Civil Engineering and Development Department

Trunk Road T2

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

October 2021

(Version 1.0)

Approved By		_
	(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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Ref.: CEDKTDT2EM00_0_0281L.21

12 November 2021

By Post and Email

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

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

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

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for October 2021 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 12 November 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 20th 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 October 2021.

Summary of Main Works Undertaken and Key Measures Implemented

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

Kai Tak:

- Depressed Road Capping Beam
- Depressed Road- Base Slab
- Depressed Road Drainage Installation
- Depressed Road South Apron Adit Wall
- Depressed Road DCS Pipes Installation
- Depressed Road Road Slab
- SUS Remedial Works General Defect
- SUS Remedial Works Leakage
- West Ventilation Building Steel Deck Erection
- West Ventilation Building Excavation
- West Ventilation Building Steel Strut Installation
- Launching Shaft Tympanum
- Launching Shaft- Cell1 Base Slab
- C&C / SUS Bulkhead removal
- C&C S6 & S5 Removal
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM Delivery
- TBM Shifting Way & Rails installation
- Road S20 / AMAWBC Road & Drain
- Section 6A Junction RC Structure
- Road L10 (North) ELS Part 2
- Road L10 (North) Excavation
- Road L10 (North) RC Structure
- Road L18 Sheet Pile
- District Cooling System (DCS) Section 6B
- District Cooling System (DCS) Section 7A
- Foot Bridge (FT-02) H Pile Installation
- Foot Bridge (FT-02) Temporary Ramp Construction
- Mortal Plant Assembly
- Segment Yard Gantry Crane Erection
- Workshop Civil Works
- STP Civil Works

STP Assembly

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 (October 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

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

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

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

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

Site Activities (November 2021)	Key Environmental Issues
1. Depressed Road- Road Slab	
2. TBM Assembly, Sifting way & Rails installation	
3. C&C Permanent Base Slab, S5 & S6 Removal	$(\mathbf{A})/(\mathbf{B})/(\mathbf{C})/(\mathbf{D})$
4. Road L10 - RC Structure	(A) / (B) / (C) / (D)
5. CUE Section 6A Junction- RC structure	
6. Workshop Assembly	

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

7. According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring 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

Under Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for 1.4 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 20th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in October 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	Role Contact Person		Phone No.	
CEDD	Permit Holder Mr. Wong Chi Wai, Tommy		3842 7111	
HMJV	Supervisor Representative	Mr. Joe Nam	5183 0830	
Cinatash	h Environmental Team	Mr. KS Lee (ETL)	2151 2091	
Cinotech		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:

- Depressed Road Capping Beam
- Depressed Road- Base Slab
- Depressed Road Drainage Installation
- Depressed Road South Apron Adit Wall
- Depressed Road DCS Pipes Installation
- Depressed Road Road Slab
- SUS Remedial Works General Defect
- SUS Remedial Works Leakage
- West Ventilation Building Steel Deck Erection
- West Ventilation Building Excavation
- West Ventilation Building Steel Strut Installation
- Launching Shaft Tympanum
- Launching Shaft- Cell1 Base Slab
- C&C / SUS Bulkhead removal
- C&C S6 & S5 Removal
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM Delivery
- TBM Shifting Way & Rails installation
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- District Cooling System (DCS) Section 7A
- Foot Bridge (FT-02) H Pile Installation
- Foot Bridge (FT-02) Temporary Ramp Construction
- Mortal Plant Assembly
- Segment Yard Gantry Crane Erection
- Workshop Civil Works
- STP Civil Works
- STP Assembly

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 October 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

	Valid Period			
Permit / License No.	From	То	Status	
Environmental Permit (EP)				
EP-451/2013	19 Sep 2013	N/A	Valid	
Notification pursuant to Air Pollution (Const	truction Dust) R	Regulation		
Ref. No.: 451120	20 Nov 2019	N/A	Valid	
Billing Account for Construction Waste Disp	osal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid	
Billing Account for Vessel Disposal				
A/C No.:7037747 (Application No.: CEDD01118)	29 Jun 2021	25 Oct 2021	Expired on 25 Oct 2021	
A/C No.:7037747 (Application No.: CEDD01126)	20 Oct 2021	25 Jan 2022	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	Expired on 27 Oct 2021	
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	

	Valid Period			
Permit / License No.			Status	
	From	То	~~~~~~	
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	Expired on 10 Oct 2021	
CNP No. (For Depressed Road): GW- RE0887-21	14 Sep 2021	28 Feb 2022	Valid	
CNP No. (For Depressed Road and Support Area): GW-RE0992-21	15 Oct 2021	13 Apr 2022	Valid	
CNP No. (For Launching Shaft and Barging Point): GW-RE1022-21	27 Oct 2021	26 Dec 2021	Valid	
Wastewater Discharge License				
WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid	
WT00036228-2020 (For Launching Shaft)	27 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 Quanty 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
	1956, 10595, 1316, 5280)	
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
	(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 0.3µm diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
 - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
 - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
 - The shelter lid was closed and secured with the aluminum strip.
 - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
 - After sampling, the filter was removed and sent to the HOKLAS laboratory (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., Loading 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 (October 2021), µg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	72.0
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	93.5
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	141.1
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	88.2
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	80.9

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**.

1 abit 3.2	inc 5.2 Frequency and Farameters of Noise Montoring				
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. 580156, 580287)	2
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}, L₉₀ and L₁₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 3.7 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 3.4Other 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 (October 2021), Leq (30min) dB(A)
KTD 1 - Centre of Excellence in Paediatrics	KTD1	74	71.1
(Children's Hospital) KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	63.1
KER 1 – Future Residential Development at Kerry Godown	KER1	75	74.9
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	71.1
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	72.0

 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 08, 15, 20 and 28 October 2021 in the reporting month. Site inspection of the IEC was conducted on 20 October 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
	20 October 2021	Site area in which dust is likely to be generated shall be watered regularly to minimize dust generation	Water spraying to minimize dust generation was observed.
Air Quality	20 October 2021	The valid NRMM labels shall be displayed at a conspicuous position of regulated machines	The NRMM label of mini- bulldozer was displayed. For the generator, the contractor confirmed that such PME will not be operated at this time, and the valid NRMM will be displayed while operation of such PME is required
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	20 October 2021	Manholes in the vicinity of site boundary shall be covered or sealed to prevent muddy surface runoff accidentally discharge into drainage system	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
Water Quality	23 September 2021	Contractor is reminded to provide bund to surround the site area for flood protection.	Sand bags were provided for flood protection
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 (September 2021)	20 October 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 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
- 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 20th 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 4 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:

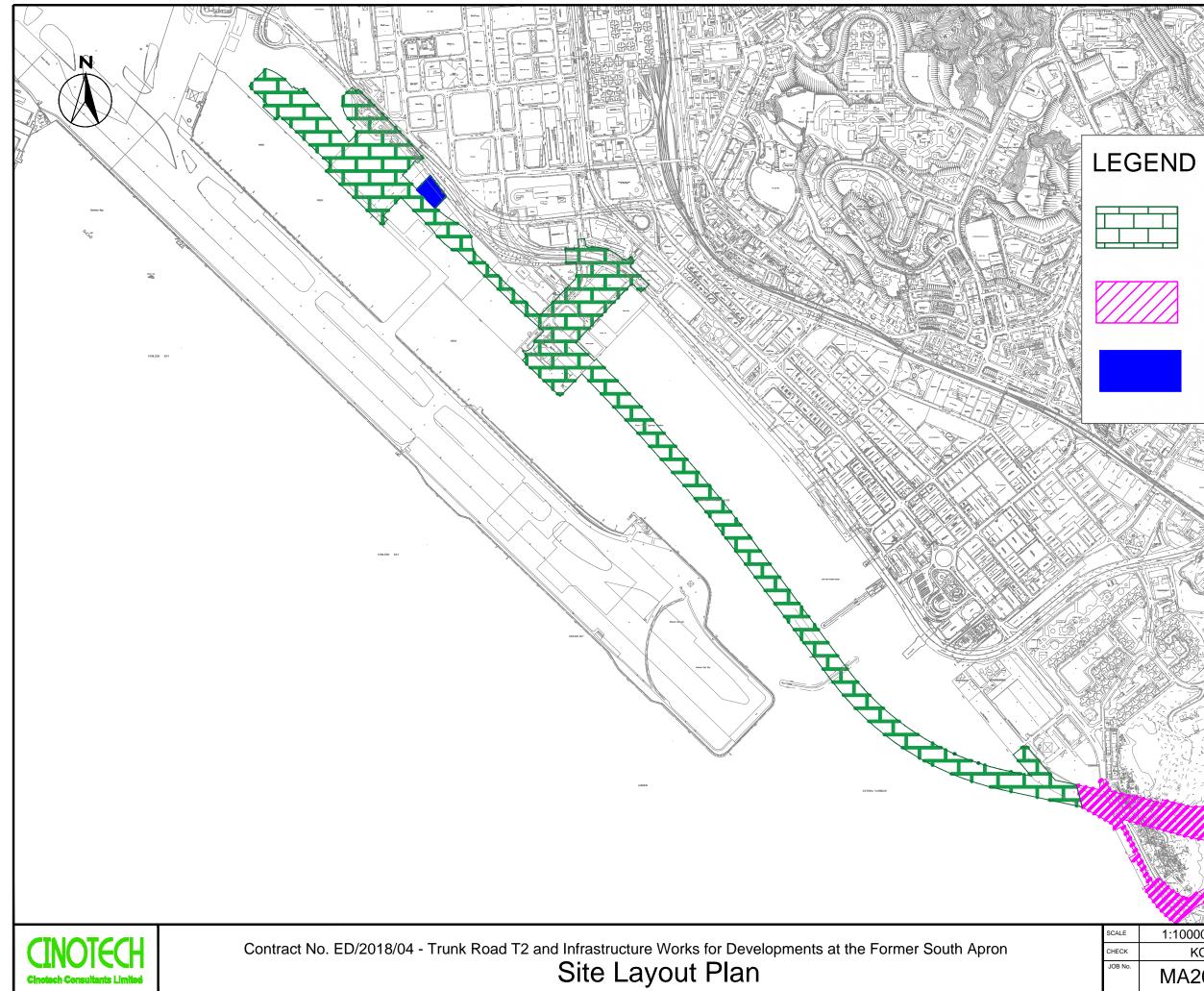
Water Quality

• Channels, earth bunds or sand bag barriers should be provided to divert the surface runoff to the silt removal facilities.

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.
- Watering of the construction areas 12 times per day to reduce dust emissions.
- Valid NRMM labels should be displayed at a conspicuous position of the regulated machines.

FIGURES



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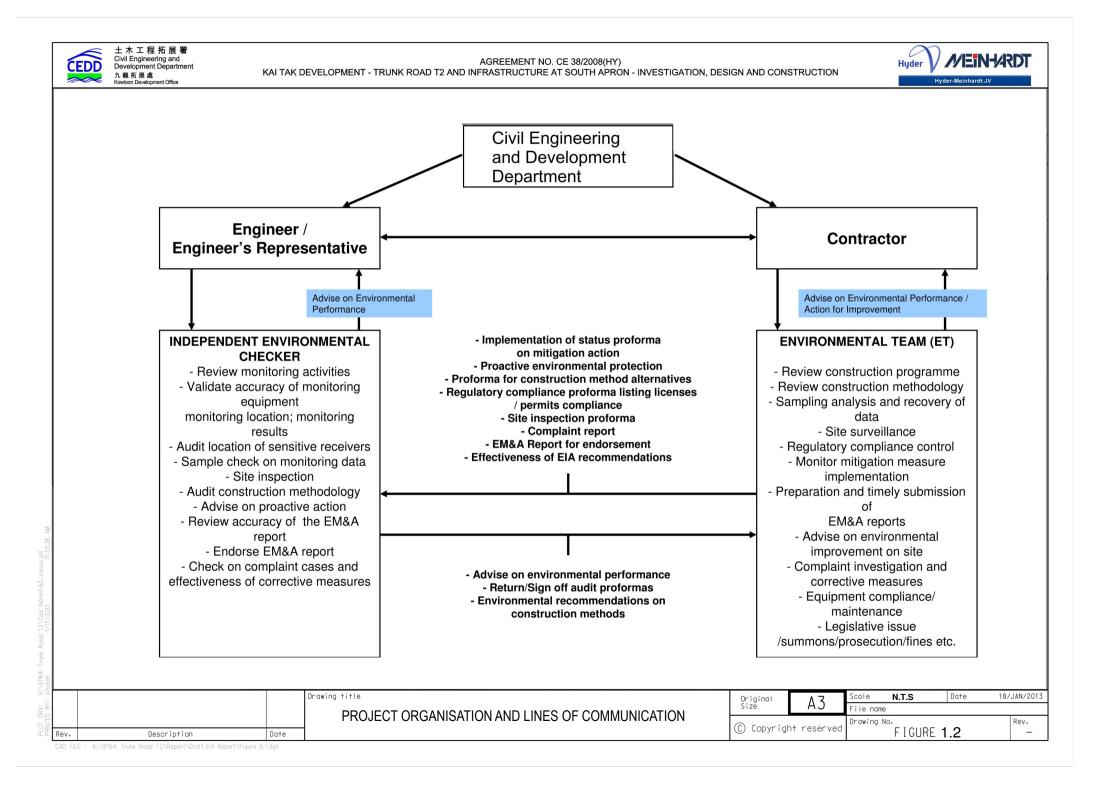
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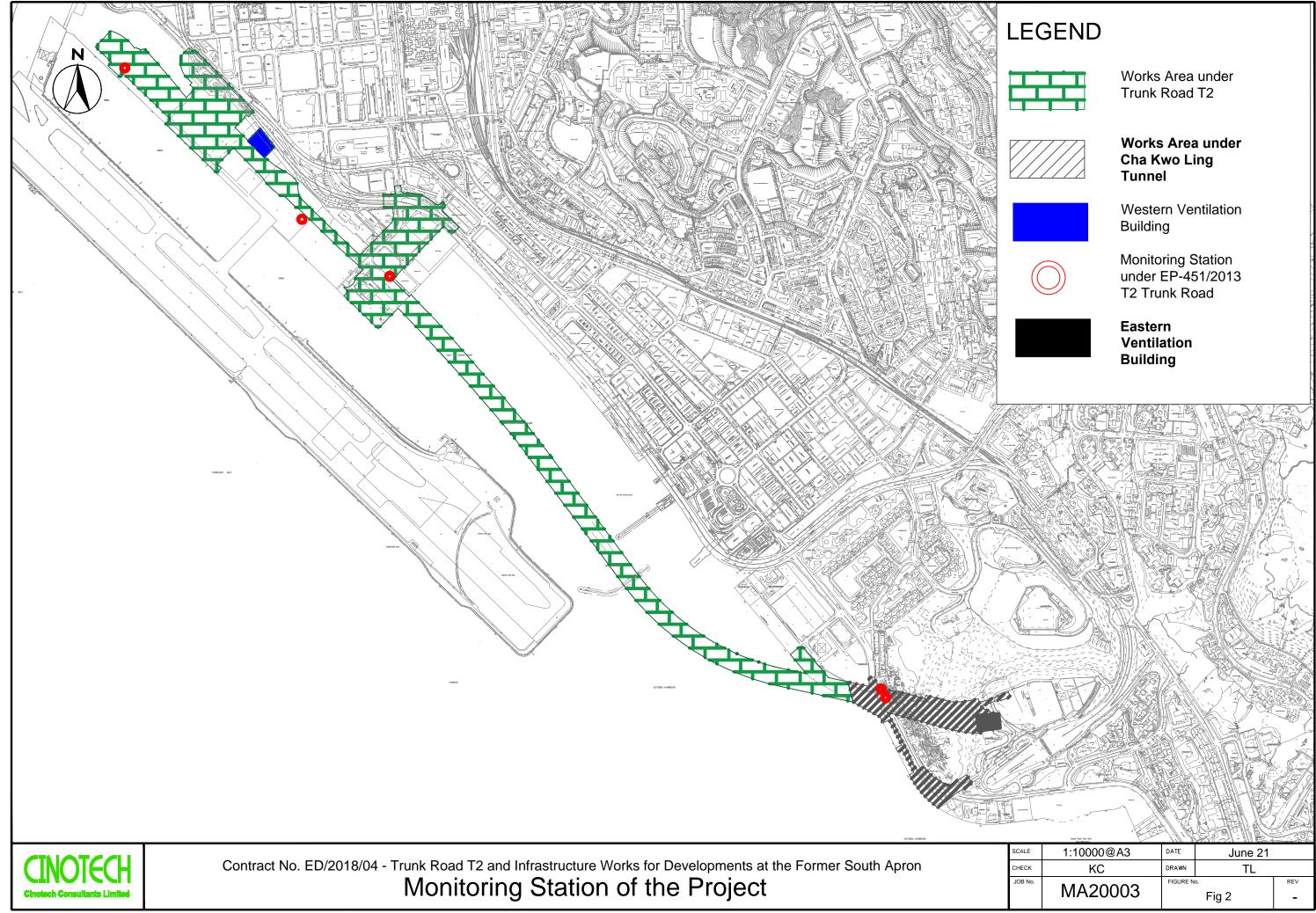
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

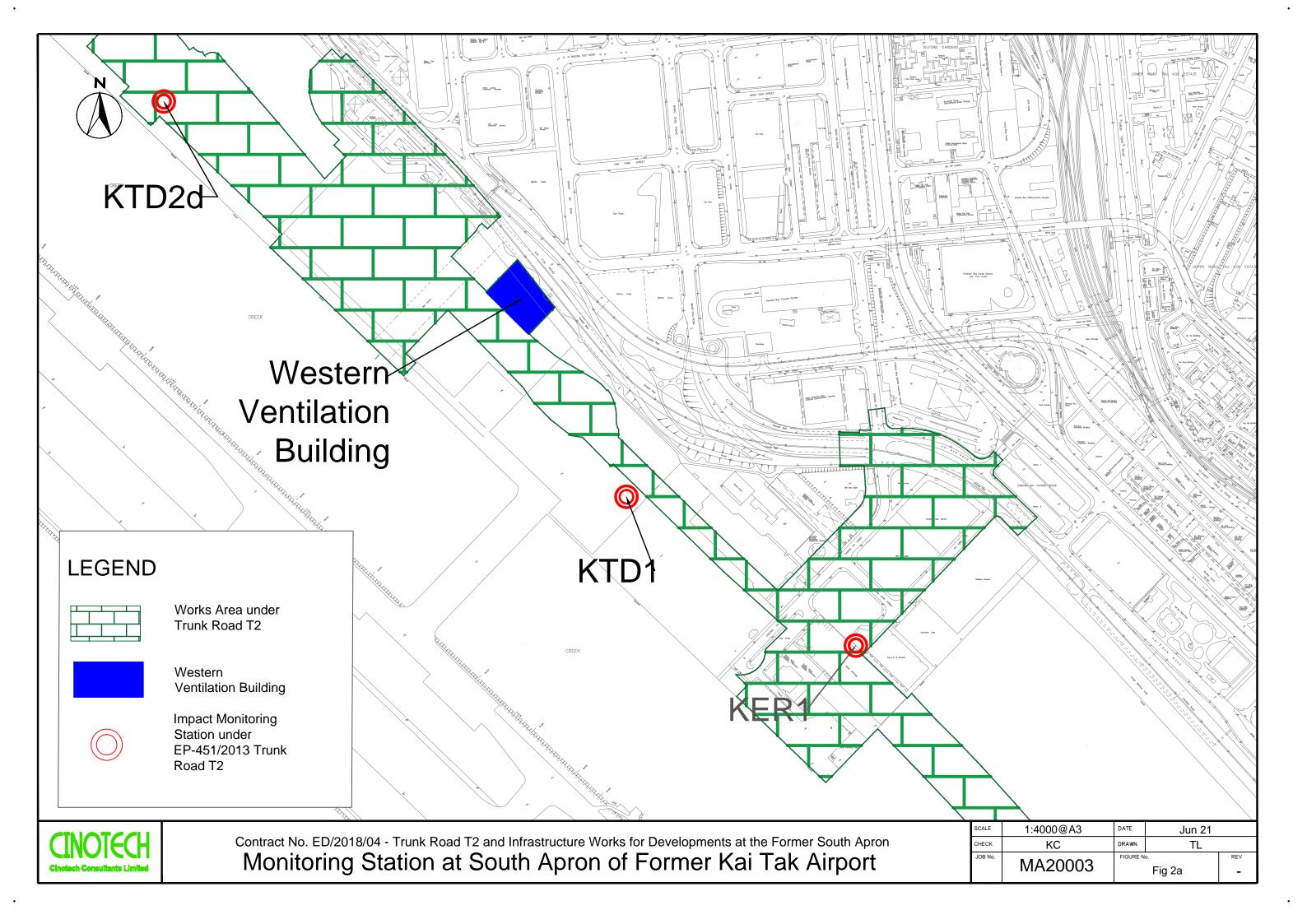
Ventilation Building

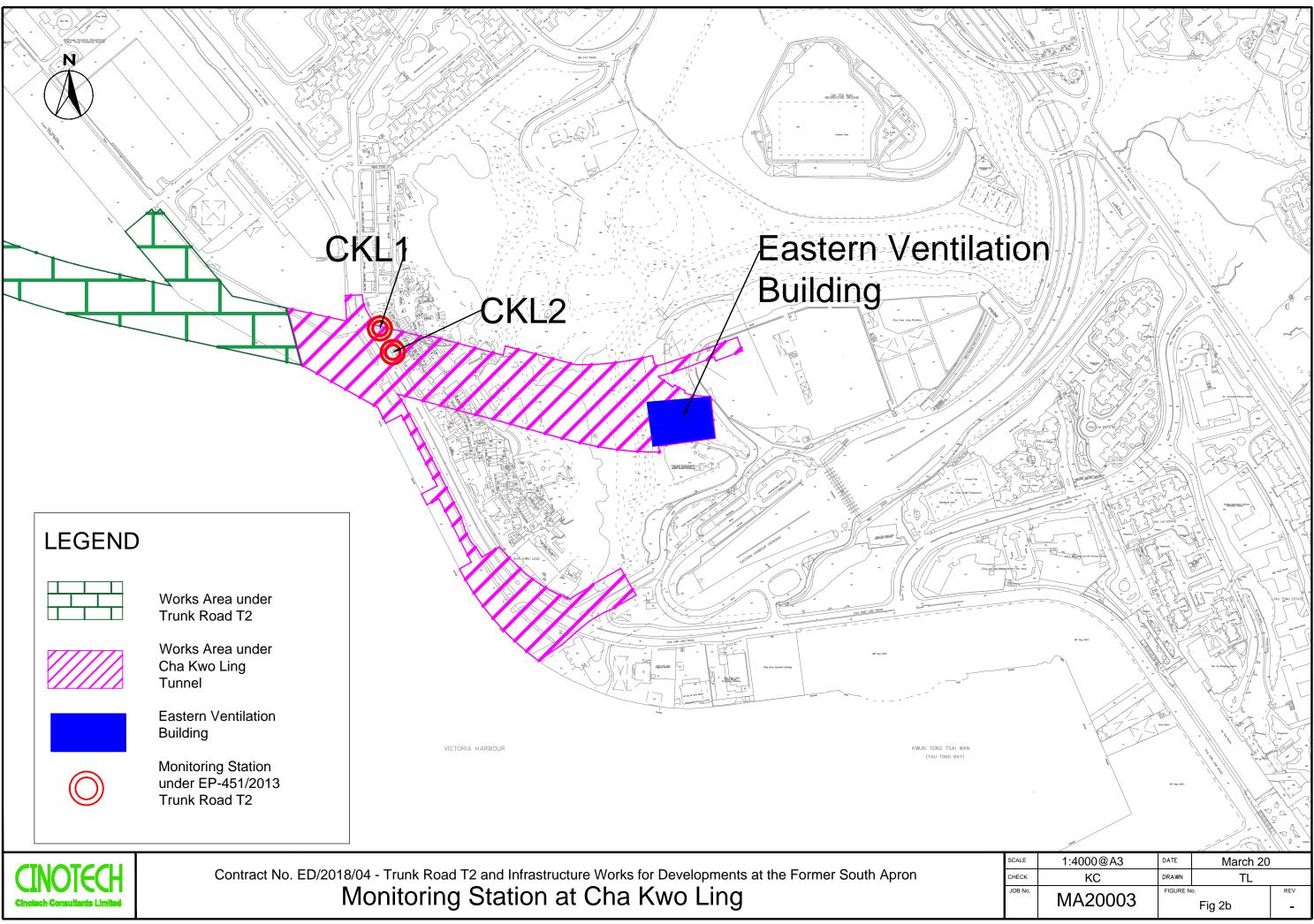
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APPENDIX A ACTION AND LIMIT LEVELS

