Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

September 2021

(Version 1.0)

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

REMARKS:

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

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

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20 October 2021

By Post and Email

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

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (September 2021) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for September 2021 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 20 October 2021. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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 3.4 of EP-451/2013.

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 Fax: 2739 0076 By email Fax: 3107 1388

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EXECUTIVE SUMMARY

Introduction

1. This is the 19th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of September 2021.

Summary of Main Works Undertaken and Key Measures Implemented

2. The main works undertaken during the reporting period are as follows:

Kai Tak:

- Launching shaft Cell2 Base Slab construction, Tympanum
- Hoi Bun Road Junction Road Improvement works
- Road S20 Road and Drain works
- Road L10 Excavation and ELS
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM delivery
- STP Civil works, Tanks Erection and Assembly
- Segment Yard Civil Works, Gantry Crane Erection
- Foot Bridge (FT-02) H pile installation and Temporary Ramp Construction
- Mortar Plant civil works and assembly, Aggregates Wall Construction
- District Cooling System works at Section 6B
- Depressed Road- Capping Beam, Excavation, Base Slab, Drainage Installation, DCS Pipe Installation, South Apron Adit Wall
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building Wells Installation, Excavation, Steel Deck Erection
- Section 6A Junction & Entrance Sheet Pile
- Workshop Civil Work
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Air Quality

- Water spraying regularly on construction site area to avoid dust generation.
- Excavated dusty materials were covered by impervious sheets.

Noise

- Air compressor was operated with door closed and have valid noise labels.
- Use of Quality Powered Mechanical Equipment (QPME)
- Erecting noise barriers on site to minimize noise impact generated from breaking activities.
- Wrapping up the breaker with acoustic insulation sheets.

Water Quality

• WetSep was constructed to treat the surface runoff prior to discharge.

Landscape and Visual

• Tree protection zone were fenced off to protect the existing tree.

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (September 2021) and the investigation results and/or follow-up actions:

Air Quality Monitoring

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

Construction Noise Monitoring

- No Limit Level exceedance for day time construction noise was recorded in this reporting month.
- No Action Level exceedance was recorded in this reporting month.

Landscape and Visual Monitoring and Audit

• No non-compliance of the landscape and visual impact was recorded in the reporting month. The implementation of landscape and visual and mitigation measures was checked by a Registered Landscape Architect (RLA) during the environmental site inspections.

Complaint Handling, Prosecution and Public Engagement

Table I Summary of Complaint/Summons/Prosecution in the Reporting Month

Event	Event Details		Follow-up/	Status/
Event	Number	Brief Description	Remedial Actions	Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

The key works or activities will be anticipated in the next reporting period are as follows: 6.

Table II Summary Table for Site Activities in the next Reporting Period

Site Activities (October 2021)	Key Environmental Issues
1. Depressed Road- Road Slab	
2. TBM Delivery and Assembly, Sifting way & Rails installation	
3. C&C Permanent Base Slab, S5 & S6 Removal	
4. Road L10 - RC Structure	(A) / (B) / (C) / (D)
5. CUE Section 6A Junction- RC structure	(A) / (B) / (C) / (D)
6. Workshop Assembly	
7. West Ventilation Building – Pumping Test, Steel Strut	
Installation	
8. District Cooling System (DCS) Section 7B	
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.

Review of Status and Location of Monitoring Stations

According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring 7. stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in August 2021 and the review of status and location of monitoring stations are summarized as follow:

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location	
KER1	of KER1, KTD 1, KTD2d, CKL1 and CKL2. To conclude, the environmental	
KTD 1	monitoring conducted at KER1, KTD 1, KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results	N/A
CKL 1	reflect how the sensitive receiver(s) is/are impacted by the construction	
CKL 2	activities of the Project.	

Table III Summary Table for Review of Status and Location of Monitoring Stations

N/A: Not Applicable

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 at Kai Tak area under this Contract is governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the T2 Main Works are shown in Figure 1 and the works to be executed under this Contract and corresponding EP is 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

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: () in EP2/K19/A/21 pt. 6 and () in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: () in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative

based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 3 May 2021 (EPD reference: () in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

Monitoring Works in Cha Kwo Ling under EP-451/2013

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 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

1.7 This is the 19th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in September 2021.

Project Organizations

- 1.8 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)

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

Party	rty Role Contact Person		Phone No.	
CEDD	Permit Holder	older Mr. Wong Chi Wai, Tommy		
HMJV	Supervisor Representative	Mr. Joe Nam	5183 0830	
Cinatash	Environmental Teem	Mr. KS Lee (ETL)	2151 2091	
Cinotech	Environmental Team	Ms. Karina Chan	2157 3880	

Table 1.1Key Project Contacts

Party	Role Contact Person		Phone No.
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan	5185 4462

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

Construction Activities undertaken during the Reporting Month

1.11 The major site activities undertaken in the reporting month included:

Kai Tak:

- Launching shaft Cell2 Base Slab construction, Tympanum
- Hoi Bun Road Junction Road Improvement works
- Road S20 Road and Drain works
- Road L10 Excavation and ELS
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM delivery
- STP Civil works, Tanks Erection and Assembly
- Segment Yard Civil Works, Gantry Crane Erection
- Foot Bridge (FT-02) H pile installation and Temporary Ramp Construction
- Mortar Plant civil works and assembly, Aggregates Wall Construction
- District Cooling System works at Section 6B
- Depressed Road- Capping Beam, Excavation, Base Slab, Drainage Installation, DCS Pipe Installation, South Apron Adit Wall
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building Wells Installation, Excavation, Steel Deck Erection
- Section 6A Junction & Entrance Sheet Pile
- Workshop Civil Work

Summary of EM&A Requirements

- 1.12 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.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 1.14 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in September 2021.

Status of Environmental Licensing and Permitting

1.15 All permits/licenses obtained for the Project are summarized in Table 1.3.

Table 1.3 Summary of Environmental License and Permit

Downit / Licongo No	Valid Period		Statura		
Permit / License No.	From	То	Status		
Environmental Permit (EP)					
EP-451/2013	19 Sep 2013	N/A	Valid		
Notification pursuant to Air Pollution (Cons	truction Dust) F	Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid		
Billing Account for Construction Waste Disp	oosal				
A/C No.: 7036016	09 Dec 2019	N/A	Valid		
Billing Account for Vessel Disposal					
A/C No.:7037747 (Application No.: CEDD01108)	29 Jun 2021	25 Oct 2021	Valid		
Construction Noise Permit	-				
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0816-21	24 Aug 2021	23 Feb 2022	Valid		
CNP No. (For Launching Shaft and Barging Point): GW-RE0342-21	28 Apr 2021	27 Oct 2021	Valid		
CNP No. (For Site Office and Support Area): GW-RE0534-21	16 Jun 2021	14 Dec 2021	Valid		
CNP No. (For Launching Shaft and Kai Hing Road): GW-RE0602-21	1 Jul 2021	30 Nov 2021	Valid		
CNP No. (For West Ventilation Building): PP-RE0023-21	3 Aug 2021	31 Jan 2022	Valid		
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0882-21	18 Sep 2021	10 Oct 2021	Valid		
CNP No. (For Depressed Road): GW- RE0887-21	14 Sep 2021	28 Feb 2022	Valid		
Wastewater Discharge License					
WT00036183-2020 (For Depressed Road Area)	28 Jul 2020	31 Jul 2025	Valid		
WT00036228-2020 (For Launching Shaft)	28 Jul 2020	31 Jul 2025	Valid		
WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid		
Chemical Waste Producer License					
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid		

2 AIR QUALITY

Monitoring Requirement

2.1 According to the EM&A Manual (AEIAR-174/2013), 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 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. 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.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location	
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)	
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area	
KER1	Future Residential Development at Kerry Godown	
CKL1	Flat 121 Cha Kwo Ling Village	
CKL2	Flat 103 Cha Kwo Ling Village	

Table 2.1 Air Quality Monitoring Locations

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring					
Monitoring Stations	Parameter	Period	Frequency		
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)		
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days		

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Equipment

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, 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.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Equipment	Model	Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723,	5
HVS Sampler	1956, 10595, 1316, 5280)	5
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
wind Anemometer	(Serial no. MC01010A44)	1

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-3B/LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.

- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

- 2.9 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

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was 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). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.11 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

- 2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
 - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of $0.3 \mu m$ diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
 - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
 - 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 (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
 - Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 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

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 No Action and Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. Details of the exceedance are presented in **Appendix M**.
- 2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.
- 2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

•			
Monitoring Stations	Major Dust Source		
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	 Project related construction activities (i.e., Loading and unloading of C&D wastes, sheet piling, crushing of material); Vehicle movement in the site; 		
KER 1 – Future Residential Development at Kerry Godown	 Construction activities at the nearby construction sites of New Acute Hospital; and, Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass. 		
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	 Project related construction activities (i.e., Loadir and unloading of C&D material, crushing of material); Vehicle movement in the site; and, Non-project related construction activities 		
CKL1 - Flat 121 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road		
CKL2 - Flat 103 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road		

Table 2.4 Major Dust Source during Air Quality Monitoring

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in Table 4.14 of EIA Report, AEIAR-174/2013 (as approved in 2013) as summarised in **Table 2.6** for 24-hour TSP.

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 174/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (September 2021), μg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	68.1
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	97.8
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	115.7
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	120.5
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	99.0

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-174/2013)

2.20 In the reporting month the 24-hour TSP concentration at KER1 and KTD1were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

3 NOISE

Monitoring Requirements

3.1 According to the EM&A Manual (AEIAR-174/2013), 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 KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.
- 3.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location	
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)	
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area	
KER1	Future Residential Development at Kerry Godown	
CKL1	Flat 121 Cha Kwo Ling Village	
CKL2	Flat 103 Cha Kwo Ling Village	

 Table 3.1
 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

rapie 5.2 Frequency and rarameters of Noise Monitoring					
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2d				L ₁₀ (30 min.) dB(A)	Free Field Measurement
KER1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Free Field Measurement
CKL1	weekdays			$L_{eq}(30 \text{ min.})$	Free Field Measurement
CKL2				dB(A)	Free Field Measurement

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Equipment

3.5 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 within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 570187, 580156, 580287)	3
integrating Sound Level Meter	SVAN 957 (Serial no.23851)	1
Calibrator	ST-120 (Serial no. 181001608)	1

Monitoring Methodology and QA/QC Procedure

- 3.6 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} 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

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.9 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

- 3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action/ Limit Level exceedance was recorded for day time construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in Appendix H.
- 3.12 According to field observations observed 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
KTD 1	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; Road traffic along Shing Cheong Road; and, Non-project related construction activities at the nearby construction site of New Acute Hospital.
KTD 2d	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; and, Non-project related construction activities.
KER 1	 Road traffic along Kai Hing Road. Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)
CKL1	Road traffic along Cha Kwo Ling Road.
CKL2	Road traffic along Cha Kwo Ling Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

3.13 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

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)
KTD1	78	
KTD2d	64	
KER1	65	75
CKL1	72.4	
CKL2	71.4	

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) as summarised in **Table 3.6**.

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (September 2021), Leq (30min) dB(A)
KTD 1 - Centre of			
Excellence in Paediatrics	KTD1	74	71.5
(Children's Hospital)			
KTD2d – Next to the SOR	. (1)		
Office of Trunk Road T2 in	$N/A^{(1)}$	$N/A^{(1)}$	71.3
Kai Tak Area			
KER 1 – Future Residential			
Development at Kerry	KER1	75	74.2
Godown			
CKL1 - Flat 121 Cha Kwo	CKL4	71	72.0
Ling Village	UKL4	/ 1	72.0
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	74.5

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Remarks:

(1): No Maximum Predicted Mitigated Construction Noise Levels was predicted in EIA Report (AEIAR-174/2013)

3.15 The results at CKL1 and CKL2 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-174/2013 (as approved in 2013), this may be due to fluctuations of traffic flow along Cha Kwo Ling Road throughout the day. Besides, the result at KER1 and KTD1 were lower than the maximum predicted mitigated construction noise level in the EIA Report. No Action/ Limit Level exceedance were recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

- 4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.
- 4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.
- 4.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

5 MARINE ECOLOGY

- 5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.
 - Avoid damage and disturbance to the remaining and surrounding natural habitat;
 - Ensure placement of equipment is within designated areas within the existing disturbed land;
 - Ensure construction activities are restricted to within the proposed works boundary;
 - Ensure spoil heaps are be covered at all times;
 - Ensure that disturbed areas are reinstated immediately after completion of the works; and
 - Ensure enhancement planting works undertaken.

6 FISHERIES

- 6.1 According to Section 6.3.1.2 of EM&A Manual (AEIAR-174/2013), no specific fisheries monitoring and audit programme is required during the construction phase.
- 6.2 The implementation of the water quality mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 6 of the EIA Report (AEIAR-174/2013)) will be audited as part of the EM&A procedures during the construction period and the details are presented in Section 4.2 of this Report. The summaries of site audits are attached in Appendix I.

7 LANDSCAPE AND VISUAL

7.1 According to the EM&A Manual (AEIAR-174/2013), a series of mitigation measures were recommended to ameliorate the landscape and visual impacts of the Project. The mitigation measures for construction stage are summarized in Table 7.1 below and provided in Appendix K:

ID No.	Landscape and Visual Mitigation Measure
CM1	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.
CM2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.
CM3	Not used.
CM4	Not used.
CM5	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.
CM6	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance
CM7	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.
CM8	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.

 Table 7.1
 Construction Phase Landscape and Visual Mitigation Measures

- 7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.
- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by

RLA in the reporting month.

- 7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:
 - The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
 - the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
 - all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
 - the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
 - preparation, lifting transport and re-planting operations for any transplanted trees;
 - all landscaping works are carried out in accordance with the specifications;
 - the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plans, together with the replanting of any transplanted trees are carried out properly and within the right season; and
 - all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

Table 7.2Construction Phase Audit Checklist for Landscape and Visual Mitigation
Measures

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface erosion, etc.

Area of Works	Items to be Monitored
Protection of all trees and existing soft landscape areas to be retained	Identification and demarcation of trees / vegetation to be retained, erection of physical protection (e.g. fencing), monitoring against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Clearance of existing vegetation	Identification and demarcation of trees / vegetation to be cleared, checking of extent of works to minimise damage, monitoring of adjacent areas against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Pruning of trees	Identification and demarcation of trees / vegetation to be pruned, monitoring of extent of pruning to minimise damage, timing of operations, implementation of all stages of preparatory and pruning works, and maintenance of pruned vegetation, etc.
Plant supply	Monitoring of operations relating to the supply of specialist plant material (including the collecting, germination and growth of plants from seed) to ensure that plants will be available in time to be used within the construction works.
Soiling, planting, etc.	Monitoring of implementation and maintenance of soiling and planting works and against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Site fencing and hoarding	Implementation and maintenance, to ensure compliance with agreed designs and check that it matches the surrounding environment and does not cause visual intrusion.
Architectural treatment of engineering works.	Implementation and maintenance of mitigation measures, to ensure compliance with agreed designs as applicable.
Establishment Works	Monitoring of implementation of maintenance operations during Establishment Period.

- 7.6 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.
- 7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

8 CULTURAL HERITAGE

- 8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.
- 8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

9 WASTE MANAGEMENT

- 9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.
- 9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.
- 9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

10 ENVIRONMENTAL AUDIT

Site Audits

- 10.1 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**.
- 10.2 Site audits were conducted on 02, 06, 16, 23 and 30 September 2021 in the reporting month. Site inspection of the IEC was conducted on 16 September 2021. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 10.3 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 K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	16 September 2021	Stockpile of mud/ dusty material should be covered by impervious material to minimize generation of dust.	Water spraying to minimize dust generation was observed.
Noise	There was no observation in		N/A
	02 September 2021	Contractor is reminded to prevent washing the skip outside of construction area.	No construction activity was carried out outside the site area was observed
Water Quality	16 September 2021	Stockpile of mud/ dusty material should be covered by impervious material to minimize generation of dust.	Water spraying to minimize dust generation was observed.
	23 September 2021	Contractor is reminded to provide bund to surround the site area for flood protection.	To be followed up on the next reporting period.

Table 10.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

10.5 The Event and Action Plans for air quality, construction noise, and landscape and visual are presented in **Appendix J**.

Air Quality Monitoring

• No Action and Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

• No Action / Limit Level exceedance was recorded in the reporting month.

Landscape and Visual

• No landscape and visual non-conformity was recorded.

Status of Required Submission under Environmental Permit

10.6 According the Section 11.3.2.1 (c) of the EM&A Manual (AEIAR-174/2013), status of required submission under EP-451/2013 during the reporting period are summarized in **Table 10.2**.

Table 10.2	Status of Required Submission under Environmental Permit
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EP Condition	Submission	Submission Date
EP-451/2013		
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020
Condition 2.4	Design Drawing of the Project	20 January 2020
Condition 2.5	Landscape Mitigation Plan(s)	7 May 2020
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016
Condition 3.3	Updated Baseline Monitoring Report	03 November 2020
Condition 3.4	Monthly EM&A Report (August 2021)	17 September 2021

11 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

- 11.2 The summary of exceedance record in the reporting month is shown in Appendix M.
- 11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in Appendix N.

- 12.1 Major site activities undertaken for the coming months are summarized as follows:
 - Depressed Road- Road Slab
 - TBM Delivery and Assembly, Sifting way & Rails installation
 - C&C Permanent Base Slab, S5 & S6 Removal
 - Road L10 RC Structure
 - CUE Section 6A Junction- RC structure
 - Workshop Assembly
 - West Ventilation Building Pumping Test, Steel Strut Installation
 - District Cooling System (DCS) Section 7B
- 12.2 Key environmental issues in the coming months include:
 - Wheel washing bay at site exits;
 - Temporary noise barriers for PMEs;
 - Sedimentation tank for settling muddy water; and
 - Make sure open stockpiles are covered during rainstorm.

Monitoring Schedule

12.3 The tentative environmental monitoring schedule for the next three months are shown in Appendix B.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 19th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

- 13.3 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 13.4 No Action Level exceedance was recorded in the reporting month.

Site Audit

13.5 5 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

Recommendations

13.7 According to the environmental audit performed in the reporting month, the following recommendations was made:

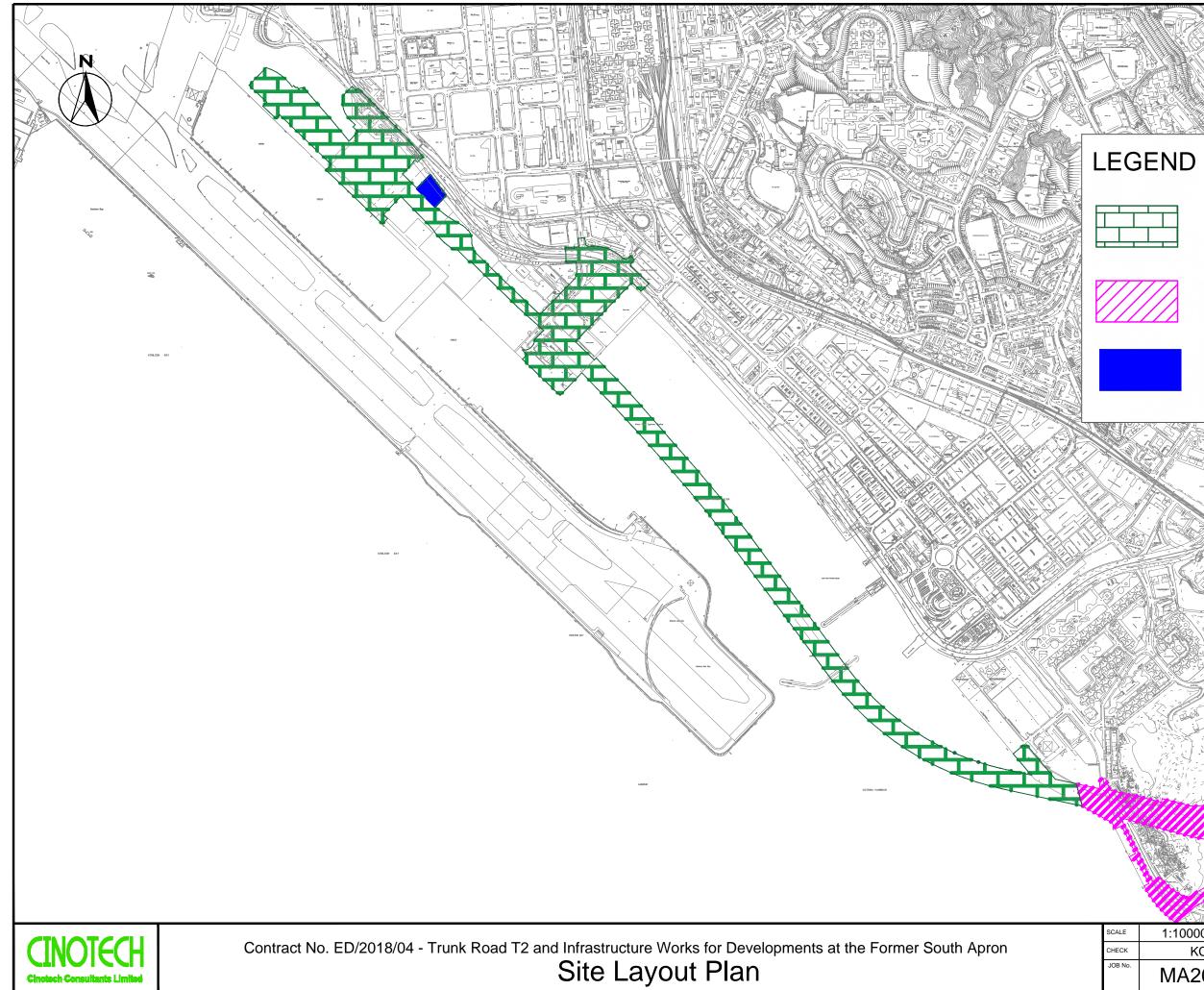
Water Quality

- 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.
- Channels, earth bunds or sand bag barriers should be provided to divert the surface runoff to the silt removal facilities.
- Open stockpiles of construction materials (for example, aggregates, sand and fill material) 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.

Air Quality

• 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.

FIGURES



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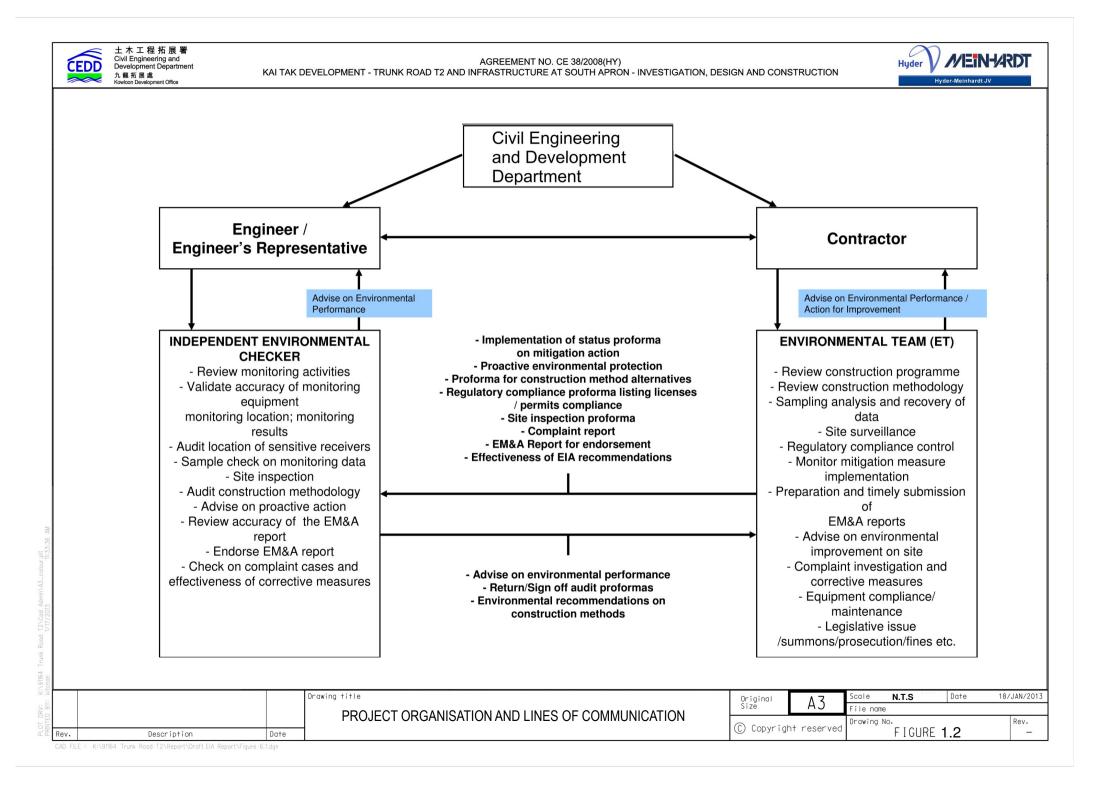
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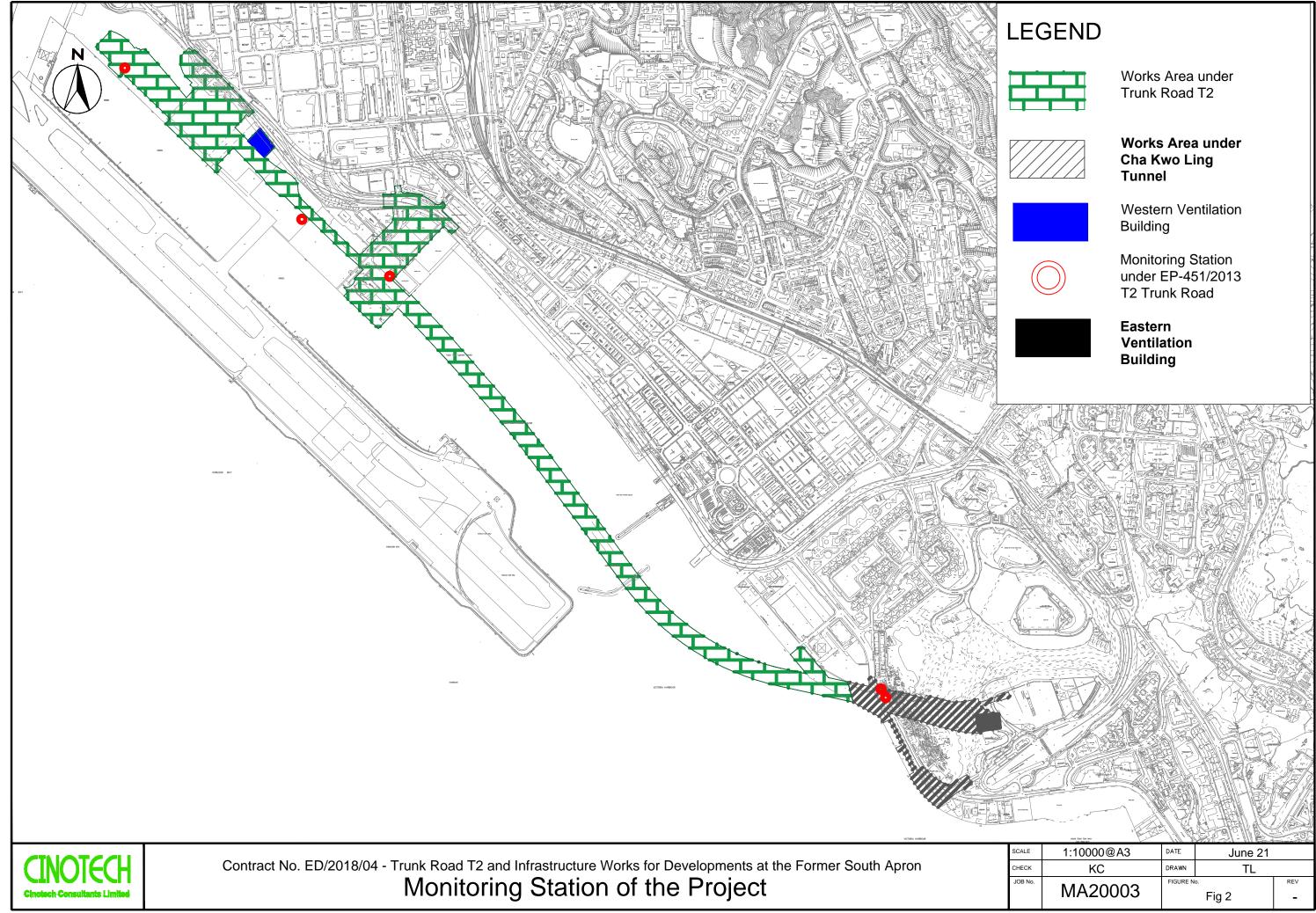
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

