(S) 1 Backfill
DCS - L10(S) 2 Backfill	12 08-Oct-22	21-Oct-22		DCS - L10(S) 2 Backfill
DCS - L10(S) 3 Backfill	12 22-Oct-22	04-Nov-22		DCS-L10(S) 3 Backfill
DCS - L10(S) 4 Backfill	12 05-Nov-22	18-Nov-22		DCS-L10(S) 4 Backfill
DCS - L10(S) 5 Backfill	12 19-Nov-22	02-Dec-22		DCS-L10(S) 5 Backfill
DCS - L10(S) 6 Backfill	12 03-Dec-22	16-Dec-22		DCS-L10
Steel platform area	188 08-Apr-22	06-Jan-23		
Steel platform	22 08-Apr-22	A 11-May-22 A	Steel platform	
DCS - L10(S) CH228-252 Sheet pile (505m2, 55m2/d)	10 15-Sep-22	26-Sep-22		DCS - L10(S) CH228-252 Sheet pile (505m2, 55m2/d)
DCS - L10(S) CH228-252 Excavation (576m3, 40m3/d)	15 17-Dec-22	06-Jan-23		
Page 17 of 34				Date Revision Checked Approved
Data Date: 03-Sep-22	ED	/2018/0	4 Trunk Road T2 and Infrastructure Works	18-Dec-19         00V1         WYu           22-Feb-20         01V0         SPa/LLo         WYu
Actual Milestone		1	or Developments at South Apron	BOUYGUES 09-Apr-20 01V1 SPa/LLo WYu
Actual Work				TRAVAUX PUBLICS     OTVI     OTVI     OTVI       17-Jul-20     01V2     SPa/LLo     WYu       09-Oct-20     01V3     SPa/LLo     WYu
		Three	Months Rolling Programme (Aug-22)	09-Oct-20 01V3 SPa/LLo WYu 02-Jul-21 02V0 SPa/LLo WYu

Activity Name	Dur	Start	Finish								2022								
				April D   17	24 01 08	May 08 15	lay June 15 22 29 05 12 14	19 26	July 26 03 10 17 2	24	August 31 07 14 21 28	28 04	September         04         11         18         25	October 02 09 16	23	Novemb           30         06         13	mber 3 20 2	December           27         04         11         18	8 25
DCS (Slip Road S5)	36	28-Dec-22	11-Feb-23	 															
DCS - S5 Pre-bored (1303m, 36m/d)	36	28-Dec-22	11-Feb-23	T = = =						:									
Road L10 (Southern)	68	21-Oct-22	11-Jan-23							il !									
Excavation	60		31-Dec-22	· · · · · · · · · · · · · · · · · · ·						:									
L10(S) 1 Excavation (1460m3, 110m3/d)	14	21-Oct-22	05-Nov-22	T						1								ion (1460m3, 110m3/d)	
L10(S) 2 Excavation (1620m3, 110m3/d)	15	07-Nov-22	23-Nov-22							<b>-</b> r			1				<b>L</b> 10	10(S) 2 Excavation (162	ა20m3,
L10(S) 3 Excavation (1700m3, 110m3/d)	16	24-Nov-22	12-Dec-22															L10(S) 3	
L10(S) 4 Excavation (960m3, 110m3/d) & Strutting (6d)	15	13-Dec-22	31-Dec-22							;									
Drainage	48	07-Nov-22	04-Jan-23																
L10(S) 1 Drainage & Sewerage (5 manhole, 6d/nos)	30	07-Nov-22	10-Dec-22	· <del>· · · · · ·</del>			····			<i>i</i> 1								L10(S) 1 I	Draina
L10(S) 2 Drainage & Sewerage (3 manhole, 6d/nos)	18	12-Dec-22	04-Jan-23	 · +,-															
Watermain	12			· +															
L10(S) 1 Watermain (30m/6d)	12	12-Dec-22	24-Dec-22	+         															<b>_</b> L1C
Backfill	12		11-Jan-23			la I I la -		·				· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·	
L10(S) 1 Backfill	12	28-Dec-22	11-Jan-23	 						 									
Outfall 2 & Branch Drainage	140	17-May-22 A	30-Dec-22																·
Portion H1	140	17-May-22 A		· · · · · · · · · · · · · · · · · · ·				·		in									 
Portion H1 Possession	0		17-May-22 A	 1			Portion H1 Possession												   
Section H1 part 1 Sheet pile (878m2, 55m2/d)	16	17-May-22 A	04-Jun-22 A	÷		T	Section H1 p	uart 1 Sh	Sheet pile (878m2, 55m2/	.2/d)									J
Section H1 part 1 Excavation (1090m3, 110m3/d)	16	17-Jun-22 A	06-Jul-22 A						Section H1 par	art 1 F	Excavation (1090m3, 110m3	,3/d)							
Section H1 part 1 Drainage	12	07-Jul-22 A	20-Jul-22 A						Se Se	ection	on H1 part 1 Drainage								
Section H1 part 1 Backfill	6	21-Jul-22 A	27-Jul-22 A	· · · · · · · · · · · · · · · · · · ·						<b>—</b> Ş	Section H1 part 1 Backfill							·	
Section H1 part 2 Pre-treatment	12	22-Aug-22 A	10-Sep-22										Section H1 part 2	2 Pre-treatment					)
Section H1 part 2 Sheet pile (648m2)	12	13-Sep-22	26-Sep-22					·						Section H1 part 2 She				·	
Section H1 part 2 Excavation (848m3)	14	27-Sep-22												Sectir	tion H1 pa	part 2 Excavation	ion (848m/3)		]
Section H1 part 2 Drainage	12	15-Oct-22	28-Oct-22							;					\$	Section H1 part	(2 Drainag	<i>j</i> e	1
Section H1 part 2 Backfill	6	29-Oct-22	04-Nov-22	· ±												Section H	11 part 2 B	ackfill	
Section H1 part 3 Pre-treatment	12	05-Nov-22	18-Nov-22	 · +													Section	n H1 part 3 Pre-treatme	
Section H1 part 3 Sheet pile (504m2)	10	19-Nov-22	30-Nov-22								· · · · · · · · · · · · · · · · · · ·							Section H1 part 3 S	Sheet
Section H1 part 3 Excavation (660m3)	12	01-Dec-22	14-Dec-22	· <del>-</del>															tion H1
Section H1 part 3 Drainage	12	15-Dec-22	30-Dec-22	+						:									
Outfall 2	96	03-Sep-22	30-Dec-22	· · · · · · · · · · · · · · · · · · ·				·				L							
Portion H2 Full Possession	0		03-Sep-22*	, <u>1</u>				·		:			Portion H2 Full Possess	ssion					     
Outfall 2 - Sheetpiling (528m2, assume half typical)	20	05-Sep-22	28-Sep-22										(	Outfall 2 - Sheetpilin	ing (528r	m2, assume ha	alf typical)		
Outfall 2 - Excavation to S1 (+4.7 to + 3.5, 136m3)	5	29-Sep-22	06-Oct-22	· <del>·</del> · · · · · · · ·						in				Outfall 2 - Ex	xcavatio	un to S1 (+4.7 tr	.0 + 3.5, 13/	.6m3)	
Outfall 2 - S1 Installation	6	07-Oct-22	13-Oct-22							¦	· · · · · · · · · · · · · · · · · · ·		·	Outfall	1 2 - S1	Installation			
Outfall 2 - Excavation to S2 (+3.5 to +1.7, 203m3)	8	14-Oct-22	22-Oct-22	- <b>-</b>											↓ Outfal	2 - Excavatior	n to S2 (+3	3.5 to +1.7, 203m3)	
Outfall 2 - S2 Installation	6	24-Oct-22	29-Oct-22		· · · · · · · · · · · · · · · · · · ·											Outfall 2 - S2 In	nstallation		
Outfall 2 - Excavation to FEL (+1.7 to -1.4, 350m3)	14	31-Oct-22	15-Nov-22	· +',						<u>-</u>					ľ	- i i	i i	- Excavation to FEL (+	i 1
Outfall 2 - Ground Improvement Works for FEL	4	16-Nov-22	19-Nov-22	· <del> </del>													Outfall	all 2 - Ground Improvem	ment
Page 18 of 34			J	 <u> </u>	<u>!   :</u>			_ <u></u>	<u>·! : : </u>		; <u>; ; ; ; , , , , , , , , , , , , , , ,</u>		_ <u>'</u>	Date	<u>·</u>	Revision	Checl	cked Approve	
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18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
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09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	Start	Finish							2022						
				1 03	April 10 17 24 01 08	May	June 05 12 19	26 03	July 10 17 24 3 <sup>-</sup>	August	September 28 04 11 18	25 02 0	October 09 16 23	November           30         06         13	20 27 0	December 4 11 18 25
Outfall 2 - Base Slab (12m3)	2	21-Nov-22	22-Nov-22				00 12 17	20 03				23 02 0				Base Slab (12m3)
Outfall 2 - Backfill to Pipe Bottom Level	2	23-Nov-22	24-Nov-22				· · · · · · · · · · · · · · · · · · ·								Outfall 2	- Backfill to Pipe Bott
Outfall 2 - Pipe Installation up to seawall	I block 12	25-Nov-22	08-Dec-22													Outfall 2 - Pipe In:
Outfall 2 - Steel Plate Installation	2	09-Dec-22	10-Dec-22											·		Outfall 2 - Steel
Outfall 2 - Concrete surround installed p	pipes 3	12-Dec-22	14-Dec-22				· · · · · · · · · · · · · · · · · · ·							+         -		Dutfall 2 - Co
Outfall 2 - Core-cut seawall	10	15-Dec-22	28-Dec-22													
Outfall 2 - Remaining pipes installation	2	29-Dec-22	30-Dec-22													
Foot Bridge FB-02	380	07-Dec-21 A	21-Mar-23	1										+		
Temp Ramp	196	05-Feb-22 A	20-Aug-22 A													
Temporary Ramp Construction	24	05-Feb-22 A	24-Jun-22 A	:		+		1 11	ry Ramp Construction							
Existing Footbridge Disable Ramp - Den	nolition 36	25-Jun-22 A	20-Aug-22 A					· • • • • ·		Existin	g Footbridge Disable I	Ramp - Demolit	ion			
Foundation	66	22-Aug-22 A	23-Nov-22	1			· <del> </del> <del> </del>	· · · · · · · · · · · · · · · · · · ·						<u>+</u>		
FB-02 Pre-drilling - LC&D	6	22-Aug-22 A	24-Aug-22 A							FB	-02 Pre-drilling - LC&E	)				
Lift C&D	35	25-Aug-22 A	18-Oct-22	1										+		
FB-02 H-pile Drilling - LC&D-1	6	25-Aug-22 A	30-Aug-22 A								FB-02 H-pile Drilling	- LC&D-1				
FB-02 H-pile Installation & Grouting - L	.C&D-1 3	31-Aug-22 A	03-Sep-22 A	1							FB-02 H-pile Ins	tal lation & Grou	uting - LC&D-1			
FB-02 H-pile Drilling - LC&D-2	6	05-Sep-22	10-Sep-22								FB-02 H-p	ile Drilling - LC	&D-2	+		
FB-02 H-pile Installation & Grouting - L	C&D-2 3	13-Sep-22	15-Sep-22								<b>FB-0</b> 2	H-pile Installa	tion & Grouting	LC&D-2		
FB-02 H-pile Drilling - LC&D-3	10	16-Sep-22	27-Sep-22										bile Drilling - LC			
FB-02 H-pile Installation & Grouting - L	.C&D-3 3	28-Sep-22	30-Sep-22									📕 FB-02 I		n & Grouting - LC&D	-3	
FB-02 H-pile Drilling - LC&D-4	10	03-Oct-22	14-Oct-22										EB-02 H-pi	le Drilling - LC&D-4		
FB-02 H-pile Installation & Grouting - L	.C&D-4 3	15-Oct-22	18-Oct-22										FB-02	H-pile Installation & C	Grouting - LC8	،D-4
P1	31	19-Oct-22	23-Nov-22													
FB-02 H-pile Drilling - P1-1	6	19-Oct-22	25-Oct-22											B-02 H-pile Drilling -		
FB-02 H-pile Installation & Grouting - P	21-1 3	26-Oct-22	28-Oct-22	l										FB-02 H-pile Install	lation & Grout	ing - P1-1
FB-02 H-pile Drilling - P1-2	6	29-Oct-22	04-Nov-22											FB-02 H-pile		
FB-02 H-pile Installation & Grouting - P	91-2 3	05-Nov-22	08-Nov-22													n & Grouting - P1-2
FB-02 H-pile Drilling - P1-3	6	09-Nov-22	15-Nov-22												-02 H-pile Dril	
FB-02 H-pile Installation & Grouting - P	21-3 3	16-Nov-22	18-Nov-22											i   i i i	i 1	nstallation & Grouting
FB-02 H-pile Proof Drilling	4	19-Nov-22	23-Nov-22												■ FB-02 H-	pile Proof Drilling
Structure	380						· · · · · · · · · · · · · · · · · · ·									
FB-02 Pile load test (Tension)	14	30-Dec-21 A														
FB-02 Pile load test (Compression)	4	17-Jan-22 A														
Pile Cap		07-Dec-21 A		<u> </u>		· · · · ·								i i i i i i i i i i i i i i i i i i i		
FB-02 Pipe Cap - LA&B	24															
FB-02 Pipe Cap - P5	24		12-Mar-22 A	- P5												
FB-02 Pipe Cap - P2	24			<u> </u>			· · · · · · · · · · · · · · · · · · ·									
FB-02 Pipe Cap - P3	24		19-Mar-22 A	1	9 <del>-</del> P3			<u>.</u>						+		
FB-02 Pipe Cap - P4	24		21-May-22 A			FB-02 Pipe	· · · · · · · · · · · · · · · · · · ·									
FB-02 Pipe Cap - Abutment	24	13-Apr-22 A	19-May-22 A			FB-02 Pipe (	Cap - Abutment									
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Activity Name	Dur	Start	Finish							-				2022						-			
				Api 03 10			/lay 15 2	2 29 0	June 05 12 19	26 0	July 3 10 0		31 07	August 14 21	28 04	September	25 02		ctober 16 23	30 06	November 13 20	27 04	December
FB-02 Pipe Cap - P1	24	24-Nov-22	21-Dec-22														-						FB-
FB-02 Pipe Cap - LC&D	24	24-Nov-22	21-Dec-22		 																	·	FB
Pier	290	17-Mar-22 A	07-Jan-23		+																		
FB-02 Pier - P2	36	17-Mar-22 A	07-Apr-22 A	FB-02	Pier - P2												1						
FB-02 Pier - P3	36	04-Apr-22 A	14-Apr-22 A		FB-02 Pier	- P3							·		·				· J				· b
FB-02 Pier - P4	36	13-Jun-22 A	29-Jun-22 A							FB	-02 Pier - I	24											
FB-02 Pier - P5	54	01-Aug-22 A	10-Sep-22										1			FB-02 Pier	- P5						
FB-02 Pier - P1	12	22-Dec-22	07-Jan-23		T												· · · · · · · · · · · · · · · · · · ·						
Bridge Deck / Staircase	180	27-Jun-22 A	08-Mar-23		+		+		+		+								·	+			+
FB-02 Bridge deck construction Bay 1 (P3 - P4)	60	27-Jun-22 A	05-Oct-22										1					1	2 Bridge deck		-		
FB-02 Bridge deck construction Bay 2 (P4 - P5)	60	06-Oct-22	14-Dec-22																				FB-02 Bri
FB-02 Staircase A	48	20-Oct-22*	14-Dec-22		 																		FB-02 Sta
FB-02 Bridge deck construction Bay 3 (P2 - P3)	60	19-Nov-22	03-Feb-23		T I I I I I I I I I I I I I I												           				ii		· · · · · · · · ·
FB-02 Bridge deck construction Bay 4 (P1 - P2)	60	22-Dec-22	08-Mar-23		T																		
Lift Shaft	161	05-Sep-22	21-Mar-23		+																		
FB-02 Lift Shaft - LA&B	36	05-Sep-22*	19-Oct-22		+											I I I I I I			FB-02	Lift Shaft	- L'A&B		
Lift Procurement	130	14-Oct-22*	21-Mar-23		+ 													1		<u>+</u>	LJ 		·
FB-02 Lift Shaft - LC&D	36	22-Dec-22	08-Feb-23		+  																		
Road L10 / Road L18	42	15-Dec-22	08-Feb-23		+ 									· - <mark>-</mark> <del>-</del>						+			·
L10 Roundabout Drainage (7 manhole)	42	15-Dec-22	08-Feb-23		T																		
[STE] Kai Hing Road / Lam Chak Street Modification	737	26-Mar-22 A	24-Oct-24		÷i											· · · · · · · · · · · · · · · · · · ·			·				· · · · · · · · · · · · · · · · · · ·
TTA Phasing	0		26-Mar-22 A	A Phasing																			
TMLG for XP validation	0		19-Apr-22 A		◆ TMLG	for XP validat	ion																
XP validated	0		19-May-22 A					validated									1						
TMLG to TD for Approval	0		25-May-22 A		 		•	TMLG to	TD for Approv	al													
TMLG Approved	0		30-Jul-22 A		 								TML G A	pproved									
Roadworks advice from RMO for TTA Implementation	0		20-Aug-22 A		T									♦ Roadv	vorks adv	ice from RMO	for TTA In	npleme	entation				
LCS / KHR - Public Road TTMS stages	600	17-Oct-22	24-Oct-24		+		+													+			
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road Junction		26-Feb-22 A	19-May-23																				
Stage 5 (Gas Station & HBR)			31-Aug-22 A		¦											· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·
Stage 5D (HBR Left Turn Lane 2)		26-Feb-22 A	<del>_</del>	nstatement of															·				· · · · · · · · · · · · · · · · · · ·
Reinstatement of carriageway		26-Feb-22 A			Ĩ	ıy 								EMŚC	linsporti	on & control bo		tion					
EMSD inspection & control box construction			20-Aug-22 A											EIVIŞL		ge over to per			inal				
Change over to permanent traffic signal		22-Aug-22 A			; ; ; ;									· · · · · · · · · · · · · · · · · · ·					н (dl				
Section 8D [STE] - Completion	0		31-Aug-22 A													on 8D [STE] - (							
Section 9F [STE] - Completion	0		31-Aug-22 A		· · · · · · · · · · · · · · · · · · ·										♥ Section	on 9F [STE] - (	_ompletion	1					
Kai Hing Road and Lam Chak Street Re-routing			31-Aug-22 A		· · · · · · · · · · · · · · · · · · ·									·									· · · · · · · · · · · · · · · · · · ·
TTA - HBR eastbound slow lane		03-May-22 A			¦			R eastbound	İİ														
TTA - HBR eastbound fast lane		11-May-22 A			; ; ; ;;				bound fast lane														
TTA - HBR westbound slow lane	12	17-May-22 A	22-May-22 A					TTA - HBR	westbound slov	wlane													
				<u> </u>																			