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 (October 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
					1-Oct
3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
	24-hr TSP	Noise			
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
	N. 1				
	Noise		24-hr TSP		
17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
		24-hr TSP	Noise		
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
	24-hr TSP	Noise			
31-Oct					
The schedule may be cha		· · · · · · · · · · · · · · · · · · ·	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		

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

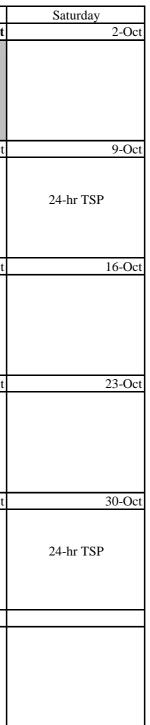
24-hr TSP

- 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

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

Noise Monitoring Station



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
	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
	Noise			24-hr TSP	
7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov
			24-hr TSP	Noise	
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
		24-hr TSP	Noise		
21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
	24-hr TSP	Noise			
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

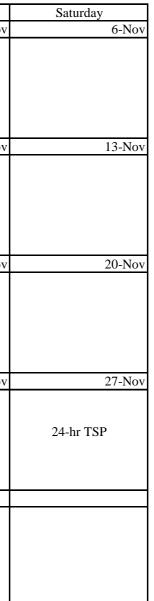
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

KTD1 - Centre of Excellence in 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 Impact Air and Noise Monitoring Schedule (December 2021)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
			1-Dec	2-Dec	3-Dec
				24-hr TSP	
5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
			24-hr TSP	Noise	
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
		24-hr TSP	Noise		
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-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

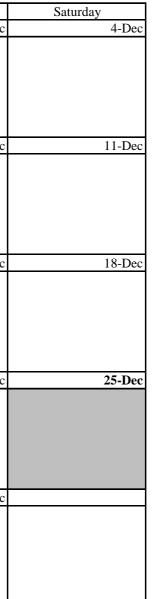
- KTD1 Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area
- KER1 Future Residential Development at Kerry Godown

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



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 (January 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
		24-hr TSP	Noise		
9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
	24-hr TSP	Noise			
16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	Noise			24-hr TSP	
23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
			24-hr TSP	Noise	
			2.1		
30-Jan	31-Jan				
The eshe dale men he she	anged due to unforeseen (····· (. 1	and have a sufficient of the second second		

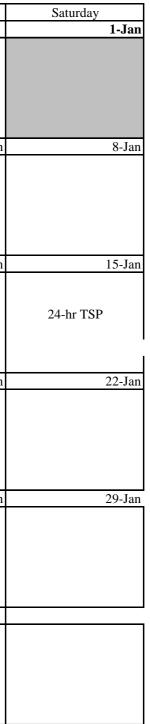
The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**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



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





Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11, 2021 Rootsr			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	1.4073		0.9957	0.6881	0.8899	
	0.9818	0.9616	1.9902		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	2.3337		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-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$				Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd						RECA	LIBRATION	
Pstd	760	mm Hg						400
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-
		ter reading (i					Regulations Part	
		eter reading perature (°K)					, Reference Meth	
		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

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File No. MA20003/44/0009

Project No.	KTD1 - Centre	e of Excellence in				
Date:	2-0	Dct-21	Next Due Date:	2-Dec-21	Operator:	SK
Equipment No.:	A-01-44 Model 1		Model No.:	TE-5170	Serial No.	1316
			Ambient Conditi	on		
Temperatu	re, Ta (K)	303	Pressure, Pa (mmH	[g)	758.1	

Orifice Transfer Standard Information						
Serial No.	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	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.6	3.65	62.54	9.2	3.00		
2	11.2	3.31	56.75	7.2	2.66		
3	8.2	2.84	48.57	5.6	2.34		
4	5.6	2.34	40.15	3.3	1.80		
5	3.2	1.77	30.36	1.8	1.33		
Slope, mw =	ression of Y on X 0.0520		Intercept, bw	-0.251	5		
	coefficient* =	0.9978	_				
*If Correlation (Coefficient < 0.99	0, check and recalibrate.					
		Set Point C	Calculation				
From the TSP Fi	ield 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 (98/Ta)] ^{1/2} 4.01			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature		<u>Д. </u>	Date: 2-Oct-21		
Checked by:	Henry 1	Leung Signature	: \-lem	, Xoy	Date: 2-Oct-21		

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File No. MA20003/04/0008

Project No.	KER 1 - Future	e Residential De	velopment at Kerry Godow	vn			
Date:	2-0	Det-21	Next Due Date:	2-Dec-21	Operator:	SK	
Equipment No.:	A-0	01-04	Model No.:	TE 5170	Serial No.	10595	
			Ambient Conditi	on			
Temperatu	ure, Ta (K)	303	Pressure, Pa (mmH	łg)	758.1		

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	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$		
1	13.4	3.63	62.07	9.1	2.99		
2	10.6	3.22	55.22	7.0	2.62		
3	8.4	2.87	49.16	5.6	2.34		
4	5.2	2.26	38.69	3.2	1.77		
5	3.0	1.72	29.40	2.1	1.44		
Slope, mw =	ression of Y on X 0.0482 coefficient* =		Intercept, bw	-0.028	80		
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.					
		Set Point C	alculation				
		urve, take Qstd = 43 CFM					
	-	e "Y" value according to mw x Qstd + bw = [ΔW v x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.26			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	<u>у</u>	Date: 2-Oct-21		
Checked by:	Henry	Leung Signature	:_ \-len	N- - Nor	Date: 2-Oct-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.:	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 = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -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	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			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = Intercept, bw : Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation							
		urve, take Qstd = 43 CFM e "Y" value according to						
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 25-Sep-21			
Checked by:	Henry I	Leung Signature:	- le-	N. Jan J	Date: 25-Sep-21			



File No. MA20003/55/0010

Project No.	CKL 2 - Flat 10)3 Cha Kwo Lin	g Village			
Date:	6-S	ep-21	Next Due Date:	6-Nov-21	Operator:	SK
Equipment No.:	A-(01-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Condition	on		
Temperatu	re, Ta (K)	302.7	Pressure, Pa (mmH	(g)	757.8	
				T. C		

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc 0.05846 Intercept, bc -0.00313					
Last Calibration Date:	11-Jan-21	1	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		50) x (298/Ta)] ^{1/2} 7-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 Regr Slope , mw =			Intercept, bw =	-0.283	31	
Correlation of	coefficient* =	0.9979	_			
*If Correlation C	coefficient < 0.99	0, check and recalibrate.				
		Set Point C	alculation			
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM				
From the Regress	sion Equation, the	e "Y" value according to				
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (my	$(x + y)^{2} (760 / Pa) x (760 / Pa) x ($	Ta / 298) =	4.40		
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date:	6-Sep-21
Checked by:	Henry 1	Leung Signature:	- lan	J Jan J	Date:	6-Sep-21



File No. MA20003/18/0010

Project No.	CKL 1 - Flat 1	21 Cha Kwo Ling				
Date:	6-S	Sep-21	Next Due Date:	6-Nov-21	Operator:	SK
Equipment No.:	A-	01-18	Model No.:	TE 5170	Serial No.	0723
			Ambient Condi	tion		
Temperatu	re, Ta (K)	302.7	Pressure, Pa (mml	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 = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			$(1)^{1/2}$	
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

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File No. MA20003/44/0008

Project 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 = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$] ^{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	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$			
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			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = 0.0516 Intercept, 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			

CIN@TECH 🤳

File No. MA20003/04/0007

Project No.	ect No. KER 1 - Future Residential Development at Kerry Godown						
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 = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$] ^{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	$[\Delta H \ge (Pa/760) \ge (298/Ta)]^{1/2}$	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	
Slope, mw =	ression of Y on X 0.0457		Intercept, bw	0.048	3	
	coefficient* =	0.9970	_			
*If Correlation (Coefficient < 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 = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature	<u> </u>	<u>у</u>	Date: 2-Aug-21	
Checked by:	Henry I	Leung Signature	: \-len	, dran	Date: 2-Aug-21	

APPENDIX D WEATHER INFORMATION

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

Appendix D - Weather Conditions During Impact Monitoring	g Period
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(Reporting Month: October 2021)

Remarks:

Source - Hong Kong Observatory

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

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

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

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

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

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

October 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
11 Oct 2021	3:00 PM	SSE	0.1	
11 Oct 2021	4:00 PM	Е	0.1	
11 Oct 2021	5:00 PM	ENE	0.3	
11 Oct 2021	6:00 PM	ENE	0.1	
11 Oct 2021	7:00 PM	NE	0.1	
11 Oct 2021	8:00 PM	ENE	0.1	
11 Oct 2021	9:00 PM	NE	0.1	
11 Oct 2021	10:00 PM	ENE	0.1	
11 Oct 2021	11:00 PM	ENE	0.1	
12 Oct 2021	12:00 AM	ENE	0.1	
12 Oct 2021	1:00 AM	ENE	0.1	
12 Oct 2021	2:00 AM	NE	0.1	
12 Oct 2021	3:00 AM	Е	0.1	
12 Oct 2021	4:00 AM	Е	0.1	
12 Oct 2021	5:00 AM	NNE	0.1	
12 Oct 2021	6:00 AM	ENE	0.1	
12 Oct 2021	7:00 AM	NE	0.1	
12 Oct 2021	8:00 AM	NE	0.1	
12 Oct 2021	9:00 AM	NNE	0.3	
12 Oct 2021	10:00 AM	ENE	0.2	
12 Oct 2021	11:00 AM	NE	0.1	
12 Oct 2021	12:00 PM	ENE	0.1	
12 Oct 2021	1:00 PM	ENE	0.2	
12 Oct 2021	2:00 PM	ENE	0.1	
12 Oct 2021	3:00 PM	Е	0.1	
12 Oct 2021	4:00 PM	Е	0.3	
12 Oct 2021	5:00 PM	ENE	0.5	
12 Oct 2021	6:00 PM	ENE	0.1	
12 Oct 2021	7:00 PM	NE	0.1	
12 Oct 2021	8:00 PM	NE	0.1	
12 Oct 2021	9:00 PM	ENE	0.1	
12 Oct 2021	10:00 PM	Е	0.1	
12 Oct 2021	11:00 PM	ESE	0.1	
13 Oct 2021	12:00 AM	NE	0.1	
13 Oct 2021	1:00 AM	ENE	0.4	
13 Oct 2021	2:00 AM	ENE	0.6	
13 Oct 2021	3:00 AM	NE	0.6	
13 Oct 2021	4:00 AM	NE	0.4	
13 Oct 2021	5:00 AM	NNE	0.5	
13 Oct 2021	6:00 AM	ENE	0.7	
13 Oct 2021	7:00 AM	Е	0.8	
13 Oct 2021	8:00 AM	NE	0.9	
13 Oct 2021	9:00 AM	NNE	0.8	
13 Oct 2021	10:00 AM	ENE	1.2	
13 Oct 2021	11:00 AM	NE	1.1	
13 Oct 2021	12:00 PM	ENE	1.2	
13 Oct 2021	1:00 PM	NNE	1.3	
13 Oct 2021	2:00 PM	NE	1.1	
13 Oct 2021	3:00 PM	Е	0.9	
13 Oct 2021	4:00 PM	ENE	1.1	
13 Oct 2021	5:00 PM	NE	0.8	

October 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
13 Oct 2021	6:00 PM	ENE	1.7	
13 Oct 2021	7:00 PM	SW	1.9	
13 Oct 2021	8:00 PM	S	1.2	
13 Oct 2021	9:00 PM	SE	1.6	
13 Oct 2021	10:00 PM	S	1.5	
13 Oct 2021	11:00 PM	SE	0.3	
14 Oct 2021	12:00 AM	ESE	0.5	
14 Oct 2021	1:00 AM	SSE	0.8	
14 Oct 2021	2:00 AM	ENE	0.3	
14 Oct 2021	3:00 AM	ESE	0.3	
14 Oct 2021	4:00 AM	ENE	0.3	
14 Oct 2021	5:00 AM	Е	0.4	
14 Oct 2021	6:00 AM	NE	1.5	
14 Oct 2021	7:00 AM	E	0.6	
14 Oct 2021	8:00 AM	ESE	0.8	
14 Oct 2021	9:00 AM	ENE	0.9	
14 Oct 2021	10:00 AM	ESE	0.4	
14 Oct 2021	11:00 AM	ENE	1.2	
14 Oct 2021	12:00 PM	ENE	1.2	
14 Oct 2021	1:00 PM	SE	1.5	
14 Oct 2021	2:00 PM	E	0.5	
14 Oct 2021	3:00 PM	ESE	1.3	
14 Oct 2021 14 Oct 2021	4:00 PM	NE	0.2	
14 Oct 2021 14 Oct 2021	5:00 PM	ENE	1.1	
14 Oct 2021 14 Oct 2021	6:00 PM	E	0.5	
14 Oct 2021 14 Oct 2021	7:00 PM	NNW	0.9	
14 Oct 2021 14 Oct 2021	8:00 PM	ENE	0.9	
14 Oct 2021 14 Oct 2021	9:00 PM	N ENE	0.3	
14 Oct 2021 14 Oct 2021	10:00 PM	ENE	0.4	
14 Oct 2021 14 Oct 2021	10:00 PM 11:00 PM	E	0.3	
14 Oct 2021 15 Oct 2021	12:00 AM	E	0.2	
	12.00 AM 1:00 AM		0.1	
15 Oct 2021		E		
15 Oct 2021	2:00 AM	ENE	0.8	
15 Oct 2021	3:00 AM	ENE	0.1	
15 Oct 2021	4:00 AM	E	0.1	
15 Oct 2021	5:00 AM	NNE ENE	0.2	
15 Oct 2021	6:00 AM	ENE	0.2	
15 Oct 2021	7:00 AM	ENE	0.2	
15 Oct 2021	8:00 AM	ENE	0.1	
15 Oct 2021	9:00 AM	ESE	0.1	
15 Oct 2021	10:00 AM	NE	0.4	
15 Oct 2021	11:00 AM	ENE	1.5	
15 Oct 2021	12:00 PM	ENE	0.2	
15 Oct 2021	1:00 PM	E	1.2	
15 Oct 2021	2:00 PM	WSW	0.2	
15 Oct 2021	3:00 PM	N	0.2	
15 Oct 2021	4:00 PM	SW	0.1	
15 Oct 2021	5:00 PM	NE	0.6	
15 Oct 2021	6:00 PM	NE	0.2	
15 Oct 2021	7:00 PM	SE	0.2	
15 Oct 2021	8:00 PM	NE	0.1	

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

October 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
18 Oct 2021	12:00 AM	NE	0.2	
18 Oct 2021	1:00 AM	Ν	1.6	
18 Oct 2021	2:00 AM	Е	0.4	
18 Oct 2021	3:00 AM	ENE	0.3	
18 Oct 2021	4:00 AM	NE	0.4	
18 Oct 2021	5:00 AM	Е	0.3	
18 Oct 2021	6:00 AM	NE	0.3	
18 Oct 2021	7:00 AM	NE	0.2	
18 Oct 2021	8:00 AM	ENE	0.1	
18 Oct 2021	9:00 AM	NE	0.2	
18 Oct 2021	10:00 AM	Е	0.2	
18 Oct 2021	11:00 AM	ENE	0.7	
18 Oct 2021	12:00 PM	NNW	0.1	
18 Oct 2021	1:00 PM	NE	0.2	
18 Oct 2021	2:00 PM	NE	0.2	
18 Oct 2021	3:00 PM	NNE	0.4	
18 Oct 2021	4:00 PM	ENE	0.2	
18 Oct 2021	5:00 PM	ENE	0.2	
18 Oct 2021	6:00 PM	ESE	0.2	
18 Oct 2021	7:00 PM	ENE	0.1	
18 Oct 2021	8:00 PM	ESE	0.2	
18 Oct 2021	9:00 PM	NNE	1.8	
18 Oct 2021	10:00 PM	NE	0.8	
18 Oct 2021	11:00 PM	NNE	0.7	
19 Oct 2021	12:00 AM	NE	0.1	
19 Oct 2021	1:00 AM	NE	0.1	
19 Oct 2021	2:00 AM	NE	0.3	
19 Oct 2021	3:00 AM	ENE	0.2	
19 Oct 2021	4:00 AM	ESE	0.2	
19 Oct 2021	5:00 AM	SSE	0.1	
19 Oct 2021	6:00 AM	NE	0.6	
19 Oct 2021	7:00 AM	NE	0.2	
19 Oct 2021	8:00 AM	ENE	0.7	
19 Oct 2021	9:00 AM	ENE	0.4	
19 Oct 2021	10:00 AM	ESE	1.5	
19 Oct 2021	11:00 AM	NE	0.1	
19 Oct 2021	12:00 PM	Ν	0.4	
19 Oct 2021	1:00 PM	NE	0.1	
19 Oct 2021	2:00 PM	NW	0.1	
19 Oct 2021	3:00 PM	NE	0.1	
19 Oct 2021	4:00 PM	ENE	0.6	
19 Oct 2021	5:00 PM	NE	0.2	
19 Oct 2021	6:00 PM	NNE	0.4	
19 Oct 2021	7:00 PM	ENE	0.1	
19 Oct 2021	8:00 PM	NE	0.1	
19 Oct 2021	9:00 PM	ENE	0.3	
19 Oct 2021	10:00 PM	NNE	0.6	
19 Oct 2021	11:00 PM	NE	0.2	
20 Oct 2021	12:00 AM	Е	0.1	
20 Oct 2021	1:00 AM	ENE	1.0	
20 Oct 2021	2:00 AM	NE	0.7	

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

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

October 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
24 Oct 2021	9:00 AM	ESE	0.2	
24 Oct 2021	10:00 AM	NE	0.4	
24 Oct 2021	11:00 AM	ENE	0.5	
24 Oct 2021	12:00 PM	ENE	0.2	
24 Oct 2021	1:00 PM	NNE	0.2	
24 Oct 2021	2:00 PM	ENE	0.5	
24 Oct 2021	3:00 PM	ENE	0.1	
24 Oct 2021	4:00 PM	ENE	0.1	
24 Oct 2021	5:00 PM	NE	0.1	
24 Oct 2021	6:00 PM	ENE	0.1	
24 Oct 2021	7:00 PM	ENE	0.1	
24 Oct 2021	8:00 PM	N	0.1	
24 Oct 2021	9:00 PM	NE	0.1	
24 Oct 2021	10:00 PM	NNE	0.1	
24 Oct 2021	11:00 PM	Е	0.1	
25 Oct 2021	12:00 AM	ENE	0.1	
25 Oct 2021	1:00 AM	ENE	0.1	
25 Oct 2021	2:00 AM	Е	0.1	
25 Oct 2021	3:00 AM	Е	0.1	
25 Oct 2021	4:00 AM	ENE	0.1	
25 Oct 2021	5:00 AM	ENE	0.1	
25 Oct 2021	6:00 AM	NE	0.1	
25 Oct 2021	7:00 AM	NE	0.1	
25 Oct 2021	8:00 AM	Е	0.1	
25 Oct 2021	9:00 AM	Е	0.1	
25 Oct 2021	10:00 AM	NE	0.4	
25 Oct 2021	11:00 AM	NNE	0.3	
25 Oct 2021	12:00 PM	ENE	0.6	
25 Oct 2021	1:00 PM	NE	0.1	
25 Oct 2021	2:00 PM	ENE	0.1	
25 Oct 2021	3:00 PM	NNE	0.4	
25 Oct 2021	4:00 PM	NE	0.4	
25 Oct 2021	5:00 PM	Е	0.1	
25 Oct 2021	6:00 PM	ENE	0.1	
25 Oct 2021	7:00 PM	NE	0.1	
25 Oct 2021	8:00 PM	ENE	0.1	
25 Oct 2021	9:00 PM	SW	0.1	
25 Oct 2021	10:00 PM	S	0.1	
25 Oct 2021	11:00 PM	SE	0.1	
26 Oct 2021	12:00 AM	Е	0.1	
26 Oct 2021	1:00 AM	ENE	0.1	
26 Oct 2021	2:00 AM	ENE	0.1	
26 Oct 2021	3:00 AM	ENE	0.1	
26 Oct 2021	4:00 AM	ENE	0.1	
26 Oct 2021	5:00 AM	NE	0.1	
26 Oct 2021	6:00 AM	Е	0.1	
26 Oct 2021	7:00 AM	NE	0.1	
26 Oct 2021	8:00 AM	ENE	0.1	
26 Oct 2021	9:00 AM	ENE	0.2	
26 Oct 2021	10:00 AM	W	0.1	
26 Oct 2021	11:00 AM	ENE	0.9	