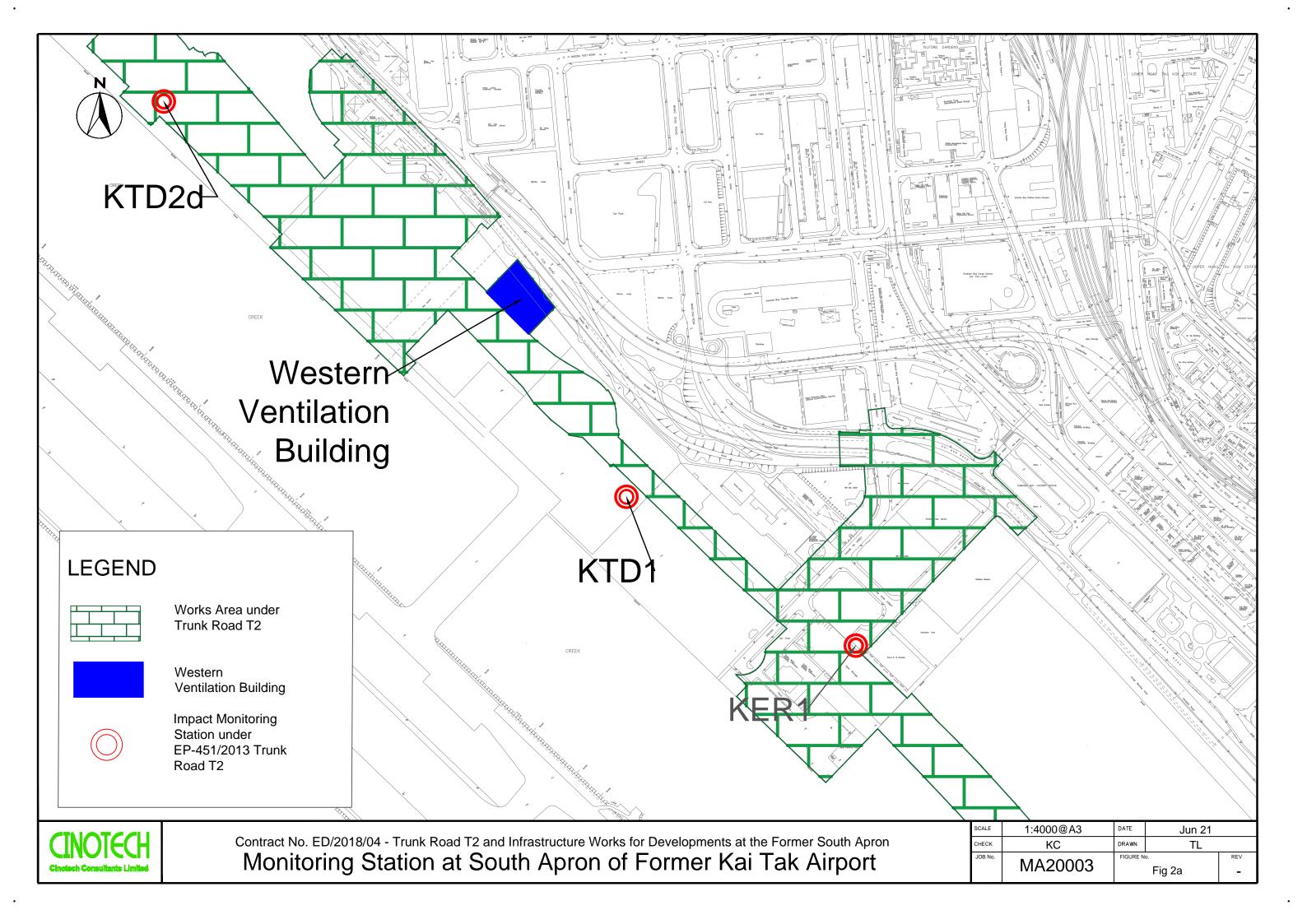
Ventilation Building

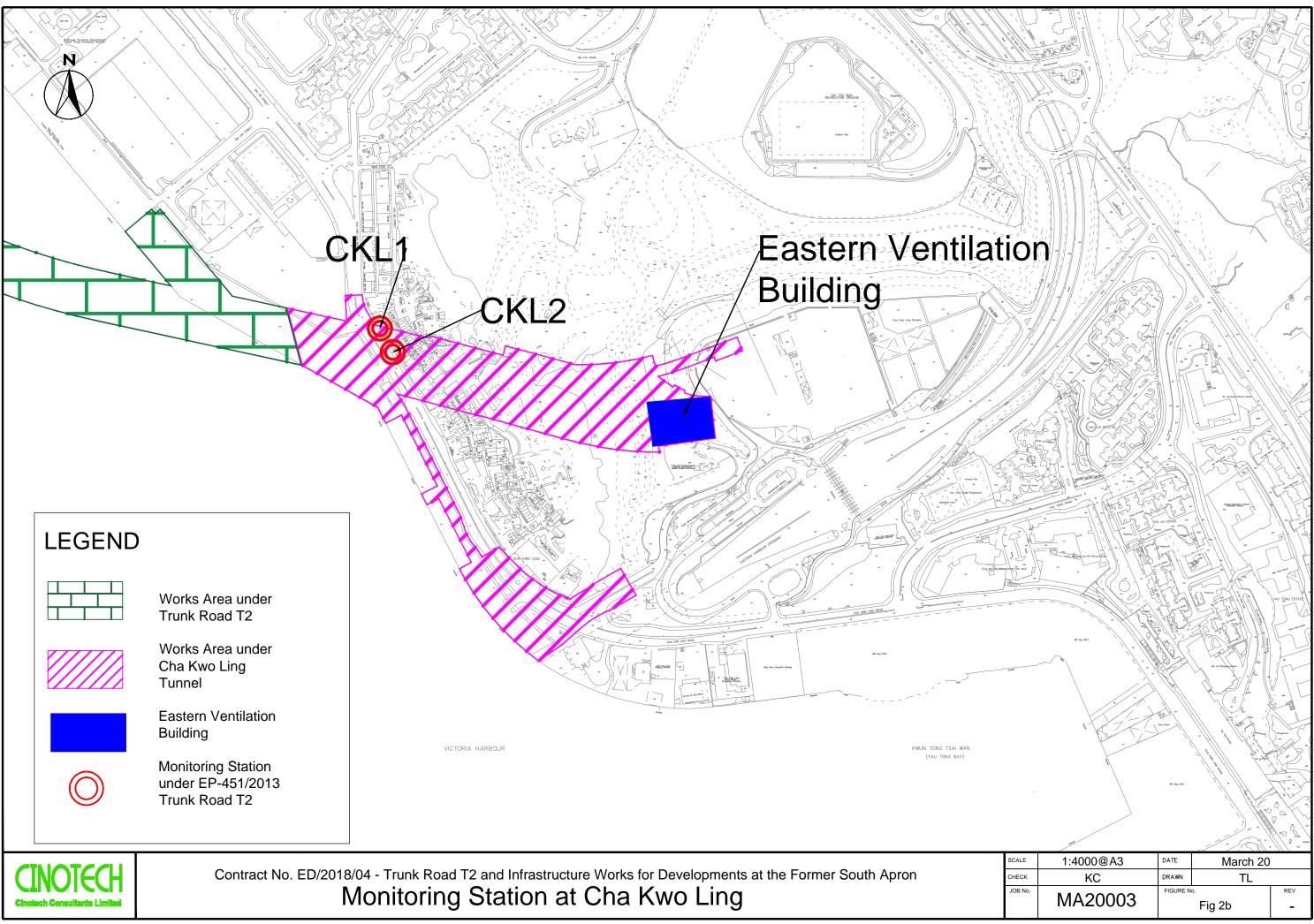
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APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, µg/m ³
KTD1	285	
KTD2d	279	
KER1	295	500
CKL1	323	
CKL2	327	

 Table A-1
 Action and Limit Levels for 1-hour TSP (in case of complaints)

Table A-2Action and Limit Levels for 24-hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
KTD1	177	
KTD2d	157	
KER1	172	260
CKL1	191	
CKL2	183	

Table A-3 Action and Limit Levels for Noise during Construction Period

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

Note:

(1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

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

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

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatries (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

Sunday	Monday Tuesday		Wednesday	Thursday	Friday	Saturday
					1-Oct	2-Oct
3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
	24-hr TSP	Noise				24-hr TSP
10.0.4	11.0.4	12.0.4	12.0 /	14.0.4	15.0.4	16.0.4
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
	Noise		24-hr TSP			
17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
		24-hr TSP	Noise			
		24-nr 15P	INDISE			
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
	24-hr TSP	Noise				24-hr TSP
31-Oct						
51-00						
The ache dala man ha sha						

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD24 - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

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

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatries (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

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

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



File No. MA20003/55/0010

Project No.	CKL 2 - Flat 10)3 Cha Kwo Lir	ig Village			
Date:	6-Sep-21 No.: A-01-55		Next Due Date:	6-Nov-21	Operator:	SK
Equipment No.:			Model No.:	TE 5170	TE 5170 Serial No.	
			Ambient Condit	ion		
Temperatu	ure, Ta (K)	302.7	Pressure, Pa (mmł	Hg)	757.8	
				T 0 0		

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

	Calibration of TSP Sampler								
Calibration		Orfice			HVS				
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis				
1	12.8	3.54	60.69	9.8	3.10				
2	10.8	3.26	55.75	7.6	2.73				
3	8.4	2.87	49.17	6.0	2.43				
4	5.6	2.34	40.16	3.6	1.88				
5	3.0	1.72	29.41	1.9	1.37				
By Linear Regression of Y on X Slope , mw =0.0549Intercept, bw :0.2831 Correlation coefficient* =0.9979 *If Correlation Coefficient < 0.990, check and recalibrate.									
	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM								
From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (298/\mathbf{Ta})]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =									
Remarks:	Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	K	N. Janj	Date: 6-Sep-21				
Checked by:	Henry I	Leung Signature:		g drog	Date: 6-Sep-21				



File No. MA20003/41/0008

Project No.	KTD 2D - Nex	t to the SOR Off	fice of Trunk Road T2 in I	Kai Tak Area		
Date:	25-8	Sep-21	Next Due Date:	25-Nov-21	Operator:	SK
Equipment No.:	A-	01-41	Model No.:	TE 5170	Serial No.	5280
			Ambient Condit	tion		
Temperatu	ire, Ta (K)	302.6	Pressure, Pa (mm	Hg)	759.5	
		0	rifice Transfer Standard	l Information		

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

Calibration of TSP Sampler									
Calibration Orfice				HVS					
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis				
1	13.4	3.63	62.17	8.9	2.96				
2	11.6	3.38	57.85	7.1	2.64				
3	8.3	2.86	48.94	5.6	2.35				
4	6.0	2.43	41.62	4.0	1.98				
5	3.0	1.72	29.45	2.4	1.54				
By Linear Regression of Y on X Slope , mw = Intercept, bw :									
	From the TSP Field Calibration Curve, take Qstd = 43 CFM								
	From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (298/\mathbf{Ta})]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 4.41								
Remarks:									
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 25-Sep-21				
Checked by:	Henry I	Leung Signature:	- le-	N. Jan J	Date: 25-Sep-21				





Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11	, 2021	Roots	meter S/N:	438320	Ta:	297	°К
Operator:	Jim Tisch					Pa:	750.1	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	3864			
	· · · · · · · · · · · · · · · · · · ·							1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4470	3.2	2.00	
	2	3	4	1	1.0210	6.4	4.00	
	3	5	6	1	0.9140	8.0	5.00	
	4	, 7	8	1	0.8670	8.8	5.50	
	5	9	10	1	0.7140	12.9	8.00	
			[Data Tabula	tion]
			/ / Pa	V Tetd)				
	Vstd	Qstd	√ ^{∆H} (Pstd)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9860	0.6814	1.40		0.9957	0.6881	0.8899	
	0.9818	0.9616	1.99	02	0.9915	0.9711	1.2585	1
	0.9797	1.0719	2.22	51	0.9893	1.0824	1.4071	1
	0.9786	1.1288	2.33	37	0.9883	1.1399	1.4757	1
	0.9732	1.3630	2.814	46	0.9828	1.3765	1.7798	
		m=	2.065	566		m=	1.29348	
		b=	0.003	815	QA	b=	0.00199	
		r=	0.999	96		r=	0.99996	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP))/Pstd)(Tstd/Ta	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m ((\\ \[\Delta H (Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=			
	Standard	Conditions						
Tstd						RECA	LIBRATION	
Pstd	760	mm Hg						400
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-
		ter reading (i					Regulations Part	
		eter reading perature (°K)					, Reference Meth	
		ressure (mm				1	ended Particulat	
b: intercept	the second s				tn tn	e Atmosphe	ere, 9.2.17, page	30
m: slope								

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



Certificate of Calibration - Wind Monitoring Station

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		
2.8	2.7	0.1		
4.0	4.1	-0.1		

2. Performance check of Wind Direction

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



File No. MA20003/18/0009

Project No.	CKL 1 - Flat 121 Cha Kwo Ling Village						
Date:	6-J	ul-21	Next Due Date:	6-S	ep-21	Operator:	SK
Equipment No.:	A-	01-18	Model No.:	TE	5170	Serial No.	0723
			Ambient Condi	ition			
Temperatu	re, Ta (K)	302.4	Pressure, Pa (mml	Hg)		754.7	

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

		Calibration of	f TSP Sampler		
Calibration		Orfice	^		HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$ \begin{bmatrix} \Delta W \ x \ (Pa/760) \ x \ (298/Ta) \end{bmatrix}^{1/2} \ Y-axis $
1	13.2	3.59	61.53	10.6	3.22
2	11.2	3.31	56.68	8.0	2.80
3	8.3	2.85	48.80	6.1	2.44
4	6.2	2.46	42.19	3.9	1.95
5	3.4	1.82	31.26	1.9	1.36
Slope, mw =	ression of Y on X 0.0603 coefficient* =		Intercept, bw :	-0.543	39
			_		
*If Correlation C	_oefficient < 0.99	0, check and recalibrate.			
		Set Point (Calculation		
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM			
From the Regres	sion Equation, the	e "Y" value according to			
Therefore, Se	et Point; W = (my	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ v x Qstd + bw) ² x (760 / Pa) x (· · · ·		
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 6-Jul-21
Checked by:	Henry 1	Leung Signature:	- \-lem	j Xory_	Date: 6-Jul-21



File No. MA20003/55/0009

	Next Due Date:	6-Sep-21	Operator:	SK
				JIC
5	Model No.:	TE 5170	Serial No.	1956
	Ambient Condition	on		
302.4	Pressure, Pa (mmH	(g)	754.7	
	302.4	Ambient Condition	Ambient Condition	Ambient Condition

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

		Calibration of	TSP Sampler				
Calibration		Orfice	•	HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} axis	
1	13.5	3.63	62.23	9.6	3	.07	
2	11.3	3.33	56.94	7.5	2	.71	
3	8.3	2.85	48.80	5.9	2	.40	
4	5.2	2.26	38.64	3.5	1	.85	
5	3.0	1.71	29.36	1.9	1	.36	
By Linear Regr Slope , mw =	ession of Y on X 0.0506		Intercept, bw ⁼	-0.112	20		
- ·	coefficient* =	0.9982	•				
*If Correlation C	Coefficient < 0.990	0, check and recalibrate.	-				
		Set Point C	alculation				
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM					
From the Regres	sion Equation, the	e "Y" value according to					
		mw x Qstd + bw = $[\Delta W]$	x (Pa/760) x (29	98/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (mv	$(x + y)^2 x (760 / Pa) x ($	Ta / 298) =	4.36			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date:	6-Jul-21	
Checked by:	Henry I	Leung Signature:		N- Jang	Date:	6-Jul-21	



File No. MA20003/41/0007

Project No.	Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area							
Date:	26-Jul-21		Next Due Date:	26-	Sep-21	Operator:	SK	
Equipment No.:	t No.: A-01-41		Model No.:	TE	5170	Serial No.	5280	
Ambient Condition								
Temperature, Ta (K) 302 Pressure, Pa (mmHg				(mmHg)	751			
1								
		Or	ifice Transfer Star	ndard Informa	ation			
Serial	No.	3864	Slope, mc	0.05846	Intercep	t, bc	-0.00313	
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H x (Pa/760)]$)) x (298/Ta)]	1/2	
Next Calibra	ation Date:	11-Jan-22	($Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	$[\Gamma a)]^{1/2} - bc\} /$	mc	
		•						
Calibration of TSP Sampler								
Calibration		0	rfice			HVS		
Canoration	AU (orifica)			Octd (CEM)	AW (HVC) in		$7(0) = (208/T_{\odot})1^{1/2}$	

Calibration				I							
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis						
1	13.7	3.65	62.57	8.8	2.93						
2	11.5	3.35	57.33	7.0	2.61						
3	8.2	2.83	48.42	5.5	2.32						
4	5.8	2.38	40.73	4.1	2.00						
5	2.9	1.68	28.82	2.3	1.50						
Slope, mw =	By Linear Regression of Y on X Slope , mw = <u>0.0412</u> Intercept, bw = <u>0.3131</u> Correlation coefficient* = <u>0.9978</u>										
	*If Correlation Coefficient < 0.990, check and recalibrate.										
		o, oncek and recuriorate.									
		Set Point C	alculation								
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM									
From the Regres	sion Equation, the	e "Y" value according to									
			(D. 17(0)) (3)	1/2							
		$\mathbf{m}\mathbf{w} \ge \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W}]$	x (Pa/760) x (29	98/1a)]							
Therefore, Se	et Point; W = (mv	$(x = x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.45							
Remarks:											
Conducted by:	Wong Shi	ng Kwai Signature		<u>Д</u> .	Date: 26-Jul-21						
Checked by:	Henry I	Leung Signature	- lem	y May-	Date: 26-Jul-21						
			·								

CIN@TECH &

File No. MA20003/04/0007

Project No.	KER 1 - Future						
Date:	2-A	Nug-21	Next Due Date:	2-Oct-21	Operator:	SK	
Equipment No.:	<u> </u>	01-04	Model No.:	TE 5170	Serial No.	10595	
			Ambient Conditi	on			
Temperatu	ure, Ta (K)	302.7	Pressure, Pa (mmH	Ig)	750		

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

	Calibration of TSP Sampler								
Calibration		Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$				
1	13.7	3.65	62.46	9.0	2.96				
2	11.4	3.33	56.98	7.0	2.61				
3	8.6	2.89	49.50	5.4	2.29				
4	5.2	2.25	38.50	3.2	1.76				
5	3.0	1.71	29.26	2.1	1.43				
By Linear Regression of Y on X Slope , mw =0.0457 Intercept, bw =0.0483 Correlation coefficient* =0.9970 *If Correlation Coefficient < 0.990, check and recalibrate.									
From the TSP Fi	eld Calibration C	Set Point C urve, take Qstd = 43 CFM	Calculation						
	-	e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ w x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.16					
Remarks:									
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	<u>у</u>	Date: 2-Aug-21				
Checked by:	Henry 1	Leung Signature	:_ \-len	J	Date: 2-Aug-21				

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File No. MA20003/44/0008

Project No.	t No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)						
Date:	2-A	ug-21	Next Due Date:	2-C	Oct-21	Operator:	SK
Equipment No.:	A-	01-44	Model No.:	TE	-5170	Serial No	1316
			Ambient Conditi	on			
Temperatu	re, Ta (K)	302.7	Pressure, Pa (mmH	lg)		750	

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

Calibration of TSP Sampler									
Calibration		Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$				
1	13.8	3.66	62.69	9.2	2.99				
2	11.2	3.30	56.48	7.0	2.61				
3	8.3	2.84	48.63	5.4	2.29				
4	6.2	2.45	42.04	3.4	1.82				
5	3.2	1.76	30.21	1.8	1.32				
By Linear Regression of Y on X Slope , mw =0.0516Intercept, bw =0.2704 Correlation coefficient* =0.9964 *If Correlation Coefficient < 0.990, check and recalibrate.									
		Set Point C	alculation						
		urve, take Qstd = 43 CFM							
	-	e "Y" value according to mw x Qstd + bw = [ΔW w x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 					
Remarks:									
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	<u>у</u>	Date: 2-Aug-21				
Checked by:	Henry 1	Leung Signature	: \-lem	, Xory	Date: 2-Aug-21				



File No. MA20003/18/0010

Project No.	CKL 1 - Flat 12	21 Cha Kwo Ling					
Date:	6-S	ep-21	Next Due Date:	6-Nov-21	Operator:	SK	
Equipment No.:	A-0	01-18	Model No.:	TE 5170	Serial No.	0723	
			Ambient Condi	tion			
Temperatu	ire, Ta (K)	302.7	Pressure, Pa (mmI	Hg)	757.8		

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

		Calibration of	of TSP Sampler				
Colibration	Orfice				HVS		
Calibration Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{\left[\Delta W \ge (Pa/760) \le (298/Ta)\right]^{1/2} \ Y-axis}{axis}$		
1	12.8	3.54	60.69	9.8	3.10		
2	10.2	3.16	54.18	8.0	2.80		
3	8.4	2.87	49.17	5.9	2.41		
4	6.2	2.47	42.25	4.0	1.98		
5	3.4	1.83	31.30	1.9	1.37		
Slope, mw =	ression of Y on X 0.0605 coefficient* =	0.9981	Intercept, bw	-0.54	14		
			—				
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.	Calariation				
From the TSD Fi	iald Calibratian C	urve, take Qstd = 43 CFM	Calculation				
		-					
From the Regres	sion Equation, the	e "Y" value according to					
		mw x Qstd + bw = $[\Delta W]$	/ x (Pa/760) x (2	298/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (my	$(x + bw)^2 x (760 / Pa) x$	(Ta / 298) =	4.32	2		
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signaturo		<u>Х.</u>	Date: 6-Sep-21		
Checked by:	Henry I	Leung Signature	:_ \-lem	J Xoz	Date: 6-Sep-21		

APPENDIX D WEATHER INFORMATION

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

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month: September 2021)

Remarks:

Source - Hong Kong Observatory

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

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

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

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

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

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

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

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

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

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

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

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

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

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

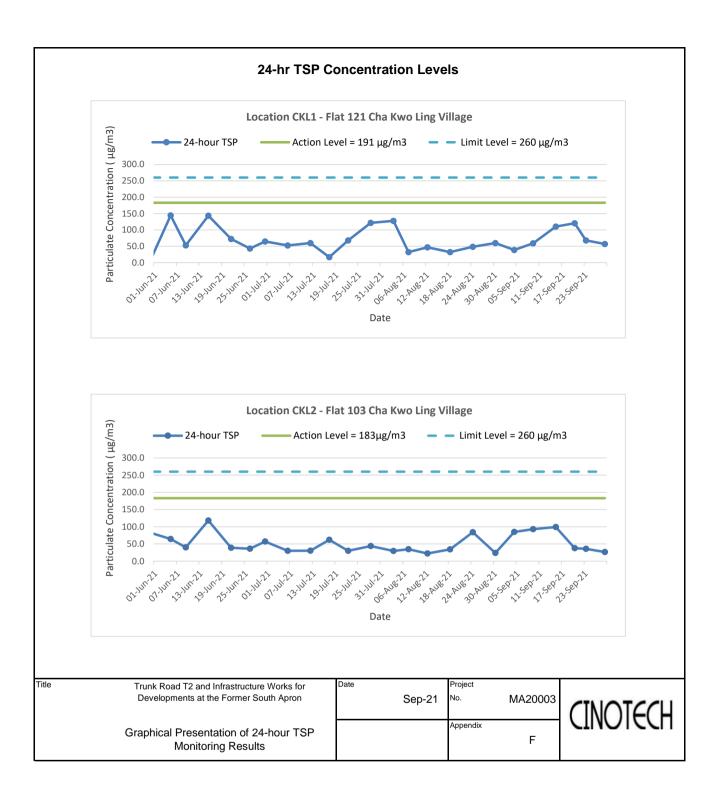
September 2021					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
24 Sep 2021	7:00 AM	WSW	0.0		
24 Sep 2021	8:00 AM	WNW	0.3		
24 Sep 2021	9:00 AM	WNW	0.3		
24 Sep 2021	10:00 AM	SSE	0.3		
24 Sep 2021	11:00 AM	ESE	1.2		
24 Sep 2021	12:00 PM	NNW	1.7		
24 Sep 2021	1:00 PM	NE	1.2		
24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

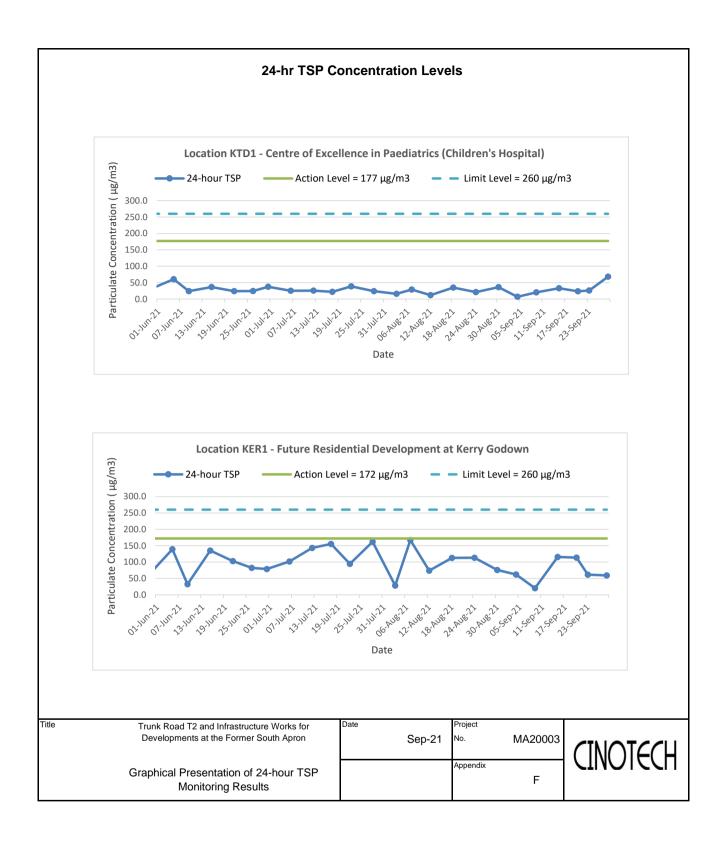
September 2021										
	Wind Speed a	and Directions								
Date	Time	Wind Speed m-s	Direction							
26 Sep 2021	2:00 AM	W	0.3							
26 Sep 2021	3:00 AM	W	0.0							
26 Sep 2021	4:00 AM	W	0.0							
26 Sep 2021	5:00 AM		0.0							
26 Sep 2021	6:00 AM		0.0							
26 Sep 2021	7:00 AM	W	0.0							
26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

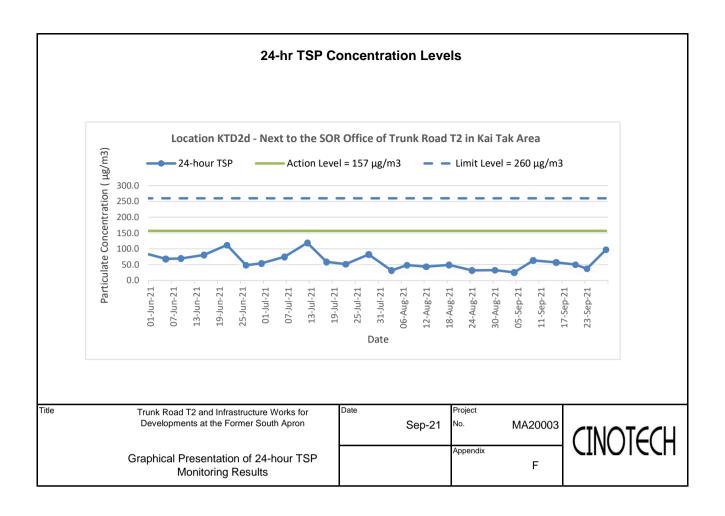
September 2021										
Wind Speed and Directions										
Date	Time	Wind Speed m-s	Direction							
27 Sep 2021	9:00 PM	ESE	0.3							
27 Sep 2021	10:00 PM	SE	0.8							
27 Sep 2021	11:00 PM	SSE	0.8							
28 Sep 2021	12:00 AM	SSE	0.3							
28 Sep 2021	1:00 AM	SE	0.3							
28 Sep 2021	2:00 AM	SE	0.8							
28 Sep 2021	3:00 AM	SE	0.0							
28 Sep 2021	4:00 AM	SSE	0.0							
28 Sep 2021	5:00 AM	SE	0.3							
28 Sep 2021	6:00 AM	SE	0.0							
28 Sep 2021	7:00 AM	SSE	0.3							
28 Sep 2021	8:00 AM	SSE	0.3							
28 Sep 2021	9:00 AM	SE	0.8							
28 Sep 2021	10:00 AM	SE	1.2							
28 Sep 2021	11:00 AM	SE	1.7							
28 Sep 2021	12:00 PM	NNW	1.2							
28 Sep 2021	1:00 PM	NNE	1.2							
28 Sep 2021	2:00 PM	NNE	1.2							
28 Sep 2021	3:00 PM	SE	1.2							
28 Sep 2021	4:00 PM	SE	1.7							
28 Sep 2021	5:00 PM	SE	1.7							
28 Sep 2021	6:00 PM	SE	2.6							
28 Sep 2021	7:00 PM	SE	2.1							
28 Sep 2021	8:00 PM	SE	2.1							
28 Sep 2021	9:00 PM	SE	1.7							
28 Sep 2021	10:00 PM	SE	1.2							
28 Sep 2021	11:00 PM	SE	2.1							
29 Sep 2021	12:00 AM	SE	2.1							
29 Sep 2021	1:00 AM	SE	2.1							
29 Sep 2021	2:00 AM	SE	2.1							
29 Sep 2021	3:00 AM	SE	2.1							
29 Sep 2021	4:00 AM	SE	2.1							
29 Sep 2021	5:00 AM	SE	1.7							
29 Sep 2021	6:00 AM	SE	0.8							
29 Sep 2021	7:00 AM	SE	1.7							
29 Sep 2021	8:00 AM	SE	1.2							
29 Sep 2021	9:00 AM	SE	1.7							
29 Sep 2021	10:00 AM	SE	1.7							
29 Sep 2021	11:00 AM	SE	1.2							
29 Sep 2021	12:00 PM	SE	1.2							
29 Sep 2021	1:00 PM	SE	1.7							
29 Sep 2021	2:00 PM	SE	1.2							
29 Sep 2021	3:00 PM	SE	1.2							

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

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS







Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

	10/a ath an	Air Tana	Atmospheric	Filter W	'eight (g)	Destinutate		e Time	Comoline	Flow Rate	e (m³/min.)	Av. Flow	Total val	Conc.	Action	Limit
Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Initial	Final	Particulate weight (g)	Initial	Final	Sampling Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Sep-21	Sunny	302.8	757.9	3.3861	3.4540	0.0679	3018.8	3042.8	24.0	1.22	1.22	1.22	1754.3	38.7		
9-Sep-21	Sunny	303.3	757.6	3.6839	3.7871	0.1032	3042.8	3066.8	24.0	1.22	1.21	1.22	1750.2	59.0		
15-Sep-21	Cloudy	302.7	758.7	3.6789	3.8719	0.1930	3066.8	3090.8	24.0	1.22	1.22	1.22	1752.6	110.1	191.0	260.0
20-Sep-21	Sunny	302.2	758.5	3.3536	3.5649	0.2113	3090.8	3114.8	24.0	1.22	1.22	1.22	1753.6	120.5	131.0	200.0
23-Sep-21	Sunny	301.7	761.0	3.3125	3.4317	0.1191	3114.8	3138.8	24.0	1.22	1.22	1.22	1757.0	67.8		
28-Sep-21	Sunny	302.7	757.7	3.7148	3.8148	0.1000	3138.8	3162.8	24.0	1.22	1.22	1.22	1751.8	57.1		
Note:	Bold Italic means A												Min	38.7		
	Bold Italic with une	derline means L	imit Level exceedance										Max	120.5		
													Average	75.5]	