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

Activity Name	Dur Start	Finish	2022
			April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
TTA - HBR westbound fast lane	12 22-May-22	A 28-May-22 A	
TTA - KHR fast lane	12 28-May-22	A 07-Jun-22 A	TTA - KHR fast lane
TTA - KHR slow lane	12 07-Jun-22	A 15-Jun-22 A	TTA - KHR slow lane
TTA - KHR Junction Footpath	72 15-Jun-22	A 29-Jun-22 A	TTA - KHR Junction Footpath
CLP & HKT Administration Process	96 29-Jun-22	A 31-Aug-22 A	CLP & HKT Administration Process
Establishment	365 26-Mar-22	A 19-May-23	
HBR / CYS / WCR Junction Moditication - Establishment works	365 26-Mar-22	A 19-May-23	
[STE] Road L10 (Northern)	308 24-Dec-21	A 18-Jan-23	
CUE L10(N) Phase 1	239 24-Dec-21		
CUE L10(N) Part 1 DL, Blinding, Waterproofing, BS (80m)	21 24-Dec-21	A 08-Mar-22 A	
CUE L10(N) Part 1 Backfill & Strut S3 Removal	7 29-Mar-22	A 19-Apr-22 A	
CUE L10(N) Travelling Formwork Setup	4 07-Apr-22	· ·	
CUE L10(N) Part 1 Wall & Top Slab Bay 1 (CH220 - 200)	32 26-Apr-22	A 09-May-22 A	
CUE L10(N) Part 1 Wall & Top Slab Bay 2 (CH200 - 180)	10 10-May-22	A 20-May-22 A	CUE:L10(N) Part 1 Wall & Top Slab: Bay 2 (CH200 - 180)
CUE L10(N) Part 1 Wall & Top Slab Bay 3 (CH180 - 160)	10 20-May-22	A 11-Jun-22 A	CUE L10(N) Part 1 Wall & Top Slab Bay 3 (CH180 - 1/60)
CUE L10(N) Part 1 Wall & Top Slab Bay 4 (CH160 - 140)	10 13-Jun-22	A 29-Jun-22 A	CUE L10(N) Part 1 Wall & Top Slab Bay 4 (CH160 - 140)
CUE L10(N) Part 1 Backfill & Remove S2 (80m, 10d/20m)	32 05-Sep-22	14-Oct-22	CUE L10(N) Part 1 Backfill & Remove \$2 (80m, 10d/20m)
CUE L10(N) Part 1 Backfill & Remove S1 (80m, 10d/20m)	32 16-Sep-22	26-Oct-22	¢UE L10(N) Part 1 Backfill & Remove S1 (80m, 10d/201
CUE L10(N) Phase 2	200 28-Apr-22	A 24-Dec-22	
CUE L10(N) Part 2 Excavation to S1 (6800m3, 110m3/d & 2 strut layer @ 8d)	12 28-Apr-22	A 13-May-22 A	CUE L10(N) Part 2 Excavation to S1 (6800m3, 110m3/d & 2 strut layer @ 8d)
CUE L10(N) Part 2 S1 Strutting (8d)	8 14-May-22	A 23-May-22 A	CÜE L10(N) Part 2 S1 Strutting (8d)
CUE L10(N) Part 2 Excavation to S2 (6800m3, 110m3/d & 2 strut layer @ 8d)	30 24-May-22	A 28-Jun-22 A	CUE L 10(N) Part 2 Excavation to S2 (6800m3, 110m3 d & 2 strut layer @ 8d)
CUE L10(N) Part 2 S2 Strutting (8d)	8 29-Jun-22	A 05-Jul-22 A	CUE L 10(N) Part 2 S2 Strutting (8d)
CUE L10(N) Part 2 Excavation to FEL (6800m3, 110m3/d & 2 strut layer @ 8d)	20 06-Jul-22	A 23-Jul-22 A	CUE L10(N) Part 2 Excavation to FEL (6800m3; 110m3/d & 2 strut layer @ 8d)
CUE L10(N) Part 2 DL, Blinding, Waterproofing, BS (80m)	21 25-Jul-22	10-Sep-22	CUE L10(N) Part 2 DL; Blinding, Waterproofing; BS (80m)
CUE L10(N) Part 2 Backfill & Strut S2 Removal	7 13-Sep-22	21-Sep-22	CUE L 10(N) Part 2 Backfill & Strut S2:Removal
CUE L10(N) Part 2 Wall & Top Slab Bay 1 (CH140 - 120)	8 21-Sep-22	30-Sep-22	CUE L 10(N) Part 2 Wall & Top Slab Bay 1 (CH140 - 120)
CUE L10(N) Part 2 Wall & Top Slab Bay 2 (CH120 - 100)	10 30-Sep-22	14-Oct-22	CUE L 10(N) Part 2 Walf & Top Slab Bay 2 (CH120 - 100)
CUE L10(N) Part 2 Wall & Top Slab Bay 3 (CH100 - 80)	10 14-Oct-22	26-Oct-22	CUE L 10(N) Part 2 Wall & Top \$lab Bay 3 (CH100 - 80)
CUE L10(N) Part 2 Wall & Top Slab Bay 4 (CH80 - 64)	10 26-Oct-22	07-Nov-22	CUE L10(N) Part 2 Wall & Top Slab Bay 4 (Cl
CUE L10(N) Part 2 Backfill & Remove S2 (80m, 10d/20m)	32 07-Nov-22	14-Dec-22	CUE L10(N)
CUE L10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)	32 17-Nov-22	24-Dec-22	Cul
CUE L10(N) Phase 3	141 18-Jul-22	18-Jan-23	
CUE L10(N) Part 3 ELS (Sheet pile) (5857m2, ass. 92m2/d)	64 18-Jul-22	A 05-Oct-22	CUE L10(N) Part 3 ELS (Sheet pile) (5857m2, ass 92m2/d)
CUE L10(N) Part 3 Excavation to S1 (5500m3, 110m3/d & 2 strut layer @ 8d)	9 06-Oct-22	15-Oct-22	CUE L10(N) Part 3 Excavation to S1 (\$500m3, 110m3/d & 2 strut
CUE L10(N) Part 3 S1 Strutting (8d)	8 17-Oct-22	25-Oct-22	CUE L 10(N) Part 3 S1 Strutting (8d)
CUE L10(N) Part 3 Excavation to S2 5500m3, 110m3/d & 2 strut layer @ 8d)	25 26-Oct-22	23-Nov-22	CUE L10(N) Part 3 Excavation
CUE L10(N) Part 3 S2 Strutting (8d)	8 24-Nov-22	02-Dec-22	CUE:L10(N) Part 3 S2
CUE L10(N) Part 3 Excavation to FEL (5500m3, 110m3/d & 2 strut layer @ 8d)	16 03-Dec-22	21-Dec-22	¢UE L