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

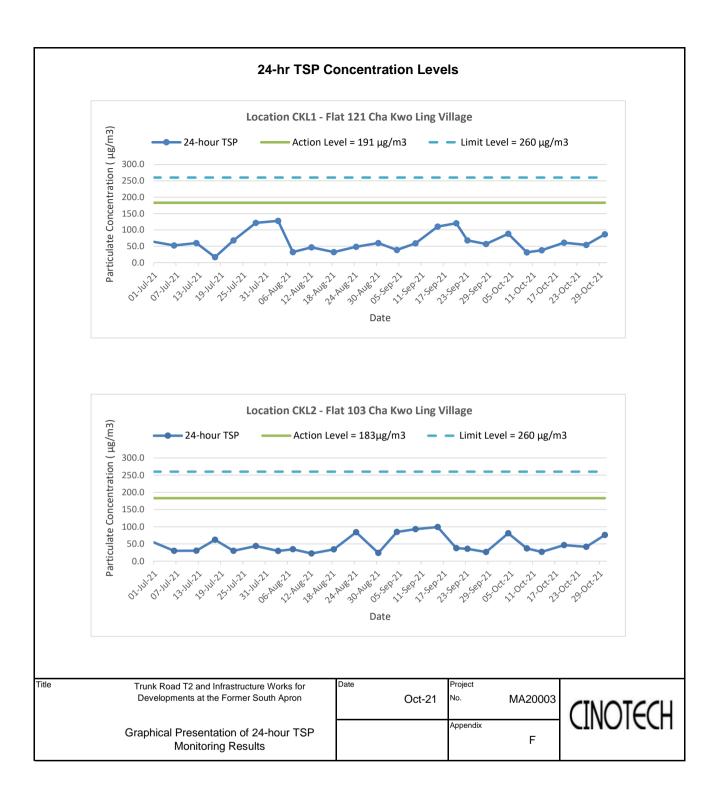
October 2021										
	Wind Speed	and Directions								
Date	Time	Wind Speed m-s	Direction							
28 Oct 2021	3:00 PM	NNE	0.1							
28 Oct 2021	4:00 PM	NE	0.1							
28 Oct 2021	5:00 PM	Е	0.1							
28 Oct 2021	6:00 PM	ENE	0.1							
28 Oct 2021	7:00 PM	NE	0.1							
28 Oct 2021	8:00 PM	ENE	0.1							
28 Oct 2021	9:00 PM	SW	0.2							
28 Oct 2021	10:00 PM	S	0.1							
28 Oct 2021	11:00 PM	SE	0.2							
29 Oct 2021	12:00 AM	ENE	0.2							
29 Oct 2021	1:00 AM	ENE	0.2							
29 Oct 2021	2:00 AM	ENE	0.2							
29 Oct 2021	3:00 AM	NE	0.2							
29 Oct 2021	4:00 AM	NE	0.2							
29 Oct 2021	5:00 AM	ENE	0.2							
29 Oct 2021	6:00 AM	NE	0.2							
29 Oct 2021	7:00 AM	Е	0.3							
29 Oct 2021	8:00 AM	ENE	0.2							
29 Oct 2021	9:00 AM	Е	0.2							
29 Oct 2021	10:00 AM	NNE	0.2							
29 Oct 2021	11:00 AM	Е	0.2							
29 Oct 2021	12:00 PM	WSW	0.3							
29 Oct 2021	1:00 PM	NNE	0.6							
29 Oct 2021	2:00 PM	NNE	0.2							
29 Oct 2021	3:00 PM	ENE	0.3							
29 Oct 2021	4:00 PM	N	0.2							
29 Oct 2021	5:00 PM	NE	0.4							
29 Oct 2021	6:00 PM	ENE	0.2							
29 Oct 2021	7:00 PM	N	0.4							
29 Oct 2021	8:00 PM	NE	0.1							
29 Oct 2021	9:00 PM	NE	0.1							
29 Oct 2021	10:00 PM	N	0.1							
29 Oct 2021	11:00 PM	NNW	0.1							
30 Oct 2021	12:00 AM	NNE	0.1							
30 Oct 2021	1:00 AM	NE	0.1							
30 Oct 2021	2:00 AM	NNE	0.1							
30 Oct 2021	3:00 AM	ENE	0.1							
30 Oct 2021	4:00 AM	NE	0.1							
30 Oct 2021	5:00 AM	ENE	0.1							
30 Oct 2021	6:00 AM	NE	0.1							
30 Oct 2021	7:00 AM	NNE	0.1							
30 Oct 2021	8:00 AM	NE	0.1							
30 Oct 2021	9:00 AM	NNE	0.1							
30 Oct 2021	10:00 AM	E	0.1							
30 Oct 2021 30 Oct 2021	11:00 AM	NE	0.2							
30 Oct 2021	12:00 PM	ENE	0.2							
30 Oct 2021 30 Oct 2021	12.00 PM 1:00 PM	E	0.2							
30 Oct 2021 30 Oct 2021	2:00 PM	E	0.1							
30 Oct 2021 30 Oct 2021	2:00 PM 3:00 PM	NNE	0.1							
30 Oct 2021 30 Oct 2021	4:00 PM	E	0.1							
	4:00 PM 5:00 PM									
30 Oct 2021	5.00 PM	ENE	0.1							

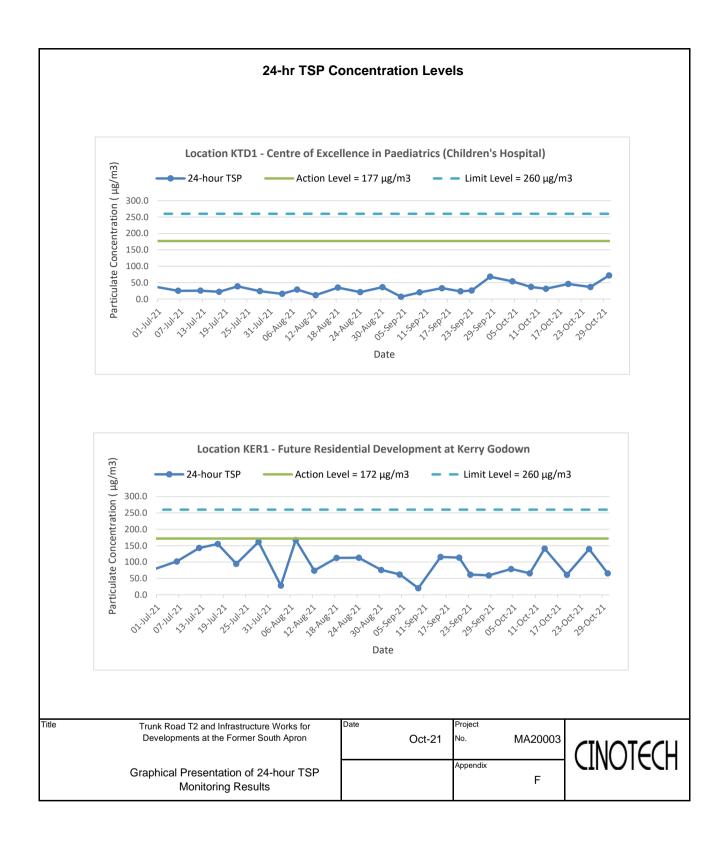
Appendix D - Weather Conditions

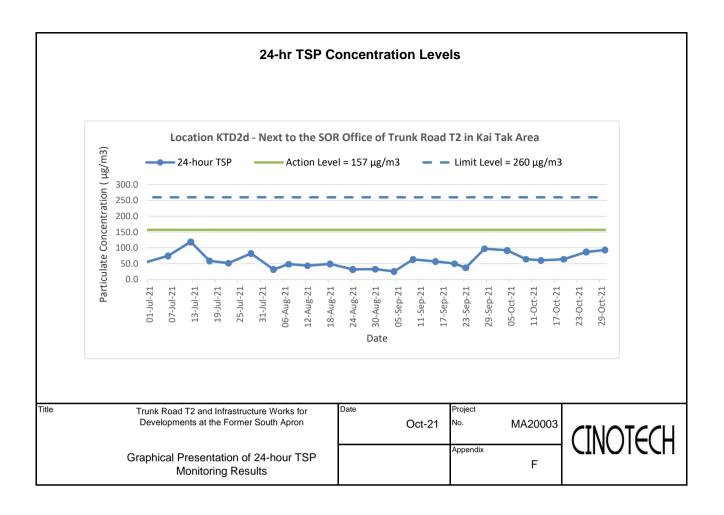
	October 2021										
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
30 Oct 2021	6:00 PM	ENE	0.1								
30 Oct 2021	7:00 PM	ENE	0.1								
30 Oct 2021	8:00 PM	ENE	0.1								
30 Oct 2021	9:00 PM	Е	0.1								
30 Oct 2021	10:00 PM	ENE	0.1								
30 Oct 2021	11:00 PM	E	0.1								

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

APPENDIX 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

	144	A: T	A	Filter W	'eight (g)			e Time	0	Flow Rate	e (m³/min.)	Av. Flow	Tetel	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)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Oct-21	Sunny	303.0	760.0	3.3335	3.4881	0.1546	3138.8	3162.8	24.0	1.22	1.22	1.22	1753.2	88.2		
9-Oct-21	Fine	299.7	755.8	3.4150	3.4703	0.0553	3162.8	3186.8	24.0	1.22	1.22	1.22	1757.0	31.5		1 1
13-Oct-21	Rainy	299.8	755.4	3.3588	3.4251	0.0663	3186.8	3210.8	24.0	1.22	1.22	1.22	1756.2	37.7	191.0	260.0
19-Oct-21	Sunny	299.3	763.6	3.4011	3.5088	0.1076	3210.8	3234.8	24.0	1.23	1.22	1.23	1765.1	61.0	101.0	200.0
25-Oct-21	Sunny	297.1	763.2	3.4297	3.5252	0.0955	3258.8	3282.8	24.0	1.23	1.23	1.23	1769.7	54.0		1 1
30-Oct-21	Sunny	297.4	765.1	3.3532	3.5068	0.1536	3282.8	3306.8	24.0	1.23	1.23	1.23	1770.9	86.8		
Note:	Bold Italic means A												Min	31.5		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	88.2		
													Average	59.8		

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-Oct-21	Sunny	303.0	760.0	3.3833	3.5252	0.1419	15176.5	15200.5	24.0	1.22	1.22	1.22	1754.4	80.9		
9-Oct-21	Fine	299.7	755.8	3.3054	3.3704	0.0650	15200.5	15224.5	24.0	1.22	1.22	1.22	1758.6	36.9		
13-Oct-21	Rainy	299.8	755.4	3.3728	3.4204	0.0476	15224.5	15248.5	24.0	1.22	1.22	1.22	1757.8	27.1	183.0	260.0
19-Oct-21	Sunny	299.3	763.6	3.3703	3.4528	0.0825	15248.7	15272.7	24.0	1.23	1.23	1.23	1767.7	46.7	103.0	200.0
25-Oct-21	Sunny	297.1	763.2	3.3792	3.4531	0.0739	15296.7	15320.7	24.0	1.23	1.23	1.23	1772.8	41.7		
30-Oct-21	Sunny	297.4	765.1	3.3708	3.5055	0.1347	15320.7	15344.7	24.0	1.23	1.23	1.23	1774.1	75.9		
Note:	Bold Italic means A												Min	27.1		
	Bold Italic with une	derline means L	imit Level exceedance										Max	80.9		
													Average	51.5		

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-Oct-21	Sunny	303.0	760.0	3.3434	3.4382	0.0948	14775.1	14799.1	24.0	1.22	1.22	1.22	1753.5	54.0		
9-Oct-21	Fine	299.7	755.8	3.6845	3.7494	0.0649	14799.1	14823.1	24.0	1.22	1.22	1.22	1757.8	36.9		
13-Oct-21	Rainy	299.8	755.4	3.3574	3.4126	0.0551	14823.1	14847.1	24.0	1.22	1.22	1.22	1757.0	31.4	177.0	260.0
19-Oct-21	Sunny	299.3	763.6	3.3955	3.4764	0.0809	14847.1	14871.1	24.0	1.23	1.23	1.23	1766.9	45.8	177.0	200.0
25-Oct-21	Sunny	297.1	763.2	3.3880	3.4528	0.0648	14871.1	14895.1	24.0	1.23	1.23	1.23	1772.1	36.6		
30-Oct-21	Sunny	297.4	765.1	3.3809	3.5086	0.1277	14895.1	14919.1	24.0	1.23	1.23	1.23	1773.4	72.0		
Note:	Bold Italic means A	ction Level exce	edance										Min	31.4		
	Bold Italic with und	terline means L	imit Level exceedance										Max	72.0		
													Average	46.1		

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)	$(u\alpha/m^3)$	Level (µg/m3)	Level (µg/m3)
4-Oct-21	Sunny	303.0	760.0	3.7144	3.8527	0.1383	12435.7	12459.7	24.0	1.22	1.22	1.22	1754.4	78.8		
9-Oct-21	Fine	299.7	755.8	3.6415	3.7569	0.1154	12459.7	12483.7	24.0	1.22	1.22	1.22	1759.1	65.6		
13-Oct-21	Rainy	299.8	755.4	3.3258	3.5739	0.2481	12483.7	12507.7	24.0	1.22	1.22	1.22	1758.2	141.1	172.0	260.0
19-Oct-21	Sunny	299.3	763.6	3.3611	3.4694	0.1083	12507.7	12531.7	24.0	1.23	1.23	1.23	1769.2	61.2	172.0	200.0
25-Oct-21	Sunny	297.1	763.2	3.3258	3.5739	0.2481	12531.7	12555.7	24.0	1.23	1.23	1.23	1775.0	139.8		
30-Oct-21	Sunny	297.4	765.1	3.3705	3.4869	0.1164	12555.7	12579.7	24.0	1.23	1.23	1.23	1776.4	65.5		
Note:	Bold Italic means A	Action Level exce	edance										Min	61.2		
	Bold Italic with une	<i>derline</i> means l	imit Level exceedance										Max	141.1		
													Average	92.0		

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)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-Oct-21	Sunny	303.0	760.0	3.3635	3.5251	0.1616	13188.9	13212.9	24.0	1.22	1.22	1.22	1754.4	92.1		
9-Oct-21	Fine	299.7	755.8	3.6750	3.7878	0.1129	13212.9	13236.9	24.0	1.22	1.22	1.22	1759.9	64.1		
13-Oct-21	Rainy	299.8	755.4	3.3243	3.4310	0.1067	13237.0	13261.0	24.0	1.22	1.22	1.22	1758.8	60.6	172.0	260.0
19-Oct-21	Sunny	299.3	763.6	3.4230	3.5361	0.1131	13261.0	13285.0	24.0	1.23	1.23	1.23	1771.6	63.8	172.0	200.0
25-Oct-21	Sunny	297.1	763.2	3.3943	3.5489	0.1545	13285.0	13309.0	24.0	1.24	1.23	1.23	1778.3	86.9		
30-Oct-21	Sunny	297.4	765.1	3.3920	3.5585	0.1665	13309.0	13333.0	24.0	1.24	1.24	1.24	1780.0	93.5		
Note:	Bold Italic means A												Min	60.6		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	93.5		
													Average	76.9		

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



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)



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)

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

Location GRET - Flat 121 Glia Rwo Ling Village								
			Unit: dB (A) (30-min)					
Date	Date Time Weather	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	TITIC	vvcation						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
5-Oct-21	9:00	Sunny	70.5	73.6	58.1	72.4	70.5 Measured \leq Baseline	
11-Oct-21	10:05	Sunny	70.8	74.3	56.4	72.4	70.8 Measured ≦ Baseline	
20-Oct-21	9:00	Sunny	71.1	74.5	60.6	72.4	71.1 Measured \leq Baseline	
26-Oct-21	10:00	Sunny	70.4	74.1	60.8	72.4	70.4 Measured ≦ Baseline	

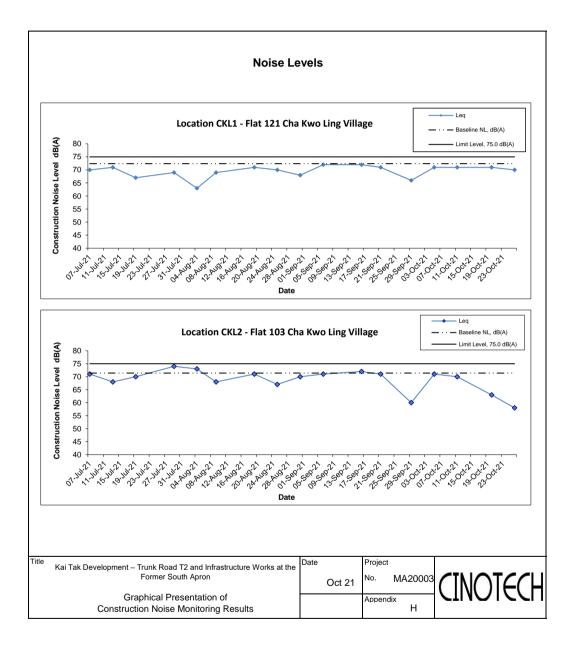
Location CKL2 - Flat 103 Cha Kwo Ling Village

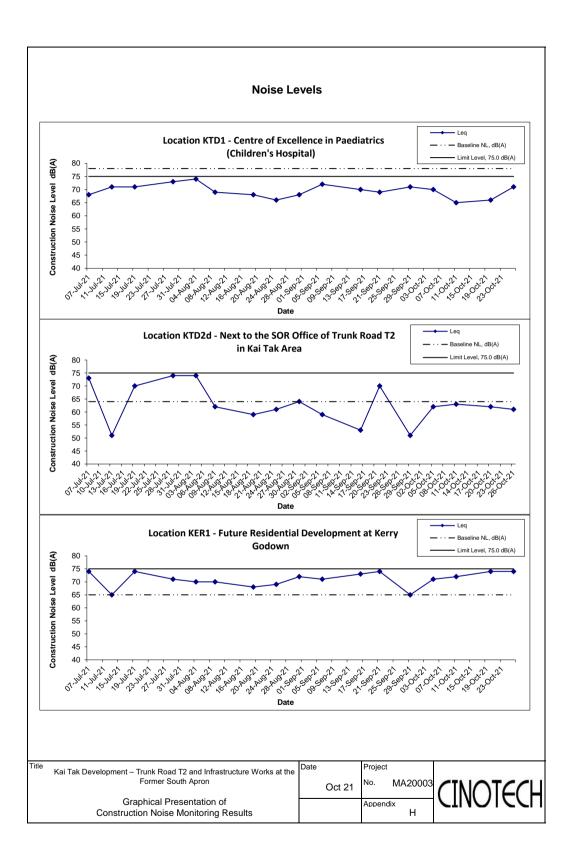
			Unit: dB (A) (30-min)					
Date	Time	Time Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	TIME	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
5-Oct-21	9:30	Sunny	71.2	74.3	62.4	71.4	71.2 Measured ≦ Baseline	
11-Oct-21	9:30	Sunny	69.9	73.6	61.6	71.4	69.9 Measured ≦ Baseline	
20-Oct-21	9:33	Sunny	72.0	76.0	60.3	71.4	63	
26-Oct-21	10:45	Sunny	71.6	75.0	61.0	71.4	58	

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}	
5-Oct-21	10:10	Sunny	69.9	71.0	68.7	78.0	69.9 Measured ≦ Baseline	
11-Oct-21	11:30	Sunny	65.3	66.2	64.4	78.0	65.3 Measured \leq Baseline	
20-Oct-21	11:30	Sunny	66.3	67.0	65.6	78.0	66.3 Measured ≦ Baseline	
26-Oct-21	13:20	Sunny	71.1	72.4	69.7	78.0	71.1 Measured ≦ Baseline	

Location KER1 - Future Residential Development at Kerry Godown								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
		L _{ea}	L_{10}	L 90	L _{eq}	L _{eq}		
							– eq	
5-Oct-21	9:15	Sunny	71.8	73.4	67.3	65.0	71	
11-Oct-21	10:45	Sunny	73.1	77.7	65.1	65.0	72	
20-Oct-21	10:00	Sunny	74.8	76.8	71.7	65.0	74	
26-Oct-21	11:10	Sunny	74.9	76.0	68.5	65.0	74	

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area								
				Unit: dB (A) (30-min)				
Date	Time	Time Weather	Measured Noise Level		Baseline Level	Construction Noise Level		
Date		Thine Weather	Weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
5-Oct-21	14:45	Sunny	61.5	63.1	58.8	64.0	62 Measured \leq Baseline	
11-Oct-21	10:00	Sunny	63.1	66.7	58.8	64.0	63 Measured \leq Baseline	
20-Oct-21	10:30	Sunny	61.7	64.9	58.1	64.0	62 Measured \leq Baseline	
26-Oct-21	9:45	Sunny	60.5	61.8	59.2	64.0	61 Measured ≦ Baseline	





APPENDIX I SITE AUDIT SUMMARY

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

Weekly Site Inspection Record Summary Inspection Information 211008 Checklist Reference Number 211008 Date 08 October 2021 (Friday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<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.:210930), item (210923 – R1) has been rectified. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	08 October 2021
Checked by	Karina Chan	Zelle	08 October 2021

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

Weekly Site Inspection Record Summary Inspection Information 211015 Checklist Reference Number 211015 Date 15 October 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.:211008), no major environmental deficiency was identified	

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

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

Weekly Site Inspection Record Summary Inspection Information

pretion	
Checklist Reference Number	211020
Date	20 October 2021 (Wednesday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
211020 – R2	 B. Water Quality Manholes in the vicinity of site boundary shall be covered or sealed to prevent muddy surface runoff accidentally discharge into drainage system. 	B 8
211020 - R3	C. Air QualitySite area in which dust is likely to be generated shall be watered regularly to minimize dust generation.	C15
211020 - R1	• The valid NRMM labels shall be displayed at a conspicuous position of regulated machines.	C21
	<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.:211015), no major environmental deficiency was identified. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	20 October 2021
Checked by	Karina Chan	Julle	20 October 2021

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

Weekly Site Inspection Record Summary Inspection Information 211028 Checklist Reference Number 213 October 2021 (Thursday) Date 28 October 2021 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	Item 100
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:211020), item 211020-R1 and 211020-R2 has been rectified. For the item 211020-R2, follow-up action needed to be reviewed on the next audit	
	session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cif-	28 October 2021
Checked by	Karina Chan	Zalle	28 October 2021

APPENDIX J EVENT AND ACTION PLANS

.		Construction Dust Monitor Ac	tion	
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

		Ac	tion	
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;	1. 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		Α	ction	
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.			