Location CKL2 - Flat 103 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Sep-21	Sunny	302.8	757.9	3.6893	3.8380	0.1487	15029.8	15053.8	24.0	1.22	1.22	1.22	1756.1	84.7		
9-Sep-21	Sunny	303.3	757.6	3.7097	3.8722	0.1625	15056.5	15080.5	24.0	1.22	1.22	1.22	1751.1	92.8		
15-Sep-21	Cloudy	302.7	758.7	3.6613	3.8350	0.1737	15080.5	15104.5	24.0	1.22	1.22	1.22	1753.8	99.0	183.0	260.0
20-Sep-21	Sunny	302.2	758.5	3.3975	3.4638	0.0663	15104.5	15128.5	24.0	1.22	1.22	1.22	1754.9	37.8	103.0	200.0
23-Sep-21	Cloudy	301.7	761.0	3.6431	3.7063	0.0632	15128.5	15152.5	24.0	1.22	1.22	1.22	1758.6	35.9		
28-Sep-21	Sunny	302.7	757.7	3.2953	3.3419	0.0466	15152.5	15176.5	24.0	1.22	1.22	1.22	1752.9	26.6		
Note:	Bold Italic means A	Action Level exce	edance										Min	26.6		
	Bold Italic with une	derline means l	imit Level exceedance										Max	99.0		
													Average	62.8		

Appendix F - 24-hour TSP Impact Monitoring Results

Location KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Sep-21	Sunny	302.8	757.9	3.3805	3.3924	0.0119	14607.0	14631.0	24.0	1.22	1.22	1.22	1758.6	6.8		
9-Sep-21	Sunny	303.3	757.6	3.7011	3.7366	0.0355	14631.0	14655.0	24.0	1.22	1.22	1.22	1757.1	20.2		
15-Sep-21	Cloudy	302.7	758.7	3.3689	3.4271	0.0582	14655.0	14679.0	24.0	1.22	1.22	1.22	1759.8	33.1	177.0	260.0
20-Sep-21	Cloudy	302.2	758.5	3.3743	3.4155	0.0412	14679.0	14703.0	24.0	1.22	1.22	1.22	1760.9	23.4	111.0	200.0
23-Sep-21	Cloudy	301.7	761.0	3.4029	3.4491	0.0463	14703.0	14727.0	24.0	1.23	1.22	1.23	1764.6	26.2		
28-Sep-21	Sunny	302.7	757.7	3.7050	3.8248	0.1198	14727.0	14751.0	24.0	1.22	1.22	1.22	1758.9	68.1		
Note:	Bold Italic means A	ction Level exce	edance										Min	6.8		
	Bold Italic with und	terline means l	Limit Level exceedance										Max	68.1		
													Average	29.6		

Location KER1 - Future Residential Development at Kerry Godown

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Sep-21	Sunny	302.8	757.9	3.3771	3.4863	0.1092	12294.5	12318.5	24.0	1.22	1.22	1.22	1758.7	62.1		
9-Sep-21	Sunny	303.3	757.6	3.3835	3.4190	0.0355	12318.5	12342.5	24.0	1.22	1.22	1.22	1756.9	20.2		
15-Sep-21	Cloudy	302.7	758.7	3.3109	3.5146	0.2037	12342.5	12366.5	24.0	1.22	1.22	1.22	1760.0	115.7	172.0	260.0
20-Sep-21	Cloudy	302.2	758.5	3.3699	3.5699	0.1999	12366.5	12390.5	24.0	1.22	1.22	1.22	1761.3	113.5	172.0	200.0
23-Sep-21	Cloudy	301.7	761.0	3.3726	3.4816	0.1090	12392.7	12416.7	24.0	1.23	1.22	1.23	1765.7	61.7		
28-Sep-21	Sunny	302.7	757.7	3.3628	3.4668	0.1040	12416.7	12440.7	24.0	1.22	1.22	1.22	1759.0	59.1		
Note:	Bold Italic means A	Action Level exce	edance										Min	20.2		
	Bold Italic with une	derline means l	imit Level exceedance										Max	115.7		
													Average	72.1		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Sep-21	Sunny	302.8	757.9	3.3951	3.4399	0.0448	13044.9	13068.9	24.0	1.22	1.22	1.22	1757.3	25.5		
9-Sep-21	Sunny	303.3	757.6	3.3595	3.4709	0.1114	13068.9	13092.9	24.0	1.22	1.22	1.22	1755.3	63.5		
15-Sep-21	Cloudy	302.7	758.7	3.3057	3.4061	0.1004	13092.9	13116.9	24.0	1.22	1.22	1.22	1758.9	57.1	172.0	260.0
20-Sep-21	Cloudy	302.2	758.5	3.3636	3.4524	0.0888	13116.9	13140.9	24.0	1.22	1.22	1.22	1760.4	50.4	172.0	200.0
23-Sep-21	Cloudy	301.7	761.0	3.3964	3.4614	0.0650	13141.0	13165.0	24.0	1.23	1.22	1.23	1765.4	36.8		
28-Sep-21	Sunny	302.7	757.7	3.7124	3.8838	0.1714	13164.9	13188.9	24.0	1.22	1.22	1.22	1752.4	97.8		
Note:	Bold Italic means A												Min	25.5		
	Bold Italic with une	derline means L	imit Level exceedance										Max	97.8		
													Average	55.2		

APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



Calibration Certificate

0025247

Customer :		Object 1 :	ST-120 sound calibrator					
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001608					
RM 1710, Technology Park,		Object 2 :						
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. ::						
Hong Kong								
Customer Code : SVEC09005		Manufacturer : Sour	ndtek					
Date of calibration:	05/11/2020	Certificate No .:	0025247					
Date of the recommended re-calibration:	05/11/2021	Handle by:	E0002					

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

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



Calibration Certificate

0024995

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

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

Measured value(s)

Calibration Technician

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

Quality Manager

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

Mr. K.L. Ng

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



Calibration Certificate

0025914

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

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s)

the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



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

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

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

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

Test conditions:

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

Method reference:

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

Measuring equipment:

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



Test Report

Results:

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

REMARK:

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

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

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

Laboratory Director (CHAN Hon-Fai)



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

Test Report No.:	00114
Date of Issue:	2021-05-07
Date Received:	2021-03-25
Test Period	2021-03-26 to
	2021-03-26
Next Due Date:	2022-03-26

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

Description	Integrating Sound Level Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	580287
Microphone No.	590079
Equipment No.	N-12-05

Test conditions:

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

Method reference:

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

Measuring equipment:

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



Test Report

Results:

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

REMARK:

- 1. The indication value was obtained from the average of ten replicated measurement.
- 2. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC 17025.
- 3. This report supersedes the test report no. 00100 issued on 26 Mar 2021.

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

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

Laboratory Director (CHAN Hon-Fai)

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village

Looution one	Eboation often i hat ier ona two eing mago						
				Unit: dE	6 (A) (30-min)		
Date	Time	Time Weather		sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	TIME	Weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Sep-21	14:20	Sunny	72.0	75.5	63.7	72.4	72 Measured ≦ Baseline
16-Sep-21	15:00	Cloudy	71.9	76.7	63.9	72.4	71.9 Measured \leq Baseline
21-Sep-21	15:45	Sunny	71.0	74.0	59.3	72.4	71 Measured ≦ Baseline
29-Sep-21	13:30	Sunny	66.4	69.5	63.1	72.4	66.4 Measured ≦ Baseline

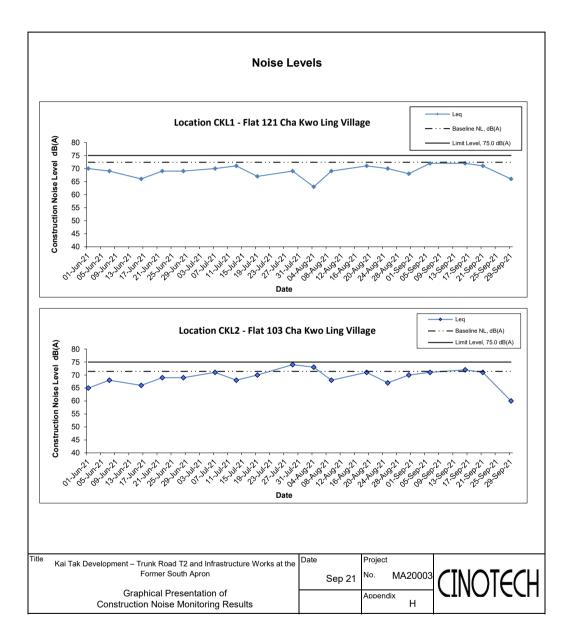
Location CKL2 - Flat 103 Cha Kwo Ling Village

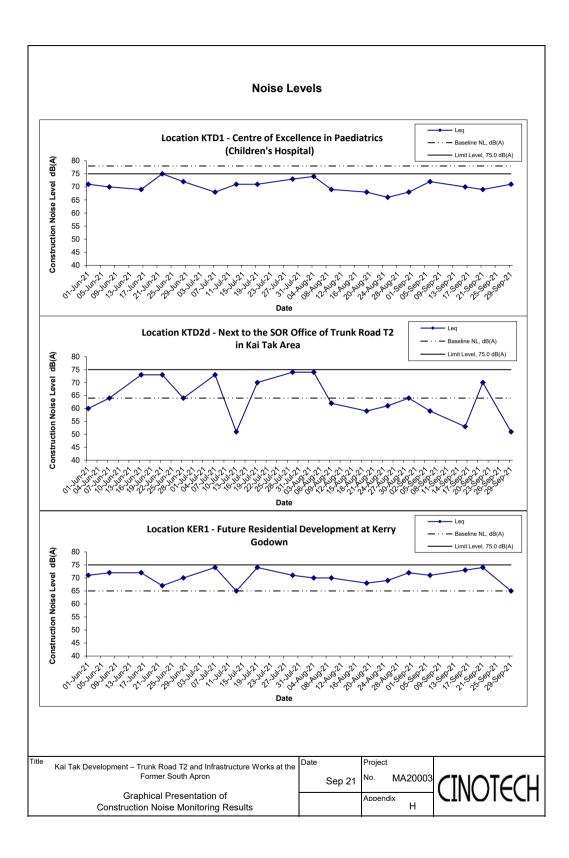
Loodanon one							
				Unit: dB	(A) (30-min)		
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	Time	vveatrier					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Sep-21	14:50	Sunny	70.6	74.4	59.3	71.4	70.6 Measured ≦ Baseline
16-Sep-21	15:30	Cloudy	74.5	78.1	61.1	71.4	72
21-Sep-21	15:10	Sunny	70.5	73.7	60.6	71.4	70.5 Measured ≦ Baseline
29-Sep-21	14:10	Sunny	71.7	75.9	68.6	71.4	60

Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
	Unit: dB (A) (30-min)						
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	Time	weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Sep-21	14:15	Sunny	71.5	72.9	70.1	78.0	71.5 Measured \leq Baseline
16-Sep-21	13:15	Cloudy	70.3	73.4	67.2	78.0	70.3 Measured ≦ Baseline
21-Sep-21	11:30	Cloudy	68.7	69.7	67.6	78.0	68.7 Measured ≦ Baseline
29-Sep-21	10:00	Sunny	70.5	72.6	68.4	78.0	70.5 Measured ≦ Baseline

Location KER1	Location KER1 - Future Residential Development at Kerry Godown						
	Unit: dB (A) (30-min)						
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	Time	weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Sep-21	10:45	Sunny	72.3	74.4	70.2	65.0	71
16-Sep-21	11:00	Sunny	74.0	73.8	68.4	65.0	73
21-Sep-21	11:00	Cloudy	74.2	77.3	68.8	65.0	74
29-Sep-21	11:30	Sunny	65.0	65.4	64.1	65.0	65 Measured ≦ Baseline

Location KTD2	Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area						
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	Time	Weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
6-Sep-21	9:25	Sunny	65.1	68.2	59.0	64.0	59
16-Sep-21	9:00	Sunny	64.3	65.9	62.0	64.0	53
21-Sep-21	10:00	Cloudy	71.3	73.4	66.1	64.0	70
29-Sep-21	11:00	Sunny	64.2	66.4	60.7	64.0	51





APPENDIX I SITE AUDIT SUMMARY

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

Checklist Reference Number	210902				
Date	02 September 2021 (Thursday)				
Time	09:30 - 12:00				

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

Ref. No.	Remarks/Observations	Related Item No
210902-R1	<i>B. Water Quality</i>Contractor is reminded to prevent washing the skip outside of construction area.	B10
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210826), no major environmental deficiency was identified during previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	2 September 2021
Checked by	Karina Chan	Zelle	2 September 2021

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

Checklist Reference Number	210906
Date	06 September 2021 (Monday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210902), all item has been identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	6 September 2021
Checked by	Karina Chan	Zelle	6 September 2021

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

Checklist Reference Number	210916
Date	16 September 2021 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
210916 - R1	 B. Water Quality Stockpile of mud/ dusty material should be covered by impervious material to minimize generation of dust. 	<i>B5</i>
210916 - R1	 C. Air Quality Stockpile of mud/ dusty material should be covered by impervious material to minimize generation of dust. 	C11
	D. Construction Noise ImpactNo environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210906), no major environmental deficiency was identified. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cife-	16 September 2021
Checked by	Karina Chan	Zelle	16 September 2021

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

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

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
210923 - R1	• Contractor is reminded to provide bund to surround the site area for flood protection.	B2
	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.:210916), all item has been identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	23 September 2021
Checked by	Karina Chan	Zalle	23 September 2021

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

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

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210923), follow-up action of the item (210923 – R1) is needed to be reviewed. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	30 September 2021
Checked by	Karina Chan	Zelle	30 September 2021

APPENDIX J EVENT AND ACTION PLANS

.	Action				
Event	ET	IEC	ER	Contractor	
Action Level					
 Exceedance for one sample 	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods agreed with the ER as appropriate. 	
2. Exceedance by two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures if required; Advise the ER on the effectiveness of the proposed remedial measures; 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	

Table J-1Event/Action Plan for Air Construction Dust Monitoring

	Action				
Event	ET	IEC	ER	Contractor	
Limit level 1. Exceedance for one sample	 7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring. 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; 	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; Implement the agreed proposals; Amend proposal if 	
	Contractor's remedial actions and keep IEC and ER informed of the results.	5. Supervise implementation of remedial measures.		appropriate.	
2. Exceedance for two or more	1. Notify IEC, ER and Contractor;	 Discuss amongst ER, ET, and Contractor on the potential 	1. Confirm receipt of notification of exceedance in	 Take immediate action to avoid further exceedance; 	
consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial	

E	Action			
Event	ET	IEC	ER	Contractor
samples	3. Repeat measurement to	2. Review Contractor's	2. Notify Contractor;	actions to ER and copy to the
	confirm findings;	remedial actions whenever	3. In consolidation with the IEC	IEC and ET within three
	4. Increase monitoring	necessary to assure their	and ET, agree with the	working days of notification;
	frequency to daily;	effectiveness and advise the	Contractor on the remedial	3. Implement the agreed
	5. Carry out analysis of	ER and ET accordingly;	measures to be implemented;	proposals;
	Contractor's working	3. Supervise the	4. Ensure remedial measures	4. Resubmit proposals if
	procedures with the ER to	implementation of remedial	properly implemented;	problem still not under
	determine possible mitigation	measures.	5. If exceedance continues,	control;
	to be implemented;		consider what portion of the	5. Stop the relevant portion of
	6. Arrange meeting with IEC		work is responsible and	works as determined by the
	and ER to discuss the		instruct the Contractor to	ER until the exceedance is
	remedial actions to be taken;		stop that portion of work	abated.
	7. Assess effectiveness of		until the exceedance is	
	Contractor's remedial actions		abated.	
	and keep IEC, EPD and ER			
	informed of the results;			
	8. If exceedance stops, cease			
	additional monitoring.			

Table J-2						
Event	Action					
Event	ET	IEC	ER	Contractor		
Action Level	1. Notify IEC, ER and	1. Review the monitoring data	1. Notify Contractor;	1. Submit noise mitigation		
	Contractor;	submitted by the ET;	2. Require Contractor to propose	proposals to the ER and copy		
	2. Carry out investigation;	2. Review the construction	remedial measures for	to the IEC and ET;		
	3. Report the results of	methods and proposed redial	implementation if required.	2. Implement noise mitigation		
	investigation to the IEC and	measures by the Contractor,		proposals.		
	Contractor;	and advise the ET and ER if				
	4. Discuss jointly with the ER	the proposed remedial				
	and formulate remedial	measures would be				
	measures;	sufficient.				
	5. Increase monitoring					
	frequency to check					
	mitigation effectiveness.					
Limit Level	1. Notify IEC, ER and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;		
	2. Identify source;	remedial actions;	writing;	2. Submit proposals for		
	3. Repeat measurements to	2. Review the Contractor's	2. Notify Contractor;	remedial actions to the ER		
	confirm findings;	remedial actions whenever	3. Require Contractor to	and copy to the ET and IEC		
	4. Carry out analysis of	necessary to assure their	propose remedial measures	within 3 working days of		
	Contractor's working	effectiveness and advise the	for the analysed noise	notification;		

Table J-2Event/Action Plan for Construction Noise Monitoring

Event			tion	
Event	ET	IEC	ER	Contractor
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under
	taken for the exceedances;		consider what portion of the	control;
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of
	frequency;		instruct the Contractor to stop	works as determined by the
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is
	the Contractor's remedial		exceedance is abated.	abated.
	action with the ER and keep			
	the IEC informed of the			
	results;			
	8. If exceedance stops, cease			
	additional monitoring.			

Event	Action			
	ET	IEC	ER	Contractor
Non-conformity	1. Identify Source;	1. Check report;	1. Notify Contractor;	1. Amend working methods;
on one occasion	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake
	3. Discuss remedial actions with	method;	are properly implemented.	any necessary replacement.
	IEC, ER and Contractor	3. Discuss with ET and the		
	4. Monitor remedial actions until	Contractor on possible		
	rectification has been	remedial measures;		
	completed.	4. Advise ER on effectiveness		
		of proposed remedial		
		measures;		
		5. Check implementation of		
		remedial measures		

Table J-3Event/Action Plan for Landscape and Visual

Event	Action			
	ET	IEC	ER	Contractor
Repeated	1. Identify source;	1. Check monitoring report;	1. Notify Contractor;	1. Amend working methods;
Non-conformity	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake
	3. Increase monitoring frequency;	method;	are properly implemented.	any necessary replacement.
	4. Discuss remedial actions with	3. Discuss with ET and the		
	the IEC, the ER and the	Contractor on possible		
	Contractor;	remedial measures;		
	5. Monitor remedial actions until	4. Advise ER on effectiveness		
	rectification has been	of proposed remedial		
	completed;	measures;		
	6. If exceedance stops, cease	5. Check implementation of		
	additional monitoring.	remedial measures		

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	f. Recommended Mitigation Measures			Implementation Agent	Relevant Standard or Requirement	1 8			Status
						D	С	0	
Air Quality Imp	act							l I	
\$2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m ² for the respective watering frequency;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		Λ
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)
	3-sided barriers around the stockpiling areas WA3 and WA4.								^
\$2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice: Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		٨
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;							-	٨
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								*
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								٨
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								^
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;	•							^
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement				Status
						D	C	0	
Noise Impact							1		
\$3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
\$3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m ² to screen noise from movable and stationary plant.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
\$3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m ² to screen noise from generally static noisy plant such as air compressors.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
	Mobile plant, if any, should be sited as far from NSRs as possible;								^
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								^
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								^
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								^
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality								I	
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		#
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
						D	С	0	
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m^3 would be required and for a flow rate of 0.5m^3 /s the basin would be 150m^3 . All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			
						D	С	0	
	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the 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;								٨
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								A
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								^
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								Λ.
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) 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;								*

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement				
						D	С	0	
	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;								۸
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and 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;								N/A(1)
	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 sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water 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 wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								*
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								٨
	All fuel tanks and storage areas should be provided with locks and sited 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 nearby WSRs.								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	Status				
						D	С	0				
S4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent of other on-site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)			
\$4.2.1.1	Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub- contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A			
	Uncontaminated discharge should pass through settlement tanks prior to discharge;											N/A
	If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;								N/A			
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A			

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
\$4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		^
	The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								٨
	An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stages		Status
						D	С	0	
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include: 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	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	generated by turbulence from vessel movement or propeller wash; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								^ N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	The Contractor must, also, 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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	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:	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	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							-	N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.							-	N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	1 0		n Stages	Status
						D	С	0	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
Marine Ecology		•		1	1	0			
\$5.3.1.1	Good construction practice measures have been recommended to be implemented as follows: Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;	•							N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)
Fisheries									
\$6.2.1.2	No fisheries specific mitigation measures.								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
Landscape and V	Visual		I			I			
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		^
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
S7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
87.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
\$7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
S7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
S7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	C	0	
\$7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
\$7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
87.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritag	e				•				
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

EM&A Ref.	Recommended Mitigation Measures	ation Measures Objectives of the Recommended Measures & Main Concern to Address					nentatio	n Stages	Status
						D	С	0	
Waste Managem	ent Implication								
\$9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
\$9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	С	0	
\$9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	•	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
89.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	· ·	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		N/A
\$9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
\$9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent Relevant Standard or Requirement			nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	6	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2		To minimize, reuse and disposal of C&D materials		Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2		To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures Objectives of the Location Recommended Measures & Main Concern to Address		Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	C	0	
\$9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		N/A(1)
89.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		٨

EM&A Ref.	Recommended Mitigation Measures	Recommended Mitigation Measures Objectives of the Recommended Location/Timing Implementat Measures & Main Concern to Address Concern to Address Main Agent		Implementation Agent	Relevant Standard or Requirement	Impler	Status		
						D	С	0	
S9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	*	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
89.2.1.2	All waste containers should be in a secure area on hardstanding.		All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
\$9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	•	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
89.2.1.2	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing		Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2		To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^

Remarks: EM	&A Programme under EP-451/2013
D	Design
С	Construction
Y	Yes
0	Operation
^	Compliance of mitigation measure;
N/A N/A(1)	Not applicable at this stage; Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
Х	Non-compliance of mitigation measure;
•	Non-compliance but rectified by the contractor.

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

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

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: September 2021

Log Ref.	Location	Received Date	Details of Complaint/war ning/summon and prosecution	Investigation/Mitigation Action	Status
-	-	-	-	-	-

Remarks:

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

APPENDIX M SUMMARY OF EXCEEDANCE

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

Appendix M – Summary of Exceedance

Reporting Month: September 2021

(A) Exceedance Report for Air Quality No Action Level and Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

(B) Exceedance Report for Construction Noise

<u>Action Level for Construction Noise</u> No Action Level exceedance was recorded in this reporting month.

<u>Limit Level for Construction Noise</u> No Limit Level exceedance for daytime construction noise monitoring was recorded in the reporting month.

(C) Summary of Landscape and Visual Non-Conformity (NIL in the reporting month)

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16
ED/2018/04 - Trunk Road T2	635	25-Aug-20	17-Oct-22	25-Aug-20 A	18-Jan-23	
DESIGN SUBMISSION & APPROVAL	513	23-Sep-20	21-Jun-22	28-Oct-20 A	07 - Mar-22	
GENERAL	359	06-Oct-20	20-Dec-21	30-Dec-20 A	19-Feb-22	GENERAL
Design Memorandum	0	06-Oct-20	06-Oct-20	21-Apr-21 A	07-Jun-21 A	
Design Memorandum - Further Information required	0			21-Apr-21 A	16-May-21 A	orandum + Further Information required
Design Memorandum - 7th Sub	0				16-May-21 A	oraḥdum - 7th Sựb
Design Memorandum - 7th Review	0			17-May-21 A	07-Jun-21 A	Design Memorandum;- 7th Review;
Design Memorandum - Approval	0		06-Oct-20		07-Jun-21 A	le Pésign Memorandum:- Approval
Construction Traffic Impact Assessment - Kai Tak Area	0	06-Oct-20	06-Oct-20	03-May-21 A	06-Sep-21 A	
CTIA Kai Tak Area - Resubmission	0			03-May-21 A	19-Aug-21 A	CTIA Kal Tak Area - Resubmission
CTIA Kai Tak Area - 6th Sub	0				19-Aug-21 A	◆ :CTIA Kai Tak Area:-6th Sub
CTIA Kai Tak Area - 6th Review	0			20-Aug-21 A	06-Sep-21 A	CȚIA Kai Tak Area - 6th Review
CTIA Kai Tak Area - Approval	0		06-Oct-20		06-Sep-21 A	:♦ CŤIA Kai Tak Area - Ápproval
ACABAS - Western Tunnel Portal	30	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A	
DDA - 2nd Review by SO	35	20 - Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A	Review by SO
DDA - SO Consent for Construction	0		24-Dec-20		18-May-21 A	Consent for Construction
ACABAS- Footbridge FB-02	20	01-Apr-21	29-Apr-21	06-Jan-22	03-Feb-22	
DDA - 1st Sub	0		01-Apr-21		06-Jan-22	◆ iDDA -i1st Su
DDA - Review by SO	28	02-Apr-21	29-Apr-21	07-Jan-22	03-Feb-22	
DDA - Review by IP / DC	28	02-Apr-21	29-Apr-21	07-Jan-22	03-Feb-22	
DAP - WVB	48	13-Sep-21	10-Nov-21	20-Dec-21	19-Feb-22	V DAP-WVB
DDA - Draft - Preparation by Designer	48	13-Sep-21	10-Nov-21	20-Dec-21	19-Feb-22	
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	01-Apr-21 A	09-Oct-21	
AIP - 3rd Review by SO	0			01-Apr-21 A	05-May-21 A	P
AIP - Further information required by SO	0			06-May-21 A	28-May-21 A	P - Further information required by SO
AIP - 4th Sub	0				28-May-21 A	IP -4th S∳b
AIP - 4th Review by SO	0			29-May-21 A	29-Jun-21 A	AJP - 4th Review by \$O
AIP - Further information required by SO	0			30-Jun-21 A	07-Sep-21 A	AIP - Further information required by SC
AIP - 5th Sub	0				07-Sep-21 A	l AVP - 5th Sub
AIP - 5th Review by SO	0			08-Sep-21 A	09-Oct-21	AIP + 5th Review by SC
AIP - SO Consent for DDA Submission	0		16-Feb-21		09-Oct-21	AIP - SO Consertior DDA Submission
DDA Roadworks and Street Furniture	95	16-Feb-21	14-Jun-21	11-Oct-21	03-Feb-22	DDA Roadworks and Street Furniture
DDA - Draft - Preparation by Designer	36	16-Feb-21	29-Mar-21	11-Oct-21	22-Nov-21	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	18	30-Mar-21	23-Apr-21	23-Nov-21	13-Dec-21	DDA - Draft - Final Review and pre
DDA - 1st Sub	0		23-Apr-21		13-Dec-21	◆ DQA- 1st Sub
DDA - Review by SO	28	24-Apr-21	21-May-21	14-Dec-21	10-Jan-22	
DDA - Review by IP / DC	28	24-Apr-21	21-May-21	14-Dec-21	10-Jan-22	
DDA - Further information required by SO	24	22-May-21	14-Jun-21	11-Jan-22	03-Feb-22	
DDA Traffic Sign, Road Marking & Sign Gantry	75	21-Sep-21	20-Dec-21	01-Apr-21 A	11-Nov-21	V DDA Traffic Sign, Road Mari
DDA - Review by SO	28	21-Sep-21	18-Oct-21	01-Apr-21 A	14-May-21 A	DDA - Review by SO
DDA - Review by IP / DC	28	21-Sep-21	18-Oct-21	01-Apr-21 A	03 - May-21 A	DộA - Rệview bý IP /DC
DDA - Further information required by SO	24	19-Oct-21	15-Nov-21	15-May-21 A	22-Jun-21 A	DDA - Further information required by SO
DDA - 2nd Sub	0		15-Nov-21		22-Jun-21 A	◆ DŪA-2nd \$ub
DDA - 2nd Review by SO	35	16-Nov-21	20-Dec-21	23-Jun-21 A	08-Ju l- 21 A	DDA - 2nd Review by SO
DDA - Further information required by SO	0			09-Ju l- 21 A	07-Oct-21	DDA - Further information required by SO
DDA - 3rd Sub	0				07-Oct-21	◆ DDA -3rd Sψb
Page 1 of 27 Mestone		Summary				Date Revision Checked Approv
Page 1 of 27 Data Date: 02-Oct-21		Summely		2010/0	<u>л т.</u>	
Data Date: 02-Oct-21						TK ROAD 12 and Imirastructure vvorks
Actual Miestone				f	or Dev	velopments at South Apron BOUYGUES 10-Apr-20 01V1 SPa/LLo WYu TRAVAUX PUBLICS 10-Apr-20 01V2 SPa/LLo WYu
Actual your Actual yo						17-JU-20 01/2 SPa/LLo WYU
Baseline Bar				Three	Mont	hs Rolling Programme (Sep-21)
			1			