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s	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	Start	Finish	2022
				April     May     June     June     June     June     June     June     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
CUE L10(N) Part 3 DL, Blinding, Waterproofing, BS (60m)	21	22-Dec-22	18-Jan-23	
CUE L10(N) Remaining	116	22-Jun-22 A	18-Nov-22	
CUE L10(N) remain ELS (Sheet pile) (1800m2, ass. 75m2/d)	24	22-Jun-22 A	16-Jul-22 A	CUE L10(N) remain ELS (Sheet pile) (1800m2, ass. 75m2/d)
CUE L10(N) remain Excavation (2100m3, 110m2/d)	20	18-Jul-22 A	10-Sep-22	CUE L10(N) rentain Excavation (2100m3; 110m2/d)
CUE L10(N) remain Structure (1 Bay, 36d/bay)	36	13-Sep-22	26-Oct-22	CWE L10(N) remain Structure (1 Bay, 36d/bay)
CUE L10(N) remain Backfill & Remove S2	10	27-Oct-22	07-Nov-22	CUE L10(N) remain Backfill & Remove S2
CUE L10(N) remain Backfill & Remove S1	10	08-Nov-22	18-Nov-22	CUE L10(N) remain Backfill & Re
L10(N) Utilities	36	19-Nov-22	03-Jan-23	
L10(N) Stage 1 Sheet pile (1900m2, 55m2/d)	36	19-Nov-22	03-Jan-23	
DEPRESSED ROAD [DPR]	333	13-Dec-21 A	16-Jan-23	
Portal Structure	333	13-Dec-21 A	16-Jan-23	
Forecast	333	13-Dec-21 A	16-Jan-23	
Remaining DPR Structure	315	13-Dec-21 A	22-Dec-22	
Breaking remaining SUS Bulkhead Dwall	60	13-Dec-21 A	19-Mar-22 A	remaining SUS Bulkhead Dwall
External Wall	65	27-Jun-22 A	10-Sep-22	
Chipping	7	27-Jun-22 A	07-Jul-22 A	Chipping
Scaffolding erection	2	08-Jul-22 A	13-Jul-22 A	\$caffo ding erection
Waterproofing	4	14-Jul-22 A	20-Jul-22 A	Waterproofing
Formworks & rebar fixing	7	21-Jul-22 A	09-Sep-22	Formworks & rebar fixing
Concreting	1	10-Sep-22	10-Sep-22	I Concreting
Internal Wall	8	15-Aug-22 A	16-Sep-22	
Rebar fixing & formwork erection	8	15-Aug-22 A	13-Sep-22	Rebar fixing & formwork erection
Concreting	1	14-Sep-22	14-Sep-22	
Formworks dismantle	2	15-Sep-22	16-Sep-22	Formworks dismantle
Concrete Strut	12	17-Sep-22	30-Sep-22	Scaffølding erection
Scaffolding erection	5	17-Sep-22	22-Sep-22	Scaffolding èrection
Formworks & rebar fixing	5	23-Sep-22	28-Sep-22	For mworks & rebar fixing
Concreting	1	29-Sep-22	29-Sep-22	
For mworks dismantle	1	30-Sep-22	30-Sep-22	I     Formworks dismantle
Base Slab		03-Oct-22	25-Oct-22	Strut \$3 dismantling
Strut S3 dismantling	9	03-Oct-22	13-Oct-22	
Scaffolding erection	5	14-Oct-22	19-Oct-22	
Rebar fixing Concreting	4	20-Oct-22 25-Oct-22	24-Oct-22 25-Oct-22	
Adit Wall Strut S4b dismantling	50 5	26-Oct-22 26-Oct-22	22-Dec-22 31-Oct-22	Strut S4b dismantling
Return Wall pour 1	5	01-Nov-22	05-Nov-22	Retúrn Wáll pour 1
Strut S3b dismantling	5	07-Nov-22	11-Nov-22	Strut S3b dismaniting
Return Wall pour 2	4	12-Nov-22	16-Nov-22	Return Wall pour 2
Adit Wall pour 1	4	17-Nov-22	21-Nov-22	Adit Wall pour 1
Adit Wall pour 2	4	22-Nov-22	25-Nov-22	Adit Wall pour 2
		ZZ INUV-ZZ	20 110 4-22	

Page 22 of 34 Data Date: 03-Sep-22

•	Milestone
	Planned Bar
	CriticalActivity

Actual Milestone

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

BOUYGUES TRAVAUX PUBLICS



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

Activ	ity Name	Dur	Start	Finish	2022
					April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18
	Contruction of Carriageway Slab	9	26-Nov-22	06-Dec-22	Contruction o
	Stage 1B completion	0		06-Dec-22	◆ Stage 1:B con
	Remaining external wall + Gain strength	9	07-Dec-22	16-Dec-22	Rem
	Strut S1 & temporary steel bridge removal	6	17-Dec-22	22-Dec-22	
	Portal Structure	284	03-Jan-22 A	16-Jan-23	
	Falsework erection	15	03-Jan-22 A	19-Mar-22 A	k erection
	West side Capping Beam (B4-B9)	18	28-Mar-22 A	02-Apr-22 A	West side:Capping Beam (B4-B9)
	East side Capping Beam (B4-B9)	18	31-Mar-22 A	07-Apr-22 A	East side Capping Beam (B4-B9)
	Portal Beam part 1 (B7-B9)	18	08-Apr-22 A	18-May-22 A	
	Portal Beam part 2 (B4-B6)	18	09-May-22 A	16-Jun-22 A	Portal Beam part 2 (B4-B6)
	Steel Beam location Capping Beam	12	27-Jun-22 A	19-Sep-22	Steel Beam location Capping Beam
	Steel Portal Beam installation (B1-B3)	12	20-Sep-22	05-Oct-22	Steel Portal Beam installation (B1-B3)
	Capping Beam + Portal Beam	18	23-Dec-22	16-Jan-23	
	WEST VENTILATION BUILDING [WVB]	318	20-Dec-21 A	02-Feb-23	
	Excavation & Strutting	113	20-Dec-21 A	04-Apr-22 A	
	Excavation to below Strut S3 11,905m <sup>3</sup>	20	20-Dec-21 A	12-Jan-22 A	
	Strut S3 Installation	24	03-Jan-22 A	19-Jan-22 A	
	Strut S3 Pre-loading	2	20-Jan-22 A	21-Jan-22 A	
	Excavation to below Strut S4 8,930m3	15	22-Jan-22 A	18-Feb-22 A	pm <sup>3</sup>
	Strut S4 Installation	20	10-Feb-22 A	15-Mar-22 A	allation
	Strut S4 Pre-loading		16-Mar-22 A		<u> </u> i i <sup>*</sup> i i   i i i i i i i i i i i i i i i i
	Excavation to FEL 9,230m <sup>3</sup>	20	19-Mar-22 A	04-Apr-22 A	Excavation to FEL 9,230m <sup>3</sup>
	Building Structure	225	05-Apr-22 A	02-Feb-23	
	WVB - Base Slab		05-Apr-22 A		
	WVB - Earth Mat Installation		·	22-Apr-22 A	
	Base Slab construction Bay 2 & 4		23-Apr-22 A		Base Stab construction Bay 2 & 4
	Base Slab construction Bay 1, 3 & 4		19-May-22 A		Base Slab construction Bay 1, 3 & 4
	Tower Crane Erection	7	20-Jun-22 A		Tower Crane Erection
	Tower Crane Operation	0		30-Jun-22 A	Tower Crane Operation
	Basement Structure		20-Jun-22 A	02-Feb-23	
	WVB - Strut S4 Removal		20-Jun-22 A	15-Jul-22 A	WVB - Strut S4 Removal
	WVB - Basement 2 Extenal Wall			02-Aug-22 A	
	WVB - Basement 2 External wall waterproofng & Mass Fill		18-Jul-22 A	16-Aug-22 A	WVB - Basement 2 External wall waterproofing & Mass Fill
	WVB - Strut S3 Removal	18	17-Aug-22 A	10-Sep-22	WVB - Strut S3 Removal
	WVB - Basement 2 Wall/Slab	36	29-Aug-22 A	30-Sep-22	WVB-Basement 2 Wall/\$lab
	WVB - Strut S2 Removal	18	03-Oct-22	24-Oct-22	WVB - Strut S2 Removal
	WVB - Basement 1a Wall	30	14-Oct-22	17-Nov-22	WVB - Basement 1 a Wall
	WVB - Platform removal	12	25-Oct-22	07-Nov-22	WVB - Platform removal
	WVB - Basement 1 External wall waterproofng & Mass Fill	24	01-Nov-22	28-Nov-22	WVB - Basement 1 E