	Die J-2 Event/Action Flan for Construction Noise Monitoring									
Event		Act	tion							
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

E		Act	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.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent			Implementation Stages		Status
						D	С	0	
Air Quality Imp	act	•			•				
\$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		*
	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		^
	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;								۸
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								^
	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 Relevant Standard Agent or Requirement		Implementation Stages		n Stages	Status
						D	С	0	
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								٨
	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;								٨
	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;								٨
	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 Implementation Stages or Requirement		Implementation Stages		Status
						D	С	0	
Noise Impact						L	I	<u> </u>	
S3.4.1.1	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		٨
\$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		٨
\$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)
\$3.4.1.1	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		۸
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)
\$3.4.1.1	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		۸
	Mobile plant, if any, should be sited as far from NSRs as possible;								٨
	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;								٨
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								٨
	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								۸

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	
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								٨
	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		ļ	I	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
	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		n Stages	Status
						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;								A
	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;								٨
	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;								^
	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			n Stages	Status
						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;								#
	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;								Α
	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								۸
	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.								۸

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			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 for other onsite 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; 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 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
S4.2.1.1	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,	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		۸
	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; 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			n 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 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 generated by turbulence from vessel movement or propeller wash;	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	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

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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	
	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)
	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)
	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)
	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		ed Agent	Relevant Standard or Requirement			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									
\$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			n Stages	Status
						D	С	0	
Landscape and V	Visual						<u> </u>		
\$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		۸
\$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
\$7.2.1.2	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		^
\$7.2.1.2	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		٨
\$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		٨
\$7.2.1.2	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		۸
\$7.2.1.2	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	nded A	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	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
\$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	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	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	C	0	
Waste Managem	lent 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 materials; - Analysis of waste materials; - 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			n 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.	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)
\$9.2.1.2	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.	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)
\$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		۸
\$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		٨
\$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		٨
\$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		٨
\$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	Implen	nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	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	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	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		^
\$9.2.1.2	All falsework should be steel instead of wood as far as practicable.	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 Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imple	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.	To properly store the 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)
\$9.2.1.2	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		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imple	nentatio	n Stages	Status
						D	C	0	
\$9.2.1.2	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)
\$9.2.1.2	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.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		۸
\$9.2.1.2	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.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	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	Implementation Agent	Relevant Standard or Requirement	Implen	ientatio	n Stages	Status
						D	С	0	
\$9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, 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	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	• •	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	Not applicable at this stage;
N/A(1)	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: October 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: October 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	Dư	02V0 Start	02V0 Finish	Start	Finish		20)21 21	-		. ²⁰²² Appendix A
	_					04 11 18 25	01 08 15 22 29 05 12 19 26		07 14 21 28	05 12 19 26 02	09 16 23 30 06 13 20
		03-Uct-ZU	1/-Uct-22	Z/-Uct-ZU A	13-NoV-22						
	540 571	03-Oct-20	13- In-22	28-Uct-20 A	02-Apr-22 24-Mar-22						
	_			12 Mov 21 A	07 Ium 21 A						
Design Memorandum	_	02-00-00	07-100-00	17-Mav-21 A	07-Jun-21 A	n - 7th Review					
Design Memorandum - Approval	, 0		06-Oct-20	tria frim ti	07-Jun-21 A	n - Approval					
Construction Traffic Impact Assessment - Kai Tak Area		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 Kai 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		CTIA Kai Tak Area 6th Review	6th Review			
CTIA Kai Tak Area - Approval	0		06-Oct-20		06-Sep-21 A		CTIA Kai Tak Atea - Approva	Approval			
ACABAS-Footbridge FB-02	20	01-Apr-21	29-Apr-21	05-Feb-22	05-Mar-22						
DDA - 1st Sub	0		01-Apr-21		05-Feb-22				-		DDA - 1st Sub
DDA - Review by SO	28	02-Apr-21	29-Apr-21	06-Feb-22	05-Mar-22						
DDA - Review by IP / DC	78	02-Apr-21	29-Apr-21	06-Feb-22	05-Mar-22						
ACABAS- Footbridge FB-03	48	17-May-22	13-Jul-22	25-Jan-22	24-Mar-22						
DDA - Draft - Preparation by Designer	48	17-May-22	13-Jul-22	25-Jan-22	24-Mar-22						
DAP - WVB	48	13-Sep-21	10-Nov-21	15-Jan-22	15-Mar-22				DAP-WB		
DDA - Draft - Preparation by Designer	48	13-Sep-21	10-Nov-21	15-Jan-22	15-Mar-22						
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	29-May-21 A	05-Oct-21 A						
AIP - 4th Review by SO	0			29-May-21 A	29-Jun-21 A	AIP - 4th Review by \$O					
AIP - Further information required by SO	0			30-Jun-21 A	07-Sep-21 A		AIP - Further inform	AP - Further information required by SO			
AIP - 5th Sub	0				07-Sep-21 A		♦ AIP - 5th Sub				
AIP - 5th Review by SO	0			08-Sep-21 A	05-Oct-21 A			AIP - 5th Review by \$0			
AIP - SO Consent for DDA Submission	0		16-Feb-21		05-Oct-21 A			◆ AIP - SO Consent for DDA Submission	ubmission		
ur niture		16-Feb-21	19-Jul-21	06-Oct-21 A	05-Mar-22	DDA R	Roadworks and Street Furniture				
		16-Feb-21	29-Mar-21	06-Oct-21 A	17-Nov-21				þDA - þraft		
DDA - Draft - Final Review and prepare for 1st Sub		30-Mar-21	23 Apr-21	18-Nov-21	08-Dec-21					DDA - Draft - Final	Review and prepare for 1st Sub
DDA - 1st Sub			23-Apr-21		08-Dec-21					🔶 DDA - 1st Sub	
DDA - Review by SO		24-Apr-21	21-May-21	09-Dec-21	05-Jan-22						DDA - Review by SO
DDA - Review by IP / DC	_	24-Apr-21	21-May-21	09-Dec-21	05-Jan-22						DDA - Review by IP // DC
DDA - Further information required by SO	_	22-May-21	14 Jun 21	06-Jan-22	29-Jan-22						DDA-Further informatio
DDA - 2nd Sub			15-Jun-21		29-Jan-22						DDA- 2nd Sub
	_	15-Jun-21	19-Jul-21	30-Jan-22	05-Mar-22						
k Sign Gantry	5 2	19-Oct-21	20-Dec-21	15-May-21 A	23-Nov-21					DDA Erchbar internation column to the Sig	DLA Traffic Sign, Road Marking & Sign Gantry
	_	13-OCI-71	17-001-CI	Ho-May-21 A	4 1 2 JUL- 22						
DDA - Zrid Sub DDA - Zrid Review hv SO	- 18	16-Nov-21	20-Dec-21	23-Jun-21 A	22-JUN-21 A					DDA - 2rd Review by SO	view bv SO
DDA - Further information required by SO	_			09-1ul-21 A	23-Oct-21 A			DDA Furt	- Further information required by SO		
DDA - 3rd Sub	, 0			U 17 mp-00	23-Oct-21 A			♦ DDAL 3rd Sub	dub		
DDA - 3rd Review by SO	0			25-Oct-21 A	23-Nov-21				- OD	- 3rd Review by SO	
DDA - SO Consent for Construction	0		20-Dec-21		23-Nov-21				•	♦ DDA - SO Con	◆ DDA - SQ Consent for Construction
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)		22-Jan-21	22-Jan-21	16-Apr-21 A	13-Dec-21						
DDA - Further information required by SO	0			16-Apr-21 A	07-Jun-21 A	nation required by SO					
DDA - 4th Sub	0				07-Jun-21 A						
	Sir	Summarv							(Date Revi	Revision Checked Approved
Data Date: 30-Oct-21			ED/	2018/0	4 Trur	ED/2018/04 Trunk Road T2	2 and Infrastructure Works		VOILE	010	WYu SPa/LLo W
Actual Mestone Actual Mestone Actual Mestone Actual Mestone Actual Mestone				Ĩ	or Dev	for Developments	at South Apron	TRAVAL	DOUTOUES TRAVAUX PUBLICS		
Baseline Bar				Three	Mont	Three Months Rolling	Programme (Oct-21)			09-Oct-20 01V3	SPa/LLo WYu SPa/LLo WYu
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Activity Name	Dur 02	02V0 Start	02V0 Finish	Start	Finish		Austrat	2021 Sostember 040	Nationalise	Оссотвост 2022 Посотвост 1 Больнов
					24 0	04 11 18 2	25 01 08 15 22	<u>9 05 12 19 26 03 10</u>	17 24 31 07 14 21 28 0	05 12 19 26 02 09 16 23 30 06 13 20 7
DUA - 4th Keview by SO	0		5		15 Jul 21 A		Review by SU		6	
DDA - Further information required by SO	0			16-Jul-21 A C	07-Sep-21 A			UDA - Further information required by SQ	by SQ	
DDA - 5th Sub	0				07-Sep-21 A			DDA - 5th Sub		
DDA - 5th Review by SO	0		0		29-Sep-21 A			DDA - 5th Review by SO		
DDA - Further information required by SO	0		m	30-Sep-21 A	02-Nov-21				DDA - Further information required by SQ	uired by SQ
DDA - 6th Sub	0			-	02-Nov-21				◆ DDA - 6th Sub;	
DDA - 6th Review by SO	0		_	03-Nov-21	13-Dec-21					DDA - 6th Review by \$0
DDA - SO Consent for DDA Submission										 DDA - SO Conjeent for DDA Submission
DDA Structural Health Monitoring System (SHMS)						alth Monitoring Syste	em (SHMS)			
DDA - Review by SO										
DDA - Review by IP / DC		_	-	_		lþi/DC				
DDA - Further information required by SO	24 09	09-Apr-21	07-May-21 0	09-Jun-21 A 1	10-Jun-21 A pr	ormation required by \$0				
DDA - 2nd Sub	0		07-May-21	-	10-Jun-21 A					
DDA - 2nd Review by SO		08-May-21		11-Jun-21 A (05-Jul-21 A	DDA - 2rid Review by SO	by SO			
DDA - SO Consent for Construction	0		11-Jun-21		05-Jul-21 A	 DDA - SQ Consent for Construction 	for Construction			
AIP Landscape Design		26 Jan 21	26 Jan-21 1							
AIP - 3rd Review by SO	0			12-May-21 A 0	0, 1	80				
AIP - SO Consent for Construction	_	_			5	Construction				
DDA Landscape Design					11-Dec-21		0DA Landscape Désign	·		
DDA - Draft - Preparation by Designer		27 Jan 21	19-Mar-21 0	08-Jun-21 A	15-Jul-21 A	DDA Dr	Draft - Preparation by Designer			
DDA - Draft - Final Review and prepare for 1st Sub	24 20	20-Mar-21	21 Apr -21	16-Jul-21 A	28-Jul-21 A		DDA - Draft - Final Review;and prepare for 1st Sub	d prepare for 1st Sub		
DDA - 1st Sub	0		21-Apr-21		28-Jul-21 A		🔶 DDA - 1st Sub			
DDA - Review by SO		22 Apr -21	19-May-21	29-Jul-21 A 0	09-Sep-21 A			DDA Review by SO		
DDA - Review by IP / DC		22-Apr-21		29-Jul-21 A 1	14-Sep-21 A			DDA - Reviewby IP / DC		
DDA - Further information required by SO	24 20	20-May-21		10-Sep-21 A	06-Nov-21				DDA - Further information required by SO	required by SO
DDA - 2nd Sub	0		17-Jun-21		06-Nov-21				DDA- 2nd Sub	
DDA - 2nd Review by SO	35 18	18-Jun-21	22-Jul-21	07-Nov-21	11-Dec-21					DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		22-Jul-21		11-Dec-21					◆ DDA - SO Conse Int for Construction
DEPRESSED ROAD [DPR]					17-Dec-21					
DDADPR - Portal Structure			19-Feb-21 2		17-Dec-21					
DDA - Draft - Final Review and prepare for 1st Sub	24 07·	07-Nov-20	04-Dec-20 2	29-May-21 A 0	08-Sep-21 A			ina	Review; and prepare for 1st Sub	
DDA - 1st Sub	0		04-Dec-20	0	08-Sep-21 A			♦ DDA - 1st Sub		
DDA - Review by SO	_				05-Oct-21 A			PDA - R	DDA - Review by SO	
DDA - Review by IP / DC	28 05-	05 Dec-20	01 Jan-21 0	09-Sep-21 A	05-Nov-21				DDA - Reviéwby IP /DC	
DDA - Further information required by SO		02 Jan 21		06-Oct-21 A	12-Nov-21				DDA - Further Information required by SO	lation required by SO
DDA - 2nd Sub	0		15-Jan-21		12-Nov-21				◆ DDA 2nd Sub	
DDA - 2nd Review by SO		16-Jan-21	19-Feb-21	13-Nov-21	17-Dec-21					DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		19-Feb-21		17-Dec-21					 DDA - SO donsent for Construction
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DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking :	•	25-May-21 25-N	25-May-21 04-May-21 A		Traffic Sign, Road Ma	rking and Traffic Light			
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DDA - SO Consent for Construction	_	_		_	02-Dec-21		
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[STE] DDA CUE L10 (N) Permanent Works	-60 0	09-Nov-21	09-Nov-21 28-N	28-May-21 A 00	02-Dec-21		V (\$TE] DDA CUE L 10(N) Permanent Works
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[STE] DDA District Cooling System Permanent Works	-60 0	09-Dec-20	09-Dec-20 07-N	07-May-21 A 00	03-Nov-21		
	Summary	AIR A					Date Revision Checked Approved
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DDA - SO Consent for Construction	0		09-Dec-20		03-Nov-21			DDA - SO Consent for Construction	instruction
[STE] AIP Kai Hing Road / Lam Chak Street Modification	105	03-Nov-21	11-Mar-22	03-Nov-21	11-Mar-22				
AIP - Draft - Preparation by Designer		03-Nov-21	30-Nov-21	03-Nov-21*	30-Nov-21				
AIP - Draft - Final Review and prepare for 1st Sub	12	01-Dec-21	14-Dec-21	01-Dec-21	14-Dec-21				AtP - Draft - Final Review and prepare for 1st Sub
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AIP - Review by IP / DC	78	15-Dec-21	11 Jan-22	15-Dec-21	11-Jan-22				AP - Réview by IP / DC
AIP - Further information required by SO	24	12-Jan-22	11-Feb-22	12-Jan-22	11-Feb-22				AIP Further
AIP - 2nd Sub	0		11-Feb-22		11-Feb-22				AIP - 2nd Sul
AIP - 2nd Review by SO	58	12-Feb-22	11-Mar-22	12-Feb-22	11-Mar-22				
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	28-May-21 A	15-Jun-21 A				
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A	eview by SO			
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[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22 Dec-20	22-Dec-20	03-May-21 A	27-Aug-21 A				
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DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A		DDA SO Consent for Construction		
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	21-May-21 A	15-Jul-21 A				
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[STE] AIP Road L10 (N)	69	24-Dec-21	21-Mar-22	01-Apr-21 A	17-Sep-21 A				
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[STE] DDA Road L10 (N) - Per manent Utility Design	_	22-Mar-22	21-Jun-22	12-Jul-21 A	02-Nov-21				
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DDA - 2nd Review by SO	35 18	18-May-22	21 Jun-22	27-Jul-21 A	05-Aug-21 A						
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DDA - Further information required by SO	0			21-Sep-21 A	08-Oct-21 A			DDA- Further information required by SO			
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[STE] DDA Road L10 (N) - Roadworks and Street Furniture	90 09	05-Apr-22	21-Jun-22	19-Apr-21 A	14-Dec-21						L
DDA - Review by SO	28	05-Apr-22	02-May-22	19-Apr-21 A	10-Jun-21 A						
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DDA - Further information required by SO	12 03	03-May-22	17-May-22	10-Jun-21 A	21-Jul-21 A						
DDA - 2nd Sub	0		17-May-22		21-Jul-21 A	•					
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Activity Name	Dur 02	02V0 Start	02V0 Finish	Start	Finish				2021				2022	
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DDA - Review by IP / DC			03-Apr-21	20-Feb-22	19-Mar-22									
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DDA - Draft - Preparation by Designer		_	22-Apr-21	21-Feb-22	02-Apr-22									
DDA - Cross Passage - Traditional - DCRA	_	-	22-Apr-21	21-Feb-22	02-Apr-22									
DDA-Draft-Preparation by Designer	_		22-Apr-21	_	02-Apr-22									
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DDA - SO Consent for Construction			09-Oct-20	-	26-AII0-21 A			•	DDA - SO Consent for Construction					+
DDA - D&BR / D&BL Tunnel - Service Gallery (SG Scheme)	_	08-Apr-21	08. Apr. 21	28-May-21 A	15-Jul-21 A									
DDA - 3rd Review by SO	_	-		28-May-21 A	15-Jul-21 A	- VDD	-3rd Review by SO	by SO						
DDA - SO Consent for Construction	0		08 Apr 21		15-Jul-21 A	◆ DDA-		SO Consent for Construction						
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Page 10 of 26	Summary	any	Ĺ		ŀ		- F					18-Dec-19 00V1	Kevision Checked /1 WYu	Approved
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Activity Name	Dur 02/	02V0 Start	02V0 Finish	Start	Finish			2021	N		2022
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	4/6 03-	_	10-May-22	01-Nnv-21	10-Mar-22						
n by Designer		-	-	01-Nov-21	11-Dec-21					DDA - Draft - Preparation by Designer	aration by Designer
e for 1st Sub	_			13 Dec-21	12 Jan 22						DDA - Draft - Final Review: and ptepare
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DDA - Review by SO	28 13-	13-Dec-20	09-Jan-21	13-Jan-22	09-Feb-22						DDA - Review
DDA - Review by IP / DC	28 13-	13-Dec-20	09-Jan-21	13-Jan-22	09-Feb-22						DDA - Review
DDA - Further information required by SO	30 11-	11-Jan-21	17-Feb-21	10-Feb-22	16-Mar-22						
DDA - EVB - Aesthetic Design	172 03-	03-Oct-20	05-May-21	28-Jun-21 A	07-Mar-22						
DDA - Draft - Preparation by Designer	48 03-	03-Oct-20	28-Nov-20	28-Jun-21 A	21-Aug-21 A		DDA. Draft Preparation by Designer	signer			
DDA - Draft - Final Review and prepare for 1st Sub	24 30-	30-Nov-20	29-Dec-20	23-Aug-21 A	04-Nov-21				DDA - Draft - Final Rev	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		29-Dec-20		04-Nov-21				DDA - 1st Sub		
DDA - Review by SO	28 30-	30-Dec-20	26-Jan-21	05-Nov-21	02-Dec-21					DDA - Review by SD	
DDA - Review by IP / DC	28 30-	30-Dec-20	26-Jan-21	05-Nov-21	02-Dec-21					DDA - Review by IP / DC	
DDA - Further information required by SO	24 27-	27 Jan-21	26-Feb-21	03-Dec-21	03-Jan-22						DDA - Further information required by SO
DDA - 2nd Sub	0		26-Feb-21		03-Jan-22						◆ DDA - 2rid Sub:
			02-Apr-21		07-Feb-22						DDA - 2rid Revie
					07-Feb-22						DţA - 2rld Revie
ySO					07-Mar-22						
AIP Foot Bridge FT-03 [NEW]	31 19-	19-Dec-21		29-May-21 A (03-Sep-21 A					<u>.</u>	AlP Foot Bridge FT-03 [NF
AIP - 2nd Sub		19-Dec-21		29-May-21 A	28 Jun 21 A						AIP - 2nd Sub
required by SO					28-Jun-21 A					<u>∢</u>	AIP - Further information required by SO
		31-Dec-21		29-Jun-21 A (03-Sep-21 A					- <u> </u>	AlP - 2nd Review by SO
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		_			18-Oct-21 A					· · · · ·	DDA - Draft - Preparation by Designer
inal Review and prepare for 1st Sub		13-Jan-22		19-Oct-21 A	25-Oct-21 A						DDA - Draft
					25-Oct-21 A			•			♦ DDA- 1st \$
	_	_	-	26-Oct-21 A	22-Nov-21						
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nformation required by SO		14-Mar-22	11-Apr-22	23-Nov-21	20-Dec-21						
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		12-Apr-22	16-May-22	21-Dec-21	24-Jan-22						
DDA - SO Consent for Construction	_				24 Jan 22						•
AIP EVB - Permanent Structure (SG Scheme)	_	31-Mar-21	31-Mar-21	_							
AIP - Further information required by SO	0				<	P - Further informatio	n required by SO				
AIP - 7th Review by SO	0			28-Jun-21 A (AIP -7th Review by SO	000			
AIP - 7th Sub	0					AIP - 7th Sub					
_	_	_	_		03-Sep-21 A		A AIP - SO Consent for DDA	or DDA Submission			
Building Plan (including SoA) (SG Sch			_		05-Nov-21						
			-		24-Aug-21 A		DDA - Review by IP (DC				
nformation required by SO		01 Feb-21		05-May-21 A	24-Aug-21 A		DDA - Further information required by SQ	tuired by SQ			
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	_	04 Mar-21		25-Aug-21 A	05-Nov-21				DDA 2 Dd Review by SO	05 05	
DDA - SO Consent for Construction	0		07-Apr-21		05-Nov-21				♦ DDA - SO Consent for Construction	r Construcțion	
	Summan									Date	Revision Checked Approved
Page 11 01 20 Data Date: 30-Oct-21	•	 r	ED/2	ED/2018/04 Trunk Road T	t Trun	k Roa	ad T2 and Infrastructure Works			8 2	WYu SPa/LLo W
 A Actual Missione Actual Work 				fc	for Development	elopr	nents at South Apron		BOUYGUES TRAVAUX PUBLICS		SPa/LLO
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2022
DDA - EVB - Parmanent Structure (SG Scheme Basenent)	8	12-lun-21	08-Oct-21	05-Mav-21 A	20-Oct-21 A	04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 DDA	17 24 31 07 14 21 28 A - EVB - Dermianent Structure (SG Schema	3 05 12 19 26 02 09 16 23 30 06 13 20 7 Bacement
DDA- Reviewby SO	_	12-Jun-21	09-Jul-21	-	28-Jun-21 A	DDA: Reviéw by \$0	8	
DDA - Review by IP / DC	58	12-Jun-21	09-Jul-21		25-Sep-21 A		γ, I Ρ / D¢	
DDA - Further information required by SO	48	10-JuH21	03-Sep-21	29-Jun-21 A	25-Sep-21 A	DDA - Further information require	nformation required by SO	
DDA - 2nd Sub	0		03-Sep-21		25-Sep-21 A	◆ DDAA - 2nd Sub	į	
DDA - 2nd Review by SO	35	04-Sep-21	08-Oct-21	27-Sep-21 A	20-Oct-21 A		DDA - 2 hd Review by SO	
DDA - SO Consent for Construction	0		08-Oct-21		20-Oct-21 A	•	DDA - SO Cohsent for Construction	
TUNNEL E&MINSTALLATION & COMMISSIONING	252	05-Dec-20	13-Oct-21		22-Mar-22		TUNNEL E&M INSTALLATION & COMMISSIÓNING	NING
DDA - E&M Tunnel Ventilation Design (SG Scheme)	91	24-Jan-21	20-May-21	_	04-Dec-21	n (SG Scheme)		
DDA - Review by SO	78	24-Jan-21	20-Feb-21	22-May-21 A	07-Jun-21 A			
DDA - Review by IP / DC	88	24-Jan-21	20-Feb-21	23-May-21 A	30-Oct-21 A			
DDA - Further information required by SO	42	22 Feb-21	15-Apr-21	08-Jun-21 A	30-Oct-21 A		formation I	equired by SO
DDA - 2nd Sub	0		15-Apr-21		30-Oct-21 A		DDA' - 2nd Sub	
DDA - 2nd Review by SO	35	16-Apr-21	20-May-21	31-Oct-21	04-Dec-21			DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		20-May-21				•	 DDA - SO Consept for Construction
DDA - E&M Air Purification System (WVB)	91	10-Jan-21	05-May-21		17-Dec-21			
DDA - Review by IP / DC	58	10-Jan-21	06-Feb-21	15-Mar-21 A	05-Nov-21			
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	12-Nov-21		DDA Further	information required by SO
DDA - 2nd Sub	0		31-Mar-21		12-Nov-21		♦ DDA-2nd Sub	
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	13-Nov-21	17-Dec-21			DDA - 2nd Review by SQ
DDA - SO Consent for Construction	•		05-May-21		17-Dec-21			DDA+SO Consent for Construction
DDA - E&M Fire Services Installation	103	02-Feb-21	11-Jun-21	01-Jun-21 A	17-Dec-21	Services Installation		
DDA - Draft - Final Review and prepare for 1st Sub	8	02 Feb-21	25-Feb-21		09-Jun-21 A	Review and prepare for 1st Sub		
DDA - Review by SO	73	26-Feb-21	25-Mar-21	09-Jun-21 A	05-Nov-21		DDA Review by SO	
DDA - 1st Sub	0		25-Feb-21		09-Jun-21 A			
DDA - Review by IP / DC	83	26-Feb-21	25-Mar-21		17-Aug-21 A	DDA-Reviewby IP //DC		
DDA - Further information required by SO	33	26-Mar-21	07-May-21	18-Aug-21 A	12-Nov-21		ē.	information required by SO
DDA - 2nd Sub	•		07-May-21		12-Nov-21		◆ DDA, 2nd \$ub	
DDA - 2nd Review by SO	8	08-May-21	11 Jun 21	13-Nov-21	17-Dec-21			DDA + 2nd Review by SO
DDA - SO Consent for Construction	0		11-Jun-21		17-Dec-21			DDA - SO Consent for Construction
DDA-E&M MVAC	101	27-Jan-21	03-Jun-21		17-Dec-21			
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A	w and prepare for 1st Sub		
DDA - Review by SO	88	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A	DDA - Réview by SO		
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DDA - Review by IP / DC	88	19-Feb-21	18-Mar-21	02-Jun-21 A	05-Nov-21			
DDA - Further information required by SO	33	19-Mar-21	29-Apr-21	30-Jun-21 A	12-Nov-21		DDA. Further Infor	Information required by SO
DDA - 2nd Sub	0		29-Apr-21	_	12-Nov-21		♦ DDA - 2nd Sub	
DDA - 2nd Review by SO	ж,	30-Apr-21	03-Jun-21	13-Nov-21	17-Dec-21			DDA - 2nd
DDA - SO Consent for Construction	0	:	03-Jun-21		17-Dec-21			DDA + SO Consent for Construction
DDA - E&M Plumbing & Drainage System	122	22 Dec 20	26-May-21	-	15 Dec 21	ge system		
DDA - Draft - Preparation by Designer	2	22-Dec-20	21 Jan 21	19-Feb-21 A	03-Jun-21 A	n by Uesigner		
DUA - Draft - Final Review and prepare for 1st Sub	2	22-Jan-21	10-reb-21	03-JUN-21 A	A 12-UUL-C2	and prepare		
DDA - Review by SO	8 4	11-Feb-21	10-Mar-21	25 Jun-21 A	05-Jul-21 A	DIA- Review by SU		
	-		10-Leb-ZI	-	A 12-JUU-C2			
DDA - Review by IP / DC	73	11-Feb-21	10-Mar-21	25-Jun-21 A	05-Nov-21			
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Page 12 01 20 Data Date: 30-Oct-21	•	6	ED/	′2018/C	4 Trur	\mathbf{N}		00V1 WYu 01V0 SPa/LLo W
A Actual Mastore A Actual Mastore A Actual Mastore					or Dev	for Developments at South Apron	BOUYGUES TRAVAUX PUBLICS	09-Apr-20 01V1 SPa/Lo WYu 17-Jul-20 01V2 SPa/Lo WYu
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	
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DDA - Further information required by SU	8	11-Mar-21	21 Apr 21	06-Jul-21 A	10-Nov-21		
	- ¹		21-Apr-21		10-Nov-21		
UDA - 2nd Review by SO	8	Z2 Apr 21	26-May-21	11-Nov-21	15-Dec-21		puA-zna Review by SU
DDA - SO Consent for Construction	•		26-May-21		15-Dec-21		DDA - SO Conservation
AIP - E&M Electrical Installation	21	05-Dec-20	02-Jan-21	21-May-21 A	23-Jun-21 A		
AIP - 2nd Review by SO	58	05-Dec-20	01-Jan-21	21-May-21 A	23-Jun-21 A	_	
AIP - SO Consent for DDA Submission	0		02 Jan 21		23-Jun-21 A		
DDA - E&M Electrical Installation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	17-Dec-21		
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Jul-21 A	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Jul-21 A	15-Jul-21 A		
DDA - 1st Sub	0		24-Feb-21		15-Jul-21 A	 DDA -11st Sub 	
DDA - Review by SO	28	25-Feb-21	24-Mar-21	16-Jul-21 A	24-Aug-21 A	DDA - Review by SO	
DDA - Review by IP / DC	78	25-Feb-21	24-Mar-21	16-Jul-21 A	05-Nov-21		DDA Review by IP / DC
DDA - Further information required by SO	33	25-Mar-21	07-May-21	25-Aug-21 A	12-Nov-21		DDA1 Further information required by SO
DDA - 2nd Sub	0		07-May-21		12-Nov-21		DDA-2nd Sub
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	13-Nov-21	17-Dec-21		DDA + 2nd Review by SQ
DDA - SO Consent for Construction	0		11-Jun-21		17-Dec-21		DDA; SO Consent for Construction
AIP CLP Submission - Power Supply to EVB & WVB	ន	30-Dec-20	26 Jan-21	22-May-21 A	23-Jun-21 A		
AIP - 2nd Review by SO	78	30-Dec-20	26-Jan-21	22-May-21 A	23-Jun-21 A		
AIP - SO Consent for DDA Submission	0		26-Jan-21		23-Jun-21 A	SO Consent for DDA Submission	
DDA CLP Submission - Power Supply to EVB & WVB	158	27 Jan 21	11-Aug-21	24 Jun-21 A	17-Dec-21		
DDA - Draft - Preparation by Designer	8	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Jul-21 A		
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Jul-21 A		
DDA - 1st Sub	0		28-Apr-21		15-Jul-21 A	DDA - 1st Sub	
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	78	29-Apr-21	26-May-21	16-Jul-21 A	05-Nov-21		DDA - Reviewby IP / DC
DDA - Further information required by SO	34	27-May-21	07-Jul-21	25-Aug-21 A	12-Nov-21		DDA - Further Information required by SO
DDA - 2nd Sub	0		07-Jul-21		12-Nov-21	•	DDA, 2nd Sub
DDA - 2nd Review by SO	35	08-Jul-21	11-Aug-21	13-Nov-21	17-Dec-21		DDA - 2nd
DDA - SO Consent for Construction	•		11-Aug-21		17-Dec-21		◆ DDA SO Consent for Consent for Consent for
AIP - E&M Tunnel Lighting Design	24	26-Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A		
AIP - 2nd Review by SO	88	26 Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A	_	
AIP - SO Consent for DDA Submission	•		25-Mar-21		09-Jun-21 A	for DDA Submission	
DDA - E&M Tunnel Lighting Design	131	26-Mar-21	03-Sep-21	10-Jun-21 A	22-Mar-22	C DDA E E&M. Tunnel Lighting Design	
DDA - Draft - Preparation by Designer	ន	26-Mar-21	24 Apr -21	10-Jun-21 A	06-Nov-21		DDA - Draft - Prepatation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	5	26-Apr-21	10-May-21	08-Nov-21	20-Nov-21		DDA- Draft - Final Review and prepare for \$st Sub
DDA - 1st Sub	0		10-May-21		20-Nov-21		◆ DDA- 1st Sub
DDA - Review by SO	8	11-May-21	07 Jun 21	21-Nov-21	18-Dec-21		DDA- Review by SO
DDA - Review by IP / DC	83	11-May-21	07 Jun-21	21-Nov-21	18-Dec-21		DDA- Review by #P / DC
DDA - Further information required by SO	4	08-Jun-21	30-Jul-21	20-Dec-21	15-Feb-22		
DDA - 2nd Sub	•		30-Jul-21		15-Feb-22	•	◆ DDA - 2
DDA - 2nd Review by SO	R R	31-Jul-21	03-Sep-21	16-Feb-22	22 Mar 22		
AIP - EXM CMCS	8	1/ +ep 71	12-VBM-C2	Zo Apr Z1 A			
AIP - Update & prepare for 2nd Sub	33	17-Mar-21	27 Apr -21	26-Apr-21 A			
AIP - Review by IP / DC	58	17-Feb-21	16-Mar-21	26-Apr-21 A	28-Jun-21 A	NP - Review by P / DC	
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Page 13 of 26 Data Date: 30-Oct-21		Summary	ED/:	2018/0. fr	4 Trur	ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron	BOUYGUES 0111 0111 0111 0111 0111 0111 0111 01
◆ ◆ ♦ Basefine Mastone				<u> </u>	5	2	17-Jul-20 01V2 SPa/LL0
Baseline Bar				Three	Mont	Three Months Rolling Programme (Oct-21)	02V0 SPa/LLO