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022	
						June Judy August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21	23 0
DDA - 3rd Review by SO	0			08-Oct-21	11-Nov-21		
DDA - SO Consent for Construction	0		20-Dec-21		11-Nov-21	◆ DDA - SQ Consent for Co	nstruction
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	0	22-Jan-21	22-Jan-21	16-Apr-21 A	21-Oct-21		
DDA - Further information required by SO	0			16-Apr-21 A	07-Jun-21 A	A DDA - Further information required by SO	
DDA - 4th Sub	0				07-Jun-21 A	A 🔷 DDA - 4th Sub	
DDA - 4th Review by SO	0			08-Jun-21 A	15-Jul-21 A	DDA -4th Review by SO	
DDA - Further information required by SO	0			16-Jul-21 A	07-Sep-21 A	A DDA - Further information required by SO	
DDA - 5th Sub	0				07-Sep-21 A	A DDA - 5th Sub	
DDA - 5th Review by SO	0			08-Sep-21 A	21-Oct-21	DDA -5th Réview by SO	
DDA - SO Consent for DDA Submission	0		22-Jan-21		21-Oct-21	♦ DDA - SO Consent for DDA Submission	
DDA Structural Health Monitoring System (SHMS)	133	28-Dec-20	11-Jun-21	23-Mar-21 A	05-Jul-21 A	DDA Structyral Health Monitoring System (SHMS);	
DDA - Draft - Preparation by Designer	36	28-Dec-20	08-Feb-21	23-Mar-21 A	05-May-21 A	A on by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	24	09-Feb-21	11-Mar-21	06-May-21 A	13-May-21 A	A Inal/Review and prepare for 1st Sub:	
DDA - 1st Sub	0		11-Mar-21		13-May-21 A		
DDA - Review by SO	28	12-Mar-21	08-Apr-21	14-May-21 A	08-Jun-21 A	A DDA-Reviewby SO	
DDA - Review by IP / DC	28	12-Mar-21	08-Apr-21	14-May-21 A	10-Jun-21 A	DDA -Review by IP / DC	
DDA - Further information required by SO	24	09-Apr-21	07-May-21	09-Jun-21 A	10-Jun-21 A	A DDA -Further information required by SO	
DDA - 2nd Sub	0		07-May-21		10-Jun-21 A	A DDA -2nd Sub	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	11-Jun-21 A	05-Jul-21 A	A DDA - 2rid Review by SO	
DDA - SO Consent for Construction	0		11-Jun-21		05-Jul-21 A		
AIP Landscape Design	59	15-Nov-20	26-Jan-21	30-Dec-20 A	07-Jun-21 A		
AIP - Review by IP / DC	28	15-Nov-20	12-Dec-20	30-Dec-20 A			
AIP - Further information required by SO	0			13-Apr-21 A	11-May-21 A	A mation required by SO	
AIP - 3rd Sub	0				11-May-21 A		+
AIP - 3rd Review by SO	0			12-May-21 A	07-Jun-21 A	A AIP - 3rd:Review by SO	
AIP - SO Consent for Construction	0		26-Jan-21		07-Jun-21 A	A AIP - SO Consent for Construction	
DDA Landscape Design	141	27-Jan-21	22-Jul-21	08-Jun-21 A	13-Nov-21	DDA Landscape Design	
DDA - Draft - Preparation by Designer	42	27-Jan-21	19-Mar-21	08-Jun-21 A	15-Jul-21 A	DDA -Draft Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Mar-21	21-Apr-21	16-Jul-21 A	28-Jul-21 A	A DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		21-Apr-21		28-Jul-21 A	A DDA - 1st Sub	
DDA - Review by SO	28	22-Apr-21	19-May-21	29-Jul-21 A	09-Sep-21 A		
DDA - Review by IP / DC	28	22-Apr-21	19-May-21	29-Jul-21 A	14-Sep-21 A	A DDA-Reviewby IP (DC	
DDA - Further information required by SO	24	20-May-21	17-Jun-21	10-Sep-21 A	09-Oct-21	DDA - Further information required by SO	
DDA - 2nd Sub	0		17-Jun-21		09-Oct-21	◆ DDA-2nd;Sub	
DDA - 2nd Review by SO	35	18-Jun-21	22-Jul-21	10-Oct-21	13-Nov-21	DDA - 2nd Review by SD	
DDA - SO Consent for Construction	0		22-Jul-21		13-Nov-21	DDA-SO Consent for Construction	
DEPRESSED ROAD [DPR]	120	23-Sep-20	19-Feb-21	29-Apr-21 A	27-Nov-21		
DDA DPR - Portal Structure	120	23-Sep-20	19-Feb-21	29-Apr-21 A	27-Nov-21		
DDA - Draft - Preparation by Designer	30	23-Sep-20	30-Oct-20	29-Apr-21 A	28-May-21 A	A DA- Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	04-Dec-20	29-May-21 A	08-Sep-21 A	A DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		04-Dec-20		08-Sep-21 A	A DDA-1st Sub	
DDA - Review by SO	28	05-Dec-20	01-Jan-21	09-Sep-21 A	08-Oct-21	DDA + Review by SO	
DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21	09-Sep-21 A	08-Oct-21	DDA - Review by IP / DC	
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21	09-Oct-21	23-Oct-21	DDA - Further information required by SO	
DDA - 2nd Sub	0		15-Jan-21		23-Oct-21	DDA- 2nd Sub	
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	24-Oct-21	27-Nov-21	DA - 2nd Review by SO	
Page 2 of 27 Data Date: 02-Oct-21	~	Summary		f	or Dev	Ink Road T2 and Infrastructure Works evelopments at South Apron ths Rolling Programme (Sep-21)	oved

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				2021							2022	
						June July 30 06 13 20 27 04 11 18	25	August 01 08 15 22 29	September 05 12 19 26	October	24 31	Novem		Decembe 8 05 12		January	23 1
DDA - SO Consent for Construction	0	1	19-Feb-21		27-Nov-21				00 12 10	00 10	27 5.	01		DA - SO Consen			
Stage 1A Completion	0	,†	19-Feb-21		27-Nov-21								♦ \$	tage 1A Complet	tion		
WEST VENTILATION BUILDING [WVB]	247	14-Nov-20	14-Sep-21	28-Oct-20 A	18-Dec-21				WEST VENT	ILATION BUILDIN	G [WVB]						
DDA WVB - ELS De sign (DC RA + Dewatering & Pumping T	0	08-Feb-21	08-Feb-21	· ·	27-Jul-21 /	A											
DDA - 4th Review by SO	0	l		02-Apr-21 A	04-May-21												
DDA - Further information required by SO	0			05-May-21 A	11-May-21	A ormation required by SO											
DDA - 5th Sub	0				11-May-21	A											
DDA - 5th Review by SO	0			12-May-21 A	16-Jun-21	A DDA - 5th Review by SO											
DDA - Further information required by SO	0	I		17-Jun-21 A	20-Jul-21 A	A	DDA - F	urther information required by S	0								
DDA - 6th Sub	0				20-Jul-21 A	A	DDA - 6	ith Sub									
DDA - 6th Review by SO	0			21-Jul-21 A	27-Jul-21 A	•	D	DA - 6th Review by SO									
DDA - SO Consent for Construction	0		08-Feb-21		27-Jul-21 A	4	♦ D	DA - SO Consent for Construction	on								
DDA WVB - Accommodation (SoA)	79	30-Dec-20	09-Apr-21	29-Oct-20 A	09-Oct-21]			
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	29-Oct-20 A	12-Jul-21 A	A DDA-R	Reviewb	bylP/DC									
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 /	A DDA-F	Further in	information required by SO									
DDA - 3rd Sub	0				12-Jul-21 /		3rd Sub										
DDA - 3rd Review by SO	0			13-Jul-21 A	09-Oct-21		1			DDA - 31	dReviewby	SO					
DDA - SO Consent for Construction	0		09-Apr-21		09-Oct-21					🔶 DDA - S	O Consent for	r Çonstructic	on				
DDA WVB - Permanent Structure	78	11-Mar-21	17-Jun-21	03-Feb-21 A	17-Jul-21 A	A DDA WVB - Permanent Structu	une l										
DDA - Review by IP / DC	28	11-Mar-21	07-Apr-21	03-Feb-21 A	13-May-21	A þy 📭 / DC											
DDA - Further information required by SO	30	08-Apr-21	13-May-21	20-Mar-21 A	13-May-21	A nformation required by SO											
DDA - 2nd Sub	0		13-May-21		13-May-21	A											
DDA - 2nd Review by SO	35	14-May-21	17-Jun-21	14-May-21 A	17-Jul-21 A		DA - 2nd	Review by SO									
DDA - SO Consent for Construction	0		17-Jun-21		17-Jul-21 A	A 🔷 🔶 DD	DA - SO	Consent for Construction									
DDA WVB - ABWF	151	11-Mar-21	11-Sep-21	14-May-21 A	18-Dec-21				DDA WVB - AB	WF							
DDA - Draft - Preparation by Designer	45	11-Mar-21	07-May-21	14-May-21 A	14-Aug-21	A		DDA - Draft - Pre	eparation by Designer								
DDA - Draft - Final Review and prepare for 1st Sub	24	08-May-21	05-Jun-21	16-Aug-21 A	10-Sep-21	A			DDA - Draft - Fin	al Review and pre	pare for 1st Su	ub					
DDA - 1st Sub	0	1	05-Jun-21		10-Sep-21	A 💠			DDA 1st Sub								
DDA - Review by SO	28	06-Jun-21	03-Ju l- 21	11-Sep-21 A	08-Oct-21				· · · · · · · · · · · · · · · · · · ·	DDA - Re	view by SO						
DDA - Review by IP / DC	28	06-Jun-21	03-Ju l- 21	11-Sep-21 A	08-Oct-21					DDA - Re	view by 🏴 / D	þ					
DDA - Further information required by SO	30	05-Ju l- 21	07-Aug-21	09-Oct-21	13-Nov-21							— D	DA Further	information requi	ired by SO		
DDA - 2nd Sub	0		07-Aug-21		13-Nov-21			♦				• D	DA - 2nd Sut	,			
DDA - 2nd Review by SO	35	08-Aug-21	11-Sep-21	14-Nov-21	18-Dec-21										DDA - 2nd 1	Review by SO	
DDA - SO Consent for Construction	0		11-Sep-21		18-Dec-21				♦		1			•	DDA - SO	Conseint for Cons	struction
DDA WVB - General Building Plan	77	16-Jun-21	14-Sep-21	28-Oct-20 A	09-Oct-21				DDA WYB	General Building Pl	lan						
DDA - Review by IP / DC	28	16-Jun-21	13-Ju l- 21	28-Oct-20 A	12-Jul-21 A	A DDA-		/by IP / DC									
DDA - Further information required by SO	0	1		09-Mar-21 A	12-Jul-21 A	A DDA - F	Further i	information required by SO									
DDA - 3rd Sub	0	,†	1		12-Jul-21 A	A DDA - 3	3rd Sub										
DDA - 3rd Review by SO	0			13-Jul-21 A	09-Oct-21			······································	+++	DDA - 31	dReviewby	sø					
DDA - SO Consent for Construction	0	,†	14-Sep-21		09-Oct-21				♦	🔶 DDA - S	O Consent for	Constructio	on				
DDA WVB - Aesthetic Design	199	14-Nov-20	20-Jul-21	18-Feb-21 A	16-Dec-21	· · · · · · · · · · · · · · · · · · ·	DDA W	VB - Aesthetic Design									
DDA - Draft - Preparation by Designer	48	14-Nov-20	12-Jan-21	18-Feb-21 A	03-May-21	An by Designer											
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	04-May-21 A	13-May-21	A inal Review and prepare for 1st Sub											
DDA - 1st Sub	0	1	09-Feb-21		13-May-21	A											
DDA - Review by SO	28	10-Feb-21	09-Mar-21	14-May-21 A	03-Jun-21 /	A 🗖 DDA - Review by SO	1										
DDA - Review by IP / DC	28	10-Feb-21	09-Mar-21	14-May-21 A	08-Oct-21			······	· · · · ·	DDA Re	view by iP / D)C					ĪĪ
			Τ										Data	Povision			
Page 3 of 27 Pate Data: 00 Oct 01 Planned Bar	••••	Summary		~~ 4 ~ / ~	· · · ·		,	· · · · · · · · · · · · · · · · · · ·					Date ec-19 (Revision 00V1	Check WYu	ea Appi	roved
Data Date: 02-Oct-21			ED/2	2018/0	4 Iru	ink Road T2 and Infr	rası	tructure work						01V0	SPa/LLo	WYu	
Actual Miestone				f [,]	or De	evelopments at Sout	hΑ	bron		BOUYGU RAVAUX PUB	ES)	09-A	pr-20 ()1V1	SPa/LLo	WYu	
Actual Work							• • •	P · - · ·		KAVAUA PUD		17-Ju		01V2	SPa/LLo	WYu	
Baseline Bar				Three	• Mor	ths Rolling Program	ime	(Sep-21)				09-O		01V3 02V0	SPa/LLo SPa/LLo	WYu WYu	
												02-30	u - 21 0		JSFa/LLO		

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00V1	WYu	
01V0	SPa/LLo	WYu
01V1	SPa/LLo	WYu
01V2	SPa/LLo	WYu
01V3	SPa/LLo	WYu
02V0	SPa/LLo	WYu

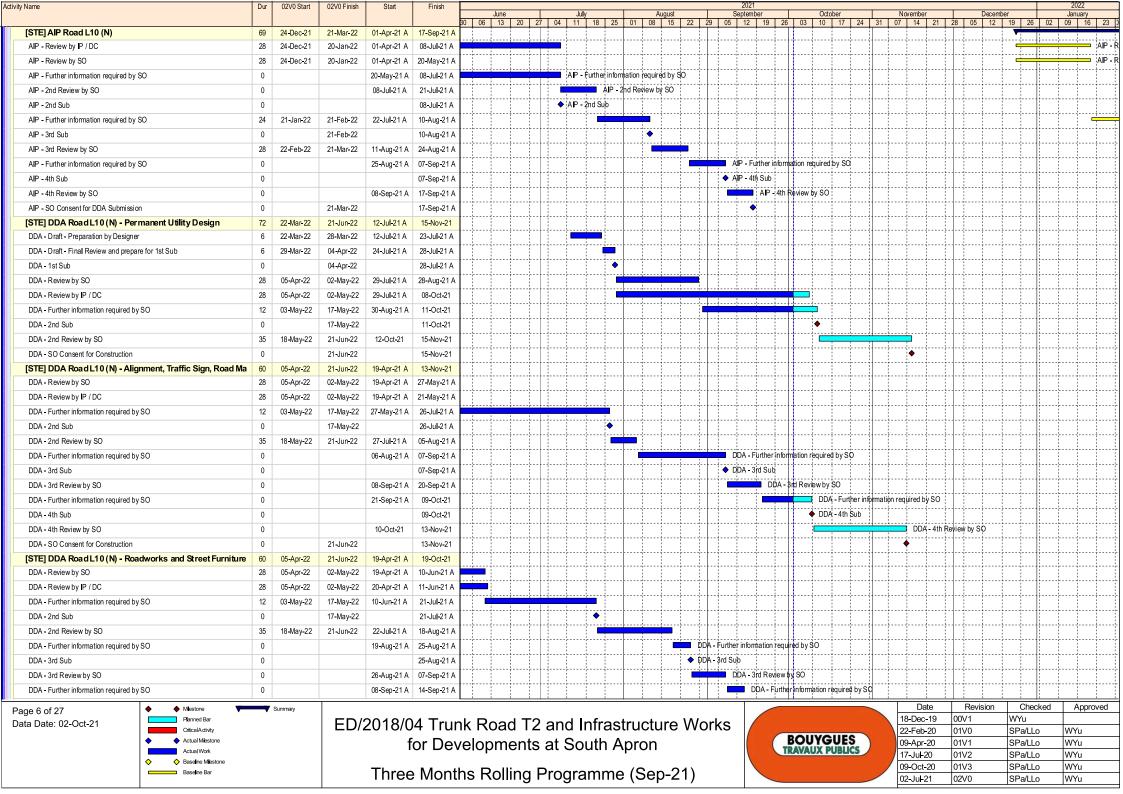
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23
DDA - Further information required by SO	24	10-Mar-21	10-Apr-21	04-Jun-21 A	19-Jun-21 A	DDA - Further information required by SO
DDA - 2nd Sub	0		10-Apr-21		19-Jun-21 A	♦ DDA-2nd:Sub
DDA - 2nd Review by SO	35	11-Apr-21	15-May-21	20-Jun-21 A	14-Oct-21	DDA-/2nd Review by SO
DDA - 2nd Review by IP	35	11-Apr-21	15-May-21	20-Jun-21 A	14-Oct-21	DDA-i2nd Review by IP
DDA - Further information required by SO	24	17-May-21	15-Jun-21	15-Oct-21	11-Nov-21	DDA -;Furthér ihformation required by \$0
DDA - 3rd Sub	0		15-Jun-21		11-Nov-21	♦ DDA - 3rd Sub
DDA - 3rd Review by SO	35	16-Jun-21	20-Ju l- 21	12-Nov-21	16-Dec-21	DDA -3rd Review by SO
DDA - SO Consent for Construction	0		20-Ju l- 21		16-Dec-21	♦ DDA - SO Consent for Construction
SOUTH APRON ROAD WORKS	483	30-Oct-20	21-Jun-22	01-Apr-21 A	21-Feb-22	
AIP Road L10 (S)	0	30-Oct-20	30-Oct-20	27-Apr-21 A	10-May-21 A	
AIP - 4th Review by SO	0			27-Apr-21 A	10-May-21 A	py SO
AIP - SO Consent for DDA Submission	0		30-Oct-20		10-May-21 A	for DDA Submission
DDA Road L10 (S) + Outfal 2 - Permanent Utility Design	0	26-Feb-21	26-Feb-21	09-Apr-21 A	26-May-21 A	
DDA - 4th Review by SO	0			09-Apr-21 A	26-May-21 A	A - 4th Review by SO
DDA - SO Consent for Construction	0		26-Feb-21		26-May-21 A	A - SO Consent for Construction
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking a	0	25-May-21	25-May-21	16-Apr-21 A	20-Nov-21	A Róad L10 (S) - Alignment Traffic Sign, Róad Marking and Traffic Light
DDA - 3rd Review by SO	0			16-Apr-21 A	03-May-21 A	
DDA - Further information required by SO	0			04-May-21 A	12-Jun-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				12-Jun-21 A	◆ DDA- 4th Şub
DDA - 4th Review by SO	0			14-Jun-21 A	24-Jun-21 A	DDA - 4th Review by SO
DDA - Further information required by SO	0			25-Jun-21 A	09-Oct-21	DDA - Further information required by SO
DDA - 5th Sub	0				09-Oct-21	◆ DDA - 5th Şub
DDA - 5th Review by SO	0			11-Oct-21	20-Nov-21	DDA - 5th Review by SO
DDA - SO Consent for Construction	0		25-May-21		20-Nov-21	DDA - SO Consent for Construction
DDA Road L10 (S) - Roadworks and Street Furniture	0	19-Aug-21	19-Aug-21	01-Apr-21 A	20-Nov-21	▼ :DDA Road L10 (S):- Roadworks and Street Furniture
DDA - 3rd Review by SO	0			01-Apr-21 A	13-May-21 A	ewby SO:
DDA - Further information required by SO	0			14-May-21 A	31-May-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				31-May-21 A	DDA - 4th Sub
DDA - 4th Review by SO	0			01-Jun-21 A	21-Jun-21 A	DDA - 4th Review by SO
DDA - Further information required by SO	0			22-Jun-21 A	02-Ju l- 21 A	DDA- Further information required by SO
DDA - 5th Sub	0				02-Jul-21 A	🔷 DDA- 5th Sub
DDA - 5th Review by SO	0			03-Ju l- 21 A	21-Jul-21 A	DDA - 5th Review by SO
DDA - Further information required by SO	0			22-Jul-21 A	09-Oct-21	DDA - Further information required by SO
DDA - 6th Sub	0				09-Oct-21	◆ DDA6th Sub
DDA - 6th Review by SO	0			11-Oct-21	20-Nov-21	DDA-6th Review by SQ
DDA - SO Consent for Construction	0		19-Aug-21		20-Nov-21	◆ DDA - SO Consent for Construction
DDA Foot Bridge FB-02	0	09-Mar-21	09-Mar-21	01-Apr-21 A	20-Nov-21	
DDA - Further information required by SO	0			01-Apr-21 A	11-May-21 A	ormation required by SO
DDA - 3rd Sub	0				11-May-21 A	
DDA - 3rd Review by SO	0			12-May-21 A	20-Jul-21 A	DDA - 3rd Review by SO
DDA - Further information required by SO	0			21-Ju l- 21 A	09-Oct-21	DDA - Further information required by SO
DDA - 4th Sub	0				09-Oct-21	◆ DDA4th Şub
DDA - 4th Review by SO	0			11-Oct-21	20-Nov-21	DDA-4th Review by SO
DDA - SO Consent for Construction	0		09-Mar-21		20-Nov-21	DDA - SO Consent for Construction
AIP - Kiosk	36	03-Jan-22	16-Feb-22	07-Jan-22	21-Feb-22	
AIP - Draft - Preparation by Designer	36	03-Jan-22	16-Feb-22	07-Jan-22*	21-Feb-22	
Page 4 of 27 Milestone		Summary				Date Revision Checked Approved
Page 4 of 27 Data Date: 02-Oct-21	•			2012/0	1 True	hk Road T2 and Infrastructure Works
CriticalAdivity						
Actual Wiestone				f	or Dev	velopments at South Apron
Sealer Mestone				- -		
Baseline Bar				Ihree	Mont	hs Rolling Programme (Sep-21)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				2021					2022
						June 30 06 13 20 27	July ' 04 11 18 25	August 01 08 15 22	September 29 05 12 19	October 26 03 10 17 24 3	November 31 07 14 21	28 05 12		January 09 16 23 0
[STE] DDA CUE L10 (N) Permanent Works	29	06-Oct-21	09-Nov-21	02-Apr-21 A	30-Oct-21		07 11 10	0, 00, 10		V	V [\$TE] DDA CUE	L10 (N) Perman		
DDA - 2nd Review by SO	35	06-Oct-21	09-Nov-21	02-Apr-21 A	14-May-21 A						DDA - 2nd Revie	ew by SO		
DDA - Further information required by SO	0			15-May-21 A	28-May-21 A	DA - Further information re	quired by SO							
DDA - 3rd Review by SO	0			28-May-21 A	23-Jun-21 A	þda	- 3rd Review by SO							
DDA - 3rd Sub	0				28-May-21 A	DA- 3rd Sub								
DDA - Further information required by SO	0			23-Jun-21 A	26-Aug-21 A				DDA Further information	required by SO				
DDA - 4th Sub	0				26-Aug-21 A			•	DDA 4th Sub					
DDA - 4th Review by SO	0			27-Aug-21 A	08-Sep-21 A			•	DDA - 4th Rev	iew by SO				
DDA - Further information required by SO	0			09-Sep-21 A	16-Sep-21 A				DDA -	Further information required by SC)			
DDA - 5th Sub	0				16-Sep-21 A				♦ DDA -	5th Sub				
DDA - 5th Review by SO	0			17-Sep-21 A	30-Oct-21						DDA - 5th Review by SO			
DDA - SO Consent for Construction	0		09-Nov-21		30-Oct-21				······	•	DDA - SO Cons	ent for Constructi	an	
[STE] DDA District Cooling System Permanent Works	0	09-Dec-20	09-Dec-20	13-Apr-21 A	09-Oct-21									
DDA - 3rd Review by SO	0			13-Apr-21 A	06-May-21 A	SO								
DDA - Further information required by SO	0			07-May-21 A	02-Sep-21 A				DDA Further inform	nation required by SO				
DDA - 4th Sub	0				02-Sep-21 A				DDA 4th Sub					
DDA - 4th Review by SO	0			03-Sep-21 A	09-Oct-21					DDA 4th Review b	y SQ			
DDA - SO Consent for Construction	0		09-Dec-20		09-Oct-21					DDA - SO Consent 1	for Construction			
[STE] AIP Kai Hing Road / Lam Chak Street Modification	81	03-Nov-21	11-Feb-22	03-Nov-21	11-Feb-22						V		· · · · · · · · · · · · · · · · · · ·	
AIP - Draft - Preparation by Designer	24	03-Nov-21	30-Nov-21	03-Nov-21*	30-Nov-21							AlP Draft F	reparation by Design	ər
AIP - Draft - Final Review and prepare for 1st Sub	12	01-Dec-21	14-Dec-21	01-Dec-21	14-Dec-21							/	P - Draft - Final Revi	ew and prepare for
AIP - 1st Sub	0		14-Dec-21		14-Dec-21								VP - 1st Sub	
AIP - Review by SO	28	15-Dec-21	11-Jan-22	15-Dec-21	11-Jan-22								······	AlP - Réview by
AIP - Review by IP / DC	28	15-Dec-21	11-Jan-22	15-Dec-21	11-Jan-22								· · · · · · · · · · · · · · · · · · ·	AP Review by
AIP - Further information required by SO	24	12-Jan-22	11-Feb-22	12-Jan-22	11-Feb-22									
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	30-Apr-21 A	15-Jun-21 A								· · · · · · · · · · · · · · · · · · ·	
DDA - Further information required by SO	0			30-Apr-21 A	27-May-21 A	DA - Further information req	uired by SO							
DDA - 5th Sub	0				27-May-21 A	DA - 5th Sub								
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A	DDA - 5th R								
DDA - SO Consent for Construction	0		16-Dec-20		15-Jun-21 A	🔷 DDA - SO C	onsent for Construction							
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22-Dec-20	22-Dec-20	03-May-21 A	27-Aug-21 A									
DDA - Further information required by SO	0			03-May-21 A	09-Jul-21 A		DDA - Further inf	ormation required by SO						
DDA - 4th Sub	0				09-Jul-21 A		DDA 4th Sub							
DDA - 4th Review by SO	0			10-Ju l- 21 A	26-Jul-21 A			DA 4th Review by SO	T					
DDA - Further information required by SO	0			27-Jul-21 A	05-Aug-21 A			DDA - Further info	rmation required by SO					
DDA - 5th Sub	0				05-Aug-21 A			DDA -5th Sub						
DDA - 5th Review by SO	0			06-Aug-21 A	27-Aug-21 A			· · · · · · · · · · · · · · · · · · ·	DDA - 5th Review by SO					
DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A			•	DDA SO Consent for Co	Instruction				
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	0	03-Dec-20	03-Dec-20	13-Apr-21 A	13-May-21 A									
DDA - 4th Review by SO	0			13-Apr-21 A	13-May-21 A	ew by SO								
DDA - SO Consent for Construction	0		03-Dec-20		13-May-21 A	sent for Construction								
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	21-Apr-21 A	15-Jul-21 A				***				++	
DDA - Further information required by SO	0			21-Apr-21 A	20-May-21 A	urther information required b	by SO							
DDA - 5th Sub	0				20-May-21 A	h Sùb								
DDA - 5th Review by SO	0			21-May-21 A	15-Jul-21 A		DDA - 5th F	eview by SO						
DDA - SO Consent for Construction	0		03-Dec-20		15-Jul-21 A		DDA SO C	onsent for Construction						
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Page 5 of 27		Summary		2040/2	.				, ,		Date 18-Dec-19	Revision 00V1	Checked WYu	Approved
Data Date: 02-Oct-21			ED/2	2018/0	14 I rur	hk Road T2	and Infras	tructure W	orks		22-Feb-20	01V0	SPa/LLo	WYu
Actual Miestone				f	or Dev	/elopments	at South A	pron		BOUYGUES	09-Apr-20	01V1	SPa/LLo	WYu
Actual Work				•	2. 20			-l -		TRAVAUX PUBLICS	17-Jul-20	01V2	SPa/LLo	WYu
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Three Months Rolling Programme (Sep-21)

Baseline Bar

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	18-Dec-19	00V1	WYu	
١	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu



Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2021									2022	
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DDA - 4th Sub	0				14-Sep-21 A	30 06	13	20 21	04	11 18	25 01	08 15	22 29		DDA - 4th		03 10	17 24	31 07	14 21	28 05		3 20 02	09	16 23)
DDA - 4th Review by SO	0			15-Sep-21 A	19-Oct-21		++						·•••••••••					DDA 4	th Review	by SO	+				
DDA - SO Consent for Construction	0		21-Jun-22		19-Oct-21													•		· · · · · · ·					
[STE] DDA Road L10 (N) - Street Lighting	72	22-Mar-22	21 Jun 22	12-Jul-21 A	21-Oct-21																				
DDA - Draft - Preparation by Designer	6	22-Mar-22	28-Mar-22	12-Jul-21 A	16-Jul-21 A								++						1						
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	17-Jul-21 A	20-Jul-21 A								++												
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DDA - Review by SO	28	05-Apr-22	02-May-22	21-Jul-21 A	16-Aug-21 A		++						++						+		+				
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	21-Jul-21 A	16-Sep-21 A																				
DDA - Further information required by SO	12	03-May-22	17-May-22	17-Aug-21 A			++						·····												
DDA - 2nd Sub	0		17-May-22		16-Sep-21 A							-++	++		•				<u> </u>	-+					
DDA - 2nd Review by SO	35	18-May-22	21 Jun 22	17-Sep-21 A	· ·								· · · · · · · · · · · · · · · · · · ·												
DDA - SO Consent for Construction	0	10-1110 y-22	21-Jun-22	11-06p-217	21-Oct-21													•							
SUPPORTING UNDERGROUND STRUCTURE [SUS]	228	03-Oct-20	13-Jul-21	03-May-21 A	23-Feb-22							DERGROUND	STRUCTU												
AIP SUS - Internal Structure	145	03-Oct-20 03-Oct-20	29-Mar-21	03-May-21 A	23-Feb-22 13-Nov-21					• oprror										-+				-++-	
AIP - Draft - Preparation by Designer	72	03-Oct-20	29-Dec-20	03-May-21 A			AP-1	Draft - Pre	eparation h	y Designer			++-												
AIP - Draft - Final Review and prepare for 1st Sub	14	30-Dec-20	15-Jan-21	14-Jun-21 A	23-Jun-21 A						and prepare	e for 1st Sub	+++												
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	12	10-Feb-21		20-JUI-2 A									· · · · · · · · · · · · · · · · · · ·					AIP 2nd	<u>ilit.i.</u>						
AIP - 2nd Sub	0	00.14	01-Mar-21	17.0.1.04	16-Oct-21							- <u>-</u>							Sub		De lauri hu O				
AIP - 2nd Review by SO	28	02-Mar-21	29-Mar-21	17-Oct-21	13-Nov-21																Review by S				
AIP - SO Consent for DDA Submission	0		29-Mar-21		13-Nov-21					-										◆ AP - SO	Consent for I	JDA Submi	sion		
DDA SUS - Internal Structure	83	30-Mar-21	13-Jul-21	15-Nov-21	23-Feb-22					▼ DDA SU	S-Interna	al Structure							l	<u>.</u>		<u></u>			
DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	15-Nov-21	28-Dec-21		<u>. </u> .												4			-		Draft Pre	paration by
DDA - Draft - Final Review and prepare for 1st Sub	24	17-May-21	15 Jun 21	29-Dec-21	26-Jan-22																				
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DDA - Review by SO	28	16-Jun-21	13-Jul-21	27-Jan-22	23-Feb-22														ļ						
DDA - Review by IP / DC	28	16-Jun-21	13-Ju l- 21	27-Jan-22	23-Feb-22																				
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	133	17-Nov-20	03-May-21	30-Nov-20 A	13-Oct-21	HING SH	IAFT [C&C	:/LSJ																	
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	0	22-Dec-20	22-Dec-20	24-Apr-21 A	13-Oct-21		A Fuelder		Hala agaidas																
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DDA - SO Consent for Construction	0		22-Dec-20		13-Oct-21														44	onstruction					
Stage 2A Completion	0		22-Dec-20		13-Oct-21													tage 2A Co	mpletion						
DDA - LS Tympanum Structure for TBM Launching	61	16-Feb-21	03-May-21	29-Jan-21 A	16-Jun-21 A		or TBM La						ļļ.						.						
DDA - Further information required by SO	36	16-Feb-21	29-Mar-21	29-Jan-21 A	22-May-21 A		information	n required	l by SO										ļ						
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DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scher	0	03-Mar-21	03-Mar-21	24-Apr-21 A	11-Oct-21																				
Page 7 of 27 Mestone		Summary																-		Date	Rev	ision	Checked	Ap	proved
Page 7 of 27 → → Miestone Planned Bar		Carlindiy		2018/0	1 True) _ _	ι т о	<u></u>	l Infr	ootri	inturn	11/~	rko						18-Dec-19	00V1		VYu		
Critical A di vity														INS .		PC				22-Feb-20	01V0		6Pa/LLo	WYu	
Actual Milestone			1	f	or De	/eloi	pme	ents	at S	South	. ^ m	00				BC	OUYG	UE2		09-Apr-20	01V1	5	SPa/LLo	WYu	
Actual Work							P0		are	Journ	ι Αρι	10N				TRAV	VAUX PL	JELICS .		47 1 1 0 0	0.010	١.		1 /	
Actual Work							•				•					TRA	VAUX PL	JELICS		17-Jul-20	01V2		Pa/LLo	WYu WYu	
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)	01V2	SPa/LLo	WYu
20	01V3	SPa/LLo	WYu
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	2022
						June July August September October November December Ja D 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09	anuary 16 23 D
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A	DDA; Further information required by SO	10 20 5
DDA - 4th Sub	0				04-Jun-21 A	◆ DDA- 4th Sub	
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DDA - Further information required by SO	0			17-Jul-21 A	05-Oct-21	DDA - Further Information required by SO	
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DDA - 5th Review by SO	0			06-Oct-21	11-Oct-21	DDA - 5th Review by SO	
DDA - SO Consent for Construction	0		03-Mar-21		11-Oct-21	♦ DDA - SQ Consent for Construction	
DDA - C&C/LS Temporary Structure (SG Scheme)	111	17-Nov-20	01-Apr-21	30-Nov-20 A	02-Sep-21 A		
DDA - Draft - Preparation by Designer	18	17-Nov-20	07-Dec-20	30-Nov-20 A	12-Jun-21 A	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	6	08-Dec-20	14-Dec-20	14-Jun-21 A	02-Jul-21 A	DDA: Draft- Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		14-Dec-20		02-Jul-21 A	◆ DDA- 1st Sub	
DDA - Review by SO	28	15-Dec-20	11-Jan-21	03-Ju l- 21 A	16-Jul-21 A	DDA + Review by SO	
DDA - Review by IP / DC	28	15-Dec-20	11 Jan 21	03-Jul-21 A	16-Jul-21 A		
DDA - Further information required by SO	36	12-Jan-21	25-Feb-21	17-Ju l- 21 A	30-Aug-21 A	DØA - Further information required by SO	
DDA - 2nd Sub	0		25-Feb-21		30-Aug-21 A	DDA - 2nd Sub:	
DDA - 2nd Review by SO	35	26-Feb-21	01-Apr-21	31-Aug-21 A	-	DDA - 2nd Review by SD	
DDA - SO Consent for Construction	0		01-Apr-21		02-Sep-21 A	♦ DDA - SO Consent: for ¢qnstruction	· † · · · · † · · · · †
DDA - LS Thrust Frame / Blocks for TBM Launching	87	22-Nov-20	10-Mar-21	20-Feb-21 A	08-Jul-21 A		
DDA - Review by IP / DC	28	22-Nov-20	19-Dec-20	20-Feb-21 A	07-Jun-21 A	DDA - Réview By IP / DC	
DDA - Further information required by SO	36	21-Dec-20	03-Feb-21	17-Mar-21 A	07-Jun-21 A	DDA - Further information required by SO	
DDA - 2nd Sub	0		03-Feb-21		07-Jun-21 A	N DDA - 2rid Sub	
DDA - 2nd Review by SO	35	04-Feb-21	10-Mar-21	08-Jun-21 A	08-Jul-21 A	DDA -i2nd Review by SO	
DDA - SO Consent for Construction	0		10-Mar-21		08-Jul-21 A	◆ DDA -SO Consent for Canstruction	
SUB-SEA TBM TUN NEL	220	29-Nov-20	28-Aug-21	02-Jan-21 A	28-Dec-21	₩ \$UB-SEATBM TUNNEL	
DDA - Special Segment for CP construction	81	13-Dec-20	24-Mar-21	20-Mar-21 A	30-Aug-21 A		
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	20-Mar-21 A	28-Jul-21 A	DA - Review by IP!/DC	
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	21-Apr-21 A	28-Jul-21 A	PDA - Further information required by \$O	
DDA - 2nd Sub	0		17-Feb-21		28-Jul-21 A	♦ DDA - 2nd Sub	
DDA - 2nd Review by SO	35	18-Feb-21	24-Mar-21	29-Jul-21 A	30-Aug-21 A	DQA - 2rjd Review by SO	
DDA - SO Consent for Construction	0		24-Mar-21		30-Aug-21 A	DDA - SO Consent for Construction	
DDA - Sub-sea Tunnel - TBM Confinement	132	02-Jan-21	16-Jun-21	02-Jan-21 A	15-Oct-21	DDA - Sub-sea Tunhel - TBM Confinement	
DDA - Draft - Preparation by Designer	36	02-Jan-21	16-Feb-21	02-Jan-21 A	01-May-21 A	y Designér	
DDA - Draft - Final Review and prepare for 1st Sub	24	17-Feb-21	16-Mar-21	03-May-21 A	07-Jun-21 A	DộA - Diạft - Final Review and prepare for 1st Sub	
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DDA - Review by SO	28	17-Mar-21	13-Apr-21	08-Jun-21 A	08-Jul-21 A	DDA-;Review by SO	
DDA - Review by IP / DC	28	17-Mar-21	13-Apr-21	08-Jun-21 A	10-Sep-21 A	DDA + Review by IP / DC	· • · · · • • • • • • • • • • • • • • •
DDA - Further information required by SO	24	14-Apr-21	12-May-21	09-Jul-21 A	10-Sep-21 A	DDA - Further information required by SO	
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DDA - SO Consent for Construction	0		16-Jun-21		15-Oct-21	♦ DDA SO Çonsenţi for Construiţiion	
DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD	73	29-Nov-20	01-Mar-21	28-Apr-21 A	20-Nov-21	╶╬╍╌╢╍╌╢╌╢┝╢╌╢┝╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌╢╌	
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DDA - Review by IP / DC	28	29-Nov-20	26-Dec-20	28-Apr-21 A	08-Oct-21	DDA - Reviéw by IP / DC	
DDA - Further information required by SO	24	28-Dec-20	25-Jan-21	29-May-21 A	16-Oct-21	DDA-Further information required by SO	
DDA - 2nd Sub	0		25-Jan-21		16-Oct-21	◆ DDA - 2nd Şub	
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	17-Oct-21	20-Nov-21	DDA - 2nd Review by SD	
Page 8 of 27 Data Date: 02-Oct-21	•	Summary	ED/2			k Road T2 and Infrastructure Works elopments at South Apron	Approved Yu Yu Yu
Saseline Mestone Baseline Bar				Three	Mont	es Polling Programmo (Son 21)	Yu Yu Yu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
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DDA - SO Consent for Construction	0	1	01-Mar-21		20-Nov-21	
DDA Tunnel - General Building Plan	147	02-Mar-21	28-Aug-21	02-Jun-21 A	28-Dec-21	1 DDA Tunnel - General Bullding Plan
DDA - Draft - Preparation by Designer	30	02-Mar-21	09-Apr-21	02-Jun-21 A	26-Jul-21 A	A DtpA - Dtaft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Apr-21	08-May-21	27-Jul-21 A	03-Aug-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0	1	08-May-21	1	03-Aug-21 A	A DDA - 1st Sub;
DDA - Review by SO	28	10-May-21	11-Jun-21	04-Aug-21 A	09-Oct-21	1 DDA- Review by SO
DDA - Review by IP / DC	28	10-May-21	11-Jun-21	04-Aug-21 A	09-Oct-21	
DDA - Further information required by SO	30	12-Jun-21	19-Ju l- 21	11-Oct-21	15-Nov-21	1 DDA - Further information required by SQ
DDA - 2nd Sub	0	1	19-Ju l- 21		15-Nov-21	1 ♦ DŪA-2rd \$ub;
DDA - 2nd Review by SO	35	20-Ju l -21	28-Aug-21	16-Nov-21	28-Dec-21	1 DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		28-Aug-21		28-Dec-21	1 ♦ DDA-SO Conjsent fộr Con
AIP - Tunnel (Sub-sea & CKL Tunnel) - Spaceproofing (SG §	0	27-Jan-21	-	20-Mar-21 A	06-Nov-21	
AIP - Further information required by SO	0	1				
AIP - 3rd Sub	0	1		+	03-Aug-21 A	
AIP - 3rd Review by SO	0	·		04-Aug-21 A	09-Sep-21 A	A A A A A A A A A A A A A A A A A A A
AIP - Further information required by SO	0		+	10-Sep-21 A		
AIP - 4th Sub	0	/	1	+	09-Oct-21	
AIP - 4th Review by SO	0	!	+	10-Oct-21	06-Nov-21	
AIP - SO Consent for Construction	0	[]	27-Jan-21	+	06-Nov-21	
FER - Fire Engineering Report (SG Scheme)	112	28-Jan-21	18-Jun-21	30-Mar-21 A		
FER - Review by IP / DC	28	28-Jan-21	24-Feb-21			A FR-Review by IP /DC
FER - Further information required by SO	48	04-Mar-21	04-May-21	30-Apr-21 A	-	
FER-2nd Sub	0		04-May-21		03-Aug-21 A	
FER - 2nd Review by SO	45	05-May-21	· · ·			
FER - Further information required by SO	45	00-widy-2 i	10-001-21	04-Aug-21 A 01-Sep-21 A	-	
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FER - 3rd Review by SO	0	·'	40. Jun 01	10-Oct-21	23-Nov-21	
FER - SO Consent for Construction	0		18-Jun-21		23-Nov-21	
DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (120			27-Jan-21 A	23-Nov-21	
DDA - Review by IP / DC	28	28-Jan-21	24-Feb-21	27-Jan-21 A	12-Jul-21 A	
DDA - Further information required by SO	0	·'	¹	23-Feb-21 A		
DDA - 2nd Sub	0	·'	¹		12-Jul-21 A	
DDA - 2nd Review by SO	0	·····			23-Aug-21 A	
DDA - Further information required by SO	36	29-Mar-21		24-Aug-21 A		
DDA - 3rd Sub	0	('	14-May-21		09-Oct-21	
DDA - 3rd Review by SO	45	15-May-21	28-Jun-21	10-Oct-21	13-Nov-21	
DDA - SO Consent for Construction	0	·	28-Jun-21	<u> </u>	23-Nov-21	
CROSS PASSAGE	342		26-Nov-21	17-Feb-21 A	07-Mar-22	
DDA - Cross Passage - CP Tympanum	77	18-Jun-21	16-Sep-21		•	
DDA - Review by IP / DC	28	18-Jun-21	15-Jul-21	20-Mar-21 A		
DDA - Further information required by SO	24	16-Jul-21	12-Aug-21	21-Apr-21 A		
DDA - 2nd Sub	0	·'	12-Aug-21	I	28-Jul-21 A	
DDA - 2nd Review by SO	35	13-Aug-21	16-Sep-21	29-Jul-21 A	-	
DDA - SO Consent for Construction	0	·'	16-Sep-21		30-Aug-21 A	
DDA - Cross Passage - CP TBM Jacking Pipes	102		21-Jun-21	17-Feb-21 A		
DDA - Draft - Final Review and prepare for 1st Sub	24	11-Feb-21	13-Mar-21	17-Feb-21 A	04-May-21 A	A lew and prepare for 1st Sub
Page 9 of 27 ♦ ♦ Milestone V		Summary	Τ			Date Revision Checked Approved
Page 9 of 27 Data Date: 02-Oct-21	- • -	Allfinery		2018/0	14 Tru	unk Road T2 and Infrastructure Works
Critical A divity						
Actual Miestone				†⁄	or De	evelopments at South Apron
Salar Miestone						
Baseline Bar				Three	∍ Mont'	nths Rolling Programme (Sep-21)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2021						2022
							27	July 04 11 18 2	5 01	August 08 15	22 3		eptember	October 26 03 10 17 24	November 31 07 14 21		cember 12 19	26 02	January 09 16 23 0
DDA - 1st Sub	0		13-Mar-21		04-May-21 A	00 00 10 20		04 11 10 2		00 10			12 10 1			20 00	12 10	20 02	00 10 20 5
DDA - Review by SO	28	14-Mar-21	10-Apr-21	05-May-21 A	31-May-21 A	DDA - Review by SO	2												
DDA - Review by IP / DC	28	14-Mar-21	10-Apr-21	05-May-21 A	07-Sep-21 A							DI	DA Review by	IP DC					
DDA - Further information required by SO	30	12-Apr-21	17-May-21	01-Jun-21 A	07-Sep-21 A	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · ·	·;;		Di	DA - Further inf	ormation required by SO					
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DDA - 2nd Review by SO	35	18-May-21	21-Jun-21	08-Sep-21 A	12-Oct-21									DDA 2nd Re	ewiew by SO				
DDA - SO Consent for Construction	0		21-Jun-21		12-Oct-21	♦								♦ DDA - SO Co	nsent for Construction				
DDA - Cross Passage - CP TBM Confinement	143	15-Mar-21	06-Sep-21	05-May-21 A	18-Dec-21							🔽 DØ	A Cross Pass	age CP TBM Confinement	++++				
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DDA - SO Consent for Construction	0		26-Nov-21		18-Dec-21										¢		🔶 DDA	- SO Conseint	for Construction
DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp	141	03-Oct-20	24-Mar-21	01-Sep-21 A	10-Feb-22	upport for Excavation													
DDA - Draft - Preparation by Designer	42	03-Oct-20	21-Nov-20	01-Sep-21 A	09-Oct-21									DDA Draft Pr	eparation by Designer				
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DDA - 2nd Review by SO	35	18-Feb-21	24-Mar-21	07-Jan-22	10-Feb-22	1								1					·iiiiii
DDA - Cross Passage - Traditional - Lining Structure	82	21-Dec-20	03-Apr-21	09-Nov-21	17-Feb-22														
DDA - Draft - Preparation by Designer	36	21-Dec-20	03-Feb-21	09-Nov-21	20-Dec-21												DØ.	A - Draft - Pre	paration by Design
DDA - Draft - Final Review and prepare for 1st Sub	24	04-Feb-21	06-Mar-21	21-Dec-21	20-Jan-22														DDA [
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DDA - Cross Passage - Internal Structure	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	ructure													
DDA - Draft - Preparation by Designer	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22														
DDA - Cross Passage - Traditional - DCRA	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	I - DCRA													
Page 10 of 27 Data Date: 02-Oct-21	•••	Summary	ED/2	f	or Dev	nk Road ⁻ velopmer hs Rolling	nts a	t South	Apro	on		rks		BOUYGUES TRAVAUX PUBLICS	Date 18-Dec-19 22-Feb-20 09-Apr-20 17-Jul-20 09-Oct-20 02-Jul-21	Revision 00V1 01V0 01V1 01V2 01V3 02V0	WYu SPa SPa SPa SPa	VLLO VLLO VLLO VLLO	Approved WYu WYu WYu WYu WYu WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
		i i otari				June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23
DDA - Draft - Preparation by Designer	36	08-Mar-21	22-Apr-21	21-Jan-22	07-Mar-22	
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	144	09-Oct-20	08-Apr-21	29-Mar-21 A	26-Aug-21 A	A NNEL [D&BL]
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	0	09-Oct-20	09-Oct-20	21-Apr-21 A	26-Aug-21 A	
DDA - 6th Review by SO	0			21-Apr-21 A	26-Aug-21 A	A DØA-f6th Réview by SO F
DDA - SO Consent for Construction	0		09-Oct-20		26-Aug-21 A	A DDA - SO Consent for Construction
DAmS - D&BR / D&BL Tunnel - Temp Support (SG) for Exca	0	08-Mar-21	08-Mar-21	29-Mar-21 A	18-May-21 A	A pme)
DAmS - 3rd Review by SO	0			29-Mar-21 A	18-May-21 A	A d Review by SO
DAmS - SO Consent for Construction	0		08-Mar-21		18-May-21 A	A O Consent for Construction
DDA - D&BR / D&BL Tunnel - Service Gallery (SG Scheme)	0	08-Apr-21	08-Apr-21	21-Apr-21 A	15-Jul-21 A	A SG Scheme)
DDA - Further information required by SO	0			21-Apr-21 A	27-May-21 A	A DA +Further information required by SO
DDA - 3rd Sub	0				27-May-21 A	A PA -3 and Sub
DDA - 3rd Review by SO	0			28-May-21 A	15-Jul-21 A	A DDA -3rd Review by SO
DDA - SO Consent for Construction	0		08-Apr-21		15-Ju l- 21 A	A DDA - SO Consent for Construction
EAST VENTILATION BUILDING [EVB]	403	03-Oct-20	12-Feb-22	08-Apr-21 A	17-Feb-22	
DDA - EVB - ABWF	111	03-Oct-20	17-Feb-21	04-Oct-21	17-Feb-22	
DDA - Draft - Preparation by Designer	36	03-Oct-20	14-Nov-20	04-Oct-21	15-Nov-21	
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DDA - Review by SO	28	13-Dec-20	09-Jan-21	14-Dec-21	10-Jan-22	
DDA - Review by IP / DC	28	13-Dec-20	09 Jan 21	14-Dec-21	10-Jan-22	2 DDA - Review
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	11-Jan-22	17-Feb-22	
DDA - EVB - Aesthetic Design	172	03-Oct-20	05-May-21	28-Jun-21 A	17-Feb-22	2 Design
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	28-Jun-21 A	21-Aug-21 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	30 - Nov-20	29-Dec-20	23-Aug-21 A	18-Oct-21	DDA - Draft - Final Réview and prepare for 1st Sub
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DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	19-Oct-21	15-Nov-21	
DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	16-Nov-21	13-Dec-21	1 DDA - Further information repuired by SC
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DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	14-Dec-21	17-Jan-22	
DDA - 2nd Review by IP	35	27-Feb-21	02-Apr-21	14-Dec-21	17-Jan-22	2 DDA-2r
DDA - Further information required by SO	24	07-Apr-21	05-May-21	18-Jan-22	17-Feb-22	
AIP Foot Bridge FT-03 [NEW]	91	09-Oct-21	27 Jan 22	09-Oct-21	27-Jan-22	
AIP - Draft - Preparation by Designer	24	09-Oct-21	06-Nov-21	09-Oct-21*	06-Nov-21	1 AIP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12	08-Nov-21	20-Nov-21	08-Nov-21	20-Nov-21	1 AIP - Draft- Final Review and prepare for 1st Sub
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AIP - Review by SO	28	21-Nov-21	18-Dec-21	21-Nov-21	18-Dec-21	1 AP- Review by SO
AIP - Review by IP / DC	28	21-Nov-21	18-Dec-21	21-Nov-21	18-Dec-21	1 AP-Review by IP/DC
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AIP - Further information required by SO	0		30-Dec-21		30-Dec-21	1 AIP - Further information
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AIP - SO Consent for DDA Submission	0		27-Jan-22		27-Jan-22	
DDA Foot Bridge FT-03 [NEW]	66	22-Nov-21	12-Feb-22	22-Nov-21	12-Feb-22	
DDA - Draft - Preparation by Designer	42	22-Nov-21	12-Jan-22	22-Nov-21	12-Jan-22	2 DA-Draft-
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-22	12-Feb-22	13-Jan-22	12-Feb-22	
AIP EVB - Permanent Structure (SG Scheme)	0	31-Mar-21	31-Mar-21	17-Apr-21 A	09-Oct-21	
Page 11 of 27 Data Date: 02-Oct-21	· · · · · · · · · · · · · · · · ·	Summary	ED/2	f	or Dev	unk Road T2 and Infrastructure Works evelopments at South Apron hths Rolling Programme (Sep-21)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 80 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 2
AIP - 6th Review by SO	0			17-Apr-21 A	28-May-21 A	v P -6th Review by SO
AIP - Further information required by SO	0			29-May-21 A	28-Jun-21 A	AIP - Further information required by SO
AIP - 7th Review by SO	0			28-Jun-21 A	09-Oct-21	AIP - 7th Review by SO
AIP - 7th Sub	0				28-Jun-21 A	♦ AIP - 7thSub
AIP - SO Consent for DDA Submission	0		31-Mar-21		09-Oct-21	♦ AP - SO Gonsentfor DDA Submission
DDA - EVB - General Building Plan (including SoA) (SG Sch	74	03-Jan-21	07-Apr-21	08-Apr-21 A	27-Oct-21	pA) (SG Scheme);
DDA - Review by SO	28	03-Jan-21	30-Jan-21	08-Apr-21 A	04-May-21 A	
DDA - Review by IP / DC	28	03-Jan-21	30-Jan-21	08-Apr-21 A	24-Aug-21 A	DDA - Review/by IP / DC
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DDA - SO Consent for Construction	0		07-Apr-21		27-Oct-21	DDA - SO Consent for Construction
DDA - EVB - Permanent Structure (SG Scheme)	116	22-May-21	08-Oct-21	22-Apr-21 A	26-Nov-21	DDA - EVB - Permianent Structure (SG Scheme)
DDA - Draft - Final Review and prepare for 1st Sub	18	22-May-21	11-Jun-21	22-Apr-21 A	04-May-21 A	DDA - Draft - Final Review and prepate for 1st Sub
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DDA - Further information required by SO	48	10-Jul-21	03-Sep-21	29-Jun-21 A	22-Oct-21	DDA: Further information required by SO
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DDA - SO Consent for Construction	0	04-06p-21	08-Oct-21	20-001-21	26-Nov-21	♦ DDA- SO Consent for Construction
TUNNEL E&M INSTALLATION & COMMISSIONING	293	17-Oct-20	13-Oct-21	23-Dec-20 A	19-Feb-22	▼ TUNNEL E&MINSTALLATION & COMMISSIONING
DDA - E&M Tunnel Ventilation Design (SG Scheme)	163	29-Oct-20	20-May-21	23-Dec-20 A 30-Mar-21 A	20-Nov-21	8M Tunne] Ventilation Design (SG Scheme)
DDA - Draft - Preparation by Designer	48	29-Oct-20	23-Dec-20	30-Mar-21 A		v ration by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	23-001-20 24-Dec-20	23-Jan-21	08-May-21 A	-	
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DDA - SO Consent for Construction	0		20-May-21		20-Nov-21	◆ DDĂ - \$O Conseint for Çonstruction
DDA - E&M Air Purification System (WVB)	91	10-Jan-21	05-May-21	15-Mar-21 A	20-Nov-21	ation System (WVB)
DDA - Review by SO	28	10-Jan-21	06-Feb-21	15-Mar-21 A	11-May-21 A	
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DDA - SO Consent for Construction	0		05-May-21		20-Nov-21	◆ DDA - \$O Consent for Construction
DDA - E&M Fire Services Installation	133		11-Jun-21	30-Mar-21 A	01-Dec-21	V DDA E&M/Fire Services Installation
DDA - Draft - Preparation by Designer	30	28-Dec-20	01-Feb-21		31-May-21 A	
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Page 12 of 27 Data Date: 02-Oct-21		Summary	ED/2	f	or Dev	nk Road T2 and Infrastructure Works velopments at South Apron ths Rolling Programme (Sep-21)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021		2022
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DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	28-Oct-21	01-Dec-21		DDA - 2nd Rev	view by SO
DDA - SO Consent for Construction	0		11-Jun-21		01-Dec-21		DDA - SO Cor	nsent for Construction
DDA-E&M MVAC	133	17-Dec-20	03-Jun-21	09-Apr-21 A	20-Nov-21	▼ IDDA -E&M MVAC	····	
DDA - Draft - Preparation by Designer	32	17-Dec-20	26-Jan-21	•	22-May-21 A	Draft - Preparation by Designer		
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A	DDA - Draft - Final Review and prepare for 1st Sub		
DDA - Review by SO	28	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A	DDA - Review by SO	•••••	
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DDA - Further information required by SO	32	19-Mar-21	29-Apr-21	30-Jun-21 A	16-Oct-21	DDA - Further information required	by SO	
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DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	17-Oct-21	20-Nov-21		A - 2nd Review by SC	o
DDA - SO Consent for Construction	0		03-Jun-21		20-Nov-21		A SOC on seint for C	
DDA - E&M Plumbing & Drainage System	122	22-Dec-20	26-May-21	19-Feb-21 A	17-Nov-21	A - E&M Plumbing & Drainage System		
DDA - Draft - Preparation by Designer	24	22-Dec-20	21 Jan-21	19-Feb-21 A	03-Jun-21 A	DDA - Draft - Preparation by Designer	••••	
DDA - Draft - Final Review and prepare for 1st Sub	17	22-Jan-21	10-Feb-21		25-Jun-21 A	DDA- Draft - Final Review and prepare for 1st Sub		
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DDA - Fireview by IP / DC DDA - Further information required by SO	32	11-Peb-21 11-Mar-21	21-Apr-21	25-Jul-21 A	13-Oct-21	DAF Reversion and DAF	an	
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DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	14-Oct-21	17-Nov-21		2nd Review by SO	
DDA - SO Consent for Construction	0	17 0 1 00	26-May-21		17-Nov-21		SO Cansent for Con	istruction
AIP - E&M Electrical Installation	62	17-Oct-20	02-Jan-21		23-Jun-21 A			
AIP - Review by IP / DC	28	17-Oct-20	13-Nov-20		•	eview by IP / DC		
AIP - Update & prepare for 2nd Sub	18	14-Nov-20	04-Dec-20			pdate & prepare for 2nd/Sub		
AIP - 2nd Review by SO	28	05-Dec-20	01-Jan-21	21-May-21 A		AIP - 2hd Review by SO		
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AIP - SO Consent for DDA Submission	0		02-Jan-21		23-Jun-21 A	AIP SO Corisent for DDA Submission		
DDA - E&M Electrical Instal lation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	11-Dec-21	DDA - E&M Electrical Installation		
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Ju l- 21 A	DDA - Draft - Preparation by Designer		
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Ju l- 21 A	15-Ju l- 21 A	DDA -Draft - Final Review and prepare for 1st Sub		
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DDA - Further information required by SO	33	25-Mar-21	07 - May-21	25-Aug-21 A	06-Nov-21	DDA - Further i	formation required by	ySO
DDA - 2nd Sub	0		07 - May-21		06-Nov-21	◆ DDA - 2nd ;Sub		
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	07 - Nov-21	11-Dec-21		DDA	- 2nd Review by SO
DDA - SO Consent for Construction	0		11-Jun-21		11-Dec-21		DDA	- SO Consent for Construction
AIP CLP Submission - Power Supply to EVB & WVB	71	01-Nov-20	26-Jan-21	15-Jan-21 A	23-Jun-21 A			
AIP - Review by IP / DC	28	01-Nov-20	28-Nov-20	15-Jan-21 A	21-May-21 A	eview by IP / DC		
AIP - Update & prepare for 2nd Sub	24	30-Nov-20	29-Dec-20	09-Feb-21 A	21-May-21 A	pdrafe & prepare for 2nd Sub		
AIP - 2nd Sub	0		29-Dec-20		21-May-21 A	hd Sub		
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	22-May-21 A	23-Jun-21 A	AIP 2nd Review by SO		
AIP - SO Consent for DDA Submission	0		26-Jan-21		23-Jun-21 A	AIP SO Conjsent for DDA Submission		
DDA CLP Submission - Power Supply to EVB & WVB	158	27-Jan-21	11-Aug-21	24-Jun-21 A	11-Dec-21	▼ DDA CLP Submission - Power Supply to EVB & WVB		
			-				Revision	Checked Approved
Page 13 of 27 Pate Date: 00 Oct 24 Planned Bar		Summary		040/0	4 T.		00V1	WYu
Data Date: 02-Oct-21						IK ROAD IZ AND INITASTRUCTURE WORKS	01V0	SPa/LLo WYu
Actual Miestone				f	or Dev	velopments at South Apron BOUYGUES TRAVAUX PUBLICS 17. luk 20	01V1	SPa/LLo WYu
Actual Work Actua				•	•	17 00120	01V2	SPa/LLo WYu
Baseine Bar				Three	Mont	hs Rolling Programme (Sep-21)	01V3	SPa/LLo WYu
<u> </u>							02V0	SPa/LLo WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 10
DDA - Draft - Preparation by Designer	48	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Ju l- 21 A	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Ju l- 21 A	DDA - Draft Final Review and prepare for 1st Sub
DDA - 1st Sub	0		28-Apr-21		15-Ju l- 21 A	◆ DDA -1stSub
DDA - Review by SO	28	29-Apr-21	26-May-21	16-Jul-21 A	24-Aug-21 A	DDA - Review.by SO
DDA - Review by IP / DC	28	29-Apr-21	26-May-21	16-Jul-21 A	08-Oct-21	DDA Reviéw by IP / DC
DDA - Further information required by SO	34	27-May-21	07-Jul-21	25-Aug-21 A	06-Nov-21	DDA - Further information required by SO
DDA - 2nd Sub	0		07-Ju l- 21		06-Nov-21	♦ DDA-2nd Sub
DDA - 2nd Review by SO	35	08-Jul-21	11-Aug-21	07-Nov-21	11-Dec-21	DDA- 2nd Review by SD
DDA - SO Consent for Construction	0		11-Aug-21		11-Dec-21	♦ DDA - SO Consent for Construction
AIP - E&M Tunnel Lighting Design	91	03-Dec-20	25-Mar-21	23-Dec-20 A	09-Jun-21 A	
AIP - Review by IP / DC	28	03-Dec-20	30-Dec-20	23-Dec-20 A	03-May-21 A	
AIP - Update & prepare for 2nd Sub	45	31-Dec-20	25-Feb-21	13-Jan-21 A	03-May-21 A	A for 2nd Sub
AIP - 2nd Review by SO	28	26-Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A	AP - 2hd Review by SO
AIP - 2nd Sub	0		25-Feb-21		03-May-21 A	
AIP - SO Consent for DDA Submission	0		25-Mar-21		09-Jun-21 A	AP - SD Consent for DDA; Submission
DDA - E&M Tunnel Lighting Design	131	26-Mar-21	03-Sep-21	10-Jun-21 A	19-Feb-22	v DDA-E&M TunnéILighting Design
DDA - Draft - Preparation by Designer	22	26-Mar-21	24 Apr-21	10-Jun-21 A	09-Oct-21	DDA' - Draft - Preparatión by Designér
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	11-Oct-21	25-Oct-21	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		10-May-21		25-Oct-21	i∳ DDA - 1st Sub
DDA - Review by SO	28	11-May-21	07-Jun-21	26-Oct-21	22-Nov-21	DĎA Review by SO
DDA - Review by IP / DC	28	11 May-21	07-Jun-21	26-Oct-21	22-Nov-21	DDA - Review by IP / DC
DDA - Further information required by SO	44	08 Jun 21	30-Ju l- 21	23-Nov-21	15-Jan-22	
DDA - 2nd Sub	0		30-Jul-21		15-Jan-22	◆ DDA-2 and S
DDA - 2nd Review by SO	35	31-Jul-21	03-Sep-21	16-Jan-22	19-Feb-22	
AIP - E&M CMCS	78	17-Feb-21	25-May-21	26-Apr-21 A	22-Jul-21 A	- E&M CMCS
AIP - Review by SO	28	17-Feb-21	16-Mar-21		28-May-21 A	
AIP - Update & prepare for 2nd Sub	32	17-Mar-21	27-Apr-21		28-Jun-21 A	AIP - Update & prepare for 2hd Sub
AIP - Review by IP / DC	28	17-Feb-21	16-Mar-21		28-Jun-21 A	
AIP - 2nd Review by SO	28	28-Apr-21	25-May-21	28-Jun-21 A	22-Jul-21 A	
AIP - 2nd Sub	0	== 7 (p) = 1	27-Apr-21		28-Jun-21 A	◆ AIP - 2nd Sub
AIP - SO Consent for DDA Submission	0		25-May-21		22-Jul-21 A	♦ AP - SO Consent for DDA Submission
DDA-E&M CMCS	117	26-May-21	13-Oct-21	23-Jul-21 A	11-Feb-22	▼ DDA - E&M CMCS
DDA - Draft - Preparation by Designer	22	26-May-21	21-Jun-21	23-Jul-21 A	18-Oct-21	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Jun-21	06-Jul-21	19-Oct-21	01-Nov-21	DDA - Draft - Frihal Review and prepare for 1st Sub
DDA - 1st Sub	0		06-Jul-21		01-Nov-21	◆ DDA - 1st Sub
DDA - Review by SO	28	07-Jul-21	03-Aug-21	02-Nov-21	29-Nov-21	DDA - Réview by SO
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	02-Nov-21	07-Dec-21	DDA-Reviewby P/DC
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	02-110V-21 08-Dec-21	07-Jan-22	DDA + Further inform
DDA - 2nd Sub	0	12 / Wy-2 I	08-Sep-21	00 000-21	07-Jan-22	DDA 2nd \$ub
DDA - 2nd Review by SO	35	09-Sep-21	13-Oct-21	08-Jan-22	11-Feb-22	
SOUTH APRON EXTERNAL WORKS	536	22-Dec-20	17-Oct-21	23-Dec-20 A	18-Jan-23	
Road S20	235	05-Jan-21	21-Oct-22	23-Dec-20 A 27-Jan-21 A	03-Mar-22	Road S20
CUE	168	05-Jan-21	31-Jul-21	27-Jan-21 A	17-Dec-21	
Entrance	84	21-Apr-21	31-Jul-21	24-Jun-21 A	09-Dec-21	Entrance
Entrance - ELS (Sheet pile)	18	21-Apr-21	12-May-21	24-Jun-21 A	11-Sep-21 A	A ElS(§heet pile)
Entrance - Excavation	18	13-May-21	03-Jun-21	13-Sep-21 A	13-Oct-21	Entrançe - Excavation
Page 14 of 27		Summary		2040/0	4 T	Date Revision Checked Approved 18-Dec-19 00V1 WYu
Data Date: 02-Oct-21			ED/2			NK ROAD 12 AND INITASTRUCTURE WORKS
Actual Miestone				fe	or De	velopments at South Apron BOUYGUES 09-Apr-20 01V1 SPa/LLo WYu
Actual Work						
Baseline Bar				Three	Mont	ths Rolling Programme (Sep-21)
			1			