Page 23 of 34 Data Date: 03-Sep-22 Milestone
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Actual Work

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-22)

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

Activity Name	Dur	Start	Finish	Арі	il		May		Ji	ine			uly			August			S	epter
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WVB - Strut S1 Removal	24	29-Nov-22	28-Dec-22														ļ			
WVB - Basement 1b Wall/Slab	45	06-Dec-22	02-Feb-23										· · · · · · · · · · · · · · · · · · ·				+			
SOUTH APRON ADIT	52	08-Nov-22	10-Jan-23				· · · · · · · · · · · · · · · · · · ·													
South Apron Adit - ELS & Pump Test & Strut Installation	30	08-Nov-22	12-Dec-22																	
South Apron Adit - Base Slab & Wall Kicker	11	13-Dec-22	24-Dec-22																	
South Apron Adit - Strut S2 Removal	11	28-Dec-22	10-Jan-23																	
SUPPORTING UNDERGROUND STRUCTURE [SUS]	137	25-Jul-22 A	13-Jan-23																	
Permanent Structure	67	25-Jul-22 A	20-Oct-22				· · · · · · · · · · · · · · · · · · ·									   	+			
SUS - WB Partition Wall CH6150-6260	24	25-Jul-22 A	19-Sep-22							-					1					
SUS - EB Partition Wall CH6150-6237	25	20-Sep-22	20-Oct-22*																	
Tunnel Internal Structure & Finishing	96	27-Jul-22 A	13-Jan-23																	
Westbound	96	27-Jul-22 A	13-Jan-23				· · · · · · · · · · · · · · · · · · ·										+		·	
SUS - WB - OHVD Formworks Assembly	18	27-Jul-22 A	17-Sep-22											1					1	
SUS - WB - OHVD In-situ 320m	96	19-Sep-22	13-Jan-23																	
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	309	05-Feb-22 A	04-Jan-23																	
Civil Works for TBM Assembly	79	05-Feb-22 A	23-Feb-22 A													ļ				
Cell 1 & 2	79	05-Feb-22 A																		
Tympanum Westbound Additional Mass Fill	79 15	05-Feb-22 A 05-Feb-22 A																		
	7				     														·	
Eastbound Additional Mass Fill	,	14-Feb-22 A	23-Feb-22 A																	
Tunnel Permanent Works Cell 1/2 Westbound	66	17-Oct-22 17-Oct-22	04-Jan-23 04-Jan-23																	
Cell 1/2 WB - Wall Below Road Level CPS	66 18	17-Oct-22	04-Jaii-23 05-Nov-22													, ,			·	
Cell 1/2 WB - Road Slab CPS	12	07-Nov-22	19-Nov-22		 															
		07-1100-22	19-Nov-22																	
Road Diversion to WB CPS	0						·												·	
Cell 1/2 WB - Wall Below Road Level NCPS	12	21-Nov-22	03-Dec-22																	
Cell 1/2 WB - Road Slab CPS	12	05-Dec-22	17-Dec-22																	
Cell 1/2 WB - Wall Road Level	12	19-Dec-22	04-Jan-23																	
Cell 1/2 Eastbound	66	17-Oct-22	04-Jan-23																	
Cell 1/2 EB - Wall Below Road Level CPS	18	17-Oct-22	05-Nov-22																	
Cell 1/2 EB - Road Slab CPS	12	07-Nov-22	19-Nov-22																	
Road Diversion to EB CPS	0		19-Nov-22																	
Cell 1/2 EB - Wall Below Road Level NCPS	12	21-Nov-22	03-Dec-22																	
Cell 1/2 EB - Road Slab NCPS	12	05-Dec-22	17-Dec-22																	
Cell 1/2 EB - Wall Road Level	12	19-Dec-22	04-Jan-23																	
Cut & Cover	24	17-Oct-22	12-Nov-22																· 4 ·	
C&C - Wall Stage 1 first 5m	9	17-Oct-22	26-Oct-22																	
C&C - Wall Stage 2 up to OHVD level	9	27-Oct-22	05-Nov-22																	
C&C - Wall Stage 3 up to Top Slab soffit	6	07-Nov-22	12-Nov-22																	
SUB-SEA TBM TUNNEL - WESTBOUND	377	27-Sep-21 A	17-Feb-23		     							             					+		·	
Precast Fabrication	314	29-Nov-21 A	21-Jan-23																	
TBM Precast Segments	287	29-Nov-21 A	17-Dec-22										- +							
Page 24 of 34 Data Date: 03-Sep-22		ED/2	2018/0 f Three	for De	velop	omer	nts at	So	outh	n Ap	oro	n		ks			B		YG IX Pl	UE JBL

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09-Oct-20

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01V3

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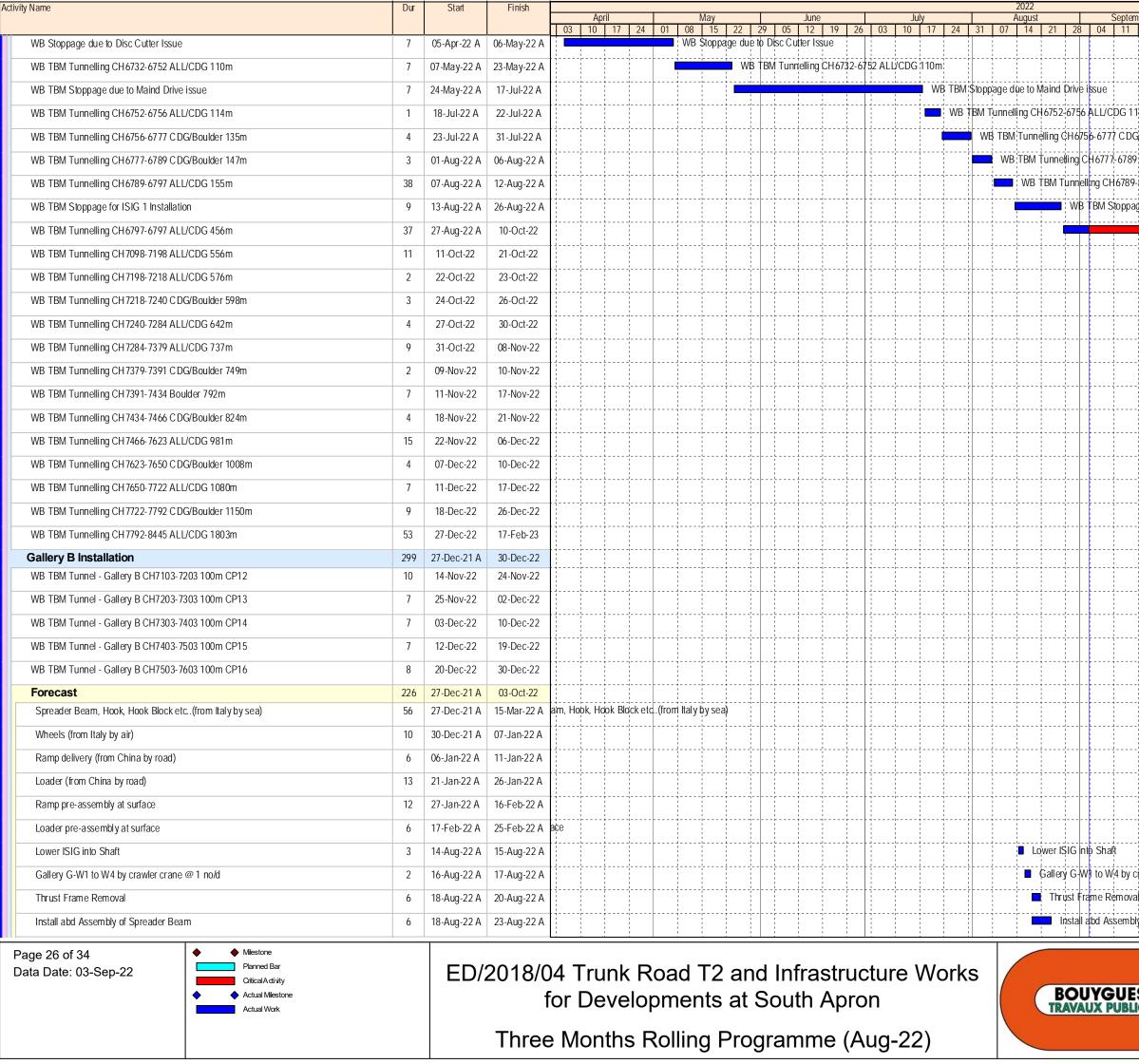
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Activity Name	Dur	Start	Finish									2022					
				A	vpril 24	Ma	iy 15   22   2	29 05	June 12 19 26	July 03 10 1	7 24 31	August 07 14 21	September 28 04 11 18	October 25 02 09 16 1	23 30 06	ember 13 20 27	December 04   11   18   25
Precast TBM Segment - 70%	36	29-Nov-21 A	26-Feb-22 A			01 00											
Precast TBM Segment - 80%	36	28-Feb-22 A	22-Sep-22				·		·	· · · · · · · · · · · · · · · · · · ·		·····	P	recast TBM Segment - 80	)%		
Precast TBM Segment - 90%	36	23-Sep-22	05-Nov-22												Preća:	st TBM Segment -	90%
Precast TBM Segment - 100%	36	07-Nov-22	17-Dec-22						·				·				Precast 1
Service Gallery	296	28-Dec-21 A	07-Jan-23						·				······································				
Precast Service Gallery - 3%	24	28-Dec-21 A	01-Mar-22 A	3%													
Precast Service Gallery - 6%	24	02-Mar-22 A	02-Apr-22 A	Precast S	Service Galle	ery - 6%				i							
Precast Service Gallery - 10%	24	03-Apr-22 A	14-May-22 A		· - <del>;</del>		Precast Serv	ice Galler	y - 10%								
Precast Service Gallery - 20%	24	16-May-22 A	18-Jul-22 A		· - +		· +	· + +	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Precast Service	Gallery - 20%					
Precast Service Gallery - 30%	24	19-Jul-22 A	10-Sep-22		·		·		·		!	· · · · · · · · · · · · · · · · · · ·	Preçast Ser	vice Gallery - 30%			
Precast Service Gallery - 40%	24	13-Sep-22	12-Oct-22									·		Precast S	Service Gallery - 40	)%	
Precast Service Gallery - 50%	24	13-Oct-22	09-Nov-22		- <del>1</del>										Pre	ecast Service Galle	ery - 50%
Precast Service Gallery - 60%	24	10-Nov-22	07-Dec-22				· + +					·				<sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup>	Precast Service G
Precast Service Gallery - 70%	24	08-Dec-22	07-Jan-23														
OHVD Slab	268	01-Feb-22 A	21-Jan-23				·										
Concrete Mix - Plant Trial	72	01-Feb-22 A	12-May-22 A		· · · · · · · · · · · · · · · · · · ·	C	oncrete Mix	Plant Tria	1	J							
Precast OHVD Slab - Mould Fabrication & Setup	72	01-Feb-22 A	10-Sep-22										Precast OH	VD Slab - Mould Fabricati	ion & Setup		
Precast OHVD Slab - Inspection	12	13-Sep-22	26-Sep-22											Precast OHVD Slab - I	nspection		
Precast OHVD Slab - Mass Production Start	0	27-Sep-22											•	Precast OHVD Slab - I		art	
Precast OHVD Slab - 3%	24	27-Sep-22	26-Oct-22												Precast OHVD	Slab - 3%	
Precast OHVD Slab - 6%	24	27-Oct-22	23-Nov-22						·				·			Precast	OHVD Slab - 6%
Precast OHVD Slab - 10%	24	24-Nov-22	21-Dec-22														Preca
Precast OHVD Slab - 20%	24	22-Dec-22	21-Jan-23														
Site Establishment	24	27-Sep-21 A	12-Jan-22 A														
Mortar Plant	24	27-Sep-21 A			· - +		· +		· · · · · · · · · · · · · · · · · · ·	1		· · · · · · · · · · · · · · · · · · ·					
Mortar Plant - Commissioning	24	· · · · · · · · · · · · · · · · · · ·	12-Jan-22 A														
TBMAssembly		29-Nov-21 A							· · · · · · · · · · · · · · · · · · ·						+-		· · · · · · · · · · · · · · · · · · ·
Air / Water / Hydraulic Electrical Connections	22		01-Jan-22 A									·	· · · · · · · · · · · · · · · · · · ·				
Testing & Commissioning	26		12-Jan-22 A		· - +							·					
WB TBM Break-in	0	13-Jan-22 A			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		·					·					
TBM Tunnelling WB TBM Tunnelling CH6642-6659 17m	384		17-Feb-23 19-Jan-22 A														
WB TBM Tunnelling Stoppage due to Active Mortar injection	15		27-Jan-22 A	ection													
WB TBM Tunnelling CH6659-6660 18m			28-Jan-22 A														
·			12-Feb-22 A	ditional Ma	cc Fill												
WB TBM Tunnelling Stoppage due to Additional Mass Fill WB TBM Tunnelling Stoppage due to Covid-19 outbreak	15		28-Feb-22 A	1		threak						·					
WB TBM Tunnelling CH6660-6665 B/I Plug 23m	3		01-Mar-22 A														
· · ·			10-Mar-22 A			DC 69m						· · · · · · · · · · · · · · · · · · ·					
WB TBM Tunnelling CH6665-6710 ALL/CDG 68m	16		10-Mar-22 A 13-Mar-22 A														
WB TBM Tunnelling CH6710-6725 ALL/CDG 83m	7					J CH6725-6732						·					
WB TBM Tunnelling CH6725-6732 ALL/CDG 90m	/	14-Mar-22 A	04-Apr-22 A			μοτο/40-0/32											
Page 25 of 34				• • <del>•</del>	. –	· · <del>·</del>								Date 18-Dec-19	Revision 00V1	Checked WYu	Approved
Data Date: 03-Sep-22		ED/2	2018/0	U4 Iri	unk F	koad I	2 and	d Inf	rastruct	ture W	/orks			22-Feb-20	01V0	SPa/LLo	WYu
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		02-Jul-21			104	∽v∪			- 19	Ji⁻ d/l	டடப			viu		