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021	-	2022	-
						04 11 1	18 25 01 08 15 22 29 05 12 19 26 03 10	17 24 31 07 14 21 28	05 1 12 19 26 02 09 16 23 30 0	06 13 20 7
AIP - 2nd Review by SO	8	28 Apr - 21	25-May-21	28 Jun 21 A	22-Jul-21 A	<u>-</u>				
AIP - 2nd Sub	0		27 Apr-21		28-Jun-21 A	AIP - 2nd Sub				
AIP - SO Consent for DDA Submission	•		25-May-21		22-Jul-21 A		◆ AIP - \$0 Consent for DDA Submission			
DDA-E&M CMCS	117	26-May-21	13-Oct-21	23-Jul-21 A	01-Mar-22			DDA-E&M CMCS		
DDA - Draft - Preparation by Designer	8	26-May-21	21-Jun-21	23-Jul-21 A	06-Nov-21			DDA - Draft - Preparation by Designer	1 by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Jun-21	06-Jul-21	08-Nov-21	20-Nov-21			DDA-Draft-	DDA- Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		06-Jul-21		20-Nov-21	\$		♦ DDA - 1st \$ub		
DDA - Review by SO	58	07-Jul-21	03-Aug-21	21-Nov-21	18-Dec-21	-			DDA- Review by SO	
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	21-Nov-21	26-Dec-21				DDA - Review by IP / DC	
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	28-Dec-21	25-Jan-22				DDA - Furt	DDA Further information red
DDA - 2nd Sub	0		08-Sep-21		25-Jan-22				DDA - 2nd Sub	Sub
DDA - 2nd Review by SO	35	09-Sep-21	13-Oct-21	26-Jan-22	01-Mar-22					
SOUTH APRON EXTERNAL WORKS	536	22-Dec-20	17-Oct-22	23-Dec-20 A	13-Nov-22					
Road S20	259	05-Jan-21	18-Nov-21	27-Jan-21 A	22-Apr-22			Koad S20		
CUE	259	05-Jan-21	18-Nov-21	27 Jan-21 A	22-Apr-22			 CUE 		
Entrance	8	21-Apr-21	31-Jul-21	24-Jun-21 A	17-Dec-21		Entrance			
Entrance - ELS (Sheet pile)	18	21-Apr-21	12-May-21	24 Jun 21 A	11-Sep-21 A		Entrance - ELS (Sheet pile)			+
Entrance - Excavation	8	13-May-21	03-Jun-21	13 Sep-21 A	22-Oct-21 A			Entrance - Éxcavation		
Entrance - Structure	36	04-Jun-21	17-Jul-21	23-Oct-21 A	03-Dec-21				Entrance - Structure	
Entrance- Backfil	12	19-JuH21	31-Jul-21	04-Dec-21	17-Dec-21				Entrance-Backfill	
Junction	108	19-Mar-21	31-Jul-21	27-Feb-21 A	28-Dec-21		Jungtion			· · · · · · · · · · · · · · · · · · ·
Junction - ELS (Sheet pile)	24	19-Mar-21	20-Apr-21	27 Feb-21 A	21-Jul-21 A		Junction - ELS (Sheet pile)			
Junction - Excavation	24	21-Apr-21	20-May-21	26-Jul-21 A	16-Oct-21 A			Junction - Excavation		
Junction - Structure	48	21-May-21	17-Jul-21	18-Oct-21 A	11-Dec-21				Junction - Structure	
Junction - Backfil	12	19-JuH21	31-Jul-21	13-Dec-21	28-Dec-21				Junction - Backfill	
Typical	259	05-Jan-21	18-Nov-21	27 Jan 21 A	22-Apr-22			▲ Typical		
Typical Section - Structure	75	05-Jan-21	09-Apr-21	27 Jan 21 A	09-Jun-21 A	Structure				
Typical Section - Utilities & E&M	20	18-Sep-21	18-Nov-21	19-Feb-22	22-Apr-22					
Road & Drain	200	18-Feb-21	21-Oct-21	24-May-21 A	16-Mar-22			Road & Drain		
Stage 2	64	18-Feb-21	20-Apr-21	24-May-21 A	07-Aug-21 A					
S20 Stage 2 (Watermain)	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)	8	24-Feb-21	20-Mar-21	19-Jul-21 A	24-Jul-21 A		S20 Stage;2 (U channel, Catchpil, Gùlly)			
S20 Stage 2 (Roadworks)	8	22-Mar-21	20-Apr-21	26-Jul-21 A	07-Aug-21 A		S20 Stage 2 (Roadworks)			
Stage 3	151	21-Apr-21	21-Oct-21	09-Aug-21 A	16-Mar-22			Stage 3		
S20 Stage 3 ELS	33	21-Apr-21	02-Jun-21	09-Aug-21 A	24-Aug-21 A		S20 Stage 3 ELS			
S20 Stage 3 (Sewerage)	32	15-May-21	23-Jun-21	23-Aug-21 A	04-Sep-21 A		S20 Stage;3 (Sewerage)			
S20 Stage 3 (Drainage)	æ	05-Jun-21	19-Jul-21	28-Oct-21 A	08-Dec-21				S20 Stage 3 (Drainage)	
S20 Stage 3 (Watermain)	4	20-JuH21	23-Jul-21	09-Dec-21	13-Dec-21				S20 Stage 3 (Watermain)	
S20 Stage 3 (UU Diversion)	4	24-Jul-21	06-Aug-21	14-Dec-21	29-Dec-21				\$20 Stage 3 (UU Diversion)	
S20 Stage 3 (U channel, Catchpit, Gully)	ន	07-Aug-21	01-Sep-21	30-Dec-21	25-Jan-22				S20 Stage	S20 Stage 3 (U channel, Cat
S20 Stage 3 (Roadworks)	ន	02-Sep-21	28-Sep-21	26-Jan 22	23-Feb-22					
Utilities undertaker (by others) AMAWVBC	8 2	07-Sep-21 16-Aun-21	21-Oct-21 06-Dec-21	31-Jan-22 04-Nov-21	16-Mar-22 30-Mar-22				AMAWBC	
Drainade & Sewerade	8	20-41m-21	06 Dec 21	00 Dar 21	30-Mar 22				Drainane & Sewerane	
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021			2022	
						Uly August August 1 04 1 11 18 1 25 1 01 1 08 1 15 1 22 1 25	September O 29 05 12 19 26 03 10	dober November 0 17 24 31 07 14 21 28	December December 12 19 26 (January Feb 02 09 16 23 30 06	ruary 13 20 7
Section B - ELS & Excavation	18	20-Aug-21	09-Sep-21	09-Dec-21	31-Dec-21					Section B - ELS & Excavation	
Section B - Drainage	£	10-Sep-21	23-Sep-21	03-Jan-22	14-Jan-22					Section B - Drainage	
Section B - Sewerage	1	24 Sep-21	07-Oct-21	15-Jan-22	27-Jan-22					Section B - Sewerage	ewerage
Section D	20	08-Oct-21	06-Dec-21	28-Jan-22	30-Mar-22				Section D		
Section D - ELS & Excavation		08-Oct-21	26-Oct-21	28-Jan-22	17-Feb-22						Section
Section D - Drainage	_	27-Oct-21	06-Dec-21	18-Feb-22	30-Mar-22				 		
Outfall 1		16-Aug-21	07-Oct-21	04-Nov-21	24-Dec-21		Outra				
Outfall 1 Excavation & Blinding		16-Aug-21	04-Sep-21	04-Nov-21	24-Nov-21		 		Ouffall 1 Excavation & Blinding		
Outfall 1 Precast Installation & Alignment		06-Sep-21	27-Sep-21	25-Nov-21	15-Dec-21				Outfall 1 Precasi	Outfall i Precast Installation & Alignment	
Outfall 1 Backfilling & reinstatement	80	28-Sep-21	07-Oct-21	16-Dec-21	24-Dec-21				Outrail	Outfell 1 Backfilling & reinstatement	
[STE] District Cooling System for AMAWBC Section 6B	266	22-Dec-20	16-Nov-21	22-Mar-21 A	20-Apr-22			 [\$TE] Distric 	[STE] District Cooling System for AMAWBC Section 6B	Section 6B	
Section 1 - Bay 1	41	20-Feb-21	13-Apr-21	22-Mar-21 A	27-Oct-21 A						
DCS - Bay 1 Pipe Install ation - Set up (DN1 200 30m)	12	20-Feb-21	05-Mar-21	22-Mar-21 A	09-Aug-21 A	D¢S - Báy 1 Pipel	DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)				
DCS - Bay 1 Pipe Installation - Pipe welding	1	06-Mar-21	18-Mar-21	26-Jul-21 A	18-Aug-21 A	DCS - Bay	DCS - Bay 1 Pipe Installation - Pipe welding				
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	19-Aug-21 A	19-Oct-21 A			DCS - Bay 1 Pipe Installation - Jointing (12nos)	l (12nos);		
DCS - Bay 1 Backfill		07-Apr-21	13-Apr-21	21-Oct-21 A	27-Oct-21 A			DCS - Bay 1 Backfilt			
Section 1 - Bay 2		15-Jun-21	14-Aug-21	19-May-21 A	30-Aug-21 A	Section 1 - Bey 2	y 2				
DCS - Bay 2 Pipe Installation - Set up (DN900 60m)		15-Jun-21	30 Jun 21	19-May-21 A	17-Jul-21 A	DCS - Bay/2 Pipe Installation - Set up (DN900 60m)	0/000 60m)				
DCS - Bay 2 Pipe Installation - Pipe welding		02-JuH21	16-Jul-21	19-Jul-21 A	24-Jul-21 A	DCS - Bay/2 Pipe Installation - Pipe welding	pe welding				
DCS - Bay 2 Pipe Installation - Jointing (27 nos)	18	17-JuH21	06-Aug-21	19-Jul-21 A	31-Jul-21 A	DCS + Bay 2 Pipe Inst	💳 ¦ DCS + Bay 2 Pipe Installation - Jointing (27 nos)				
DCS - Bay 2 Backfill	7 (07-Aug-21	14-Aug-21	10-Aug-21 A	30-Aug-21 A		D¢S - Bay 2 Backfill				
Section 1 - Bay 3		13-May-21	01-Sep-21	26-Jul-21 A	08-Jan-22		Section 1 - Bay 3				
DCS - Bay 3 Sheet pile (1870m2)	, ¥	13-May-21	23 Jun-21	26-Jul-21 A	28-Oct-21 A			DCS -Bay 3 Sheet pile (187 pm2)	n2)		
DCS - Bay 3 Excavation (2620m3)		24-Jun-21	15-Jul-21	29-Oct-21 A	18-Nov-21			DCS-Bay	DCS -Bay 3 Excavation (2620m3)		
DCS - Bay 3 Pipe Instal ation - Set up (DN900 30m)		16-JuH21	29-Jul-21	19-Nov-21	02-Dec-21				DCS - Bay 3 Pipe Instal ation - Set up (DN900 30m)	- Set up (DN900 30m)	
DCS - Bay 3 Pipe Installation - Pipe welding		30-JuH21	09-Aug-21	03-Dec-21	13-Dec-21				D¢S - Bay 3 Pipe	DCS - Bay 3 Pipe Installation - Pipe welding	
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	14-Dec-21	24 Dec-21					DCS - Bay 3 Pipe Install ation - Jointing (15nos)	s)
DCS - Bay 3 Backfill		21-Aug-21	01-Sep-21	28-Dec-21	08-Jan-22					DCS - Bay'3 Backfill	
Section 2 - Bay 4		04-May-21	17-Aug-21	20-Apr-21 A		Section 2 - Bay 4	Bay 4				
DCS - Bay 4 Sheet pile (990m2)		04-May-21	25-May-21	20-Apr-21 A		e (990m2)					
DCS - Bay 4 Excavation (1170m3)	_	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A	DCS - Bay4 Excavation (1170m3)					
DCS - Bay 4 Pipe Installation - Set up (DN600 66m)		09-Jun-21	25-Jun-21	06-Sep-21 A	11-Sep-21 A		DCS - Bay'4 Pipe Installation - Set up (DN600 66m)	n - Set up (DN600 66m)			
DCS - Bay 4 Pipe Installation - Pipe welding	_	26-Jun-21	14-Jul-21	13-Sep-21 A	02-Oct-21 A			DCS - Bay 4 Pipe Instal ation - Pipe welding			
DCS - Bay 4 Pipe Instal ation - Jointing (33nos)		15-JuF21	03-Aug-21	04-Oct-21 A	16-Oct-21 A			DCS-Bay4 Pipe Installation - Jointing (3	(33nos)		
		04-Aug-21	1.7-604-71	18-UCT-21 A	03-NOV-21						
			13-May-21	10-Apr-21 A	24-Uec-21	DCC B2/5 Chott nio 141043	(C400)	·		·	
DCS- Bay's Sheet ple (1510m2)	_	22-Dec-20	28 Jan-21	10-Apr-21 A	31-Jul-21 A 27 Son 21 A			DOC_Bave E Provertiene (15 Barn 3)			
DCS - Day 5 Extavation (15 Iohili)	o ⊉	23-JdlF21	22-FEU-21 10-Mar-21	16-Oct-21 A	06-Nov-21				DCS - Bav5 Pine Installation - Set 116 (DN6M) 69m)		
DCS - Bay 5 Pipe Installation - Dine welding	_	11-Mar-21	26-Mar-21	08-Nov-21	23-Nov-21				DCS - Bav 5 Pipe Installation - Pipe welding		
DCS - Bay 5 Pipe Installation - Jointing (30nos)	_	27-Mar-21	17-Apr-21	24-Nov-21	10-Dec-21				DCS- Bay 5 Pipe Ins	DCS - Bay 5 Pipe Installation - Jointing (30nos)	
DCS - Bay 5 Backfill	_	19-Apr-21	03-May-21	11-Dec-21	24-Dec-21				DCS	- Bay 5 Backfill	
Section 2 - S20		21 Apr 21	19-Aug-21	09-Aug-21 A	08-Dec-21	Section 2 - \$20	- \$20				
DCS - S20 section site clearance	58 78	21-Apr-21	25-May-21	09-Aug-21 A	18-Aug-21 A	DCS - \$20	DCS - \$20 section site clearance				
DCS - S20 Sheet pile (912m2)	8	26-May-21	16-Jun-21	21-Aug-21 A	22-Sep-21 A		pcs \$20 Sheet pile (912m2)	pije (912jn2)			
	C. N.	Cummon							Date	Revision Checked A	Annroved
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Activity Name	Dur 02V0 Start	tart 02V0 Finish	inish Start	Finish			2021		2022 December 1
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DCS - S20 Excavation (1026m3)	_						+	xcaval	
DCS - S20 Pipe Installation - Set up (DN600 60m)		_						DCS - S20 Pipe Ihsta	DCS-S20 Pipe Installation - Set up (DN600 60m)
DCS - S20 Pipe Installation - Pipe welding									DČS - S20 Pipe Installation - Pipe welding
DCS - S20 Pipe Installation - Jointing (27 nos)	14 04-Aug-21	-21 19-Aug-21	g-21 23-Nov-21	21 08-Dec-21					DCS - \$20 Pipe Installation - Jointling (27 nos)
Section 2 - CUE	53 19-Jul-21	-21 17-Sep-21	p-21 13-Dec-21	21 18-Feb-22			V Section 2 CUE		
DCS - CUE - Set up (DN600 90m)									DCS - CUE - Set up (DN600 90m)
DCS - CUE - Pipe welding	_	_		_					DCS - CUE - Pipe welding
DCS - CUE - Jointing (42nos)									
Testing & Commissioning								Testing & Co	Continissioning
Overal DCS - Testing & Commissioning		_							
[STE] District Cooling System - Remaining Section 7B	190 19-Apr-21	-21 03-Dec-21	c-21 18-May-21 A	1 A 02-Mar-22					 [STE] District Cooling System - Remaining Section 7B
DCS (Section 3)	38 21-Oct-21	-21 03-Dec-21	c-21 14-Jan-22	22 02-Mar-22					CCS (Section 3)
DCS (L10(S))	38 21-Oct-21	-21 03-Dec-21	c-21 14-Jan-22	22 02-Mar-22					➡ DCS (L10(\$))
DCS - L10(S) CH327 400 Sheet pile	38 21-Oct-21	-							
DCS Section 4	16 19-Apr-21	-21 07-May-21	y-21 18-May-21 A	1 A 05-Oct-21 A					
DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)	6 19-Apr-21	-21 24 Apr-21	r-21 18-May-21 A	1 A 19-Jun-21 A		PR Pipe Installation - Delivery & set up (DN 800 12m)			
DCS - DPR Pipe Installation - Pipe welding (6nos)							DCS - DPR Pipe Installation - Pipe welding (6nos)	ing (6ros)	
DCS - DPR Pipe Installation - Jointing (6nos)	_	-		-				DCS - DPR Pipe Installation - Jointing (6pos)	
Outfall 2 & Branch Drainage		-22 30-Mar-22	r-22 03-Jan-22	22 30-Mar-22					
Coordinated Access to Portion H1 (NAH Site B)	0 03-Jan-22	+22	03-Jan-22*	2*					Ocordinated Access to Portion H1 (NAH Site B)
Branch Drainage within Portion H1	72 03-Jan-22	-22 30-Mar-22	r-22 03-Jan-22						
									Foot Bridge FB+02
DSD KBSIS - Interface	117 11 May-21	/-21 28-Sep-21	p-21 12-May-21 A	1 A 13 Jan 22			DSD KBSIS - Interface	Interfaçe	
Existing Footbridge Disable Ramp - Demolition	24 11-May-21	/-21 08-Jun-21	n-21 12-May-21 A	1 A 08-Jun-21 A	Disable Ramp Dem	amplition			
FB-02 H-pile - P1/P2/P3	51 24-Jun-21	-21 23-Aug-21	g-21 04-Oct-21 A	1 A 06-Dec-21	-				FB-02 H-pile - F1/P2/P3
FB-02 H-pile - LC&D	30 24-Aug-21								FB-02:H-pile-LC&D
Road L10/ DPR	175 03-May-21	/-21 29-Nov-21	v-21 26-Mar-21 A	1 A 14-Mar-22					Rojad L10/ DPR
FB-02 H-pile (1 rig) - P4/P5/D	72 03-May-21	/-21 28-Jul-21	I-21 26-Mar-21 A	1 A 13-Sep-21 A			FB-02 H-pile (1 hg) P4/P5/0		
FB-02 H-pile (1 rig) - LA&B	55 29-Jul-21	-21 02-Oct-21	t-21 14-Sep-21 A	1 A 30-Sep-21 A			FB-02 H	FB-02 H-pite (1 rig) - LA&B	
FB-02 - Road L10 - H-pile Installation	48 06-Aug-21	-21 02-Oct-21	t-21 02-Oct-21 A	1 A 27-Nov-21					B-Q2 - Road L10 - H-pile Insialitation
FB-02 Pile load test No.1 & 2	48 04-Oct-21	-21 29-Nov-21	v-21 14-Jan-22	22 14-Mar-22					
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	484 27-Feb-21	-21 17 Oct-22	t-22 03-May-21 A	1 A 13-Nov-22					
EMSD Temporary Replacement of Traffic Signal	18 18-May-21	/-21 08-Jun-21	n-21 20-May-21 A	1 A 08-Jun-21 A	Replacement of Traffic	ffi¢ Signal			
EMSD preparation for Stage 2 change over	18 18-May-21	/-21 08-Jun-21	n-21 20-May-21 A	1 A 08-Jun-21 A		over			
Stage 2 change over to oil drum traffic signal	0	08-Jun-21	n-21	08-Jun-21 A	er to oil drum traffic sig	signal			
Stage 1 (KT Fire Station Footpath/CYS northbound)	111 03 May-21	/-21 11-Sep-21	_	1 A 30 Oct 21 A			😽 😽 Stage 1 (KiT Fire Station Foot	Station Footpath/CYS notthbound)	
Stage 1A (KT Fire Station Footpath)						Stage 1A (KT Fire Station Footpath)			
Towngas UU diversion			_						
WSD diveresion					esion				
Telecom UU diversion Stage 2		_	_	_		Felecom UU diversion Stage 2			
Installation of gully and gully pipe	12 08-Jun-21	-21 22-Jun-21		1 A 09-Aug-21 A		Installation of guily and guily spipe	hd gu l y pipe		
Reinstatement of footpath & carriageway						Reinstater	Reinstatement of footpath & carriageway		
Installation of ducting for PL, ATC and E&M		_				Installation of ductir	Installation of ducting for PL, ATC and E&M		
Stage 1B (CYS northbound Lane 2)		_				Stage 1B (CYS northb	ound Lahe 2)	·	
Installation of ducting for PL, ATC and E&M	3 22-JuH21	-21 24-Jul-21	I-21 25-Aug-21 A	1 A 01-Sep-21 A			hstallation of ducting for PL, ATC and E&M	E&M	·····
	Summary								Date Revision Checked Approved
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Activity Name	Dư	02V0 Start	02V0 Finish	Start	Finish	2021	-		2022
						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	30 06 13 20
Installation of gully and gully pipe		26-JuH-21	28-Jul-21	03-Sep-21 A	07-Sep-21 A	Installation of guily and guily pipe		·	
Reinstatement of carriageway	-	29-JuH21	07-Aug-21	08-Sep-21 A	15-Sep-21 A	Reinstatement of carriage way	eway		
Stage 1C (CYS northbound Lane 3)		09-Aug-21	25-Aug-21	16-Sep-21 A	08-Oct-21 A	Stage 1C (CYS northbound Lane(3)			
Installation of ducing for PL, ATC and E&M	ლ ო	09-Aug-21	11-Aug-21	16-Sep-21 A	21-Sep-21 A	Iristallation of ducing	Iristallation of ducting for PL ATC and E&M		
Installation of gully and gully pipe		12-Aug-21	14-Aug-21	22-Sep-21 A	29-Sep-21 A		Installation of gully and gully pipe:		
Reinstatement of carriageway	_	16-Aug-21	25-Aug-21	30 Sep-21 A	08-Oct-21 A		Reinstatement of carriageway		
Stage 1D (CYS northbound Lane 4)	_	26-Aug-21	11-Sep-21	09-Oct-21 A	30-Oct-21 A	Stage 1D (CYS northbou	Lane 4)		
Installation of ducting for PL, ATC and E&M		26-Aug-21	28-Aug-21	09-Oct-21 A	12-Oct-21 A		 Iristallation of oucting for PL, ATC and E&M 		
Installation of gully and gully pipe		30-Aug-21	01-Sep-21	13-Oct-21 A	19-Oct-21 A		Installation of gully and gully pipe		
Reinstatement of carriageway	6	02-Sep-21	11-Sep-21	20-Oct-21 A	30-Oct-21 A		Reinstatement of carriage way		
Stage 2 (CYS central traffic island)	42	26-Aug-21	16-Oct-21	04-Oct-21 A	10-Nov-21		 Stage 2 (CMS central traffic island) 		
Demolition of existing traffic island	9	26-Aug-21	01-Sep-21	04-Oct-21 A	09-Oct-21 A		Demolition of existing traffic island		
Connection gully and gully pipe	9	02-Sep-21	08-Sep-21	11-Oct-21 A	16-Oct-21 A		Connection gully and gully pipe		
Connection for PL, ATC and E&M	12	09-Sep-21	23-Sep-21	18-Oct-21 A	26-Oct-21 A		Connection for PL, ATC and E&M		
Construction of new traffic is and	4	24-Sep-21	16-Oct-21	27-Oct-21 A	10-Nov-21		Construction of hew traffic sland		
Stage 3 (Wang Chiu Road)		27 Feb-21	15-Sep-21	03-Jul-21 A	13-Nov-21	Stage 3 (Wang ChiurRoad)	(p		
Stage 3A (WCR central traffic island)		27-Feb-21	08-Ju l- 21	03-Jul-21 A	13-Aug-21 A	Stage;3A (WCR central traffic island)			
Lower down existing manhole		27 Feb-21	05-Mar-21	03-Jul-21 A	09-Jul-21 A	Lower down existing manhole			
Reinstatement of footpath & carriageway		09-Jun-21	08-Jul-21	12-Jul-21 A	13-Aug-21 A	Reinstatement of footpath & carriageway			
Stage 3B (WCR westbound Lane 2)	12	22-JuH-21	04-Aug-21	14-Aug-21 A	31-Aug-21 A	Stage 3B (WÇR weştbound Lane;2)			
Installation of ducting for PL, ATC and E&M	e	22-Jul-21	24-Jul-21	14-Aug-21 A	18-Aug-21 A	Installation of ducting for PL, ATC and E&M			
Reinstatement of carriageway	6	26-JuH21	04-Aug-21	19-Aug-21 A	31-Aug-21 A	Reinstatement of carriagewäy			
Stage 3C (WCR westbound Lane 1)	12 (05-Aug-21	18-Aug-21	01-Sep-21 A	29-Sep-21 A	Stage 3C (WGR westbound Lane;1)			
Installation of ducting for PL, ATC and E&M		05-Aug-21	07-Aug-21	01-Sep-21 A	14-Sep-21 A	Installation of ducingifor Pl	ducing for PL, ATC and E&M		
Reinstatement of carriageway	6	09-Aug-21	18-Aug-21	16-Sep-21 A	29-Sep-21 A	Reinstateme	Reinstatement of carriage way		
Stage 3D (WCR westbound new traffic island)		05-Aug-21	15-Sep-21	02-Oct-21 A	13-Nov-21	▼ Stage 3D (WCR westbound new traffic sland)	ind new traffic (sland)		
Demolition of existing pavement		05-Aug-21	11-Aug-21	02-Oct 21 A	12-Oct-21 A		Demolition of existing pavement		
Connection for PL, ATC and E&M		12-Aug-21	25-Aug-21	13-Oct-21 A	20-Oct-21 A		¢onnection for PL, ATC and E&M		
Construction of new traffic island		26-Aug-21	15-Sep-21	21-Oct-21 A	13-Nov-21		Construction of new traffic sland	fficisland	
Stage 4 (Hoi Bun Road)		03-Mar-21	04-Aug-21	02-Aug-21 A	21-Sep-21 A	Stage 4 (Hoi Bun Road)			
Stage 4A (HBR Planter)	22	03-Mar-21	16-Jun-21	02-Aug-21 A	08-Sep-21 A	Bk Plartier)			
Lower down existing manhole		03-Mar-21	09-Mar-21	02-Aug-21 A	10-Aug-21 A	Løwer døwn existing manhole			
Reinstatement of footpath & carriageway	-	18-May-21	16-Jun-21	24-Aug-21 A	08-Sep-21 A	Reinstatement of footpath & carribgeway	rriggeway		
Stage 4B (HBR Fast Lane)		22-Jul-21	04-Aug-21	01-Sep-21 A	21-Sep-21 A	Stage 4B (HBR Fast Lane)			
Installation of ducting for PL, ATC and E&M	_	22-JuH21	24-Jul-21	01-Sep-21 A	08-Sep-21 A	C Installation of ducing for PL, AIG and E&M	IC and F&M		
Reinstatement of carriageway		26-JuH21	04-Aug-21	09-Sep-21 A	21-Sep-21 A		artiageway		
Stage 5 (Gas Station & HBR)	-	10-Mar-21	17-Oct-21	24-Aug-21 A	13-Nov-21		Stage 5 (Gas Staton & HBR)		
Stage 5A (Gas Station Footpath)		10-Mar-21	16-Jun-21	25-Aug-21 A	05-Oct-21 A	as Station Footpath);			
Installation of ducting for PL, ATC and E&M	_	10-Mar-21	16-Mar-21	25-Aug-21 A	20-Sep-21 A	Installation of ducting	Installation of ducting for PL, ATC and E&M		
Reinstatement of footpath & carriageway		18-May-21	16-Jun-21	21-Sep-21 A	05-Oct-21 A	Keinstalen	Keinstatement of toopath & carriageway		
Stage 5B (HBK traffic Island)		1.7- BnH-cn	15-Sep-21	24-Aug-21 A	ZZ Sep 21 A				
Demoliton of existing framic Island Connection for PI ATC and F&M		12-Aug-21	75-Aug-21	24 Aug 21 A 01 Sen 21 A	31-Aug-21 A 07-Sen-21 A				
Construction of new traffic island	_	26-Aug-21	15-Sen-21	08-Sen-21 A	22-Sen-21 A	Construction of new/traffic island	witraffic Island		
Starte 5C (HBR Left Turn Lane 1)		15 cm-21	30_San_21	30-San-21 A	22-Oct-21 A	Stane KI	State 5C (HRR Left Time lane f)		
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-Oct-21			ED/	2018/0	4 Trur	ED/2018/04 Trunk Road T2 and Infrastructure Works		18-Dec-19 00V1 WYu 22-Feb-20 01V0 SPa/LLo	лУW о-
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 ♦ ♦ Baseline Misstone 				Ē				1/-Jul-20 01V2 SPa/LLo 09-Oct-20 01V3 SPa/LLo	o WYu
Baseline Bar				I hree) Mont	I hree Months Kolling Programme (Oct-21)		02V0	