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021				2022
						June July 30 06 13 20 27 04 11	August 18 25 01 08 15 22 29	Septembe 9 05 12		October November 03 10 17 24 31 07 14 21		ecember January 12 19 26 02 09 16 23 0
Entrance - Structure	36	04-Jun-21	17-Jul-21	15-Oct-21	25-Nov-21						ntrance - Str	
Entrance- Backfil	12	19 Jul-21	31-Jul-21	26-Nov-21	09-Dec-21						E	Entrance- Backfil
Junction	108	19-Mar-21	31-Ju l- 21	27-Feb-21 A	17-Dec-21		Junction				1	
Junction - ELS (Sheet pile)	24	19-Mar-21	20-Apr-21	27-Feb-21 A	21-Ju l- 21 A		Junction EL\$ (Sheet pile)					
Junction - Excavation	24	21-Apr-21	20-May-21	26-Jul-21 A	07-Oct-21				·····	Junction - Excavation		
Junction - Structure	48	21-May-21	17-Jul-21	08-Oct-21	03-Dec-21							on - Structure
Junction - Backfil	12	19-Ju l- 21	31-Jul-21	04-Dec-21	17-Dec-21							Junction - Backfill
Typical	75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A							
Typical Section - Structure	75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A	Typical Section - Structure						
Road & Drain	200	18-Feb-21	21-Oct-21	24-May-21 A	03-Mar-22					V Road & Drain		
Stage 2	49	18-Feb-21	20-Apr-21	24-May-21 A	07-Aug-21 A							
S20 Stage 2 (Watermain)	5	18-Feb-21	23-Feb-21	24-May-21 A	17-Jul-21 A		S20 Stage 2 (Watermain)					
S20 Stage 2 (U channel, Catchpit, Gully)	22	24-Feb-21	20-Mar-21	19-Ju l- 21 A	24-Jul-21 A		S20 Stage: 2 (U channel, Catchpit,	, Gully)				
S20 Stage 2 (Roadworks)	22	22-Mar-21	20-Apr-21	26-Ju l- 21 A	07-Aug-21 A		S20 Stage 2 (Roadw					
Stage 3	151	21-Apr-21	21-Oct-21	09-Aug-21 A	03-Mar-22			· · · · · · · · · · · · · · · · · · ·		▼ Stage 3		
S20 Stage 3 ELS	35	21-Apr-21	02-Jun-21	09-Aug-21 A	18-Oct-21					S20 Stage 3 ELS		
S20 Stage 3 (Sewerage)	32	15-May-21	23-Jun-21	23-Aug-21 A	01-Nov-21			+		S20 Stage 3 (Sewerage		
S20 Stage 3 (Drainage)	36	05-Jun-21	19-Ju l- 21	15-Oct-21	25-Nov-21		•				20 Stage 3 (I	(Drainage)
S20 Stage 3 (Watermain)	4	20-Ju l -21	23-Jul-21	26-Nov-21	30-Nov-21						S20 Stag	je 3 (Watermain)
S20 Stage 3 (UU Diversion)	12	24-Ju l -21	06-Aug-21	01-Dec-21	14-Dec-21							S20 Stage 3 (UU Diversion)
S20 Stage 3 (U channel, Catchpit, Gully)	22	07-Aug-21	01-Sep-21	15-Dec-21	12-Jan-22							\$20 Stage 3 (L
S20 Stage 3 (Roadworks)	22	02-Sep-21	28-Sep-21	13-Jan-22	10-Feb-22				 †⊡			
Utilities undertaker (by others)	36	07-Sep-21	21-Oct-21	18-Jan-22	03-Mar-22				····			
AMAWBC	59	16-Aug-21	26-Oct-21	19-Oct-21	09-Feb-22			·		AMAWBC		
Drainage & Sewerage	55	20-Aug-21	26-Oct-21	01-Dec-21	09-Feb-22		▼			▼ Drainage & Sewerage		
Section B	40	20-Aug-21	07-Oct-21	01-Dec-21	19-Jan-22		▼			▼ Section B		
Section B - ELS & Excavation	18	20-Aug-21	09-Sep-21	01-Dec-21	21-Dec-21							Section B - ELS & Excavation
Section B - Drainage	11	10-Sep-21	23-Sep-21	22-Dec-21	06-Jan-22				-			Section B - Drainage
Section B - Sewerage	11	24-Sep-21	07-Oct-21	07-Jan-22	19-Jan-22					-		Section
Section D	15	08-Oct-21	26-Oct-21	20-Jan-22	09-Feb-22					▼ Section D		
Section D - ELS & Excavation	15	08-Oct-21	26-Oct-21	20-Jan-22	09-Feb-22							
Outfall 1	44	16-Aug-21	07-Oct-21	19-Oct-21	08-Dec-21		V			▼ Outfall 1		
Outfal 1 Excavation & Blinding	18	16-Aug-21	04-Sep-21	19-Oct-21	08-Nov-21			=		Outfall 1 Excavat	4	·····
Outfal 1 Precast Installation & Alignment	18	06-Sep-21	27-Sep-21	09-Nov-21	29-Nov-21							Precast Installation & Alighment
Outfal 1 Backfilling & reinstatement	8	28-Sep-21	07-Oct-21	30-Nov-21	08-Dec-21					■	φ.	utfall 1 Backfilling & reinstatement
[STE] District Cooling System for AMAWBC Section 6B	218	22-Dec-20	17-Sep-21	22-Mar-21 A	10-Feb-22			 V	[STE] District C	Cooling System for AMAWBC Section 6B		
Section 1 - Bay 1	41	20-Feb-21	13-Apr-21	22-Mar-21 A	18-Oct-21							
DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)	12	20-Feb-21	05-Mar-21	22-Mar-21 A	09-Aug-21 A		DCS Bay 1 Pipe					
DCS - Bay 1 Pipe Installation - Pipe welding	11	06-Mar-21	18-Mar-21	26-Ju l- 21 A	18-Aug-21 A			/1 Pipe Installation			<u> </u>	
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	19-Aug-21 A	09-Oct-21					DCS - Bay 1 Pipe Installation - Jointing (12nd	(\$)	
DCS - Bay 1 Backfill	6	07-Apr-21	13-Apr-21	11-Oct-21	18-Oct-21					DCS - Bay 1 Backfill		
Section 1 - Bay 2	78	13-May-21	14-Aug-21	19-Apr-21 A			▼ Section 1 - Bay	y 2				
DCS - Bay 2 Excavation (1510m3)	26	13-May-21	12-Jun-21	19-Apr-21 A	19-May-21 A	DCS - Bay 2 Excavation (1510)						
DCS - Bay 2 Pipe Installation - Set up (DN900 60m)	14	15-Jun-21	30-Jun-21		17-Ju l- 21 A		DCS - Bay 2 Pipe Installation + Set up (D					
DCS - Bay 2 Pipe Instal ation - Pipe welding	13	02-Ju l -21	16-Ju l -21	19-Ju l- 21 A	24-Jul-21 A		DCS - Bay 2 Pipe Installation - Pip					
DCS - Bay 2 Pipe Instal ation - Jointing (27nos)	18	17-Jul-21	06-Aug-21	19-Ju l- 21 A	31-Jul-21 A		DCS - Bay 2 Pipe Inst	tallation Jointing	(27nos)			

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Data Date: 02-Oct-21

Critical A divity

Actual Milestone
Actual Work

 \diamond

Mestone

Planned Bar

Baseline Milestone
 Baseline Bar

Summary

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

Three Months Rolling Programme (Sep-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June July August September October November December January 10 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 14 16 10 16 10 16 10 16
DCS - Bay 2 Backfill	7	07-Aug-21	14-Aug-21	10-Aug-21 A	30-Aug-21 A	
Section 1 - Bay 3	93	13-May-21	01-Sep-21	26-Jul-21 A	22-Dec-21	V \$ection 1 Báy 3
DCS - Bay 3 Sheet pile (1870m2)	34	13-May-21	23-Jun-21	26-Jul-21 A	13-Oct-21	DCS - Bay3 \$heet pile (1870m2)
DCS - Bay 3 Excavation (2620m3)	18	24-Jun-21	15-Ju l- 21	15-Oct-21	04-Nov-21	DCS - Bay 3/Excavation (2620m3)
DCS - Bay 3 Pipe Instal ation - Set up (DN900 30m)	12	16-Jul-21	29-Ju l- 21	05-Nov-21	18-Nov-21	DCS-IBay 3 Pipe Installation - Set up (DN9:00 30m)
DCS - Bay 3 Pipe Installation - Pipe welding	9	30-Jul-21	09-Aug-21	19-Nov-21	29-Nov-21	DÇS - Bay 3 Pipe Installation - Pipe welding
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	30-Nov-21	10-Dec-21	CCS - Bay 3 Pipe Installation - Jointing
DCS - Bay 3 Backfill	10	21-Aug-21	01-Sep-21	11-Dec-21	22-Dec-21	DCS-Bay 3 Backfill
Section 2 - Bay 4	88	04-May-21	17-Aug-21	20-Apr-21 A	20-Nov-21	V Section 2 Bay 4
DCS - Bay 4 Sheet pile (990m2)	18	04-May-21	25-May-21	20-Apr-21 A		DCS - Bay/4 Sheet ple (990m2)
DCS - Bay 4 Excavation (1170m3)	12	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A	CS - Bay 4 Excavation (1170m)
DCS - Bay 4 Pipe Installation - Set up (DN600 66m)	14	09-Jun-21	25-Jun-21	06-Sep-21 A	11-Sep-21 A	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
DCS - Bay 4 Pipe Installation - Pipe welding	15	26-Jun-21	14-Jul-21	13-Sep-21 A	18-Oct-21	CCS - Bay 4 Pipe Installation - Pipe welding
DCS - Bay 4 Pipe Installation - Jointing (33nos)	17	15-Jul-21	03-Aug-21	19-Oct-21	06-Nov-21	DCC - Day 4 Pipe Installation - Jointing (33hos)
			•			
DCS - Bay 4 Backfill	12	04-Aug-21	17-Aug-21	08-Nov-21	20-Nov-21	CCS - Bay'4 Backfill
Section 2 - Bay 5	103	22-Dec-20	03-May-21	10-Apr-21 A	07-Dec-21	
DCS - Bay 5 Sheet pile (1510m2)	30	22-Dec-20	28-Jan-21	10-Apr-21 A	31-Jul-21 A	DCS - Bay5 Sheet pile (1\$10m2)
DCS - Bay 5 Excavation (1516m3)	18	29-Jan-21	22-Feb-21	16-Aug-21 A	· · ·	D¢S - Bày 5 Exicavation (15%6m3)
DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	14	23-Feb-21	10-Mar-21	04-Oct-21	20-Oct-21	DCS - Blay 5 Pipe Installation - Set up (DN600, 66m)
DCS - Bay 5 Pipe Installation - Pipe welding	14	11-Mar-21	26-Mar-21	21-Oct-21	05-Nov-21	DCS- Bay § Pipe Installation - Pipe welding
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	06-Nov-21	23-Nov-21	DCS - Elay 5 Pipe Installation - Jojnting (30nos)
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	24-Nov-21	07-Dec-21	DCS - Bay 5 Backfil
Section 2 - S20	100	21-Apr-21	19-Aug-21	09-Aug-21 A	30-Nov-21	Section 2-520
DCS - S20 section site clearance	28	21-Apr-21	25-May-21	09-Aug-21 A	18-Aug-21 A	PCS - 52D séction șile cleărance
DCS - S20 Sheet pile (912m2)	18	26-May-21	16-Jun-21	21-Aug-21 A	22-Sep-21 A	¢CS \$20 Sheet pile (912m2)
DCS - S20 Excavation (1026m3)	12	17-Jun-21	30-Jun-21	23-Sep-21 A	12-Oct-21	DCS - S20 Exception (1026m3)
DCS - S20 Pipe Installation - Set up (DN600 60m)	14	02-Ju l- 21	17-Ju l- 21	13-Oct-21	29-Oct-21	DCS-S20 Pipe Installation-Set up (DN600 60m)
DCS - S20 Pipe Installation - Pipe welding	13	19-Jul-21	02-Aug-21	30-Oct-21	13-Nov-21	DCS - S20(Pipe Installation - Pipe welding
DCS - S20 Pipe Installation - Jointing (27 nos)	14	04-Aug-21	19-Aug-21	15-Nov-21	30-Nov-21	DCS - \$20 Pipe Installation - Jointing (22nos)
Section 2 - CUE	53	19-Jul-21	17-Sep-21	04-Dec-21	10-Feb-22	V Section 2-CUE
DCS - CUE - Set up (DN600 90m)	14	19-Jul-21	03-Aug-21	04-Dec-21	20-Dec-21	DČS-QUE-Setup (DN600
DCS - CUE - Pipe welding	18	04-Aug-21	24-Aug-21	21-Dec-21	13-Jan-22	
DCS - CUE - Jointing (42nos)	21	25-Aug-21	17-Sep-21	14-Jan-22	10-Feb-22	
[STE] District Cooling System - Remaining Section 7B	16	19-Apr-21	07-May-21	18-May-21 A	07-Oct-21	System Remaining Section 7B
DCS Section 4	16	19-Apr-21	07-May-21	18-May-21 A	07-Oct-21	
DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)	6	19-Apr-21	24-Apr-21	18-May-21 A		DCS-DPR Pipe Installation - Delivery & set up (DN 800;12m)
DCS - DPR Pipe Installation - Pipe welding (6nos)	6	26-Apr-21	03-May-21	21-Jun-21 A		DÇS - DPR Pipe Installation - Pipe welding (6nois)
DCS - DPR Pipe Installation - Jointing (6nos)	4	04-May-21	07-May-21	31-Aug-21 A	07-Oct-21	DCS - DPR Pipe Installation - Jointing (6nos)
Outfall 2 & Branch Drainage	72	03-Jan-22	30-Mar-22	03-Jan-22	30-Mar-22	
Coordinated Access to Portion H1 (NAH Site B)	0	03-Jan-22		03-Jan-22*		⊷ Coordinated Acc
Branch Drainage within Portion H1	72	03-Jan-22	30-Mar-22	03-Jan-22	30-Mar-22	
Foot Bridge FB-02	175		29-Nov-21	26-Mar-21 A	10-Mar-22	
DSD KBSIS - Interface	117	11-May-21	28-Sep-21	12-May-21 A		SDE KBSIS- Interface
Existing Footbridge Disable Ramp - Demolition	24	11-May-21	08-Jun-21	12-May-21 A		Existing/Footbridge Disable Rampi - Demolition
FB-02 H-pile - P1/P2/P3	51	24-Jun-21	23-Aug-21	04-Oct-21	02-Dec-21	
FB-02 H-pile - LC&D	30	24-Aug-21	28-Sep-21	03-Dec-21	10-Jan-22	
		217.0921	20 00p 21	00 000 21	10 Juli 22	
Page 16 of 27		Summary				Date Revision Checked Approv
Data Date: 02-Oct-21	•	-		2018/0)/ True	k Road T2 and Infrastructure Works
CriticalActivity						22-Feb-20 0100 SPa/LLO WTU
Actual Milestone				f	or Dev	elopments at South Apron
Saseline Milestone						
Bacalina Bar			1	Three		De Delling Programme (Son 21)

Three Months Rolling Programme (Sep-21)

🗖 Baseline Bar

01V3 02V0 WYu SPa/LLo SPa/LLo WYu

09-Oct-20 02-Jul-21

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	2022
						June Judy August September October November December 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02	January 09 16 23 0
Road L10/ DPR	175	03-May-21	29-Nov-21	26-Mar-21 A	10-Mar-22		
FB-02 H-pile (1 rig) - P4/P5/D	72	03-May-21	28-Jul-21	26-Mar-21 A	21-Oct-21	FB-02 H-pile (1 rig) - P4/P5/D	
FB-02 H-pile (1 rig) - LA&B	55	29-Ju l -21	02-Oct-21	22-Oct-21	24-Dec-21		le (1 rig) - LA&B
FB-02 - Road L10 - H-pile Installation	48	06-Aug-21	02-Oct-21	30-Oct-21	24-Dec-21		ad L10 - H-pile Install
FB-02 Pile load test No.1 & 2	48	04-Oct-21	29-Nov-21	11-Jan-22	10-Mar-22		
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	493	17-Feb-21	17-Oct-22	10-Mar-21 A	18-Jan-23		
EMSD Temporary Replacement of Traffic Signal	71	11-Mar-21	08-Jun-21	10-Mar-21 A	08-Jun-21 A	A V Report Report of Traffic Signal	
EMSD Site Inspection	40	11-Mar-21	30-Apr-21	10-Mar-21 A	10-May-21 A	A fton	
EMSD preparation for Stage 1 change over	13	03-May-21	17-May-21	10-May-21 A	20-May-21 A	A leparation for Stage 1 change over	
Stage 1 change over to oil drum traffic signal	0		17-May-21		20-May-21 A	A charige over to oil drum traffic signal	
EMSD preparation for Stage 2 change over	18	18-May-21	08-Jun-21	20-May-21 A	08-Jun-21 A	A 🚍 EMSD preparation for Stage 2 change over	
Stage 2 change over to oil drum traffic signal	0		08-Jun-21		08-Jun-21 A	A Stage 2 change over to oil drum traffic signal	
Stage 1 (KT Fire Station Footpath/ CYS northbound)	111	03-May-21	11-Sep-21	03-May-21 A	25-Nov-21	Stage 1 (KT Fire Station Footpath/ CYS northbound)	
Stage 1A (KT Fire Station Footpath)	66	03-May-21	21-Ju l- 21	03-May-21 A	21-Aug-21 A		
Towngas UU diversion	18	03-May-21	24-May-21	03-May-21 A	03-Jun-21 A	A 🗖 Towngas UU diversion	
WSD diveresion	6	25-May-21	31-May-21	12-Jun-21 A	17-Jun-21 A	A WSD diveresion	
Telecom UU diversion Stage 2	12	01-Jun-21	15-Jun-21	19-Jun-21 A	21-Ju l- 21 A	Telecom UU diversion Stage 2	
Installation of gully and gully pipe	12	08-Jun-21	22 Jun 21	24-Jun-21 A	09-Aug-21 A		
Reinstatement of footpath & carriageway	24	23-Jun-21	21-Ju l- 21	07-Ju l- 21 A	21-Aug-21 A	A Reinstatement of footpath & carriageway	
Installation of ducting for PL, ATC and E&M	6	01-Jun-21	07 Jun 21	05-Aug-21 A	11-Aug-21 A	A http://www.andlation.org/ducting for PL, ATC and E&M	
Stage 1B (CYS northbound Lane 2)	15	22-Ju l- 21	07-Aug-21	04-Oct-21	21-Oct-21	V Stage 1B (CYS northbound Lane 2)	
Installation of ducting for PL, ATC and E&M	3	22-Ju l -21	24-Ju l- 21	04-Oct-21	06-Oct-21	■ Installation of ducting for PL_ATC and E&M	
Installation of guly and guly pipe	3	26-Ju l- 21	28-Jul-21	07-Oct-21	09-Oct-21	□ Installation of gully and gully pipe	
Reinstatement of carriageway	9	29-Ju l- 21	07-Aug-21	11-Oct-21	21-Oct-21	Reinstatement of carriageway	
Stage 1C (CYS northbound Lane 3)	15	09-Aug-21	25-Aug-21	22-Oct-21	08-Nov-21	V Stage 1 C (CYS northbound Lane 3)	
Installation of ducting for PL, ATC and E&M	3	09-Aug-21	11-Aug-21	22-Oct-21	25-Oct-21	Installation of ducting for PL; ATC and E&M	
Installation of guly and guly pipe	3	12-Aug-21	14-Aug-21	26-Oct-21	28-Oct-21	🗖 🔲 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬 🖬	
Reinstatement of carriageway	9	16-Aug-21	25-Aug-21	29-Oct-21	08-Nov-21	Reinstatement of earriageway	
Stage 1D (CYS northbound Lane 4)	15	26-Aug-21	11-Sep-21	09-Nov-21	25-Nov-21	▼ Stage 1D (CYS northbound Lane 4)	
Installation of ducting for PL, ATC and E&M	3	26-Aug-21	28-Aug-21	09-Nov-21	11 - Nov-21	Installàtion of ducting for PL, ATC and E&M	
Installation of gully and gully pipe	3	30-Aug-21	01-Sep-21	12-Nov-21	15-Nov-21	📫 Installation of gully and gully pipe	
Reinstatement of carriageway	9	02-Sep-21	11-Sep-21	16-Nov-21	25-Nov-21	Reinstatement of carriageway	
Stage 2 (CYS central traffic island)	42	26-Aug-21	16-Oct-21	09-Nov-21	29-Dec-21	▼ Stage 2 (CYS central tràffic island)	
Demolition of existing traffic island	6	26-Aug-21	01-Sep-21	09-Nov-21	15-Nov-21	Demolition of existing traffic (sland	
Connection gully and gully pipe	6	02-Sep-21	08-Sep-21	16-Nov-21	22-Nov-21	Connection gully and gully pipe	
Connection for PL, ATC and E&M	12	09-Sep-21	23-Sep-21	23-Nov-21	06-Dec-21	Connection for PL, A	E&M
Construction of new traffic island	18	24-Sep-21	16-Oct-21	07-Dec-21	29-Dec-21		uction of new traffic is
Stage 3 (Wang Chiu Road)	173	17-Feb-21	15-Sep-21	07-Apr-21 A	06-Dec-21	▼ Stage 3 (Wang Chiu Road)	
Stage 3A (WCR central traffic island)	114	17-Feb-21	08-Ju l- 21	07-Apr-21 A	09-Oct-21	Stage 3A (WCR central traffic island)	
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	07-Apr-21 A	12-May-21 A	A listing draft wall and planter	
Lower down existing manhole	6	27-Feb-21	05-Mar-21	03-Ju l- 21 A	09-Jul-21 A	Lower down existing manhole	
Reinstatement of footpath & carriageway	24	09-Jun-21	08-Ju l- 21	12-Ju l- 21 A	09-Oct-21	Reinstatement of flootpath & carriageway	
Stage 3B (WCR westbound Lane 2)	12	22-Jul-21	04-Aug-21	11-Oct-21	25-Oct-21	▼ Stage 3B (WCR westbound Lané 2)	
Installation of ducting for PL, ATC and E&M	3	22-Ju l -21	24-Jul-21	11-Oct-21	13-Oct-21	Installation of ducting for PL, ATC and E&M	
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	15-Oct-21	25-Oct-21	Reinstatement of carriageway	
Stage 3C (WCR westbound Lane 1)	12	05-Aug-21	18-Aug-21	26-Oct-21	08-Nov-21	▼ Stage 3C (WCR westbound Lane 1)	

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Milestone
 Planned Bar
 Critical A drivity

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Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

Summary

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

Three Months Rolling Programme (Sep-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2021							2022	
						30 06	June 13 2	20 27	July 04 11 1	18 25		ugust 15 2	2 29		ptember 12 19	26 0		tober 17 24	November 31 07 14 21	December 28 05 12 19	26	Janua 02 09	
Installation of ducting for PL, ATC and E&M	3	05-Aug-21	07-Aug-21	26-Oct-21	28-Oct-21					10									Installation of ducting for			02	
Reinstatement of carriageway	9	09-Aug-21	18-Aug-21	29-Oct-21	08-Nov-21						_	-							Reinstatemen	t of carnageway			
Stage 3D (WCR westbound new traffic island)	36	05-Aug-21	15-Sep-21	26-Oct-21	06-Dec-21						V				▼ Stage 3	D (WCR	westbou	nd new traffi	(sland)				
Demolition of existing pavement	6	05-Aug-21	11-Aug-21	26-Oct-21	01-Nov-21						-							-	Demolition of existing	g pavement			
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	02-Nov-21	15-Nov-21						5								Cannec	tion for PL, ATC and E&I	N		
Construction of new traffic island	18	26-Aug-21	15-Sep-21	16-Nov-21	06-Dec-21									1 1	-					Construction		nfficisland	
Stage 4 (Hoi Bun Road)	137	17-Feb-21	04-Aug-21	13-May-21 A	01-Nov-21						➡▼ \$tage 4	4 (Hoi Bun	n Road)										
Stage 4A (HBR Planter)	96	17-Feb-21	16-Jun-21	13-May-21 A	18-Oct-21		▼ \$ta		IBR Planter)														
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21		24-May-21 A	olition of	existing dra	aft wa l ai	nd planter														
Irrigation pipe diversion	3	27-Feb-21	02-Mar-21	25-May-21 A	27-May-21 A		ipe diversio	n															
Lower down existing manhole	6	03-Mar-21	09-Mar-21	02-Aug-21 A	10-Aug-21 A							ower dowr	n existin	g manho l e	e								
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	24-Aug-21 A	18-Oct-21		<u> </u>											💻 Reinsta	tement of footpath & carri	ageway			
Stage 4B (HBR Fast Lane)	12	22-Jul-21	04-Aug-21	19-Oct-21	01 - Nov-21					V	➡V \$tage 4	4B (HB¦R F	ast Lan	ie)									
Installation of ducting for PL, ATC and E&M	3	22-Ju l- 21	24-Jul-21	19-Oct-21	21-Oct-21	<u> </u>												📕 Insta	ation of ducting for PL, A	TC and E&M			
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	22-Oct-21	01-Nov-21	Ι				_	-								Reinstatement of car	rtageway			
Stage 5 (Gas Station & HBR)	185	03-Mar-21	17-Oct-21	28-Apr-21 A	18-Jan-22													➡ Stage 5	(Gas Station & HBR)				
Stage 5A (Gas Station Footpath)	84	03-Mar-21	16-Jun-21	28-Apr-21 A	05-Nov-21			ge 5A (G	Sals Station Footp	ath)													
Telecom UU diversion	6	03-Mar-21	09-Mar-21	28-Apr-21 A	15-May-21 A	diversior	۱ 																
Installation of ducting for PL, ATC and E&M	6	10-Mar-21	16-Mar-21	25-Aug-21 A	07-Oct-21												Insta	lation of duc	ting for PL, ATC and E&M				
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	08-Oct-21	05-Nov-21		<u> </u>					l							Reinstatement of	footpath & carriageway			
Stage 5B (HBR traffic island)	36	05-Aug-21	15-Sep-21	06-Nov-21	17-Dec-21	ļ					V				▼ \$tage 5	B (HBR ti	raffic isla	ind)					
Demolition of existing traffic island	6	05-Aug-21	11-Aug-21	06-Nov-21	12-Nov-21	ļ					<u> </u>								Demolition	o∣fexisting traffic island			
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	13-Nov-21	26-Nov-21	ļļ														Connection for PL, AT			
Construction of new traffic island	18	26-Aug-21	15-Sep-21	27-Nov-21	17-Dec-21															Co	nstruction	of new traffic	island
Stage 5C (HBR Left Turn Lane 1)	12	16-Sep-21	30-Sep-21	18-Dec-21	04-Jan-22	ļ									V			HBR Left Tur					
Installation of ducting for PL, ATC and E&M	3	16-Sep-21	18-Sep-21	18-Dec-21	21-Dec-21							ļļ		4						·············	Installatio	on of ducting f	
Reinstatement of carriageway	9	20-Sep-21	30-Sep-21	22-Dec-21	04-Jan-22	ļ														•••••••••••••••••••••••••••••••••••••••		Reinstate	ment of carri
Stage 5D (HBR Left Turn Lane 2)	12	02-Oct-21	17-Oct-21	05-Jan-22	18-Jan-22	ļ												V Stage 5	D (HBR Left Turn Lane 2)			-	
Installation of ducting for PL, ATC and E&M	3	02-Oct-21	05-Oct-21	05-Jan-22	07-Jan-22																	📕 Installa	
Reinstatement of carriageway	9	06-Oct-21	16-Oct-21	08-Jan-22	18-Jan-22	ļ												-					Reinstate
Section 8D [STE] - Completion	0		17-Oct-21		18-Jan-22*	ļ												. ¢					 Section 8
Section 9F [STE] - Completion	0		17-Oct-21		18-Jan-22*													<u></u>					 Section 9
Establishment	365	18-Oct-21	17-Oct-22	19-Jan-22	18-Jan-23																		
HBR / CYS / WCR Junction Modification - Establishment works	365	18-Oct-21	17-Oct-22	19-Jan-22	18-Jan-23							ļļ											
[STE] Road L10 (Northern)	337 337	08-Jul-21 08-Jul-21	24-Aug-22 24-Aug-22	23-Dec-20 A 23-Dec-20 A	12-Mar-22 12-Mar-22																		
CUE L10(N) ELS (Sheet pile) part 1	48	08-Jul-21	01-Sep-21	23-Dec-20 A	30-Jun-21 A								<u></u> .)(N) ELS (S		nait 1						
CUE L10(N) Pump Test part 1	32	02-Sep-21	11-Oct-21	30-Jun-21 A	30-Jun-21 A				-			+						UE I 10(N) F	ump Test part 1				
CUE L10(N) Excavation part 1	36	12-Oct-21	23-Nov-21	02-Jul-21 A	09-Oct-21															CUE L10(N) Excavation	nait 1		
CUE L10(N) ELS (Sheet pile) part 2	45	07-Apr-22	04-Jun-22	25-Aug-21 A	15-Nov-21							·							<u></u>				
CUE L10(N) Structure part 1	108	24-Nov-21	04-5011-22 06-Apr-22	01-Nov-21	12-Mar-22							·						· · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u></u>			····
CUE L10(N) Pump Test part 2	32	06-Jun-22	13-Jul-22	16-Nov-21	22-Dec-21													·		- <u>+-</u>			
CUE L10(N) Excavation part 2	36	14-Jul-22	24-Aug-22	23-Dec-21	09-Feb-22													· • • • • • • • • • • • • • • • • • • •	· { } {}{}} } } }		li		<u>.</u>
									7			·			T-GRADE		102	·····	·				
AT-GRADE ROAD [AGR]	60 60	02-Jul-21	09-Sep-21	01-Dec-21	15-Feb-22														.				
AGR - Formation to required level + SRT	18	02-Jul-21 02-Jul-21	09-Sep-21 22-Jul-21	01-Dec-21 01-Dec-21*	15-Feb-22 21-Dec-21	·									ermanent			-+		· · · · · · · · · · · · · · · · · · ·	AGR F	ormation to rec	auired level -
	10	02-50-21	22-JUI-2 I	01-Dec-21	21-060-21																		