Activity Name	Dur	Start	Finish	2022
				April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
Gallery EMVD installation by crawler crane	1	22-Aug-22 A	22-Aug-22 A	Gallery ÉMVD installation by crawler crane
ISIG Commissioning	6	24-Aug-22 A	30-Aug-22 A	I\$IG Commissioning
Gallery G-W5 to G-W11 installation by ISIG	3	31-Aug-22 A	06-Sep-22	Gallery G-W5 to G-W11 installation by ISIG
WB ISIG Gallery B Installation start	0	31-Aug-22 A		◆ WB ISIG Gallery B Installation start
Gallery B installation FTR-11 to FTR-7	3	07-Sep-22	09-Sep-22	Gallery B installation FTR-11 to FTR-7
Steel Bridge Installation	1	10-Sep-22	10-Sep-22	t Steel Bridge Installation
WB Sub-sea Galery B Installation started	0	13-Sep-22		◆ WB Sub-sea Galery B Installation started
WB Gallery B CH6642-6742 100m @4nos/day	11	13-Sep-22	24-Sep-22	WB Gallery B CH6642-6742 100m @4nos/day
WB Gallery B CH6742-6855 80m @6nos/day	6	26-Sep-22	03-Oct-22	WB Gallery B CH6742-6855 80m @6nos/day
SUB-SEA TBM TUNNEL - EASTBOUND	333	14-Dec-21 A	23-Jan-23	
TBMAssembly				
Lifting & Welding of Tailskin to Shield	62	14-Dec-21 A	06-Jan-22 A	
Air / Water / Hydraulic Electrical Connections		20-Dec-21 A		
Testing & Commissioning	26	26-Dec-21 A	10-Mar-22 A	ssioning
Thrust Frame Installation	22	30-Dec-21 A	06-Jan-22 A	
Power On	3	07-Jan-22 A	07-Jan-22 A	
S1282 EB TBM Break-in	0		10-Mar-22 A	Break-in
TBM Tunnelling	280	11-Mar-22 A	23-Jan-23	
EB TBM Tunnelling CH6640-6665 B/I Plug 25m	16	11-Mar-22 A	25-Mar-22 A	TBM Tunnelling CH6640-6665 B/I Plug 25m
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m	15	26-Mar-22 A	02-Apr-22 A	EB TBM Tunnelling CH6665-6710 ALL/CDG 70m
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	7	03-Apr-22 A	27-Apr-22 A	EB TBM Tunnelling CH6710-6756 ALU/CDG 116m
EB TBM Tunnelling CH6756-6775 CDG/Boulder 135m	4	28-Apr-22 A	04-May-22 A	EB TBM Tunnelling CH6756-6775 CDG/Boulder 1:35m
WB TBM Stoppage for ISIG 1 Installation	9	06-May-22 A	12-May-22 A	WB TBM Stoppage for ISIG 1 Installation
EB TBM Tunnelling CH6775-6789 CDG/Boulder 149m	3	13-May-22 A	21-May-22 A	EB TBM Tunnelling CH6775-6789 CDG/Boulder 149m
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m	38	22-May-22 A	21-Jun-22 A	EB TBM Tunnelling CH6789-7098 ALL/CDG 458m
EB TBM Tunnelling CH7098-7198 ALL/CDG 558m	11	22-Jun-22 A	28-Jun-22 A	EB TBM Tunnelling CH7098-7198 ALL/CDG 558m
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m	2	29-Jun-22 A	05-Jul-22 A	EB TBM Tunnelling CH7198-7218 ALL/CDG 578m
EB TBM Tunnelling CH7218-7240 CDG/Boulder 600m	3	06-Jul-22 A	12-Jul-22 A	EB TBM Tunnelling CH7218-7240 CDG/Bpulder 600m
EB TBM Tunnelling CH7240-7284 ALL/CDG 644m	4	13-Jul-22 A	28-Jul-22 A	EB TBM Tunnelling CH7240-7284 ALL/CDG 644m
EB TBM Tunnelling CH7284-7379 ALL/CDG 739m	9	29-Jul-22 A	15-Aug-22 A	EB TBM Tunnèlling ¢H7284-7379 ALU/CDG 739m
EB TBM Tunnelling CH7379-7391 CDG/Boulder 751m	2	16-Aug-22 A	17-Aug-22 A	■ EB TBM Turnelling CH7379-7391 CDG/Boulder 7,51m
EB TBM Tunnelling CH7391-7434 Boulder 794m	7	18-Aug-22 A	05-Sep-22	EB TBM Tunnelling CH7391-7434 Boulder 794m
EB TBM Tunnelling CH7434-7466 CDG/Boulder 826m	4	06-Sep-22	09-Sep-22	EB TBM Tunnelling CH7434-7466 CDG/Boulder:826m
EB TBM Tunnelling CH7466-7623 ALL/CDG 983m	15	10-Sep-22	24-Sep-22	EB TBM Tunnelling CH7466-7623 ALL/CDG 983m
EB TBM Tunnelling CH7623-7650 CDG/Boulder 1010m	4	25-Sep-22	28-Sep-22	EB TBM Tunnelling CH7623-7650 CDG/Boulder 1/010m
EB TBM Tunnelling CH7650-8445 ALL/CDG 1805m	67	29-Sep-22	04-Dec-22	EB;TBM Tunnelling C
EB TBM Tunnelling CH8445-8510 CDG/Boulder 1870m	9	05-Dec-22	13-Dec-22	EB TBM Tun
EB TBM Tunnelling CH8510-8522 ALL/CDG 1882m	1	14-Dec-22	14-Dec-22	I EB TBM Tur
EB TBM Tunnelling CH8522-8532 CDG/Boulder 1892m	1	15-Dec-22	15-Dec-22	I EB TBM Tu
Page 27 of 34 ♦ Milestone	<u> </u>			Date Revision Checked Approved
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	18-Dec-19	00V1	WYu	
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	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu
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Activity Name	Dur	Start F	ish		i	I					2022			-						
			03	April 10 17 24	May 01 08 15	5 22 29 C	June )5 12 19 26	03 1	July 0 17 24		ugust 14 21	28 04	September 11 18	25 02	October 09 16 23	30 00	November 6 13	20 27 0	Decembe	er 18 25
EB TBM Tunnelling CH8532-8730 Boulder/Granite 2090m	39	16-Dec-22 23-	in-23																	
Gallery B Installation	295		ec-22																· · · · · · · · · · · · · · · · · · ·	
EB TBM Tunnel - Gallery B CH6904-7004 100m CP10	7	30-Jul-22 A 17-A	g-22 A								EB TBM	_	Gallery B C H69							
EB TBM Tunnel - Gallery B CH7004-7103 100m CP11	9	18-Aug-22 A 03-S	o-22 A									EI	3 TBM Tunnel - (	Gallery B C F	17004-7103 100	0m CP11				
EB TBM Tunnel - Gallery B CH7103-7203 100m CP12	9	05-Sep-22 15-	p-22										EB TBN	1 Tunnel - G	allery B C H710	3-7203 100	)m CP12			1
EB TBM Tunnel - Gallery B CH7203-7303 100m CP13	8	16-Sep-22 24-	ep-22											EB TBM Tu	nnel - Gallery B	CH7203-7	303 100m	CP13		
EB TBM Tunnel - Gallery B CH7303-7403 100m CP14	8	26-Sep-22 06-	ct-22											E	B TBM Tunnel	- Gallery B	CH7303-7	403 100m CP	14	
EB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	13-Oct-22 20-	ct-22												EB	TBM Tunne	el - Gallery	B CH7403-75	03 100m CF	P15
EB TBM Tunnel - Gallery B CH7503-7603 100m CP16	7	21-Oct-22 28-	ct-22						+++++							EB TBM	I Tunnel - C	Gallery B C H 7	503-7603 10	00m CP16
EB TBM Tunnel - Gallery B CH7603-7703 100m CP17	8	10-Nov-22 18-I	ov-22													· - ±		EB TBM Tunr	el - Gallery	B C H 760:
EB TBM Tunnel - Gallery B CH7703-7803 100m CP18	7	19-Nov-22 26-I	ov-22															📕 ЕВТВ	1	Gallery B (
EB TBM Tunnel - Gallery B CH7803-7903 100m CP19	7	08-Dec-22 15-I	ec-22													· - <del> </del> - <mark></mark>			E	B TBM Tu
EB TBM Tunnel - Gallery B CH7903-8001 100m CP20	7	16-Dec-22 23-I	ec-22																	EB1
Forecast	224	28-Jan-22 A 20-J	I-22 A													- +				
Spreader Beam, Hook, Hook Block etc(from Italy by sea)	56	28-Jan-22 A 05-N	r-22 A k, Hook E	lock etc (from	ltaly by sea)										·	· - +				
Front Ramp (from China by road)	9	11-Feb-22 A 19-F	o-22 A												· J	· - 4				
Mild and Rear Ramp + Loader (from China by road)	9	14-Feb-22 A 22-F	p-22 A (from Chir	na by road)			<u>-</u>													
Ramp pre-assembly at surface	24	11-Apr-22 A 25-A	r-22 A	F	Ramp pre-assemb	ly at surface														
Shifting way curve shape extension & Footing	6	25-Apr-22 A 04-M	y-22 A		Shifting wa	y curve shape ex	tension & Footing									· - + -				
Loader pre-asembly	10	26-Apr-22 A 04-M	y-22 A		Loader pre	-asembly										- +				
Construction of Notch/Mass Fill to C&C Road Level	9	05-May-22 A 12-M	y-22 A		Cor	nstruction of Notch	h/Mass Fill to C&C R	oad Level							· d	· - #				
Lower ISIG into Shaft	3	05-May-22 A 12-M	y-22 A		Lov	ver ISIG into Shaf	t									· - +				
Thrust Frame Removal (TBC)	6	13-May-22 A 19-M	y-22 A			Thrust Frame I	Removal (TBC)													
Install and Assembly of Spreader beam etc	6	13-May-22 A 23-M	y-22 A			Install and	Assembly of Spreade	er beam et	C											
ISIG Commissioning	6	13-May-22 A 30-M	y-22 A			ISIG	Commissioning								·					
Gallery G-E1 to E4 by crawler crane @ 1 no/d	2	23-May-22 A 25-M	y-22 A			🗖 Gallery G	i-E1 to E4 by crawler	¢rane @	1 no/d							·				· 4
Gallery EMVD installation by crawler	1	26-May-22 A 27-M	y-22 A			Gallery	EMVD installation by	/ crawler							·	· - +				
EB ISIG Gallery B Installation start	0	31-May-22 A				🔶 EB I	SIG Gallery B Install	ation start												
Gallery G-E5 to G-E11 installation by ISIG	3	31-May-22 A 13-J	1-22 A				Gallery G-E5	to G-E11	installation by ISI	Ĵ										
Steel Bridge Installation	1	14-Jun-22 A 15-J	1-22 A			+	Steel Bridg	eInstallati	on							- +				
Gallery B installation inside FTR-1 to FTR-7	3	16-Jun-22 A 18-J	1-22 A				🗖 Gallery E	3 installatio	on inside FTR-1 to	FTR-7	         				·	- +				
EB Gallery B CH6642-6742 100m @4nos/day	11	20-Jun-22 A 07-J	I-22 A					E	3 Gallery B CH66	42-6742 10	0m @4nos/da	y			· · · · · · · · · · · · · · · · · · ·					
EB Gallery B CH6742-6855 80m @6nos/day	6	08-Jul-22 A 20-J	I-22 A					· · · · · · · · · · · · · · · · · · ·	EB Gall	ery B CH67	42-6855 80m	@6nos/c	lay			· - + -				
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a/b)	336	10-May-21 A 14-I	eb-23																	
CP TBM Design / Fabrication / FAT / Delivery		10-May-21 A 19-N																		
Fabrication / Refurbishment		10-May-21 A 10-F																		
FAT	24	11-Feb-22 A 28-F	o-22 A																	
Delivery of TBM components to the Site	24	01-Mar-22 A 19-M	r-22 A of TBM co	omponents to th	ne Site															
CP Precast Lining Fabrication	253	17-Dec-21 A 30-I	ec-22							1							· · · · ·			