Activity Name	Du	02V0 Start	02V0 Finish	Start	Finish	2021 141. Avenuel Contembor 2021	abor Marcombor	December 2022 2024
Install vision of director DI ATC and E8M	C	16 Con 31	18 Con 21	30 Con 31 A	00 Oct 21 A		10 17 24 31 07 14 21 28 05 Installation of durition for PI ΔTC and E&Mé 1 2 <	5 12 19 26 02 09 16 23 30 06 13 20 7
Reinstatement of carriageway	n თ	20-Sep-21	30-Sep-21	12-Oct-21 A	23-Oct-21 A		Reinstatement of carried eway	
Stage 5D (HBR Left Turn Lane 2)	12	02-Oct-21	17-Oct-21	01-Nov-21	13-Nov-21		🔻 Stage 5D (HBR Left Tum Lane 2)	
Installation of ducting for PL, ATC and E&M	33	02-Oct-21	05-Oct-21	01-Nov-21	03-Nov-21		Installation of ducting for PL, ATC and E&M	VTC and E&M
Reinstatement of carriageway	σ	06-Oct-21	16-Oct-21	04-Nov-21	13-Nov-21		Reinjstatement of carriage way	riageway
Section 8D [STE] - Completion	0		17-Oct-21		13-Nov-21*		♦ Section 8D [STE]- Completion	completion
	0		17-00L-21		13-NoV-21			
Establishment		18-Oct-21	17-Oct-22	14-Nov-21	13-Nov-22			
HBR/ CYS/WCR Junction Modification - Establishment works		18-Oct-21	17-Oct-22	14-Nov-21	13-Nov-22			
	337	08-JUF21	27-904-42	23-Dec-20 A	19-Apr-22			
	33/	08-JuF21	24-Aug-22 01 Con 21	23-Dec-20 A	19-Apr-22 30 http://doi.org/10	CIEL10000 EIS (Sheed high) raid 1		
	5 9		12-dac-10	20 1 71 A	A 12-100-00	- 1.		
CUE L'10(N) Pump Test part 1 CITET 10(N) Excavation part 1	32	12-0cf-21	73-Nnv-21	30-Jun-21 A	30-JUN-21 A			CJIFI 1000 E Kravation and 1
CUE L10(N) ELS (Sheet pile) part 2	45	07-Apr-22	04-Jun-22	25 Aug 21 A	02-Dec-21			
CUE L10(N) Pump Test part 2	32	06-Jun-22	13-Jul-22	03-Dec-21	12-Jan-22			
CUE L10(N) Structure part 1	108	24-Nov-21	06-Apr-22	03-Dec-21	19-Apr-22			
CUE L10(N) Excavation part 2	36	14-Jul-22	24-Aug-22	13-Jan-22	26-Feb-22			
AT-GRADE ROAD [AGR]	36	02-JuH21	12-Aug-21	04-Feb-22	17-Mar-22	A AT-GRADE ROAD (AGR)		
Permanent Structure	36	02-JuH21	12-Aug-21	04-Feb-22	17-Mar-22	Permainent Structure		
AGR - Formation to required level + SRT	18	02-Jul-21	22-Jul-21	04-Feb-22*	24-Feb-22			
AGR - Sub-base + SRT	18	23-JuH21	12-Aug-21	25-Feb-22	17-Mar-22			
DEPRESSED ROAD [DPR]	246	03-Mar-21	29-Dec-21	13-May-21 A				♦ DEPRESED ROAD [DPR]
Excavation & Strutting	11	11-Mar-21	16-Jun-21	17-May-21 A		& Strutting		
Shallow Section (46m)	Q	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A			
Excavation part 2 CH5948-CH6008	· ۲	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A	Excavation part 2;CH5948-CH6008		
Zone 3 (Ch6080 - 6121)	თ	16-Apr-21	26-Apr-21	17-May-21 A				
Excv to FEL (5,500m ³)	σ	16-Apr-21	26-Apr-21	17-May-21 A		EL (6,500m ³)		
Zone 4 (Ch6121 - 6150)	44	23 Apr -21	16 Jun-21	12-Jul-21 A		5121-6150)		
Strut S3 installation (4 nos)	œ	23-Apr-21	03-May-21	12-Jul-21 A	17-Jul-21 A	Struf S3 installation (4 nos)		
Excv to S4 (1,550m ^s) part 1	ę	04-May-21	06-May-21	19-Jul-21 A	21-Aug-21 A	Excv to S4!(1,550m²) pair 1		
Excv to S4 (1,550m ³) part 2	4	07-May-21	11-May-21	23-Aug-21 A	26-Aug-21 A	Export (1,550 nt²) pant/2		
Strut S4	4	04-Jun-21	08-Jun-21	28-Aug-21 A	30-Aug-21 A	Strut S4		
	Q	09-Jun-21	16 Jun 21	10-Sep-21 A	17-Sep-21 A			
Permanent Structure	198	03-Mar-21	01-Nov-21	13-May-21 A	25-Jan-22		Permanent Structure	
Shallow Section	23	17-Mar-21	24-May-21	19-Jul-21 A	30-Oct-21 A			
Part 2 (Ch5997 - 6008)	8	17-Mar-21	24-May-21	19-Jul-21 A	30-Oct-21 A			
Plate Load Test	0	17-Mar-21	22-Mar-21	19-Jul-21 A	24-Jul-21 A	Plate Load; lest		
Blinding	ວ ກ ເ	23-Mar-21	01 Apr -21	26-Jul-21 A	07-Aug-21 A			
Base Slab	17	0/ Apr 21	20-Apr-21	09-Aug-21 A	19-Aug-21 A			
Drainage, Watermain & UU	; 10	08-Apr-21	19 Apr 21	10-Aug-21 A	18-Aug-21 A	Drainage, Watermain & UU		
Ketaring Wall	18	21 Apr-21	12-May-21	2/ Sep-21 A	02-Oct-21 A		Wall	
Zone 1 (Ch6008 - 6045)		12-VIAN-CI	07_010_21	13 Mav 21 A	17 Nov. 21	Zoné 1 (Chél018, léndát)	5	
	00	17-IDM-07	17-6nv-10	A 12-Way-CI				
Blinding & Waterprooling	σ	Zb-Mar-Z1	12-1dA-80	13-May-21 A	A 12-00-80			····
Page 18 of 26		Summary						Date Revision Checked Approved
Oct-21	d Bar A divity		ED/.	2018/0	4 Trun	ED/2018/04 Trunk Road T2 and Infrastructure Works	POINCILLE	00V1 WYu 01V0 SPa/LLo
Actual Mess Actual Wess Actual Wess	Actual Miestone Actual Work			ئ ب	or Dev	for Developments at South Apron	BOUTGUES TRAVAUX PUBLICS	09-Apr-20 01V1 SPa/LLo WYu 17-Ju-20 01V2 SPa/LLo WYu
♦ ♦ Baseline Mile	Baseline Miestone Baseline Bar			Three	Month	Three Months Rolling Programme (Oct-21)		01V3 SPa/LLo
								02-JUI-21 02V0 SPALLO WYU