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Planned Bar CriticalA divity

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Actual Milestone
 Actual Work

Mestone

Baseline Milestone
 Baseline Bar

Summary

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

Three Months Rolling Programme (Sep-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		22
						June July August September October November December Jan 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09	
AGR - Sub-base + SRT	18	23-Ju l -21	12-Aug-21	22-Dec-21	14-Jan-22		AGR - Sub bi
AGR - Drainage & Gully Installation part 1	24	13-Aug-21	09-Sep-21	15-Jan-22	15-Feb-22		····i·
DEPRESSED ROAD [DPR]	178	03-Mar-21	07-Oct-21	19-Apr-21 A	31-Jan-22	DEPRESSED ROAD IDPR]	
Excavation & Strutting	77	11-Mar-21	16-Jun-21	19-Apr-21 A	17-Sep-21 A	A 🕂 🗸 Excavation &:Strutting	
Shallow Section (46m)	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A		
Excavation part 2 CH5948-CH6008	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A	Excavation part 2 CH5948-CH6008	
Zone 3 (Ch6080 - 6121)	23	26-Mar-21	26-Apr-21	19-Apr-21 A	19-Jun-21 A		
Strut S3 Installation (4 nos)	8	26-Mar-21	08-Apr-21	19-Apr-21 A	15-May-21 A	A Mation (4 nos)	
Excv to FEL (5,500m ³)	9	16-Apr-21	26-Apr-21	17 - May-21 A	19-Jun-21 A	Excv to FEL (5.500m ³)	
Zone 4 (Ch6121 - 6150)	57	08-Apr-21	16 Jun 21	27-Apr-21 A	17-Sep-21 A	A Zone 4 (Ch6121 - 6150)	
Excv to S3 (3,400m ³)	7	08-Apr-21	15-Apr-21	27-Apr-21 A	18-May-21 A	\ { (3,400m ³)	
Strut S3 installation (4 nos)	8	23-Apr-21	03-May-21	12-Jul-21 A	17-Jul-21 A	Strul; S3 installation (4 nos)	
Excv to S4 (1,550m³) part 1	3	04-May-21	06-May-21	19-Ju l- 21 A	21-Aug-21 A	A Excit to S4: (1,550m ³) part 1	
Excv to S4 (1,550m ³) part 2	4	07 - May-21	11-May-21	23-Aug-21 A	26-Aug-21 A	A [■ [Excv (o S4 (∛,550m) ^s) part 2	
Strut S4	4	04-Jun-21	08-Jun-21	28-Aug-21 A	30-Aug-21 A	A 🔁 Strut S4	
FEL	6	09-Jun-21	16-Jun-21	10-Sep-21 A	17-Sep-21 A		
Permanent Structure	178	03-Mar-21	07-Oct-21	13-May-21 A	31-Jan-22	Permanent Structure	
Shallow Section	53	17-Mar-21	24-May-21	19-Ju l- 21 A	13-Oct-21	ow Section	
Part 2 (Ch5997 - 6008)	53	17-Mar-21	24-May-21	19-Jul-21 A	13-Oct-21	2 (Ch5997 - 6008)	
Plate Load Test	5	17-Mar-21	22-Mar-21	19-Ju l- 21 A	24-Jul-21 A	Plate Load Test	
Blinding	9	23-Mar-21	01-Apr-21	26-Jul-21 A	07-Aug-21 A		
Base Slab	12	07-Apr-21	20-Apr-21	09-Aug-21 A	19-Aug-21 A	A Base Slab	
Drainage, Watermain & UU	10	08-Apr-21	19-Apr-21	10-Aug-21 A	18-Aug-21 A	A Drainage, Watermain & UU	
Retaining Wall	18	21-Apr-21	12-May-21	27-Sep-21 A	02-Oct-21 A	N Retaining Wall	
Waterproofing	9	13-May-21	24-May-21	04-Oct-21	13-Oct-21	Waterproofing	
Zone 1 (Ch6008 - 6045)	108	26-Mar-21	07-Aug-21	13-May-21 A	20-Dec-21	Zone 1 (Ch6008 ÷ 6045)	
Blinding & Waterproofing	9	26-Mar-21	09-Apr-21	13-May-21 A	08-Jun-21 A	Blinding & Waterprodring	
Base Slab	15	10-Apr-21	27-Apr-21	09-Jun-21 A	26-Jul-21 A	Base Slab	
DCS Pipes	18	26-Mar-21	20-Apr-21	21-Jun-21 A	18-Sep-21 A	A DCS Pipes	
South Apron Adit Wal	21	06-May-21	31-May-21	16-Aug-21 A	27-Sep-21 A	A South Agron Adit Wal	
Strut S3 removal	6	28-Apr-21	05-May-21	21-Aug-21 A	24-Aug-21 A	A Strut S3 remoyal	
SP Removal	6	06-May-21	12-May-21	27-Sep-21 A	06-Oct-21	SP Removal	
Blinding & Waterproofing	6	13-May-21	20-May-21	07-Oct-21	13-Oct-21	Blinding & Waterproofing	
Road Slab	12	01-Jun-21	15-Jun-21	15-Oct-21	28-Oct-21	Road Slab	
Drainage, Watermain & UU	10	02-Jun-21	12-Jun-21	16-Oct-21	27-Oct-21	Drainaĝe, Watermain & UU	
Waterproofing and Backfilling	9	16-Jun-21	25-Jun-21	29-Oct-21	08-Nov-21	Waterproofing and Backfilling	
Strut S1 removal	6	26-Jun-21	03-Ju l- 21	09-Nov-21	15-Nov-21	Strut S1 temoval	
Retaining Wal	21	05-Ju l -21	28-Jul-21	16-Nov-21	09-Dec-21	Rebinỳng Wậl	
Waterproofing and Backfilling	9	29-Ju l -21	07-Aug-21	10-Dec-21	20-Dec-21	Waterprofing and Ba	ckfilling
Zone 2 (Ch6045 - 6080)	74	08-Apr-21	07-Jul-21	15-Jun-21 A	06-Nov-21	▼ Zone 2:(Ch6045 - 6080)	
Plate Load Test	5	08-Apr-21	13-Apr-21	15-Jun-21 A	21-Jun-21 A	******	
Blinding & Waterproofing	9	14-Apr-21	23-Apr-21	22-Jun-21 A	03-Jul-21 A	Blinding & Waterproofing	
Base Slab	15	24-Apr-21	12-May-21	10-Ju l- 21 A	04-Aug-21 A	A Base Slab	
Strut S3 removal	6	13-May-21	20-May-21	07-Aug-21 A	14-Aug-21 A	A Strut S3 reindval	
South Apron Adit Wall	21	21-May-21	15-Jun-21	23-Aug-21 A	06-Oct-21	South Apron Adit Wa	
Road Slab	12	16-Jun-21	29-Jun-21	07-Oct-21	21-Oct-21		
IIIII							<u> i i </u>
Page 19 of 27	- V	Summary					pproved
Data Date: 02-Oct-21			ED/2	2018/0	4 Trur	nk Road T2 and Infrastructure Works	
Actual Milestone				f	or Dev	Nolonmonts at South Anron BOUYGUES 10-Apr-20 01/1 SPallo WY	
Actual Work						17-Jul-20 01V2 SPa/LLo WY	
Saseline Milestone			1			(1 D U) D (2 O (1) V) SPa/LLo WY	

Three Months Rolling Programme (Sep-21)

WYu

WYu

SPa/LLo

SPa/LLo

09-Oct-20 02-Jul-21

01V3

02V0

Baseline Bar

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Activity Name	Dur	r 02V0 Start	02V0 Finish	n Start	Finish	2021 2022
		1				June July August September October November December January 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 D
Strut S1 removal	6	30-Jun-21	07-Jul-21	22-Oct-21	28-Oct-21	
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	28-Oct-21	06-Nov-21	
Zone 3 (Ch6080 - 6121)	80	27-Apr-21	02-Aug-21	03-Jul-21 A	02-Dec-21	Zone 3 (Ch6080 - 6121)
Plate Load Test (deleted)	5	27-Apr-21	03-May-21	1 03-Jul-21 A	03-Jul-21 A	A If Plate Load Test (deleted)
Blinding & Waterproofing	9	04-May-21	13-May-21	1 09-Jul-21 A	27-Jul-21 A	A Binding & Waterproffing
Base Slab	15	14-May-21			01-Sep-21 A	1Α βase Slab
Strut S3 removal	6	02-Jun-21	08-Jun-21			
South Apron Adit Wal	21		05-Jul-21			
Road Slab	12		19-Jul-21		04-Nov-21	
Drainage, Watermain & UU	10		17-Jul-21		18-Nov-21	
Strut S2 & S1 removal	12		02-Aug-21			
Zone 4 (Ch6121 - 6150)	127		-			
Plate Load Test	5					
Blinding & Waterproofing	6					
Base Slab part 1	12	· · ·			18-Oct-21	
BS P2		25-Jun-21	06-Jul-21		28-Oct-21	
Remove S4	3		08-Jul-21	29-Oct-21	01-Nov-21	
BS P3	3		16-Jul-21	02-Nov-21	01-Nov-21 08-Nov-21	
BS P3 BS P4	- U		16-Jul-21 27-Jul-21		18-Nov-21	
	· ح ا	17-Jul-21				
Remove S3	9		06-Aug-21		29-Nov-21	
South Apron Adit Wall / Sump Pit	21	•	31-Aug-21		23-Dec-21	
Road Slab	12		14-Sep-21		10-Jan-22	
Strut S2 & S1 removal	18					
DPR SUS Interface	91		24-Jun-21			
SUS Dwall removal up to -3.0mPD	9	00 1101 21	12-Mar-21			
BH-6.85mPD	6		22-Apr-21			
BH -10.5mPD	6	······, ···			-	
BH-15.15mPD	7	17-Jun-21	24-Jun-21	•		
WEST VENTILATION BUILDING [WVB]	184		22-Nov-21			
Delay Events	0					
SP Installation Stoppage - due to Fatal Accident	0		'		·	1 A page - due to Fatal Accident
KP Drilling Stoppage - due to Fatal Accident	0	¹	′			
KP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	A 17-May-21 A	
ELS system & Foundation	79	· ·	19-Ju l- 21			
Sheet Pile	48		10-Jun-21			
WVB - Sheet Piles Installation 100% completion	48	· · ·	10-Jun-21			
King Post	53			· ·		1 Ving Post
North	38		30-Jun-21	•		A North
KP Drilling (KP9 & KP10) @ 2d/no	4	Lo may 21			A 18-May-21 A	
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31-May-21			A 07-Jun-21 A	
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15-May-21			02-Jul-21 A	
KP Installation & Grouting (KP11 & KP12) @ 2d/no	4	26-Jun-21	30-Jun-21	03-Jul-21 A	06-Jul-21 A	A 🗧 🧧 KP Installation & Grouting (KP11 & KP12) @ 20/no
South	38	21-May-21			30-Jul-21 A	
KP Installation & Grouting (KP5 & KP6) @ 2d/no	4	21-May-21	25-May-21	08-Jun-21 A	A 08-Jun-21 A	
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21	28-Jun-21 A	02-Jul-21 A	
KP Installation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A	23-Jul-21 A	A KP Installation & Grouting (KP1 & KP2) @ 2d/no
				·		Date Revision Checked Annoved
Page 20 of 27 Pate Data: 02 Oct 21 Planned Bar		Summary		100401	~ 4 T	Date Revision Checked Approved 18-Dec-19 00V1 WYu
Data Date: 02-Oct-21			ED/	2018/ए	J4 Iru [,]	UNK ROAD 12 and Initastructure Works
Actual Milestone				1		BOUYGUES DATE 20 MILLO WALLS

Critical Activity Actual Milestone Actual Work

Baseline Miestone Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20

02-Jul-21

01V1

01V2

01V3

02V0

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

WYu

Three Months Rolling Programme (Sep-21)

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish							2021									2022	
						June 30 06 13 20 27	July 04 11 18	25	Augi 01 08	ust 15 22		September	19 26	Oc 03 10	tober 17 24		lovember 14 21		December	26 02	January 09 16	23)
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Ju l- 21	26-Jul-21 A	29-Jul-21 A				<pre>CP Drilling (KP</pre>			16		00 10			17 21		12 10		00 .0	20 -
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-Ju l- 21	06-Ju l- 21	30-Jul-21 A	30-Jul-21 A		-	I	KP Installation	a & Grouting	(KP7 & KI	P8) @ 2d/n	10									
Steel Platform Location	39	02-Jun-21	19-Ju l- 21	21-Jun-21 A	25-Oct-21	V	▼ Ste	eel Platf	form Location		1											
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	09-Aug-21 A			:		Drilling (DP1	DP6) 6 n	os @ 3d/n	0									
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Ju l- 21 A	14-Aug-21 A		· · · · · · · · · · · · · · · · · · ·			KP Instal atio	on (DP1-1	DP6)6 nos	@2d/no									
Steel Deck Erection	18	28-Jun-21	19-Ju l- 21	04-Oct-21	25-Oct-21	-								_		iteel Deck Er	ection					
Wells Installation	40	21-May-21	08-Ju l- 21	26-Jul-21 A	04-Sep-21 A		▼ Wells Installa	ation			1											;}
North	22	21-May-21	16-Jun-21	26-Ju l- 21 A	02-Sep-21 A	▼ North]]]]]]]]					
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21	26-Jul-21 A	10-Aug-21 A				Pun	nping We ll i n	nstallation	6 nos x 2	rigs (Zon	9 3)								
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	23-Aug-21 A	28-Aug-21 A									los x 2 rigs								
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	30-Aug-21 A	02-Sep-21 A					1	Pum	ping Well I	nstallation	- 7 nos x 2	rigs (Zone 2)							
South	34	28-May-21	08-Ju l- 21	12-Aug-21 A	04-Sep-21 A		▼ South															
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21	12-Aug-21 A	04-Sep-21 A									L	2 rigs (Zone 6	6)	<u> </u>					
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Ju l- 21	08-Ju l -21	23-Aug-21 A	25-Aug-21 A					Pu 🗖	umping We	al Installati	on - 2 nos	x 2 rigs (Zo	onie 5)							
Steel Platform Location	8	24-Jun-21	03-Ju l- 21	11-Aug-21 A		V	▼ Steel Platform Lo	cation														
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)	8	24-Jun-21	03-Ju l -21	11-Aug-21 A	18-Aug-21 A		-			Pumping	g Welt Insta	alation (11	1 nois x 3 i	igs (Zane 4)							
Excavation & Strutting	114	09-Jul-21	22-Nov-21	06-Sep-21 A	10-Feb-22												V E	xcavation & S	trutting			
Pumping Test	12	09-Jul-21	20-Jul-21	06-Sep-21 A	18-Sep-21 A								Pumping	lest								
Excavation to below Strut S1 10,010m ³	17	21-Ju l -21	09-Aug-21	20-Sep-21 A	25-Oct-21											xcavation to	below Strut S	1 10,010m ³				
Bulk Excavation Start	0	21-Jul-21		20-Sep-21 A			♦					<u></u>		avation Sta								
Strut S1 Installation	20	26-Jul-21	17-Aug-21	30-Sep-21 A	02-Nov-21					•							1 Installation					
Strut S1 Pre-loading	2	18-Aug-21	19-Aug-21	03-Nov-21	04-Nov-21					•						📕 Strut	\$1 Pre loadir	ŋ				
Excavation to be low Strut S2 11,076m ³	18	20-Aug-21	09-Sep-21	05-Nov-21	25-Nov-21												· · · · · · · · · · · · · · · · · · ·	Excavation t	obe l ow/Str	ut S2 11,076m	3	
Strut S2 Installation	20	26-Aug-21	17-Sep-21	11-Nov-21	03-Dec-21					-								Strut	S2 Installat	ion		
Strut S2 Pre-loading	2	18-Sep-21	20-Sep-21	04-Dec-21	06-Dec-21							-						📕 Str	rut S2 Pre-	oading		
Excavation to be low Strut S3 11,905m ³	20	21-Sep-21	16-Oct-21	07-Dec-21	31-Dec-21										-			-			vation to be	ow Strut
Strut S3 Installation	20	28-Sep-21	22-Oct-21	13-Dec-21	07-Jan-22								-		+					; ;	Strut S3 In	stallation
Strut S3 Pre-loading	2	23-Oct-21	25-Oct-21	08-Jan-22	10-Jan-22										–						Strut S3	
Excavation to below Strut S4 8,930m ³	15	26-Oct-21	11-Nov-21	11-Jan-22	27-Jan-22											1						E
Strut S4 Installation	20	30-Oct-21	22-Nov-21	15-Jan-22	10-Feb-22																	1
SOUTH APRON ADIT	20	11-Jun-21	06-Ju l- 21	19-Apr-21 A	05-May-21 A	V	SOUTH APRO	N AD														
South Apron Adit - Sheet piling	20	11-Jun-21	06-Ju l -21	19-Apr-21 A	05-May-21 A		South Apron A	dit - She	eet piling			1										·
SUPPORTING UNDERGROUND STRUCTURE [SUS	60	20-Oct-21	30-Dec-21	15-Dec-21	15-Feb-22										V					▼ SUPP	ORTING UN	IDERGR
Permanent Structure	42	20-Oct-21	07-Dec-21	15-Dec-21	21-Jan-22										▼			V P	ermanent S	tructure		
SUS - EB Partition Wall CH6150-6260	30	03-Nov-21	07-Dec-21	15-Dec-21*	21-Jan-22												1 1					SUS-
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	20-Dec-21*	19-Jan-22											1	-		: :=			SUS-W
Tunnel Internal Structure & Finishing	36	17-Nov-21	30-Dec-21	20-Jan-22	15-Feb-22												V			↓ Tunne	l Internal Str	ucture &
Westbound	18	17-Nov-21	07-Dec-21	20-Jan-22	12-Feb-22												V	v W	Vestbound			
SUS - WB - ISCG Assembly	18	17-Nov-21	07-Dec-21	20-Jan-22	12-Feb-22			[<u></u>				·
Eastbound	18	08-Dec-21	30-Dec-21	22-Jan-22	15-Feb-22															V Eastb		
SUS - EB - ISCG Assembly	18	08-Dec-21	30-Dec-21	22-Jan-22	15-Feb-22																	
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	221	22-Apr-21	15-Jan-22	15-Apr-21 A	15-Feb-22																 C&0	TUNNI
Delay Events	0			19-May-21 A				[Ļ										
C1-15 Zone 2 Pour 1 Remedial works	0					5 Zone 2 Pour 1 Remedial 1					<u> </u>	<u> </u>							ļļ	<u>.</u>		ļ
C1-15 Zone 2 Pour 2 Remedial works	0			28-May-21 A	03-Jun-21 A	C1-15 Zone 2 Pour 2 R					<u> </u>	<u>. </u>							l			
C1-15 Zone 2 Pour 3 Remedial works	0			04-Jun-21 A	08-Jun-21 A	C1-15 Zone 2 Pou	3 Remedial works															
Page 21 of 27		Summary			. –												Date	Revis		Checked /Yu	Appro	oved
Data Date: 02-Oct-21			ED/2	2018/0	4 Tru	hk Road T2	and Infra	asti	ructur	e Wo	orks						18-Dec-19	00V1		Yu Dalla		

Critical Activity Actual Milestone Actual Work

Baseline Milestone Baseline Bar

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

Three Months Rolling Programme (Sep-21)

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						June Juny August September October November December January 80 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23
C1-15 Zone 3 Remedial works	0			27-Jun-21 A	03-Jul-21 A	C1-15 Zone 3 Remedial works
C1-15 Zone 4 Pour 1 Remedial works	0			08-Ju l- 21 A	16-Jul-21 A	C1-15 Zone 4 Pour 1 Remedial works
C1-15 Zone 4 Pour 2 Remedial works	0			27-Ju l- 21 A	05-Aug-21 A	C1-15 Zone 4 Pour 2 Remedial works
C1-15 Zone 4 Pour 3 Remedial works	0			06-Aug-21 A	11-Aug-21 A	C1-15 Zone 4 Pour 3 Remedial works
C1-15 Strengthening Wall Strength Gain	0			12-Aug-21 A	15-Aug-21 A	C1-15 Stréngthéning Wall Stréngth Gain
Cross Wall X1 Breaking	0			14-Aug-21 A	27-Aug-21 A	Cross Wall X1 Breaking
Shaft Excavation & Strutting	70	22-Apr-21	16-Ju l- 21	15-Apr-21 A	07-Aug-21 A	N V: Shaft-Excavation & Strutting
Cut & Cover	58	07-May-21	16-Jul-21	20-Apr-21 A	10-Jul-21 A	V Cut& Cover
Excavation (2,191m ³) up to level -20.1mPD	11	07-May-21	20-May-21	20-Apr-21 A	08-May-21 A	on (2,191㎡) up to level -20.1mPD
S5 Steel Struts	12	21-May-21	03-Jun-21	10-May-21 A	29-May-21 A	N 🔁 (S5 Steel Struts
Excavation (2,817m ³) up to level -24.6mPD	11	04-Jun-21	17-Jun-21	01-Jun-21 A	11-Jun-21 A	
S6 Steel Struts	12	18-Jun-21	02-Jul-21	12-Jun-21 A	21-Jun-21 A	S6 Steel Struts
Pumping Test Trial	0			22-Jun-21 A	28-Jun-21 A	Pumping Test Trial
Excavation (2,567m ³) to FEL (-28.7mPD)	12	03-Ju l- 21	16-Jul-21	29-Jun-21 A	10-Jul-21 A	Excavation (2,567m ³) to FEL (-28.7mPD)
Cell 2	34	22-Apr-21	02-Jun-21	15-Apr-21 A	24-Jul-21 A	▼ Çell 2
Excavation up to level-21.25mPD	10	22-Apr-21	04-May-21	15-Apr-21 A	17-May-21 A	v up to leve)-21.2\$mPD
Excavation up to level-26.45mPD	12	05-May-21	18-May-21	18-May-21 A	14-Jun-21 A	
Excavation (6,809 m ³) to FEL -32.63mPD	12	20-May-21	02-Jun-21	15-Jun-21 A	24-Jul-21 A	P Excavation (6,809 m²) to FEL 32,63mPD
Cell 1	31	22-Apr-21	29-May-21	15-Apr-21 A	07-Aug-21 A	
Excavation up to level-21.25mPD	10	22-Apr-21	04-May-21	15-Apr-21 A	17-May-21 A	up to level-21.25mPD
Excavation up to level - 26.45mPD	12	05-May-21	18-May-21	18-May-21 A	07-Jun-21 A	Excavation up to level-26.45mPD
Excavation (6,809 m ³) to FEL -33.75mPD	9	20-May-21	29-May-21	08-Jun-21 A	07-Aug-21 A	Excavation (6,809 m ³) to FEL 33.75mPD
Civil Works for TBM Assembly	111	02-Jun-21	15-Oct-21	03-Ju l- 21 A	22-Nov-21	Civil Works for TBM Assembly
Cut & Cover	75	16-Ju l- 21	15-Oct-21	10-Jul-21 A	08-Nov-21	V Cut & Cover
C&C Excavation completion	0		16-Ju l- 21		10-Ju l- 21 A	C&C Excavation completion
Barrette Trimming	6	17-Ju l -21	23-Jul-21	12-Ju l- 21 A	21-Jul-21 A	Barrette Trimming
Blinding & Waterproofing Pour 15	9	24-Jul-21	03-Aug-21	22-Jul-21 A	19-Aug-21 A	Blinding & Waterprofing Pour 15
Base Slab Pour 5 [1,740m ³)	30	04-Aug-21	07-Sep-21	20-Aug-21 A	18-Sep-21 A	Basè Slab (Pour § [1,740m ³)
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21	20-Sep-21 A	18-Oct-21	C&CS5 ß S6 Strut Removal
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	23-Sep-21	04-Oct-21	19-Oct-21	28-Oct-21	WB SUS BH removal (145m ² / 8.4m ² /shift x 2/shift)
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	05-Oct-21	15-Oct-21	29-Oct-21	08-Nov-21	EB SUS BH removal (145m³ / 8.4m²/shift ½ 2 shift)
Cell 1 & 2	83	02-Jun-21	09-Sep-21	03-Jul-21 A	22-Nov-21	✓ Cell 1,8.2
VSL Gantry Crane Setup	12	30-Jun-21	14-Jul-21	03-Ju l- 21 A	24-Aug-21 A	VSL Gantry Crane Setup
Cell 1 & 2 Excavation completion	0		02-Jun-21		07-Aug-21 A	♦ Cell:1 & 2 Excavation completion
VSL Gantry Crane Load Test	3	15-Ju l- 21	17-Jul-21	25-Aug-21 A	28-Aug-21 A	VSL Gantry Crane Load Test
Base Slab	83	03-Jun-21	09-Sep-21	15-Ju l- 21 A	22-Nov-21	Base \$lab
Blinding & Waterproofing Pour 1	6	10-Jun-21	17-Jun-21	15-Jul-21 A	28-Jul-21 A	Blinding & Waterprotofing Pour 1
Base Slab Pour 1 [1,292m ³)	22	18-Jun-21	14-Jul-21	29-Jul-21 A	21-Aug-21 A	. ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Plate Load Test	6	03-Jun-21	09-Jun-21	16-Aug-21 A	21-Aug-21 A	N 🚍 Plate Load Test
Blinding & Waterproofing Pour 2	9	18-Jun-21	28-Jun-21	28-Aug-21 A	07-Sep-21 A	Blinding & Waterproofing Pour 2
Blinding & Waterproofing Pour 3 & 4	9	29-Jun-21	09-Jul-21	30-Aug-21 A	20-Sep-21 A	N Blinding & Waterproofing Pour 3 & 4
Base Slab Pour 2 [883m³)	10	15-Ju l- 21	26-Jul-21	13-Sep-21 A	09-Oct-21	Base Slab Pour 2 (883rt ^a)
Base Slab Pour 3 & 4 [910m³)	8	27-Jul-21	04-Aug-21	27-Sep-21 A	13-Oct-21	Base Stab Pour 3 & 4 (910m ³)
Temp. & Perm. Side Wall part 1	9	14-Aug-21	24-Aug-21	15-Oct-21	28-Oct-21	Temp; & Perm. Side Wall;part 1
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21	16-Nov-21	22-Nov-21	Témp. & Perm. Side Wall part 2
Tympanum	67	03-Jun-21	21-Aug-21	26-Jul-21 A	15-Nov-21	Tympahum
			-			
Page 22 of 27		Summary				Date Revision Checked Approved
Data Date: 02-Oct-21			ED/2	2018/0)4 Tru	nk Road T2 and Infrastructure Works
 Actual Miestone 				f		BOUYGUES DOWN IN SPallo WY
Actual Work						TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu
Sector Para				T 1		09-Oct-20 01V3 SPa/LLo WYu

Three Months Rolling Programme (Sep-21)