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

Activity Name	Dur	Start	Finish	2022
				April     May     June     July     August     September     October     November     December       03     10     17     24     01     08     15     22     29     05     12     19     26     03     10     17     24     31     07     14     21     28     04     11     18     25     02     09     16     23     30     06     13     20     27     04     11     18     25
CP Precast Lining Segment - 3%	18	17-Dec-21 A	15-Jan-22 A	
CP Precast Lining Segment - 6%	18	17-Jan-22 A	29-Jan-22 A	
CP Precast Lining Segment - 10%	24	31-Jan-22 A	19-Feb-22 A	
CP Precast Lining Segment - 20%	24	21-Feb-22 A	30-Mar-22 A	CP Precast Lining Segment - 20%
CP Precast Lining Segment - 30%	5	31-Mar-22 A	26-Apr-22 A	CP Preçast Lining Segment 30%
CP Precast Lining Segment - 40%	24	27-Apr-22 A	23-May-22 A	CP Precast Lining Segment - 40%
CP Precast Lining Segment - 50%	24	24-May-22 A	03-Sep-22 A	CP Precast Lining Segment + 50%
CP Precast Lining Segment- 60%	24	05-Sep-22	05-Oct-22	CP Precast Lining Segment- 60%
CP Precast Lining Segment - 70%	24	06-Oct-22	02-Nov-22	CP Precast Lining Segment - 70%
CP Precast Lining Segment - 80%	24	03-Nov-22	30-Nov-22	CP Precast Lining Segm
CP Precast Lining Segment - 90%	24	01-Dec-22	30-Dec-22	
WB CP Tympanum Structure	84	05-Oct-22	13-Jan-23	
CP7 - WB - Tympanum Civil works CH6705	24	05-Oct-22	01-Nov-22	CP7 - WB - Tympanum Civil works CH6705
CP8 - WB - Tympanum Civil works CH6803	24	19-Oct-22	15-Nov-22	CP8 - WB - Tymparium Civil works CH
CP9 - WB - Tympanum Civil works CH6904	24	02-Nov-22	29-Nov-22	CP9 - WB - Týmparlum C
CP10 - WB - Tympanum Civil works CH7004	24	16-Nov-22	13-Dec-22	CP10-WB-
CP11 - WB - Tympanum Civil works CH7103	24	30-Nov-22	29-Dec-22	
CP12 - WB - Tympanum Civil works CH7203	24	14-Dec-22	13-Jan-23	
EB CP Tympanum Structure	108	05-Sep-22	14-Jan-23	
CP7 - EB - Tympanum Civil works CH6705		05-Sep-22*	05-Oct-22	CP7 - EB - Tympanum Civil works CH6705
CP8 - EB - Tympanum Civil works CH6803	24	20-Sep-22	19-Oct-22	CP8 - EB - Tympanum Civil works CH 6803
CP9 - EB - Tympanum Civil works CH6904	24	06-Oct-22	02-Nov-22	CP9 - EB - Tympanum Civil works CH6904
CP10 - EB - Tympanum Civil works CH7004	24	20-Oct-22	16-Nov-22	CP10 - EB - Tympanum Civil works C
CP11 - EB - Tympanum Civil works CH7103	24	03-Nov-22	30-Nov-22	CP11 - EB - Tympanum
CP12 - EB - Tympanum Civil works CH7203	24	17-Nov-22	14-Dec-22	CP12 +EB -
CP13 - EB - Tympanum Civil works CH7303	24	01-Dec-22	30-Dec-22	
CP14 - EB - Tympanum Civil works CH7403	24	15-Dec-22	14-Jan-23	
CP TBM Pipe Jacking	70	02-Nov-22	10-Jan-23	
CP7 to CP8	70	02-Nov-22	10-Jan-23	
CP7 - CP TBM cyde - Learning Curve	42	02-Nov-22	13-Dec-22	CP7-CPTB
CP8 - CP TBM cyde - Learning Curve	28	14-Dec-22	10-Jan-23	
CP Internal & Collar Structure	48	14-Dec-22	14-Feb-23	
CP7 - Internal & Collar Structure	48	14-Dec-22	14-Feb-23	
SUB-SEA TUNNEL INTERNAL & FINISHING	50	02-Nov-22	31-Dec-22	
Corbel	50	02-Nov-22	31-Dec-22	
Westbound WB - TBM Tunnel - Corbel Structure up to CP7	<u>50</u> 9	02-Nov-22 02-Nov-22	31-Dec-22 11-Nov-22	WB - TBM Turnel - Corbel Structure up to
WB - TBM Tunnel - Corbel Structure up to CP8	14	16-Nov-22	01-Dec-22	WB - TBM Tunnel:- Corl
WB - TBM Tunnel - Corbel Structure up to CP9	14	30-Nov-22	15-Dec-22	WB - TBM
WB - TBM Tunnel - Corbel Structure up to CP10	14	14-Dec-22	31-Dec-22	
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cs	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	Start Finish							-	2022								
			April	May 01 08 15 22	29 05	June 12 19 26	03 1	July 0   17   24	31	August 07 14 21 2	September 8 04 11 18	25 (	October	Nove	mber 3 20	27 04	ecember	25
Eastbound	4 14-	Dec-22 17-Dec-22																
EB - TBM Tunnel - Corbel Structure up to CP7	4 14-	Dec-22 17-Dec-22															📕 EB -	TBM
Fire Board - Tunnel Crown	4 19-	Dec-22 22-Dec-22																
Eastbound	4 19-	Dec-22 22-Dec-22								· · · · · · · · · · · · · · · · · · ·		· - +						
EB - TBM Tunnel - Fire board - Tunnel Crown up to CP7	4 19-	Dec-22 22-Dec-22																EB-
CHA KWO LING ROAD WORKS	151 19-A	pr-21 A 30-Mar-22	4															
Wai Yip Street / Cha Kwo Ling Road Junction	151 19-A	pr-21 A 30-Mar-22	A															
Reinstatement	30 19-A	pr-21 A 30-Mar-22	A Reinstatement															
Section 8E Completion	0	30-Mar-22	A Section 8E Completion															
DRILL & BREAK TUNNEL [D&BR]	319 06-D	ec-21 A 01-Feb-23						++		·								
Tunnel Excavation	354 06-D	ec-21 A 21-Dec-22					J l I I I I I I			· · · · · · · · · · · · · · · · · · ·		- <b>1</b>					J.       	
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40 06-D	ec-21 A 22-Jan-22	A p															
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72 23-D	ec-21 A 27-Aug-22	A								B D&Br Tunnel - (	CH9055-90	20 Type D - Excav	ation Bench & SG				
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39 24-J	an-22 A 03-May-22	A	EB - D&Br Tunnel - C	CH9010-84	995 Type D - Excav	ation Top			·								
Probe hole at CH8995	1 04-N	ay-22 A 04-May-22	A	Probe hole at CH899	95													
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	50 05-N	ay-22 A 16-Jul-22 A	、   · · · · · · · · · · · · · · · · · ·					EB - D&Br	Tunnel	I - CH8995-8976 Typ	e D - Excavation To	p						
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	60 29-A	ug-22 A 27-Oct-22							L			·		EB - D&Br Tun	nel - CH90	20-8990 Typ	e D - Excav	ation
EB - D&Br Tunnel - CH8990-8976 Type D - Excavation Bench & SG	55 28-	Oct-22 21-Dec-22								·							Ę	B - C
Cross Passage	30 22-	Dec-22 01-Feb-23												+				
CP30	30 22-	Dec-22 01-Feb-23								·								
CP30 - Excavation - Drill & break	30 22-	Dec-22 01-Feb-23																
DRILL & BLAST TUNNEL [D&BL]	332 14-D	ec-21 A 19-Jan-23																
Tunnel Excavation	28 14-D	ec-21 A 29-Jan-22	<b>\</b>															
Eastbound	28 14-D	ec-21 A 29-Jan-22	<b>\</b>															
Full Face Drill & Blast		ec-21 A 29-Jan-22									L J		· · · · · · · · · · · · · · · · · · ·					
EB - D&BI Tunnel - Branch Tunnel S01	28 14-D	ec-21 A 29-Jan-22	A															
Tunnel Structure WB Type A	137 30-D						ļ											
SUS - OHVD Formwork Assembly	18 27	ul-22 A 10-Sep-22									SU\$-C	HVD Form	work Assembly					
SUS - WB OHVD	96 13-	Sep-22 07-Jan-23																_
TBM Dismantling Preparation	52 03-	Nov-22 05-Jan-23													· · · ·			
WB - TBM Dismantling - Dismantling Cavern Enlargement	26 03-1	lov-22* 02-Dec-22														<b>WB</b> - 1	TBM Disman	ntling