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	tere I Marrieden		2022	
Dana Clah	_	40 Apr 24	07 Acr 04	00 http://	26 I.I.24	04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 Bries Clab Bries Clab	17 24 31 07 14 21 28 05	12 19 26 02	09 16 23	<u>50 06 13 20</u>
Dase Oldo	<u>c</u> é	10-Apr-21	12-10A-12	08-Juri-21 A	4 1 2-101-07					
DCS PIPES	-	Zo-Mar-ZI	ZU-Apr-ZI	A 12-UUL 12	18-Sep-21 A					
South Apron Adit Wal	_	06-May-21	31-May-21	16-Aug-21 A	27-Sep-21A	South Apron Adit Wal	dit Wall			
Strut S3 removal		28-Apr-21	05-May-21	21-Aug-21 A	24-Aug-21 A	Struf S3 removal				
SP Removal		06-May-21	12-May-21	27-Sep-21 A	09-Oct-21 A	BS	SPRemoval			
Blinding & Waterproofing		13-May-21	20-May-21	11-Oct-21 A	13-Oct-21 A		Blinding & Waterpropfing			
Road Slab	_	01-Jun-21	15-Jun-21	14-Oct-21 A	18-Oct-21 A		Koad Siab			
Drainage, Watermain & UU		02-Jun-21	12-Jun-21	14-Oct-21 A	18-Oct-21 A		Drainage, Watermain & UU			
Waterproofing and Backfilling		16-Jun-21	25-Jun-21	19-Oct-21 A	23-Oct-21 A		Waterproofing and Backfilling			
Strut S1 removal		26-Jun-21	03-Jul-21	25-Oct-21 A	26-Oct-21 A	 	Shut S1;removal			
Retaining Wal	21	05-JuH21	28-Jul-21	26-Oct-21 A	06-Nov-21		Retaining Wall			
Waterproofing and Backfilling	6	29-JuH21	07-Aug-21	08-Nov-21	17-Nov-21		Waterproofing and Backfilling	l Backfilling		
Zone 2 (Ch6045 - 6080)	74	08-Apr-21	07-Jul-21	15-Jun-21 A	06-Nov-21	V Žone 2((Ch60#5 - 6080)				· · · · · · · · · · · · · · · · · · ·
Plate Load Test	2	08-Apr-21	13. Apr. 21	15-Jun-21 A	21-Jun-21 A	oad Test:				
Blinding & Waterproofing	6	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-Jul-21 A	04-Aug-21 A	Base Stab				
Strut S3 removal	9	13-May-21	20-May-21	07-Aug-21 A	14-Aug-21 A	Strut S3 removal				
South Apron Adit Wall	21	21-May-21	15-Jun-21	23-Aug-21 A	07-Oct-21 A	41nos	South Apron Adit Val			
Road Slab	12	16-Jun-21	29-Jun-21	08-Oct-21 A	26-Oct-21 A		Road Slab			
Drainage, Watermain & UU	6	17-Jun-21	26-Jun-21	09-Oct-21 A	25-Oct-21 A		Drainage, Watermain & UU			
Strut S1 removal	9	30-Jun-21	07-Jul-21	01-Nov-21	06-Nov-21		Strut S1 removal			· · · · · · · ·
Zone 3 (Ch6080 - 6121)		27-Apr-21	02-Aug-21	03-Jul-21 A	20-Nov-21	▼ Zohe 3 (¢n6089 - 6121)				
Plate Load Test (deleted)		27-Apr-21	03-May-21	03-Jul-21 A	03-Jul-21 A	If Plate Load Test (deleted)				
Blinding & Waterproofing		04-May-21	13-May-21	09-Jul-21 A	27-Jul-21 A	Bindingi& Waterproofing				
Base Slab	15	14-May-21	01-Jun-21	28-Jul-21 A	01-Sep-21 A	Base Slab				
Strut S3 removal		02-Jun-21	08-Jun-21	13-Sep-21 A	18-Sep-21 A	Strut S3 temoval				
South Apron Adit Wal	21	09-Jun-21	05-Jul-21	20-Sep-21 A	20-Oct-21 A		South Apron Adit Wall			
Road Slab	12	06-JuH21	19-Jul-21	21-Oct-21 A	03-Nov-21		Road Slab			
Drainage, Watermain & UU		07-JuH21	17-Jul-21	21-Oct-21 A	02-Nov-21		Diainage, Watermain & UU			
Strut S2 & S1 removal	12	20-JuH21	02-Aug-21	08-Nov-21	20-Nov-21		Struf S2 & S1 removal	emoval		
Zone 4 (Ch6121 - 6150)	147 (07-May-21	01-Nov-21	01-Sep-21 A	25-Jan-22		Zone 4 (Ċh6121 - 6150)			
Plate Load Test		07-May-21	12-May-21	01-Sep-21 A	03-Sep-21 A	Plate-Load Test				
Blinding & Waterproofing		13-May-21	20-May-21	27-Sep-21 A	02-Oct-21 A	Binding &	Blinding & Waterproofing			
Base Slab part 1		21-May-21	03-Jun-21	04-Oct-21 A	12-Oct-21 A		Base Slab part 1			
BS P2	_	25-Jun-21	06-Jul-21	13-Oct-21 A	19-Oct-21 A		BS P2			
Remove S4		07-JuH21	09-Jul-21	20-Oct-21 A	22-Oct-21 A		Remove S4			
BS P3	_	10-JuH21	16-Jul-21	22-Oct-21 A	25-Oct-21 A		B& B3			
BS P4	_	17-JuH21	27-Jul-21	26-Oct-21 A	28-Oct-21 A		BS P4			
Remove S3		28-Jul-21	06-Aug-21	29-Oct-21 A	30-Oct-21 A		Remove S3			
South Apron Adit Wall / Sump Pit	_	07-Aug-21	31-Aug-21	01-Nov-21	24-Nov-21		South Apron	south Apron Adit Wall / Sump Pit		
Road Slab	_	01-Sep-21	14-Sep-21	25-Nov-21	08-Dec-21			Road Slab		
	_	12-dac-ci	00 0 -+ 04	12-00-F0	31-DeC-21					
		00-001-71	20 Oct 21	77-100-00	10 Jai 22					
Stage 2B Completion - AGK, DPK, SAS, C&C & LS for I BM Access	_		20-Oct-21	:	13-Jan-22		>			וופנוסח - אטרא, טרוא, טי
Drainage, Watermain & UU	9	21-Oct-21	01-Nov-21	14-Jan-22	25-Jan-22	·····		·····	Dia	Drainage, Watermain & UU
Parte 19 of 26	Sur Sur	Summany						Date Revision	sion Checked	d Approved
Oct-21				018/00	4 Trun	ED/2018/04 Trunk Boad T2 and Infractructure Worke		18-Dec-19 00V1	WYu	
					5		(SPa/LLo	۳۸۸
				Í	or uev	tor Developments at South Apron	TRAVAUX PUBLICS	17- In 01V1	SPa/LLO SPa/LLO	η λνγι
Baseline Mestone				Ē					SPa/LLo	Μλη
Baseline Bai				Inree	MON	I nree Months Rolling Programme (Uct-21)			SPa/LLo	мУu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		20.					2022	
	_		20	4 FO 50	× 10 0 00	04 11 18 25 01	08 15 22 29 05 12 19 26	03 10 17 24 31 07	14 21 28 0	05 12 19 26	02 09 16	5 23 30 06	5 13 20 7
		U3-Mar-Z1	12-00		00-1								
	_	03-Mar-21	12-Mar-21	ZI JUN-12	A 12-00-02								
BH -6.85mPD		16-Apr-21	22 Apr -21	29 Jun 21 A	17-Jul-21 A	BH-6.85mPD							
BH -10.5mPD	_	07-May-21	13-May-21	29-Jul-21 A	07-Aug-21 A		BH-10.5mPD						
BH-15.15mPD	_	17 Jun-21	24 Jun 21	28 Aug 21 A	09-Sep-21 A		BH-15.15mPD						
Misselaneuos	_	21-Oct-21	28-Dec-21	14-Jan-22	24-Mar-22						Misselaneuos		
DPR- CH6080-6150 - Sheet Pile cutting	_	21-Oct-21	20-Nov-21	14-Jan-22	17-Feb-22								DPR-C
DPR - CH6080-6150 - Reinstatement Works	_	22-Nov-21	28-Dec-21	18-Feb-22	24-Mar-22								
Road & Drain		02-Nov-21	29-Dec-21	26-Jan-22	25-Mar-22						Road & Drain		
DPR - Drainage, Watermains & UU Installation CH5962-6080		02-Nov-21	29-Nov-21	26-Jan-22	25-Feb-22								
150	_	30-Nov-21	29-Dec-21	26-Feb-22	25-Mar-22								
WEST VENTILATION BUILDING [WVB]	201	14-Apr-21	11-Dec-21	11-Mar-21 A	11-Mar-22					WEST VENTILA	WEST VENTILATION BUILDING [WVB]	[WVB]	
Delay Events	0			21-Apr-21 A	12-Jun-21 A								
KP Drilling Stoppage - due to Fatal Accident	0			21-Apr-21 A	12-Jun-21 A	page - due to Fatal Accident							
ELS system & Foundation		14-Apr-21	19-Jul-21	11-Mar-21 A	20-Oct-21 A	ELS system & Foundation	oundațion						
Sheet Pile		14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A				4				
WVB - Sheet Piles Installation 100% completion	_	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A	WB-	WVB - Sheet Piles Installation 100% completion						
King Post	_	15-May-21	19-Jul-21	07 Jun-21 A	20-Oct-21 A	King Post							
North	88	15-May-21	30-Jun-21	07-Jun-21 A	06-Jul-21 A	North							
KP Installation & Grouting (KP9 & KP10) @ 2d/no		31-May-21	03-Jun-21	07-Jun-21 A	07-Jun-21 A	uiting (KP9 & KP10) @ 2d/np							
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15-May-21	20-May-21	26-Jun-21 A	02-Jul-21 A	KP Installation & Grouting (KP3 & KP4) @ 2d/no	& KP4) @ 2d/no						
KP Installation & Grouting (KP11 & KP12) @ 2d/ho	4	26-Jun-21	30-Jun-21	03-Jul-21 A	06-Jul-21 A	allation &	Growting (ĶP11 & KP12) @ 2d/h¢						
South	38	21-May-21	06-Jul-21	08 Jun 21 A	30-Jul-21 A	Sputh							
KP Installation & Grouting (KP5 & KP6) @ 2d/ho	4	21-May-21	25-May-21	08-Jun-21 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		l/no						
KP Installation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A	23-Jul-21 A	KP Irstallati	KP Installation & Grouting (KP1;& KP2) @ 2d/no						
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Jul-21	26-Jul-21 A	29-Jul-21 A		KP Drilling (KP7 & KP8) @ 2d/no						
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-JuH21	06-Jul-21	30-Jul-21 A	30-Jul-21 A		KP Install atton & Grouting (KP7, & KP8) @ 24/ho						
Steel Platform Location	39	02-Jun-21	19-Jul-21	21 Jun 21 A	20-Oct-21 A	 Steel Platform Location 	ocation						
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	09-Aug-21 A		📕 KP Drilling (DP1 - DP6) 6 nos @ 34/ho						
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Jul-21 A	14-Aug-21 A		KP Installation (DP1 - DP6) 6 nos @ 2d/no						
Steel Deck Erection	8	28-Jun-21	19-Jul-21	06-Oct-21 A	20 Oct 21 A			Steel Deck Erection					
Wells Installation	64	21-May-21	08-Jul-21	26-Jul-21 A	04-Sep-21 A	✓ Wells Installation							
North	22	21-May-21	16-Jun-21	26-Jul-21 A	02-Sep-21 A								
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	9	21-May-21	27-May-21	26-Jul-21 A	10-Aug-21 A		Pumping Well Installation - 6 nos x 2 rigs(Zone 3)	e-3)					
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	9	01-Jun-21	07 Jun-21	23-Aug-21 A	28-Aug-21 A		Pumping Well Installation - 6 nps x 2 rgs (Zone 1):	nps x 2 rigs (Zpne 1)					
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		Pumping Well Installatio	Pumping Well Installation - 7 nos x 2 rigs (Zorie 2)					
South	34	28-May-21	08-Jul-21	12-Aug-21 A	04-Sep-21 A	 South 							
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)		28-May-21	31-May-21	12 Aug 21 A	04-Sep-21 A			Pumping Well Installation - 3 nos x 2 rigs (Zone 6)					
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)		07-JuH21	08-Jul-21	23-Aug-21 A	25-Aug-21 A		🗖 Pumpinjg Well Installation -: 2 nds x 2 rigs (Zone 5)	s x 2 rigs (Zone 5)					
Steel Platform Location		24-Jun-21	03-Jul-21	11-Aug-21 A	18-Aug-21 A	Steel Platform Location							
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)	∞	24-Jun-21	03-Jul-21	11-Aug-21 A	18-Aug-21 A		Pumping Well Installation -11 nos x 3 rigs (Zone 4)	rigs (Zone 4)					
Excavation & Strutting	131	09-JuH21	11-Dec-21	06-Sep-21 A	11-Mar-22	-				Excavation & Str	rutting		
Pumping Test	12	09-JuH21	20-Jul-21	06-Sep-21 A	18-Sep-21 A		Pumping Test	Test					
Excavation to below Strut S1 10,010m ³	17	21-JuH21	09-Aug-21	20-Sep-21 A	05-Nov-21			Excava	Excavation to below \$trut S1 10,010m3	1 10,010m ³			
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			בחו	0/01 07	unu t		z and mirastructure works		IEC				WYu
Actual Mestone Actual Work				Ŧ	or Dev	for Developments at	at South Apron	TRAVAUX PUBLICS	UES JBLICS	09-Apr-20 01	01V1	SPa/LLo V	WYu WW:
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Activity Name	Dur 02V0 Start	art 02V0 Finish	ish Start	Finish	- The second sec	202 Avenuet Contembor	Adabas Natabas	Decombos	2022 Januari I Echanori
D.H. Francisco 201		2	00 E 20		04 11 18 25	01 08 15 22 29 05 12 19 26	19 26 03 10 17 24 31 07 14	21 28 05 12 19 26 1	02 09 16 23 30 06 13 20
Bulk Excavation Start			_		>				
Strut S1 Installation	-						S 1045	Strut \$1 Installation	
				_				Strut S1 Pre-bading	C
Excavation to below Strut S2 11,076m ³	_	_		_				Excavation to below Strut S2 11,076m ³	tt S2 11,076m³
Strut S2 Installation		_						Strut S2 Installation	lou
Strut S2 Pre-loading	_		_			Q		Strut S2 Pre pading:	- 4
Excavation to below Strut S3 11,905m ³		_	_						Excavation to below Strut \$3 11,905m ³
Strut S3 Installation	20 28-Sep-21	21 22-Oct-21	21 22-Dec-21	17-Jan-22					Strut S3 Installation
Strut S3 Pre-Hoading	2 23 Oct 21	21 25-Oct-21		19-Jan-22					Strut S3 Pre-Loading
Excavation to below Strut S4 8,930m ³	15 26-Oct-21	21 11-Nov-21	21 20-Jan-22	09-Feb-22					Excavation to
Strut S4 Installation									
Strut S4 Pre-Joading	2 23-Nov-21	21 24-Nov-21	21 21-Feb-22	22-Feb-22					\$ ■
Excavation to FEL 9,230m ³	15 25-Nov-21	21 11-Dec-21	21 23-Feb-22	11-Mar-22					
SUPPORTING UNDERGROUND STRUCTURE [SUS	120 20-Oct-21	21 15-Mar-22	22 15-Dec-21	30-Apr-22					
Permanent Structure	42 20-Oct-21	21 07-Dec-21	21 15-Dec-21	21-Jan-22			· · · · ·	 Permanent Structure 	
SUS - EB Partition Wall CH6150-6260	30 03-Nov-21	21 07 Dec 21	21 15 Dec 21*	21 Jan 22					SUS EB Partition Wall CH6150
SUS - WB Partition Wall CH6150-6237	24 20-Oct-21	21 16-Nov-21	21 20-Dec-21*	19-Jan-22					SUS - WB Partition Wall CH61504
Tunnel Internal Structure & Finishing	96 17-Nov-21	21 15-Mar-22	22 20-Jan-22	30-Apr-22				· · · · ·	· · · · · · · · · · · · · · · · · · ·
Westbound	18 17-Nov-21	21 07-Dec-21	21 20-Jan-22	12-Feb-22				Westbound	
SUS - WB - ISCG Assembly	18 17-Nov-21	21 07-Dec-21	21 20-Jan-22	12-Feb-22					SUS WB
Eastbound	78 08-Dec-21								
SUS - EB - ISCG Assembly	18 08-Dec-21	21 30-Dec-21		15-Feb-22					SUS - EB
SUS - EB - Corbel Structure				30-Apr-22				-U	
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	211 05-May-21	-21 15-Jan-22	22 18-May-21 A	A 11-Mar-22					C&C TUNNEL / LAUNCHING SHAFT
Delay Events	0		28-May-21 A	A 27-Aug-21 A					
C1-15 Zone 2 Pour 2 Remedial works	0		28-May-21 A	A 03-Jun-21 A	emedial works				
C1-15 Zone 2 Pour 3 Remedial works	0		04-Jun-21 A	4 08-Jun-21 A					
C1-15 Zone 3 Remedial works	0		27-Jun-21 A	03-Jul-21 A		ledial works;			
C1-15 Zone 4 Pour 1 Remedial works	0		08-Jul-21 A	16-Jul-21 A	C1-15 Zone	Zone 4 Pour 1 Remedial works:			
C1-15 Zone 4 Pour 2 Remedial works	0		27-Jul-21 A			C1-15,Zone 4 Pour,2 Remedial works			
C1-15 Zone 4 Pour 3 Remedial works	0		06-Aug-21 A			C1-15 Zone 4 Pour 3 Remedial works			
C1-15 Strengthening Wall Strength Gain	0		12-Aug-21 A	A 15-Aug-21 A		C1-15 Strengthening Wall Strength Gain			
Cross Wall X1 Breaking						Cross Wall X1 Breaking			
Shaft Excavation & Strutting					Shaft Excav	Excavation & Strutting	·		
Cut & Cover		_	-		Cut & Cover				
Excavation (2,817m ³) up to level -24.6mPD			_		1 (2,817m ³) up to level 24.6mPD			·	
S6 Steel Struts	12 18-Jun-21	21 02-Jul-21			S6 Steel Struts				
Pumping Test Trial		_	_		Pumping Test Trial				
Excavation (2,567m ³) to FEL (-28.7mPD)					Excavation	ation [2,567m³) to FEL (-28.7mPD)			
Cell 2									
Excavation up to level -26.45mPD		-21 18-May-21	21 18-May-21 A		b to level - 26.45mPD				
Excavation (6,809 m ³) to FEL -32.63mPD					Exce	Excavation (6,809 m ³) to FEL -32 63 mPD			
Cell 1									
Excavation up to level -26.45mPD	_	_	-		eli-26.45mPD				
Excavation (6,809 m ³) to FEL -33.75mPD	9 20 May-21	21 29-May-21	21 08 Jun 21 A	07-Aug-21 A		Excavation (6.809 m³) tộ FEL -33.75 mPD		 	
		_							Chaobad
Page 21 of 26 Para Bare Bar Carana day Carana day	Summary	Ш	0/2018/	04 Trur	ED/2018/04 Trunk Road T2	72 and Infrastructure Works		18-Dec-19 00' 22-Feb-20 01'	
				TOL UE	elopments	tor Developments at South Apron	TRAVAUX PUBLICS	08-Apr-20 17-Jul-20	SPa/LLO SPa/LLO
			Thre	e Mont	Three Months Rolling F	Programme (Oct-21)		09-Oct-20 01V3	
		_	•))		or are u

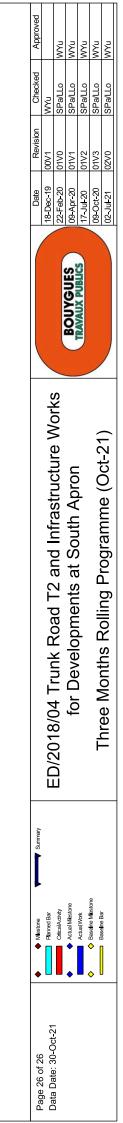
Activity Name	Dur (02V0 Start	02V0 Finish	Start	Finish			202	
Chill Works for TBM Assambly	111	02-lun-21	15-Oct-21	03-111-21 A	06-Dec-21	64	11 1 18 25 01 08 15 22 29 05 12 19 26 03 1	0 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06	3 13 20 7
		16-JuH21	15-Oct-21	10-Jul-21 A	26-Oct-21 A			Cut & Cove	
C&C Excavation completion	0		16-Jul-21		10-Jul-21 A	•	◆ C&C Excavation completion		
Barrette Trimming	9	17-JuH21	23-Jul-21	12-Jul-21 A	21-Jul-21 A		Barrette Trithming		
Blinding & Waterproofing Pour 15		24-JuH21	03-Aug-21	22-Jul-21 A	19-Aug-21 A		Blinding & Waterprojofing Pour 15		
Base Slab Pour 5 [1,740m ³)		04-Aug-21	07-Sep-21	20-Aug-21 A	18-Sep-21 A		Base Slab Pour 5[1,740m ³		
C&C S5 & S6 Strut Removal		08-Sep-21	21-Sep-21	20-Sep-21 A	12-Oct-21 A			C&CS5&S6 Brut Kemoval	
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)		23-Sep-21	04-Oct-21	13-Oct-21 A	21-Oct-21 A			WB SGS BH jremovjal (145m²/8;4m²/s/nit x2 shift)	
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	_	05-Oct-21	15-Oct-21	22-Oct-21 A	26 Oct 21 A			Els SUS BH removal (145m² / 8.4m²/shift x 2.shift)	
Cell 1 & 2	_	02-Jun-21	09-Sep-21	03-Jul-21 A	06-Dec-21		Cell 18 2		
VSL Gantry Crane Setup	6 c	30-Jun-21	14-Jul-21	03-Jul-21 A	24-Aug-21 A		VSL Gantry Crane Setup		
Vell Control Completion	_	45 Int 04	12-100-20	DE Aux 24 A	A 12 UNA 10				
vol Gality viane Load rest Base Slab	v 8	03-Jun-21	09-Sep-21	15-Jul-21 A	20-Aug-21 A				
ateproofing Pour 1	_	10-Jun-21	17-Jun-21	15-Jul-21 A	28-Jul-21 A		Blinding & Wậteproófing Pour 1		
Base Stab Pour 1 [1,292m ³]	-	18-Jun-21	14-Jul-21	29-Jul-21 A	21-Aug-21 A		Base Slab Pour 1:[1 292m ³]		
Plate Load Test		03-Jun-21	09-Jun-21	16-Aug-21 A	21-Aug-21 A		Plate Load Test		
Blinding & Waterproofing Pour 2		18-Jun-21	28-Jun-21	28-Aug-21 A	07-Sep-21 A		Blinding & Waterpropring Pour 2	2	
Blinding & Waterproofing Pour 3 & 4		29-Jun-21	09-Ju l- 21	30-Aug-21 A	20-Sep-21 A		Blinding & Waterproofing Pour 3 & #	oofing Pour 3 & #	
Base Slab Pour 2 [883m ³)	_	15-JuH21	26-Jul-21	13-Sep-21 A	07-Oct-21 A		Ba	Base Slab Pour 2 (883m ³)	
Base Slab Pour 3 & 4 [910m ³)		27-JuH21	04-Aug-21	27 Sep 21 A	16-Oct-21 A			🖬 Base Slab Pour 3,& 4 (\$10m ³);	
Temp. & Perm. Side Wall part 1 Town & Down Side Mail port 2	о ч	14-Aug-21 03 Son 21	24-Aug-21	30 Mov. 21 A	23-Oct-21 A			Temp. & Perm. S/de Wall part 1	
			24 Aug 24	1 2-4041-00	20 Nov. 24		Tumbali		
stemmoniting		03-Jun-21	12 Jun 21	26-Jul-21 A	11-001-02		Blinding & Watermofing		
Tympanum Pour 1 + Seal Rings (353m ³)	_	15-Jun-21	28-Jun-21	12-Aug-21 A	31-Aug-21 A		Tympanum Pour 1 + Seal Rings (353 m);		
Tympanum Pour 2 + Seal Rings	9	07-Jul-21	13-Jul-21	01-Sep-21 A	10-Sep-21 A		Tympanum Pour 2 + Seel Rings		
TYmpanum Mass Fill	0			11-Sep-21 A	14-Sep-21 A		TY mpanum Mass Fill		
Tympanum Pour 3 + Seal Rings	10	14-JuH21	24-Jul-21	15-Sep-21 A	30-Sep-21 A		International Action of the second seco	Tympanum Pour 3 + Seal Rings	L
Tympanum Pour 4 + Seal Rings		26-JuH21	05-Aug-21	02-Oct-21 A	30-Oct-21 A			Tympanum Pour 4 + Seal Rings	
Tympanum Pour 5 Seal Rings		06-Aug-21	21-Aug-21	01-Nov-21	11-Nov-21			Tympanum Poulr 5 Seal Rings	
Falseworks removal				12-Nov-21	29-Nov-21			Falseworks remioval	
orks	_	03-Jan-22	15 Jan 22	26-Feb-22	11-Mar-22			Tunnel Permanenti Wort/s	orks
Cell 1/2 Westbound	5 12 5	03-Jan-22	15-Jan-22	26-Feb-22 26 Feb-22	11-Mar-22			Cellin	
	_	24 0ot 00	10 Eob 20	20-LEU-22	22-19M-11				
		30-Mar-21	29-Jun-21	21-001-20 A	22-Jul-21 A	TBMDesig	IBM Design / Fabrication / FAT / Delivery		
	24 3	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A				
Delivery of TBM components to the Site	48	03-May-21	29-Jun-21	10-Jun-21 A	22-Jul-21 A		Delivery of TBM components to the Site		
		15-May-21	12-Feb-22	31-May-21 A	06-Apr-22				Preoast Fab
		15-May-21	04-Feb-22	31-May-21 A	06-Apr-22			 TBM 	TBM Precast Segmi
		15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A		Precast TBM Segment - 40%	Decords 1 TBM Scorence 4 6000	
	об К	3-JUR-21	10-Aug-21	UZ-AUG-Z1 A	02-UCT-ZT A 23-Mov-21			Tow over the second secon	
	_	17-00-11	21-3ep-21		12-7001-62				
Precast IBM Segment - /0%	92 92	23-Sep-21	12-vov-c0	24-Nov-21	U/ Jan-22				
Parre 22 of 26	Sur	Summary						Date Revision Checked 4	Approved
Data Date: 30-Oct-21			ED/2	ED/2018/04 Trunk Road T	4 Trun	k Rc	2	18-Dec-19 00V1 WYu 22-Feb-20 01V0 SPa/Lo WY De-An-20 01V1 SPa/Lo WY	WYu WWi
Actual Work				2		dola	n	00 Cot 20 01/2 SPALLO	WYu MV
Baseline Bar				Three	Three Months Rolling	hs R	olling Programme (Oct-21)	02V0 SPa/LLo	WYu
								-	