Baseline Bar

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2021								2022	
							June 13 20	27 04	July 11 1	18 25 01	August 08 15 22	29 0	September 05 12 19 26	Octobe 5 03 10			ovember 14 21		December 12 19	26 02	January 09 16	23)
Blinding & Waterproofing	9	03-Jun-21	12-Jun-21	26-Ju l- 21 A	11-Aug-21 A						Blinding & Wat											
Tympanum Pour 1 + Seal Rings [353m ³)	12	15-Jun-21	28-Jun-21	12-Aug-21 A	31-Aug-21 A							Tym	pan'um Pour 1 + Sea	Rings [353m ³)								
Tympanum Pour 2 + Seal Rings	6	07-Jul-21	13-Jul-21	01-Sep-21 A	10-Sep-21 A			-	-			-	🗖 Tympanum Pou	2 + Seal Rings								
TYmpanum Mass Fill	0			11-Sep-21 A	14-Sep-21 A								TYmpanum	Mass Fill								
Tympanum Pour 3 + Seal Rings	10	14-Ju l- 21	24-Ju l- 21	15-Sep-21 A	30-Sep-21 A					=				Tympanum Po	our3+Sea	Rings						
Tympanum Pour 4 + Seal Rings	10	26-Jul-21	05-Aug-21	02-Oct-21 A	16-Oct-21										Tympanun	n Pour 4 + S	eal Rings					
Tympanum Pour 5 Seal Rings	14	06-Aug-21	21-Aug-21	18-Oct-21	28-Oct-21					4							Pour 5 Seal I	Rings				
Falseworks removal	0			29-Oct-21	15-Nov-21									-	•	<u> </u>	📕 Falsewo	rks removal				†}
Tunnel Permanent Works	12	03-Jan-22	15-Jan-22	29-Jan-22	15-Feb-22											1					Tur	nel Perm
Cell 1/2 Westbound	12	03-Jan-22	15-Jan-22	29-Jan-22	15-Feb-22															V	Ce	1/2 Wes
WB Thrust Frame Dismantling	12	03-Jan-22	15-Jan-22	29-Jan-22	15-Feb-22																	
SUB-SEA TBM TUNNEL - WESTBOUND	435	25-Aug-20	12-Feb-22	25-Aug-20 A	22-Feb-22																	
TBM Design / Fabrication / FAT / Delivery	249	25-Aug-20	29-Jun-21	25-Aug-20 A	22-Jul-21 A			▼ TBM Des	sign / Fab	brication / FAT / E)elivery					1]				·····	
Fabrication	168	25-Aug-20	18-Mar-21	25-Aug-20 A	14-May-21 A																	
FAT	24	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A	F/	AT															
Delivery of TBM components to the Site	48	03-May-21	29-Jun-21	10-Jun-21 A	22-Jul-21 A						3M components to th	he Site										
Precast Fabrication	259	29-Mar-21	12-Feb-22	29-Mar-21 A	22-Feb-22	·	·····							++ii- 	·····;·····	il	i 	· · · · · · · · · · · · · · · · · · ·		i-	·····	<u>;;-</u>
TBM Precast Segments	216	29-Mar-21	17-Dec-21	29-Mar-21 A	14-Feb-22						·····					1	1 1	1	TBM:	Precast Segm	nents	
Precast TBM Segment - 30%	36	29-Mar-21	14-May-21	29-Mar-21 A	29-May-21 A	Precast TBN	M Segment + 3	30%								1						
Precast TBM Segment - 40%	36	15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A						ast TBM Segment	40%										
Precast TBM Segment - 50%	36	29-Jun-21	10-Aug-21	02-Aug-21 A	02-Oct-21 A									Precast TBN	A Segment	+50%						
Precast TBM Segment - 60%	36	11-Aug-21	21-Sep-21	04-Oct-21	15-Nov-21										· · · · · · · · · · · · · · · · · · ·	44k	Precast	TBM Segmer	t - 60%			
Precast TBM Segment - 70%	36	23-Sep-21	05-Nov-21	16-Nov-21	29-Dec-21										·			· · · · · · · · · · · · · · · · · · ·	·	Precast	TBM Segn	ėnt - 70
Precast TBM Segment - 80%	36	06-Nov-21	17-Dec-21	30-Dec-21	14-Feb-22											: 🛑	; ;					<u>+</u>
Service Gallery	132	29-Jun-21	03-Dec-21	19-Jul-21 A	22-Feb-22			-										V Servi	ce Ga l ery			÷
Precast Service Gallery - Mould Design	24	29-Jun-21	27-Jul-21	19-Jul-21 A	18-Sep-21 A									Service Gallery-	Mould Des	sign						+
Precast Service Gallery - Mould Fabrication & Setup	36	28-Jul-21	07-Sep-21	12-Oct-21*	23-Nov-21						·····						F	recast Servic	e Gallery - Mo	ould Fabricatio	on & Setup	÷
Precast Service Gallery - Mass Production Start	0	08-Sep-21		24-Nov-21									<u> </u>			1	•	Precast Servi	be Ga ll ery - M	ass Productio	on Start	
Precast Service Gallery - 3%	24	08-Sep-21	07-Oct-21	24-Nov-21	21-Dec-21													······	Pr	ecast;Service	Gallery - S	%
Precast Service Gallery - 6%	24	08-Oct-21	05-Nov-21	22-Dec-21	21-Jan-22																	Precas
Precast Service Gallery - 10%	24	06-Nov-21	03-Dec-21	22-Jan-22	22-Feb-22													÷				ii.
OHVD Slab	72	15-Nov-21	12-Feb-22	22-Nov-21	19-Feb-22											1	V				·····	<u>+</u>
Concrete Mix - Plant Trial	72	15-Nov-21	12-Feb-22	22-Nov-21*	19-Feb-22											1						
Precast OHVD Slab - Mould Fabrication & Setup	72	15-Nov-21	12-Feb-22	22-Nov-21*	19-Feb-22											1		÷				÷
Site Establishment	316	03-Oct-20	27-Oct-21	27-Oct-20 A	13-Dec-21	·					·····		·····	<u> -</u>		Şite Establis	hment	• • • • • • • • • • • • • • • • • • • •				<u>+</u>
Temporary CLP 132kV Substation	221	31-Oct-20	31-Jul-21	27-Oct-20 A	31-Aug-21 A					Tem	orary CLP 132kV S	Supstatio	n			1						
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192	31-Oct-20	26-Jun-21	27-Oct-20 A	02-Aug-21 A				,	Ter	np CLP 132kV Subs	station	CLP Transformer Se	tup & Final Fix		1						
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	03-Aug-21 A	31-Aug-21 A		•				·····	Tem	p CLP 132kV Substa	ation - FSD / WSE	D Inspection	n						
Temp CLP 132kV Substation - Power On	0		31-Jul-21		31-Aug-21 A					\$			p CLP 132kV Substa			1						
Precast Elements Storage Yard	90	03-Oct-20	20-Jan-21	10-May-21 A	25-Oct-21											1						;}
Precast Storage - Foundation	24	03-Oct-20	31-Oct-20		31-May-21 A	Precast \$t	torage - Found	dation								1						·····
Precast Storage - RC beam & Rail installation	24	02-Nov-20	28-Nov-20	07-Jun-21 A	31-Jul-21 A		·····				ast Storage - RC bea					1	1 1	1				
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21 A	18-Oct-21								······································	<u>+</u>	Precast	\$torage - De	livery & Asse	mbly				
Precast Storage - Commissioning & Load Test	6	14-Jan-21	20-Jan-21	19-Oct-21	25-Oct-21										Pr	recast \$torag	je - Commiss	ibning & Load	Test			
Gantry Crane Setup for TBMAssembly	66	04-Mar-21	26-May-21	21-May-21 A	28-Aug-21 A	ntry¦Crane S										1						
Gantry Crane - RC beam & Rail installation	24	04-Mar-21	31-Mar-21	21-May-21 A	30-Jun-21 A			Gantry C	Crane - R	RC beam & Rail ir	istallation											
N 11.1-												1 1										<u> </u>

Page 23 of 27 Data Date: 02-Oct-21

Planned Bar CriticalActivity

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Actual Work

 Actual Work
 Baseline Milestone
 Baseline Bar

Mestone

V Summary

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

18-Dec-19

22-Feb-20

09-Apr-20

17-Jul-20

09-Oct-20

02-Jul-21

BOUYGUES TRAVAUX PUBLICS Revision

00V1

01V0

01V1

01V2

01V3

02V0

Checked

WYu

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

Approved

WYu

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WYu

WYu

WYu

Three Months Rolling Programme (Sep-21)

Activity Name	ur 02V0	Start 02V0 Finish	Start	Finish	2021	2022
					June July August September October November Dece 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12	mber January 19 26 02 09 16 23 D
Gantry Crane - Delivery & Assembly	6 01 - Ap	r-21 18-May-21	28-Jun-21 A	24-Aug-21 A	Gantry Crane - Delivery & Assembly	
Gantry Crane - Commissioning & Load Test	6 20 - Ma	y-21 26-May-21	25-Aug-21 A	28-Aug-21 A	Gantry Cráne - Commissioning & Load Test	
Slurry Treatment Plant 1	56 04 - Ma	r-21 10-Sep-21	18-Feb-21 A	13-Dec-21	Slurry Treatment Plant	
Slurry Treatment Plant - Civil works	6 04-Ma	r-21 19-Apr-21	18-Feb-21 A	04-Sep-21 A	Slurry Treatment Plant Civil works	
Slurry Treatment Plant - Delivery & Assembly	4 20-Ap	r-21 18-May-21	31-Mar-21 A	20-Sep-21 A	Slurry Treatment Plant - Delivery & Assembly	
Slurry Treatment Plant - Installation	8 20 - Ma	y-21 16-Jul-21	20-May-21 A	18-Oct-21	Silurny Treatment Plant - Instellation	
Slurny Treatment Plant - Commissioning	4 17-Ju	L21 13-Aug-21	19-Oct-21	15-Nov-21	Slurry Treatment Plant - Cr	
Slurry Treatment Plant - CNP Application	4 14 - Au	g-21 10-Sep-21	16-Nov-21	13-Dec-21		Slurry Treatment Plant - CNP Application
)8 18-Ja		15-Jul-21 A	25-Oct-21	Mortar Plant	
	6 18-Ja		15-Ju l- 21 A	18-Sep-21 A	Morțar Plapt - Civil works	
	8 04-Ma	,	02-Aug-21 A		Mortar Plant - Installation	
ŬŬ	4 05-Ma		27-Sep-21 A	25-Oct-21	Motar Plant - Çommişsioning	
DG Store / Medical Lock 2			01-Dec-20 A	29-Nov-21	VDG Store / Medical Lock	
	14 01-De		01-Dec-20 A	06-Sep-21 A	Hyperbaric Interven ligh - LD; consultation & Apprival	
	8 02-Au		07-Sep-21 A	01-Nov-21	DG Storé / Medical Lock Installation	
	4 28-Se	·	02-Nov-21	29-Nov-21		edical Lock - F\$D Approval
	13 18-Ju		22-Ju l- 21 A	16-Dec-21	TBM Assem	DIV
)	18-Jul-21	00.1 01.1	22-Jul-21 A	♦ ♦ WB TBM 1st Delivery	
)		30-Aug-21 A		ititing \$5/S6/R4/Cross Be≱m ■ Main Drive;with displayement Cylinder	
)			04-Sep-21 A		
Linnig out of the analysis)		05-Sep-21 A		Lifting S3/S7/S2/S8 & S1 Installation	
oniola bate and any a maner emica com rislang)			01-Oct-21 A	Shield Bolts torquing & Interior Shiled Joint Welding	
)		02-Oct-21 A	02-Oct-21 A		
)		02-Oct-21	13-Oct-21	Cutterhead Ciphnedion to Shield	
child children)		04-Oct-21	06-Oct-21		
)		04-Oct-21	05-Oct-21	Events Preparation & Installation	
· ····· · ····························)		05-Oct-21	10-Oct-21	Final Shield Joint Welding	
	2		06-Oct-21	30-Oct-21	Lifting & Welding of Tailskin to Shield	
))		13-Oct-21	15-Oct-21 01-Nov-21	Installation Welding Plate on Top S1 ■ Installation Welding of TBM	
in the second se))		30-Oct-21		ISC Shirting of 15M	
))		01-Nov-21	10-Nov-21 10-Nov-21	GantryRail Wall Installation	
))		01-Nov-21 10-Nov-21	10-Nov-21 13-Nov-21	Ganty y Assembly	·+
carry mooning))			13-Nov-21 15-Nov-21		
ount y o noonnoig))		13-Nov-21 15-Nov-21	15-NOV-21 18-Nov-21	Gantry 2)Assembly. □ Gantry 2)Assembly.	.+
))		15-Nov-21 18-Nov-21	18-Nov-21 20-Nov-21	Ganty 2 Assembly,	libition
))		20-Nov-21	20-N0V-21 23-Nov-21	Segment recting inst	
))		20-Nov-21 23-Nov-21	02-Dec-21		/ Hydraulic Electrical Connections
) 1		02-Dec-21	02-Dec-21	All / Water	
)		02-Dec-21 03-Dec-21	16-Dec-21		Testing & Commissioning
)		00-000-21	16-Dec-21		S1281 WB TBM Break-in
) 0 01-De	c-21	16-Dec-21	10 000-21		WB TBM Break-in
	8 01-De		29-Dec-21	04-Feb-22		TBM.Tunnelling
	5 01-De		29-Dec-21	12-Jan-22		WB TBM Tunh
	6 16-De		13-Jan-22	28-Jan-22		
WB TBM Tunnelling CH6710-6756 ALL/CDG 114m	7 01-Ja		29-Jan-22	04-Feb-22		
Page 24 of 27 Data Date: 02-Oct-21	Summary	ED/	f	or Dev	A Road T2 and Infrastructure Works Plopments at South Apron as Rolling Programme (Sep-21)	Checked Approved WYu SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu

Activity Name	ur 02V0 Start	02V0 Finish	Start	Finish	June July	2021 August Septembe	r Octobor	2022 November January	
									07 14 21 28 05 12 19 26 02 09 16 23 0
SUB-SEA TBM TUNNEL - EASTBOUND		4 19-Aug-21	18-Jan-22	06-Sep-21 A	13-Feb-22	l			▼ SUB-SEA
TBM Assembly		0 19-Aug-21	03-Jan-22	06-Sep-21 A	29-Jan-22	_ 	♦ EB TBM 2	and Distance	TBM Assembly
EB TBM 2nd Delivery			19-Aug-21	45 Opp 01 A	06-Sep-21 A	·			
Lifting S5/S6/S4/Cross Beam		·		15-Sep-21 A		<u> </u>	· · · · · · · · · · · · · · · · · · ·	Lifting S5/\$6/S4/¢ross Beam	
Main Drive with displacement Cylinder				22-Sep-21 A		·		Main Drive with displacement Cylinder	
Lifting S3/S7/S2/S8 & S1 Installation		·		27-Sep-21 A	12-Oct-21			Lifting \$3/\$7/\$2/\$8 &	
Shield Bolts torquing & Interior Shiled Joint Welding				12-Oct-21	20-Oct-21				orquing & Intérior Shiled Jpint Welding
Cutterhead Installation				20-Oct-21	21-Oct-21			Cutterhead Ir	Istallation Dutterhead Connection to Shield
Cutterhead Connection to Shield				21-Oct-21	03-Nov-21				
Shield Shifting				22-Oct-21	24-Oct-21			Shield Shi	······································
Erector Preparation & Installation				25-Oct-21	29-Oct-21				r Preparation & Installation
Final Shield Joint Welding				29-Oct-21	02-Nov-21				nal Shield Joint Welding
Lifting & Welding of Tailskin to Shield				29-Oct-21	23-Nov-21				Lifting & Welding of Tailskin to Shield
Installation Welding Plate on Top S1				03-Nov-21	05-Nov-21				
Shifting of TBM to B/I Location				23-Nov-21	25-Nov-21				Shifting of TBM to B/I Location
Thrust Frame Installation				25-Nov-21	04-Dec-21				Thrust Frame Installation
Gantry Rail Wall Installation				26-Nov-21	07-Dec-21				
Gantry 4 Assembly				07-Dec-21	10-Dec-21				Gantry 4 Assembly
Gantry 3 Assembly				10-Dec-21	12-Dec-21				Gantry 3 Assembly
Gantry 2 Assembly				12-Dec-21	15-Dec-21		· · · · · · · · · · · · · · · · · · ·		Gantry 2 Assembly
Segment Feeding Installation				15-Dec-21	16-Dec-21				Segmént Feléding Installation
Gantry 1 Assembly		·		16-Dec-21	19-Dec-21				Gantry 1 Assembly
Air / Water / Hydraulic Electrical Connections				19-Dec-21	30-Dec-21				Air / Water / Hydraulic Elec
Power On				30-Dec-21	31-Dec-21				Power On
Testing & Commissioning				31-Dec-21	13-Jan-22		· · · · · · · · · · · · · · · · · · ·		Testing & Cor
S1282 EB TBM Break-in				00 1 00	13-Jan-22				◆ S1282 EB TB
EB TBM Break-in		0 03-Jan-22	(0.1	29-Jan-22	(0.5.1.00)	I			
TBM Tunnelling EB TBM Tunnelling CH6640-6665 B/I Plug 25m	1		18-Jan-22 18-Jan-22	29-Jan-22	13-Feb-22 13-Feb-22	_			TBM Tứn
			18-Jan-22 22-Mar-22	29-Jan-22 01-Feb-21 A	13-Feb-22 15-Feb-22		<u></u>		
SUB-SEA TUNNEL CROSS PASSAGE (CP7- CP TBM Design / Fabrication / FAT / Delivery	GPZ7a 3.		22-Mai-22 22-Mar-22	01-Feb-21 A	13-Jan-22				
Place Order	7		04-May-21	01-Feb-21 A		A Place Order	++		
Fabrication / Refurbishment	14		21-Jan-22	10-May-21 A	15-Nov-21				Fabric
Design	7		30-Jul-21	01-Jun-21 A	30-Jul-21 A		Design		
FAT	2		22-Feb-22	16-Nov-21	13-Dec-21				
Delivery of TBM components to the Site	2		22-Mar-22	14-Dec-21	13-Jan-22				
CP Precast Lining Fabrication	6		15-Feb-22	26-Nov-21	15-Feb-22		++-+		
Concrete Mix - Plant Trial	4) 26-Nov-21	14-Jan-22	26-Nov-21*	14-Jan-22				Concrete Mix
CP Precast Lining Segment - Mould Fabrication & Setup	2	4 15-Jan-22	15-Feb-22	15-Jan-22	15-Feb-22				
CHA KWO LING ROAD WORKS	3) 24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21	CHA KWO LING ROAD WORKS			
Wai Yip Street / Cha Kwo Ling Road Junction	3) 24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21	Wai Yip Street / Cha Kwo Ling Road Junction			
Reinstatement	3) 24-Apr-21	31-May-21	19-Apr-21 A	18-Oct-21			Reinstatement	
Section 8E Completion)	31-May-21		18-Oct-21			◆ Section 8E Corr	npletion
DRILL & BREAK TUNNEL [D&BR]	24	6 09-Apr-21	04-Feb-22	09-Apr-21 A	11-Feb-22				
Precast Fabrication	ę	6 09-Apr-21	03-Aug-21	09-Apr-21 A	18-Oct-21		▼ Precast Fabrication		
Precast Service Gallery - Mould Design	2	4 09-Apr-21	07-May-21	09-Apr-21 A	05-May-21 A	a ery - Mould Design			
Page 25 of 27	V	V Summary							Date Revision Checked Approved
Data Date: 02-Oct-21	•	•,		2018/0	14 Tru	nk Road T2 and Infras	tructure Works		18-Dec-19 00V1 WYu
CriticalActivity ♦ ♦ Actual Miestor	ne							BOUYGUES	22-Feb-20 01V0 SPa/LLo WYu
Actual Work	~			t	or De	velopments at South A	Apron	TRAVAUX PUBLICS	09-Apr-20 01V1 SPa/LLo WYu 17-JuI-20 01V2 SPa/LLo WYu
♦ ♦ Baseline Miest	tone			T I	N 4				09-Oct-20 01V3 SPa/LLo WYu
Baseline Bar				Inree	e ivion	ths Rolling Programme	e (Sep-21)		02-Jul-21 02V0 SPa/LLo WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	2022
						June July August September October November December 90 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02	January 09 16 23 D
Precast Service Gallery - Mould Fabrication & Setup	24	08-May-21	05-Jun-21	06-May-21 A	16-Ju l- 21 A		00 10 20 5
Precast Service Gallery - Mass Production Start	0	07-Jun-21		17-Ju l- 21 A		♦ Precast Service Gallery - Mass Production Start	
Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Jul-21 A	18-Oct-21	1 Precast Service Gallery	
Tunnel Excavation	214	06-Jul-21	04-Feb-22	28-Jun-21 A	11-Feb-22		iiiii
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	40	06-Ju l -21	14-Aug-21	28-Jun-21 A	06-Oct-21		
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	03-Oct-21	13-Dec-21		19055-9020 Туре D
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	39	15-Aug-21	22-Sep-21	07-Oct-21	14-Nov-21	21 EB-D&Br Tuniel - CH9040-9025 Type D- Exca	vation Top
Probe hole at CH9025	1	23-Sep-21	23-Sep-21	15-Nov-21	15-Nov-21		
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	16-Nov-21	25-Dec-21		Tunnel - CH9025-90
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	60	07-Dec-21	04-Feb-22	14-Dec-21	11-Feb-22		
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39	03-Nov-21	11-Dec-21	26-Dec-21	02-Feb-22		
DRILL & BLAST TUNNEL [D&BL]	332	14-Jan-21	28-Feb-22	05-Apr-21 A	05-Mar-22		·····
Tunnel Excavation	286	14-Jan-21	31-Dec-21	05-Apr-21 A	07-Jan-22		el Excavation
Eastbound	176	02-Jun-21	31-Dec-21	13-Apr-21 A	07-Jan-22		ound
Full Face Drill & Blast	176	02-Jun-21	31-Dec-21	13-Apr-21 A	07-Jan-22		ace Dril & Blast
EB - D&BI Tunnel - CH9088-9055 Type D - Excavation	26	02-Jun-21	03-Ju l- 21	13-Apr-21 A	25-Jun-21 A	A EB-D&BITunnel - CH9088-9055 Type D-Excavation	
EB - D&BI Tunnel - CH9160-9055 Type B/C/D - Enlargement	70	06-Ju l -21	25-Sep-21	18-Jun-21 A	13-Sep-21 A		
Probe hole at CH9055	1	05-Ju l -21	05-Ju l- 21	26-Jun-21 A	26-Jun-21 A	A B Probe hole at CH9055	
EB - D&BI Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	04-Oct-21	05-Nov-21	21 EB - D&BI Tunnel - Branch Tunnel SO	
EB - D&BI Tunnel - CH9240-9055 - Bench Excavation & SG	51	01-Nov-21	31-Dec-21	06-Nov-21	07-Jan-22		EB - D&BI Tunnel
Westbound	170	14-Jan-21	12-Aug-21	05-Apr-21 A	09-Oct-21	1 ₩ Westbound	
Full Face Drill & Blast	170	14-Jan-21	12-Aug-21	05-Apr-21 A	09-Oct-21		
WB - D&BI Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23-Ju l- 21 A		
WB - D&BI Tunnel - CH9188-9158 Type A - Excavation	44	01-Apr-21	28-May-21	08-Apr-21 A	22-May-21 A		
Probe hole at CH9158	1	29-May-21	29-May-21	24-May-21 A	24-May-21 A	1 A Probe hold at CH9158	
WB - D&BI Tunnel - CH9158-9138 Type A - Excavation	26	31-May-21	30-Jun-21	25-May-21 A	26-Jun-21 A	A WB - D&BI TunnelCH91 58-9138 Type A - Excavation	
WB - D&BI Tunnel - CH9258-9138 - SG Excavation	36	02-Ju l -21	12-Aug-21	26-Ju l- 21 A	09-Oct-21		
Tunnel Structure WB Type A	143	13-Aug-21	05-Feb-22	11-Oct-21	11-Feb-22		
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	11-Oct-21	08-Nov-21	21 WB - D&BI Tunhel - CH9258-9138 Type A - SG install	ation
WB - D&BI Tunnel - CH9258-9138 Type A - Base slab / Kicker	27	03-Jan-22	05-Feb-22	08-Jan-22	11-Feb-22		
WB - Rebar Gantry Type A Assembly	24	03-Jan-22	29-Jan-22	08-Jan-22	08-Feb-22		
WB - W/P Gantry Type A Assembly	18	13-Jan-22	05-Feb-22	19-Jan-22	11-Feb-22		
Tunnel Structure EB Type A	48	06-Dec-21	05-Feb-22	11-Dec-21	11-Feb-22		
EB - D&BI Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	11-Dec-21	11-Jan-22		EB-D&BITunn
EB - D&BI Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05-Feb-22	12-Jan-22	11-Feb-22		
Cross Passage	195	06-Jul-21	28-Feb-22	04-Oct-21	05-Mar-22		
CP31	16	06-Ju l -21	23-Ju l- 21	04-Oct-21	22-Oct-21		
CP31 - D&BI Excavation 16.7m	16	06-Ju l -21	23-Ju l- 21	04-Oct-21	22-Oct-21	1 CP31 - D&BI Excavation: 16.7m	
CP33	46	03-Jan-22	28-Feb-22	08-Jan-22	05-Mar-22		
EB - D&BI Tunnel - CP33 48m	46	03-Jan-22	28-Feb-22	08-Jan-22	05-Mar-22		
EAST VENTILATION BUILDING [EVB]	156	10-Sep-21	21-Mar-22	13-Mar-21 A	12-Apr-22	2	
Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	20-Dec-21		
Westbound Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	20-Dec-21		avation
Foundation / Portal Structure	90	30-Nov-21	21-Mar-22	21-Dec-21	12-Apr-22	▲ · · · · · · · · · · · · · · · · · · ·	
Westbound	90	30-Nov-21	21-Mar-22	21-Dec-21	12-Apr-22		
EVB - WB Earth Mat Installation	12	30-Nov-21	13-Dec-21	21-Dec-21	06-Jan-22		EVB - WB Earth Mat
			_				
Page 26 of 27		Summary				Date Revision Checked	Approved
Data Date: 02-Oct-21			ED/2	2018/0	4 Trur	unk Road T2 and Infrastructure Works	

Actual Milestone
 Actual Work

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Baseline Milestone
 Baseline Bar

Critical Activity

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

Three Months Rolling Programme (Sep-21)

	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	y Name	Dur	02V0 Start	02V0 Finish	Start	Finish									2	022															
								June				July		A	ugust		S	eptember			October			Nove	mber		De	cember		Ja	nuary
							30	06 13	20	27	04 1'	1 18	25	01 08	15	22 2	9 05	12 19	9 26	03	10 1	7 24	31	07	14 21	28	05	12 19	9 26	02 09	16 23)
	EVB - WB Drainage & Blinding	18	14-Dec-21	06-Jan-22	07-Jan-22	27-Jan-22																									E
	EVB - WB Foundation & SG Level Walls & Slab	60	07-Jan-22	21-Mar-22	28-Jan-22	12-Apr-22																									
	TUNNEL E&M INSTALLATION & COMMISSIONING	86	17-Sep-21	31-Dec-21	01 - Nov-21	15-Feb-22												-												TUNNEL E	&M IN\$TALLA
	TKO-LTT Admin Building	86	17-Sep-21	31-Dec-21	01-Nov-21	15-Feb-22												V ;				:	1	1		1			Y	TKOLTT	Admin Building
	Material Delivery	6	17-Sep-21	24-Sep-21	01-Nov-21*	06-Nov-21													-					Materi	al Delivery						
	Cable Trunking and Tray Installation	36	25-Sep-21	08-Nov-21	08-Nov-21	18-Dec-21																:	:	-				_ с	able Trun	king and Tr	ay Installation
	Submain Power Supply Installation	12	25-Sep-21	09-Oct-21	08-Nov-21	20-Nov-21													-	—				-	📕 Sub	main Po	wer \$u	pplyinst	tallation		
	Conduit Installation	24	11-Oct-21	08-Nov-21	22-Nov-21	18-Dec-21															-			-	_				onduit In s	talation	
	Cable Pulling	24	11-Oct-21	08-Nov-21	22-Nov-21	18-Dec-21																	1	-	_				able Pu l i	ng	
	Final Circuit Installation	8	09-Nov-21	17-Nov-21	20-Dec-21	30-Dec-21																		-	-			-		1	t Installation
	Testing & Commissioning	36	18-Nov-21	31-Dec-21	31-Dec-21	15-Feb-22																									

			I				
Page 27 of 27	Milestone Summary Planned Bar			Date 18-Dec-19	Revision 00V1	Checked WYu	Approved
Data Date: 02-Oct-21	Critical A divity	ED/2018/04 Trunk Road T2 and Infrastructure Works			01V0	SPa/LLo	WYu
	Actual Milestone	for Developments at South Apron	BOUYGUES TRAVAUX PUBLICS	09-Apr-20	01V1	SPa/LLo	WYu
	Actual Work		TRAVAUX PUBLICS	17-Jul-20	01V2	SPa/LLo	WYu
	Baseline Bar	Three Months Rolling Programme (Sep-21)			01V3	SPa/LLo	WYu
		(Sep-21)		02-Jul-21	02V0	SPa/LLo	WYu

APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD Monthly Summary Waste Flow Table for 2021 (KT) 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	Quantities of	f C&D Waste	s Generated I	Nonthly
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	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	22.430	4.842	0.500	21.540	0.390	0.000	173.190	0.200	0.000	0.600	0.130
February	23.765	5.428	0.390	23.240	0.135	0.000	50.360	0.000	0.000	0.000	0.090
March	41.630	5.679	0.000	41.497	0.133	0.000	295.980	0.000	0.000	2.400	0.120
April	26.409	9.446	0.820	24.043	1.546	0.000	273.540	0.660	0.000	3.000	0.100
May	33.370	9.878	0.397	11.781	21.192	0.000	113.200	0.000	0.000	0.000	0.080
June	39.039	5.817	0.450	37.130	1.459	0.000	97.600	0.340	0.000	2.800	0.090
Sub-total	186.642	41.091	2.557	159.230	24.855	0.000	1003.870	1.200	0.000	8.800	0.610
July	6.177	0.000	2.250	0.000	3.927	0.000	237.620	0.719	0.000	0.000	0.127
August	20.108	0.312	0.000	0.312	19.796	0.000	55.520	0.000	0.000	0.000	0.183
September	0.490	0.000	0.000	0.000	0.490	0.000	0.000	0.484	0.000	2.200	0.279
October	0.000										
November	0.000										
December	0.000										
Total	213.417	41.403	4.807	159.542	49.068	0.000	1297.010	2.403	0.000	11.000	1.199

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).