WB - TBM Dismantling - Dismantling Gantry Installation	26 03-	Dec-22 05-Jan-23																
SG Preparation	10 10-	Sep-22 22-Sep-22																
WB - Bay 11 - CH9251-9258 - Kicker (SG side)	5 10-	Sep-22 16-Sep-22									WE WE	3 - Bay 1 1 -	СН9251-9258 К	icker (SG side)				
WB - Bay 10 - CH9239-9251 - Kicker (SG side)	5 17-	Sep-22 22-Sep-22										I WB - Ba	y 10 - CH9239-925	51 - Kicker (SG side	)			
SG Installation	40 30-D	ec-21 A 09-Sep-22					· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		· - †						
WB - Bay 7 - C H9203-9215 - SG Installation	3 30-D	ec-21 A 03-Jan-22	A															
WB - Bay 8 - C H9215-9227 - SG Installation	3 04-J	an-22 A 06-Jan-22	A															
WB - Bay 9 - C H9227-9239 - SG Installation	3 07-J	an-22 A 22-Jan-22	<b>A</b>															
WB - Bay 11 - CH9251-9258 - SG Installation	2 05-	Sep-22 06-Sep-22											1-9258 - SG Install					
WB - Bay 10 - CH9239-9251 - SG Installation	3 07-	Sep-22 09-Sep-22									🔲 WB - Bay	/10-CH92	239-9251 - SG Inst	allation				
Kicker	10 23-	Sep-22 06-Oct-22										1 1 1 1 1 1						
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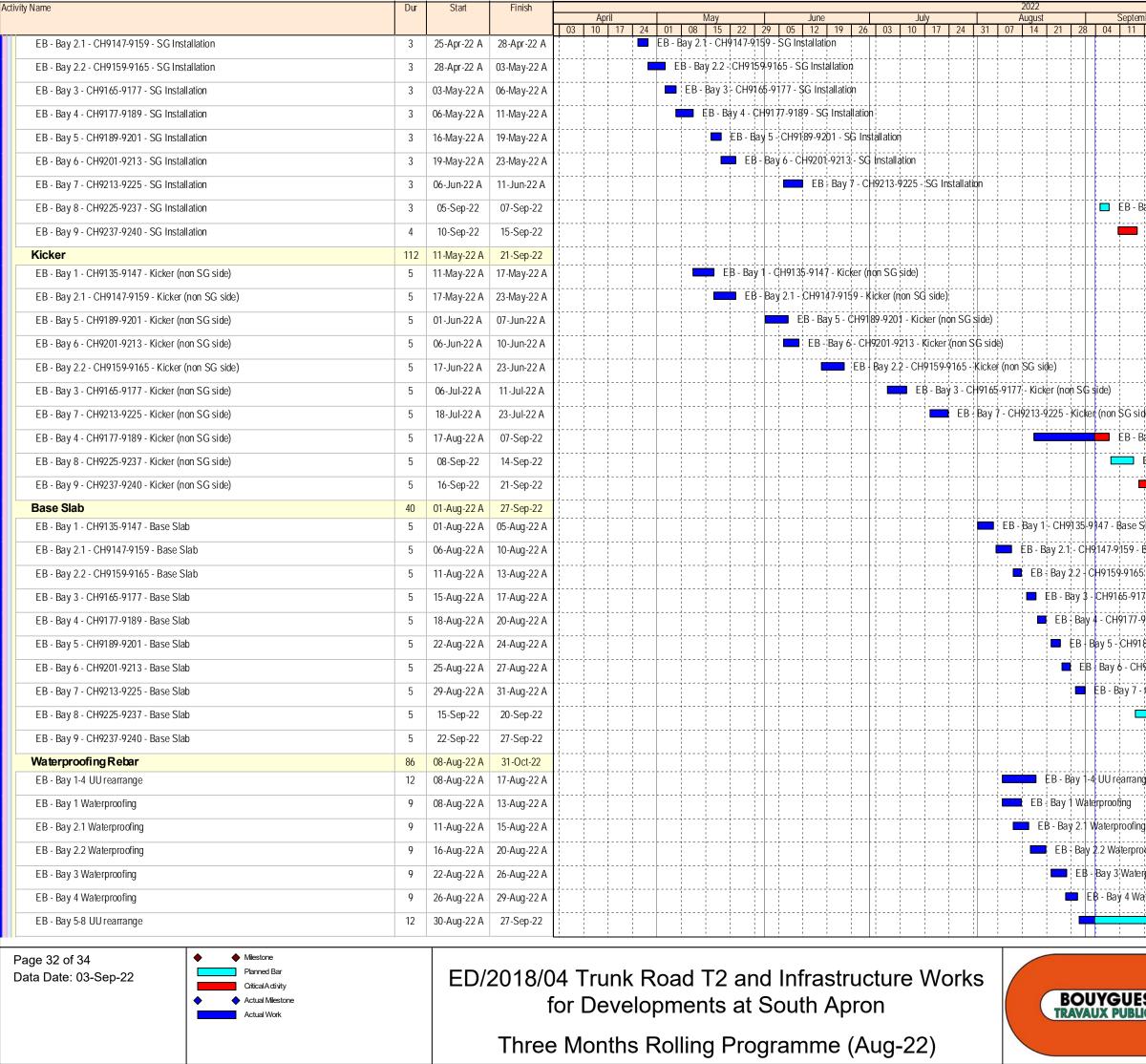
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur S	itart Finish						2022							
			April	May 4 01 08 15 22	29 05	June 12 19 26 03	July 3   10   17   2	August	21 28 04 1	tember 1 18 25	October 02 09 16 23	Nove 30 06 1		December 04 11 18	25
WB - Bay 11 - CH9251-9258 - Kicker (non SG side)	5 23-5	Sep-22 28-Sep-22								V L	/B - Bay 11 - CH9251	-9258 - Kicker (nc	n SG side)		
WB - Bay 10 - CH9239-9251 - Kicker (non SG side)	5 29-5	6ep-22 06-Oct-22									🔲 WB - Bay 10 - C	H9239-9251 - Kic	ker (non SG side	(٤	
Base Slab	6 07-0	Oct-22 13-Oct-22													
WB - Bay 11 - CH9251-9258 - Base Slab	3 07-0	Oct-22 10-Oct-22									🛄 WB - Bay 11	- CH9251-9258 -	Base Slab		
WB - Bay 10 - CH9239-9251 - Base Slab	3 11-0	Oct-22 13-Oct-22									🗖 🛛 WB - Bay	10 - CH9239-925	I - Base Slab		4
Waterproofing Rebar	6 14-0	Oct-22 20-Oct-22													
WB - Bay 10-11 Waterproofing	6 14-0	Oct-22 20-Oct-22									WB	- Bay 10-11 Wate	rproofing		
Tunnel Structure EB Type A	282 05-Ja	in-22 A 05-Jan-23										· - <del>;</del> ;			
East Bound New Blast Door Installation	12 05-Ja	in-22 A 28-Feb-22 A	or Installation												
East Bound New Blast Door CNP Application	16 01-Fe	eb-22 A 30-Mar-22 A	East Bound New Blast												
Removal of old Blast Door	22 08-M	ar-22 A 13-Apr-22 A	Removal of	f old Blast Door											
EB - Overbreak Concreting	26 09-M	ar-22 A 09-Apr-22 A	EB Overbrea	ak Concreting											
Earth Mat Installation	38 22-Ja	in-22 A 11-Mar-22 A										· - 1		·····	4
Earth Mat 8 Drilling	3 22-Ja	in-22 A 25-Jan-22 A													
Earth Mat 7 Drilling	3 26-Ja	in-22 A 28-Jan-22 A													
Earth Mat 6 Drilling	3 28-Ja	in-22 A 31-Jan-22 A													
Earth Mat 5 Drilling	3 04-Fe	eb-22 A 07-Feb-22 A													
Earth Mat 4 Drilling	3 07-Fe	eb-22 A 09-Feb-22 A													
Earth Mat 3 Drilling	3 10-Fe	eb-22 A 12-Feb-22 A													
Earth Mat 2 Drilling	3 12-Fe	eb-22 A 15-Feb-22 A													
Earth Mat 1 Drilling	3 16-Fe	eb-22 A 18-Feb-22 A													
Earth Mat 8-5 Installation	8 18-Fe	eb-22 A 28-Feb-22 A			+										
Earth Mat 4-1 Installation	8 28-Fe	eb-22 A 09-Mar-22 A	allation												
		ar-22 A 10-Mar-22 A													
Earth Mat 4-1 Testing		ar-22 A 11-Mar-22 A			+							· - <del> </del>			
		pr-22 A 09-Sep-22			+							· - +			
EB - Bay 1-4 SG Preparation		pr-22 A 07-36p-22 pr-22 A 06-May-22 A		EB - Bay 1-4 SG P	reparation		·····				·	· - +		  	
EB - Bay 5-8 SG Preparation		ay-22 A 19-Jul-22 A	_		+	1 1 1 1 1 	EB-	Bay 5-8 SG Préparati	on						
EB - Bay 6 - CH9201-9213 - Kicker (SG side)		In-22 A 27-Jun-22 A						213 Kicker (SG side)			·	+			
EB - Bay 4 - CH9177-9189 - Kicker (SG side)		In-22 A 29-Jun-22 A						9189 - Kiçker (SG side	·····			· - +			
								9189-9201 - Kicker (SC				· - +			
EB - Bay 5 - CH9189-9201 - Kicker (SG side)		In-22 A 05-Jul-22 A													
EB - Bay 2.2 - CH9159-9165 - Kicker (SG side)		ul-22 A 16-Jul-22 A						ay 2.2 - CH9159-9165							
EB - Bay 3 - CH9165-9177 - Kicker (SG side)		ul-22 A 18-Jul-22 A						Bay 3 - CH9165-9177							
EB - Bay 2.1 - CH9147-9159 - Kicker (SG side)		ul-22 A 21-Jul-22 A						3 - Bay 2.1 - CH9147-9							
EB - Bay 1 - CH9135-9147 - Kicker (SG side)	5 09-A	ug-22 A 13-Aug-22 A							Bay 1 - CH9135-914						
EB - Bay 7 - CH9213-9225 - Kicker (SG side)	5 15-A	ug-22 A 19-Aug-22 A							EB - Bay 7 - CH9213	3-9225 - Kicker (	SG side)				
EB - Bay 8 - CH9225-9237 - Kicker (SG side)	5 05-5	Sep-22 09-Sep-22							El	B - Bay 8 - CH92	25-9237 - Kicker (SG	side)			
EB - Bay 9 - CH9237-9240 - Kicker (SG side)	5 05-5	Sep-22 09-Sep-22							E	B - Bay 9 - CH92	37-9240 - Kicker (SG	side)			1
SG Installation	122 21-A	pr-22 A 15-Sep-22			±						· L J L				
EB - Bay 1 - CH9135-9147 - SG Installation	3 21-A	pr-22 A 25-Apr-22 A		EB - Bay 1 - CH9135-9147 -	SG Installat	tion									
Page 31 of 34   Milestone				<u></u>							Date	Revision	Checked	I Approv	ed
Data Date: 03-Sep-22	E	ED/2018/	04 Trunk F	Road T2 an	d Inf	rastructu	ire Wor	ks 🖊			N	00V1 01V0	WYu SPa/LLo	WYu	
Actual Milestone			for Develo	pments at	Sout	h Anron			BOUYGU	ES		01V0 01V1	SPa/LL0 SPa/LL0	WYu	+
Actual Work				Prilond at	2041				TRAVAUX PUE		17-Jul-20	01V2	SPa/LLo	WYu	
		Thre	e Months I	Rolling Prog	gram	me (Aud	g-22)					01V3 02V0	SPa/LLo SPa/LLo	WYu WYu	
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EB - Bay 9	- CH92	37-92	40 - SC	G Insta	allation	1	. = = =						
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Bay 4 - CH91	77-918	39 - Kic	cker (n	on SG	side)		,     	,     		,   	1		
EB - Bay 8	CH922	25-923	7 - Kiç	ker (n	on SG	side)	     						
EB-E	Bay9-	CH92	37-924	0 - Kic	ker (n	on SG	side)						
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Slab							L I I						
Base Slab							       						
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77 - Base Sl							     					   	
9189 - Base													
89-9201 - B	ase Sla	b					·						
9201-9213	Base	Slab						 					
CH9213-92	25 - Ba	ise Sla	b				, , , ,			- +			
<b>EB</b> - B	ay 8 - 0	CH922	5-9237	- Bas	e Slat	)	 						
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	EB - Ba	y 5-8 I	JUrea	rranae	;   ;		     						
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		8-Dec			0V1			WYu SPa/I	10		\\\\\		
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CS	1	7-Jul-	-20	0′	1V2		ę	SPa/L	Lo		WYu		
			+ 20	~	11/2		Ta		10		14/201		Г