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	-	Anoniet	2021 201	Naromhor	Docember	2022	Eohnion.
	, v	De Mari 24	10 0 0 F	00	20 F H 20	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 30 0	6 13 20 7
Precast TBM Segment - 80%	ĸ	06-Nov-21	17-Dec-21	08-Jan-22	22-Feb-22							۲
Precast TBM Segment - 90%	ж	18-Dec-21	04-Feb-22	23-Feb-22	06-Apr-22							
Service Gallery	156	29-Jun-21	04-Jan-22	19-Jul-21 A	12-Mar-22						Service Gallery	
Precast Service Gallery - Mould Design	73	29-Jun-21	27-Jul-21	19-Jul-21 A	18-Sep-21 A			Precast Service Gallery - Mould Design				
Precast Service Gallery - Mould Fabrication & Setup		28-Jul-21	07-Sep-21	20-Sep-21 A	13-Nov-21				Predast S	Predast Service Gallery - Mould Fabrication & Setup	cation & Setup	
Precast Service Gallery - Mass Production Start	_	08-Sep-21		15-Nov-21			◇		 Precast 	 Precast Service Gallery - Mass Production Start 	uction Start	
Precast Service Gallery - 3%	54	08-Sep-21	07-Oct-21	15-Nov-21	11-Dec-21					Predast Service	Gallery - 3%	
Precast Service Gallery - 6%	24	08-Oct-21	05-Nov-21	13-Dec-21	12-Jan-22						Precast Service Gallery - 6%	-6%
Precast Service Gallery - 10%	24	06-Nov-21	03-Dec-21	13-Jan-22	12-Feb-22					 		Precast Sen
Precast Service Gallery - 20%	24	04 Dec-21	04 Jan 22	14-Feb-22	12 Mar 22							
OHVD Slab	72	15-Nov-21	12-Feb-22	18-Dec-21	18-Mar-22							OHVD Slab
Concrete Mix - Plant Trial	72	15-Nov-21	12-Feb-22	18-Dec-21*	18-Mar-22							
Precast OHVD Slab - Mould Fabrication & Setup	72	15-Nov-21	12-Feb-22	18-Dec-21*	18-Mar-22							
	293	31-Oct-20	27-Oct-21	27-Oct-20 A	04-Dec-21				Site Establishment			
Temporary CLP 132kV Substation	221	31-Oct-20	31-Jul-21	27-Oct-20 A	31-Aug-21 A	Te	Temporary CLP (32kV Substation					
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192	31-Oct-20	26 Jun-21	27-Oct-20 A	02-Aug-21 A		Temp CLP 132kV Substation - CLP Transformer, Setup & Final Fix	Transformer, Setup & Final Fix				
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	03-Aug-21 A	31-Aug-21 A		Temp C	Temp CLP 132kV Substation - FSD / WSD Inspection	D Inspection			
Temp CLP 132kV Substation - Power On	0		31-Jul-21		31-Aug-21 A	~	Temp C	Temp CLP 132kV Substation - Power On				
Precast Elements Storage Yard	99	02-Nov-20	20-Jan-21	07-Jun-21 A	20-Nov-21							
Precast Storage - RC beam & Rail installation	24	02-Nov-20	28-Nov-20	07 Jun 21 A	31-Jul-21 A		Precast Storage - RC beam & Rail installation	istallation				
Precast Storage - Delivery & Assembly	8	30-Nov-20	13-Jan-21	02-Aug-21 A	13-Nov-21				Precast S	Precast Storage - Delivery & Assembly	λ	
Precast Storage - Commissioning & Load Test	9	14-Jan-21	20-Jan-21	15-Nov-21	20-Nov-21					Precast Storage - Commissioning &	ng & Load Test	
Gantry Crane Setup for TBM Assembly	99	04-Mar-21	26-May-21	21-May-21 A	28-Aug-21 A	sembly						
Gantry Crane - RC beam & Rail installation	24	04-Mar-21	31-Mar-21	21-May-21 A	30-Jun-21 A	Gantry Cranel-RC beam & Rail	am & Rail installation					
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21	28 Jun 21 A	24-Aug-21 A		Gantry Grane	Gantry Grane - Delivery & Assembly				
Gantry Crane - Commissioning & Load Test	9	20-May-21	26-May-21	25-Aug-21 A	28-Aug-21 A		Gantry Cr	Gantry Crane - Commissioning & Load Test				
Slurry Treatment Plant	156	04-Mar-21	10-Sep-21	18-Feb-21 A	04-Dec-21			Slurry Treatmen: Plant		· • • • • • •		
Slurry Treatment Plant - Civil works	æ	04-Mar-21	19-Apr-21	18-Feb-21 A	04-Sep-21 A		Slur	Slurty Treatment Plant Civil works				
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	20-Sep-21 A			Slurry Treatment Plan	Slurry Treatment Plant - Delivery & Assembly			
Slurry Treatment Plant - Installation	48	20-May-21	16-Jul-21	20-May-21 A	25-Oct-21 A				Slurry Treatment Plant - Installation	stallation		
Slurry Treatment Plant - Commissioning	24	17-Jul-21	13-Aug-21	11-Oct-21 A	06-Nov-21				Sluriy Treatmen	Sluriy Treatment Plant - Commissioning		
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	08-Nov-21	04-Dec-21					Sluriy Treatment F	Stury Treatment Plant CNP Application	
Mortar Plant	108	18-Jan-21	02-Jun-21	15-Jul-21 A	13-Nov-21							
Mortar Plant - Civil works	œ	18-Jan-21	04-Mar-21	15-Jul-21 A	18-Sep-21 A			Mortar Plant - Civil works				
Mortar Plant - Installation	48	04-Mar-21	04-May-21	02-Aug-21 A	25-Sep-21 A			Mortar Plant - Installation				
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	27-Sep-21 A	13-Nov-21				Mortar PI	Mortar Plant - Commissioning		
DG Store / Medical Lock	267	01-Dec-20	27-Oct-21	01-Dec-20 A	01-Dec-21				DG Store / Medical Lock			
Hyperbaric Intervention - LD consultation & Approval	144	01-Dec-20	31-May-21	01-Dec-20 A	06-Sep-21 A			Hyperbaric Intervention - LD consultation & Approval				
DG Store / Medical Lock Installation		02-Aug-21	27-Sep-21	07-Sep-21 A	03-Nov-21				DG Store / Médical Look Iristallation	I Lock Installation		
DG Store / Medical Lock - FSD Approval		28-Sep-21	27-Oct-21	04-Nov-21	01-Dec-21					DG Store / Medical Lock - FSD Approval	ock - FSD Approval	
TBMAssembly	113	18-Jul-21	01-Dec-21	22-Jul-21 A	24-Dec-21	÷		· · · · ·	· · · · ·	TBM Assembly	+	
WB TBM 1st Delivery	0		18-Jul-21		22-Jul-21 A	◆ ◆ WB TBM 1	VB TBM 1st Delivery					
Lifting S5/S6/S4/Cross Beam	0			30-Aug-21 A	01-Sep-21 A		Eiting	Lifting \$5/S6/S4/Cross Beam				
Main Drive with displacement Cylinder	•			02 Sep 21 A	04-Sep-21 A			Main Unvewith displacement Cylinder				
Litting S3/S7/S2/S8 & S1 Installation	0			05-Sep-21 A	11-Sep-21 A		 					
	°	Summary								Date	Revision Checked	Approved
-Oct-21			ED/.	2018/0	4 Trur	ED/2018/04 Trunk Road T2 a	2 and Infrastructure Works	ure Works	BOILVEILEE	18-Dec-19 22-Feb-20	WYu SPa/LLo	WYu
					or De/	tor Developments at	at South Apron	_	TRAVAUX PUBLICS	09-Apr-20 17-Jul-20		WYu WYu
Sasafra Masione Basefra Bar				Three	Mont	Three Months Rolling Pro	Prodramme (Oct-21)	<u>+-</u> 21)		09-Oct-20		WYu
								1			SHallLO	٨٨u

Activity Name	Dur 02V0 Start	02V0 Finish	Start	Finish			-	2021		202
			_		04 11	8 25 01	08 15 22 29	05 12 19 26 03 7	03 10 17 24 31 07 14 21	21 28 05 12 19 26 02 09 16 23 30 06 13 20 7
Shield Bolts torquing & Interior Shiled Joint Welding	0			01-Oct-21 A				Shield B	Ats torquing & Interior Shiled Joint We	ding:
Cutterhead Installation	0			02-Oct-21 A				I Cutterhe	Cutterhead Installation	
Cutterhead Connection to Shield	0			12-Oct-21 A					Cutterhead Connection to Shield	
Shield Shifting	0			14-Oct-21 A					I Shield Shifting	
1st Shiffing of TBM	0			14-Oct-21 A					1 1st Shifting of TBM	
Erector Preparation & Installation	0			17 Oct 21 A					Erector Preparation & Installation	
Final Shield Joint Welding	0			21 Oct 21 A					Final Shield Joint Welding	
Installation Welding Plate on Top S1	0			22-Oct-21 A					I Installation Welding Plate on Top \$1	n Top \$1
Lifting & Welding of Tailskin to Shield	0		-	08-Nov-21					Lifting & W	Lifting & Welding of Tailskin to Shield
Thrust Frame Installation	0			17 Nov-21					F	Thrust Frame Installation
Gantry Rail Wall Installation	0		09-Nov-21	18-Nov-21						Gantry Rail Wall Installation
Gantry 4 Assembly	0		18-Nov-21	21-Nov-21						Gantry4 Assembly
Gantry 3 Assembly	0		21-Nov-21	23-Nov-21						Gantry 3 Assembly
Gantry 2 Assembly	0			26-Nov-21						
Segment Feeding Installation	0		26-Nov-21	28-Nov-21						Segment Feeding Installation
Gantry 1 Assembly	0		28-Nov-21	01-Dec-21						Ganty 1 Assembly
Air / Water / Hydraulic Electrical Connections	0		01-Dec-21	10-Dec-21						Air / Water / Hydraulic Electrical: Connections
Power On	0		10-Dec-21	11-Dec-21						Power On
Testing & Commissioning	0		11-Dec-21	24-Dec-21						Testifig & Commissioning
S1281 WB TBM Break-in	0			24-Dec-21						♦ S128 WB TBM Break-in
WB TBM Break-in										◆ WB BM Break-in
TBM Tunnelling		07-Jan-22		04-Mar-22						TBM:Tunnelling
WB TBM Tunnelling CH6642-6665 B/I Plug 23m		15-Dec-21	26-Jan-22	09-Feb-22						
WB TBM Tunnelling CH6665-6710 ALL/CDG 68m		31-Dec-21		25-Feb-22						
WB TBM Tunnelling CH6710-6756 ALL/CDG 114m		07 Jan-22		04-Mar-22						
SUB-SEA TBM TUNNEL - EASTBOUND		18 Jan-22		13-Mar-22			•			SUB-SEATEM TUNNEL - EASTER
TBMAssembly	110 19-Aug-21	03-Jan-22	06-Sep-21 A	26-Feb-22						TBM Assembly
EB TBM 2nd Delivery	0	19-Aug-21		06-Sep-21 A			\$	EBTBM 2nd Delivery		
Lifting S5/S6/S4/Cross Beam	0		_	18-Sep-21 A				Lifting S5/S6/S4/Cross Beam	ss Beam	
Main Drive with displacement Cylinder	0			25-Sep-21 A				Main Drive wit	Main Drive with displacement Gylinder	
Lifting S3/S7/S2/S8 & S1 Installation	0			12-Oct-21 A					Lifting S3/S7/S2/S8 & S1 Installation	
Shield Bolts torquing & Interior Shiled Joint Welding	0			21-Oct-21 A					Shield Botts torquing & Interior Shiled Joint Welding	ior Shiled Joint Welding
Cutterhead Installation	0			26-Oct-21 A						
Cutterhead Connection to Shield	0			28-Oct-21 A					Cutterhead Connection to Shield	on to/Shield
Shield Shifting	0			29-Oct-21 A					Shield Shifting	
Erector Preparation & Installation	0 0		30-Oct-21 A	02-Nov-21						on & installation
FINA STIERD JOINT WERANG Liaing & Mutating & Chinal										
Lining a weating of taiskin to Sineau Installation Moderna Disto on Ton Si			-	12-VUV-02						· · · =
Shifting of TRM to BUL Accession			28-Nov-21	30-Nov-21						Shiftino of TBM to BUL location
Thrust Frame Installation	· 0		30-Nov-21	09-Dec-21						Thrust Frame Installation
Gantry Rail Wall Installation	0		_	10 Dec 21						Ganty Rail Wall histal aton
Ganty 4 Assembly	0			13-Dec-21						Gantry 4 Assembly
Gantry 3 Assembly	0		13-Dec-21	15-Dec-21						Ganty3 Assembly
Gantry 2 Assembly	0		15-Dec-21	18-Dec-21						🛑 Ganfry 2 Assembly
Ť			-	-	-	-	-	-	-	- - - -
Page 24 of 26	Summary			ŀ	ſ	1				Date Revision Checked Approved
		ED/2	ED/2018/04 Trunk Road	- Trunk	Road		nd Intrastrue	2 and Intrastructure Works		22-Feb-20 01V0
Actual Miestone Actual Miestone			9 D	r Deve	lopme	ents a	for Developments at South Apron	n	BOUYGUES	09-Apr-20 01V1 SPa/LLo
					-		-			01/2 SPa/Lo
Baseline Bar			Three	Three Months Rolling	s Rolli		Programme (Oct-21)	Oct-21)		03-061-20 01V3 SPALLO WYU 02-111-21 02V0 SPALLO WYU
										2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Activity Name	Dur 02V0 Start	rt 02V0 Finish	h Start	Finish	2021		2022 :
					July August Location July August July July	24 31 07 14 21 28 05 12 19 26	02 09 16 23 30 06 13 20 7
Segment Feeding Installation	0		18-Dec-21	19-Dec-21			Segment Feeding Installation
Gantry 1 Assembly	0		19-Dec-21	22 Dec-21		Ganty	y'1 Assembly
Air / Water / Hydraulic Electrical Connections	0		22-Dec-21	02-Jan-22			Air (Water / Hydraulic Electrical Connections
Power On	0		03-Jan-22	04-Jan-22			Power On
Testing & Commissioning	0		04-Jan-22	17 Jan 22			Testing & Commissioning
S 1282 EB TBM Break-in				17-Jan-22			S1282 EB TBM Break-in
EB TBM Break-in	_	_	_				•
TBM Tunnelling		_		13-Mar-22			TBM Tuhrielling
-		_		13-Mar-22			
(CP7-CP27a				19-Mar-22			
CP TBM Design / Fabrication / FAT / Delivery	-			26-Jan-22			
Fabrication / Refurbishment				27-Nov-21			Fabrication / Refutbishment
Design	72 05-May-21	21 30-Jul-21	1 01-Jun-21 A	30-Jul-21 A	Design		
FAT		2 22 Feb 22	2 29-Nov-21	28-Dec-21			E
Delivery of TBM components to the Site		2 22-Mar-22	_	26-Jan-22			
CP Precast Lining Fabrication				19-Mar-22			CP Preda
Concrete Mix - Plant Trial				19-Feb-22			Concr
CP Precast Lining Segment - Mould Fabrication & Setup		_	_				
CHA KWO LING ROAD WORKS	30 24-Apr-21		1 19-Apr-21 A	13-Nov-21	ORKS		
Wai Yip Street / Cha Kwo Ling Road Junction				13-Nov-21	rig Road Junction		
Reinstatement	30 24-Apr-21		1 19-Apr-21 A	13-Nov-21		Reinstatement	
Section 8E Completion	_	-	-	13-Nov-21		Section 8E: Completion	
DRILL & BREAK TUNNEL [D&BR]				11. Apr-22			
Precast Fabrication	_		-	13-Nov-21			
Precast Service Gallery - Mould Fabrication & Setup		21 05-Jun-21	-	16-Jul-21 A			
Precast Service Gallery - Mass Production Start	_				🗬 Precast Service Gallery + Mass Production Start		
Precast Service Gallery				13-Nov-21		Predast Selvice Gallery	
Tunnel Excavation			_	11-Apr-22			V Tunnel Excavation
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	_	_		19-Oct-21 A		EB - D&Br Turnel - CH9055-9040 Type D - Excavation Top	L L L L L L C C C C C C C C C C C C C C
EB - D&BY IUNNEI - CH304 U-9025 1996 D - EXCAVATON 100	_	_	•	U Dec 21			per point and the production of the production o
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72 26 Sep 21		1 31-Oct-21	10-Jan-22 00 Dec 24			EB-D&Brunnel-CH90559020 1ype D
	_	_	_	17 -DEC-21			EP D8br Tunnol OH0005 00010 Tunno D
EB - D&Br Turnel - CH9U25-9010 Type D - Excavation Top FR - D&Br Turnel - CH000208000 Turne D - Evrenation Rench & SG	40 24-5ep-21 60 07-Dec-21	1 02-N0V-21	1 03-Dec-21	11-Jan-22 11-Mar-22			
EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	_	_		19-Feb-22			
Probe hole at CH 8995	_	-	-	20-Feb-22		5	
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top				11-Apr-22			
DRILL & BLAST TUNNEL [D&BL]	332 14-Jan-21	1 28-Feb-22	2 05-Apr-21 A	01-Apr-22			
Tunnel Excavation	286 14-Jan-21	1 31-Dec-21	1 05-Apr-21 A	07-Feb-22			Tunnel Excavation
Eastbound	176 02-Jun-21	1 31-Dec-21	1 13-Apr-21 A	07-Feb-22			Eastbound
Full Face Drill & Blast	176 02-Jun-21	1 31-Dec-21	1 13-Apr-21 A	07 Feb-22			Full Face Drill & Blast
EB - D&BI Tunnel - CH9088-9055 Type D - Excavation	_			25-Jun-21 A	EB-D&BITunnel-CH9088-9055 Type D-Excavation		
EB - D&BI Tunnel - CH9160-9055 Type B/C/D - Enlargement	70 06-Jul-21	1 25-Sep-21	1 18-Jun-21 A	13-Sep-21 A		- D&BI frunnel - CH9160-9065 Type B/C/D - Enlargement	
Probe hole at CH 9055	1 05-Jul-21	1 05-Jul-21	1 26-Jun-21 A	26-Jun-21 A	Probe hdle at CH 3055		
EB - D&BI Tunnei - Branch Tunnel S01	28 27 Sep-21	:1 30-Oct-21	1 01-Nov-21	02-Dec-21		EB - D&BI Tumel - Branch Tumel S01	ch Tunnel S01
	Summer	_				Date	Revision Checked Approved
			0/01/00/0	L T Z	ED (2010/01 Trinch Dood T? and Infractructure Morke	18-Dec-19 0	Mγu
			יובט וס/ר יובט וס/ר	t ur		22-Feb-20	SPa/LLo
A Actual Mestone Actual Westone Actual Work			+	or Dev	for Developments at South Apron		
I Baseline Mestone			i	;		09-Oct-20	SPa/LO SPa/LO
Baseline Bar			Three	B Montl	Three Months Rolling Programme (Oct-21)	02-Jul-21 00	
		-					

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		2021	2022
					1	40	Udly A August September October November December 1 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 30 06 13 20 7
EB - D&BI Tunnel - CH9240-9055 - Bench Excavation & SG	51	01-Nov-21	31-Dec-21	03-Dec-21	07-Feb-22	+ +		
Westbound	170	14-Jan-21	12-Aug-21	05-Apr-21 A	25-Oct-21 A		Mestbound	
Full Face Drill & Blast	170	14-Jan-21	12-Aug-21	05-Apr-21 A	25-Oct-21 A		Full Face Drill & Blast	
WB - D&BI Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23 Jul 21 A	-	WB - D&BI Tunnet - CH9246-9238 Type A - Excavation	
WB - D&BI Tunnel - CH9158-9138 Type A - Excavation	26	31-May-21	30-Jun-21	25-May-21 A	26-Jun-21 A	WB - D&E	MB - D&BI Tuinrel - CH9158-9138 Type A - Excavation	
WB - D&BI Tunnel - CH9258-9138 - SG Excavation	98	02-JuH-21	12-Aug-21	26-Jul-21 A	25-Oct-21 A		WB - D&BI Turnel - CH9258-9 138 - SG Excavation	
Tunnel Structure WB Type A	143	13-Aug-21	05-Feb-22	01-Nov-21	10-Mar-22			Tunnel Structure N
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	01-Nov-21	27-Nov-21		WB - D&BR (Turnel - CH	WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation
WB - D&BI Tunnel - CH9258-9138 Type A - Base slab / Kicker	27	03-Jan-22	05-Feb-22	08-Feb-22	10-Mar-22			
WB - Rebar Gantry Type A Assembly	24	03-Jan-22	29-Jan-22	08-Feb-22	07-Mar-22			
WB - W/P Gantry Type A Assembly	18	13-Jan-22	05 Feb-22	18-Feb-22	10-Mar-22			
Tunnel Structure EB Type A	48	06-Dec-21	05-Feb-22	11-Jan-22	10-Mar-22			Tunnel Structure
EB - D&BI Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	11-Jan-22	10-Feb-22			
EB - D&BI Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05 Feb-22	11-Feb-22	10-Mar-22			
Cross Passage	195	06-Jul-21	28-Feb-22	26-Oct-21 A	01-Apr-22	l		
CP31	16	06-Jul-21	23-Jul-21	26-Oct-21 A	18-Nov-21	l		
CP31 - D&BI Excavation 16.7 m	16	06-Jul-21	23-Jul-21	26-Oct-21 A	18-Nov-21		CP31 + DB8H Excavition 16.7m	
CP33	46	03-Jan-22	28-Feb-22	08-Feb-22	01-Apr-22			
EB - D&BI Tunnel - CP33 48m	46	03-Jan-22	28-Feb-22	08-Feb-22	01-Apr-22			
EAST VENTILATION BUILDING [EVB]	156	10-Sep-21	21-Mar-22	13-Mar-21 A	31-Mar-22			
Excavation	99	10-Sep-21	29-Nov-21	13-Mar-21 A	09-Dec-21			
Westbound Excavation	99	10-Sep-21	29-Nov-21	13-Mar-21 A	09-Dec-21			ccavation
Foundation / Portal Structure	6	30-Nov-21	21-Mar-22	10-Dec-21	31-Mar-22			
Westbound	6	30-Nov-21	21-Mar-22	10-Dec-21	31-Mar-22			
EVB - WB Earth Mat Installation	12	30-Nov-21	13-Dec-21	10-Dec-21	23-Dec-21			EVB - WB Earth Mat Installation
EVB - WB Drainage & Blinding	18	14-Dec-21	06-Jan-22	24-Dec-21	17-Jan-22			EVB - WB Drainage & Blinding
	60	07 Jan 22	21-Mar-22	18-Jan-22	31-Mar-22			
TUNNEL E&M INSTALLATION & COMMISSIONING	20	17-Sep-21	17-Nov-21	05-Jan-22	07-Mar-22			COMMISSIONNG
TKO-LTT Admin Building	20	17-Sep-21	17-Nov-21	05-Jan-22	07-Mar-22			
Material Delivery	9	17-Sep-21	24-Sep-21	05-Jan-22*	11-Jan-22			Materiai Delivery
Cable Trunking and Tray Installation	36	25-Sep-21	08-Nov-21	12-Jan-22	25-Feb-22			
Submain Power Supply Installation	12	25 Sep-21	09-Oct-21	12-Jan-22	25-Jan-22			Submain Power Supply Insta
ation	24	11-Oct-21	08-Nov-21	26-Jan-22	25-Feb-22			
Cable Pulling	24	11-Oct-21	08-Nov-21	26 Jan 22	25-Feb-22			
Final Circuit Installation	80	09-Nov-21	17-Nov-21	26-Feb-22	07-Mar-22			



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

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	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	13.693	0.000	0.000	13.626	0.067	0.000	9.720	0.000	0.000	0.000	0.167
November	0.000										
December	0.000										
Total	227.110	41.403	4.807	173.168	49.135	0.000	1306.730	2.403	0.000	11.000	1.366

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).