09-Oct-20

02-Jul-21

01V3

02V0

SPa/LLo

SPa/LLo

WYu

WYu

Activity Name	Dur	Start	Finish								2022				
				03 1	April		22 29 05	June 12 19 2	6 03	July 10 17 24	August	September 28 04 11 18 25 02	October	November           30         06         13         20	December 27 04 11 18 25
EB - Bay 5 Waterproofing	9	31-Aug-22 A	02-Sep-22 A									EB - Bay 5 Waterproofing			
EB - Bay 6 Waterproofing	9	01-Sep-22 A	03-Sep-22 A					+		· · · · · · · · · · · · · · · · · · ·		EB + Bay 6 Waterproofing			
EB - Bay 9 Waterproofing	9	28-Sep-22	10-Oct-22				•			        			EB - Bay 9 Wa	erproofing	
EB - Bay 7 Waterproofing	9	11-Oct-22	20-Oct-22	4			· · · · · · · · · · · · · · · · · · ·			ii 			EB - B	ay 7 Waterproofing	
EB - Bay 8 Waterproofing	9	21-Oct-22	31-Oct-22											EB - Bay 8 Waterpropt	fing
Lining	70	13-Oct-22	05-Jan-23		+			+							
EB - Lining Fwk Type A Assembly	30	13-Oct-22	16-Nov-22					· · · · · · · · · · · · · · · · · · ·						EB - Lini	ing Fwk Type A Assembly
EB - D&BI Tunnel - CH9225-9135 Type A&B - Lining Structure	40	17-Nov-22	05-Jan-23					+							
Tunnel Structure EB Type C	227	19-Apr-22 A	19-Jan-23				+	+		+					
EB - Earth Mat 9-11 Drilling	8	19-Apr-22 A	27-Apr-22 A			EB - Earth Mat 9-11	1 Drilling								
EB - Earth Mat 9-11 Drilling, Installation and Testing	11	22-Apr-22 A	06-May-22 A				Mat 9-11 Drilling, I		Festing						
EB - Earth Mat 9-11 Installation	6	27-Apr-22 A	05-May-22 A			EB - Earth N	at 9-11 Installatio	,							
EB - Earth Mat 9-11 Testing	1	05-May-22 A	06-May-22 A			EB - Earth I	Mat 9-11 Testing	T							
EB - D&BI Tunnel - CH9135-9100 Type A - SG Preparation	12	06-May-22 A	21-May-22 A				EB - D&BI Tunr	el - CH9135-91	00 Type A	SG Preparatio	n				
EB - D&BI Tunnel - CH9135-9100 Type A - SG Installation	8	23-May-22 A	21-Jun-22 A				+	EB -			100 Type A - SG Installat				
EB - D&BI Tunnel - CH9135-9100 Type A - Kicker	15	22-Jun-22 A	16-Sep-22										nel - CH9135-9100 Ty	pe A Kicker	
EB - D&BI Tunnel - CH9135-9100 Type A - Base slab	20	17-Sep-22	12-Oct-22					+					EB - D&BI Tu	nnel - CH9135-9100 Type	A - Base slab
EB - Earth Mat 12-17 Drilling	15	13-Oct-22	29-Oct-22				· · · · · · · · · · · · · · · · · · ·	+						EB - Earth Mat 12-17 Dr	illing
EB - Earth Mat 12-17 Drilling, Installation and Testing	18	24-Oct-22	14-Nov-22					+						EB - Earth	Mat 12-17 Drilling, Installatic
EB - Earth Mat 12-17 Installation	12	31-Oct-22	12-Nov-22						-					EB - Earth N	Mat 12-17 Installation
EB - D&BI Tunnel - CH9100-9050 Type A - SG Preparation	18	14-Nov-22	03-Dec-22					<b>1</b>							EB D&Bl Tunnel - Cl
EB - Earth Mat 12-17 Testing	0	14-Nov-22	14-Nov-22	4			+	<u>+</u>						♦ EB - Earth	Mat 12-17 Testing
EB - D&BI Tunnel - CH9100-9050 Type A - SG Installation	12	05-Dec-22	17-Dec-22					$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$							EB - D&B
EB - D&BI Tunnel - CH9100-9050 Type A - Kicker	25	19-Dec-22	19-Jan-23												
Tunnel Structure EB Type A (D&Br)	17	22-Dec-22	13-Jan-23				*	+							
EB - D&BI Tunnel - CH8988-9050 Type A - SG Preparation	17	22-Dec-22	13-Jan-23		+										
Tunnel Structure S01 Branch Tunnel		15-Feb-22 A	05-Jan-23	             			· · · · · · · · · · · · · · · · · · ·								
EB - D&BI Tunnel - S01 Branch Tunnel - Exc. for Drainage		15-Feb-22 A	28-Feb-22 A	ranch Tun	nnel - E	Exc. for Drainage									
EB - D&BI Tunnel - S01 Branch Tunnel - Drainage Installation		11-Jul-22 A	10-Sep-22									EB - D&BI Tunnel - S			
EB - D&BI Tunnel - S01 Branch Tunnel - Base Slab & Kicker (3d/bay)	21	20-Jul-22 A	26-Sep-22									EB-C	0&Bl Tunnel - S01 Bra	nch Tunnel - Base Slab &	Kicker (3d/bay)
EB - Lining Fwk S01 Branch Tunnel Assembly		29-Nov-22	05-Jan-23												
Cross Passage		15-Feb-22 A	17-Jan-23												
CP33		15-Feb-22 A	17-Jan-23												
EB - D&BI Tunnel - CP33 48m (5 blasts)	5	15-Feb-22 A	19-Feb-22 A	olasts)				, I I I I I I I I I I I I I I							
EB - D&BI Tunnel - CP33 48m (37 blasts)			20-Jun-22 A					EB -	D&BI Tunn	el - CP33 48m	(37 blasts)				
EB - D&Br Tunnel - CP33 (5m plug)		03-Dec-22	17-Jan-23					· · · · · · · · · · · · · · · · · · ·							
EAST VENTILATION BUILDING [EVB]		13-Mar-21 A	26-Jan-23					· · · · · · · · · · · · · · · · · · ·							
Excavation		13-Mar-21 A						· · · · · · · · · · · · · · · · · · ·							
Westbound		13-Mar-21 A													
Westbound Excavation	66	13-Mar-21 A	15-Feb-22 A												
		1											Date	Revision Che	

Page 33 of 34 Data Date: 03-Sep-22 Milestone
Milestone
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 Actual Milestone
 Actual Work

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

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Activity Name	Dur	Start	Finish	2022																													
					April		N	Иау		June July August September October November							December																
				03 1	0 17 2	24 0	01 08	15 22	29	05	12 1	9 26	03	10	17 24	31	07	14	21 28	04	11 1	8 25	02	09	16 23	30	06	13	20	27 0	)4 1	1 18	25
Eastbound	143	05-Mar-22 A	20-Aug-22 A																						ĺ								
Eastbound Excavation	143	05-Mar-22 A	20-Aug-22 A																Eastbou	nd Exca	vation												
Foundation / Portal Structure	239	16-Feb-22 A	26-Jan-23																														
Westbound	239	16-Feb-22 A	26-Jan-23												į								i i	i i							į		: 1
Trench Excavation	24	16-Feb-22 A	26-Mar-22 A							1									1													· · · · · · · · · · · · · · · · · · ·	
EVB - WB Earth Mat Installation	12	28-Mar-22 A	20-Apr-22 A		EVI	B-WB	B Earth Ma	at Installatio	n	1				+-																			
EVB - WB Drainage & Blinding	18	21-Apr-22 A	19-Jul-22 A										J L-		EVB	- WB Dra	Ŭ į																
EVB - WB Foundation & SG Level Walls & Slab	91	20-Jul-22 A	31-Oct-22																								VB - W	/B Fou	ndation	& SG L	evel W	Valls & Sla	ab
EVB - WB Tunnel & Plenum Level Wall & Column	48	01-Nov-22	28-Dec-22																														
EVB - WB Tunnel & Plenum Level Beam & Slab	36	09-Dec-22	26-Jan-23				;;																										
Eastbound	90	22-Aug-22 A	04-Jan-23											+-														F 4					
Trench Excavation	18	22-Aug-22 A	15-Sep-22																			enchEx	1										
EVB - EB Earth Mat Installation	12	16-Sep-22	29-Sep-22							1													EVB -	EBEạ	th Mat Ir		on						
EVB - EB Drainage & Blinding	18	30-Sep-22	22-Oct-22																						E	VB - EI	3 Draina	age & E	Slinding				
EVB - EB Foundation & SG Level Walls & Slab	60	24-Oct-22	04-Jan-23											·												·		;i					

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Planned Bar Critical A divity

Milestone

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

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