Civil Engineering and Development Department

Trunk Road T2

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

February 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

CINOTECH CONSULTANTS LTD Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



Ref.: CEDKTDT2EM00_0_0165L.21

15 March 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 (February 2021) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for February 2021 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 15 March 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 or our Ms. Rachel Wong at 3465 2815 should you have any queries.

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

Manson Yeung Independent Environmental Checker

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

Q:\Projects\CEDKTDT2EM00\02 Proj_Mgt\02 Corr\CEDKTDT2EM00_0_0165L.21.doc

Ramboll Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wanchai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.Ramboll.com

TABLE OF CONTENTS

		Page
EX	XECUTIVE SUMMARY	1
	Introduction Summary of Main Works Undertaken and Key Measures Implemented Summary of Exceedances, Investigation and Follow-up	1
	Complaint Handling, Prosecution and Public Engagement Reporting Changes	2
	Future Key Issues Review of Status and Location of Monitoring Stations	2
1	INTRODUCTION	
-	Background	
	Purpose of the Report	
	Project Organizations	5
	Construction Activities undertaken during the Reporting Month	
	Summary of EM&A Requirements	
	Status of Environmental Licensing and Permitting	
2	AIR QUALITY	8
	Monitoring Requirement	
	Monitoring Locations	
	Monitoring Parameters and Frequency Monitoring Equipment	
	Monitoring Equipment	
	Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
3	NOISE	14
	Monitoring Requirements	14
	Monitoring Locations	14
	Monitoring Parameters, Frequency and Duration	
	Monitoring Equipment	
	Monitoring Methodology and QA/QC Procedure Maintenance and Calibration	
	Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
4	WATER QUALITY	
	Monitoring Requirement	
5	MARINE ECOLOGY	
6	FISHERIES	
7	LANDSCAPE AND VISUAL	19
8	CULTURAL HERITAGE	22
9	WASTE MANAGEMENT	22

10	ENVIRONMENTAL AUDIT	23
	Site Audits	23
	Implementation Status of Environmental Mitigation Measures	
	Implementation Status of Event and Action Plans	
	Status of Required Submission under Environmental Permit	24
11	ENVIRONMENTAL NON-CONFORMANCE	25
	Summary of Complaint, Warning, Notification of any Summons and Successful Prosecuti Summary of Exceedance	
12	FUTURE KEY ISSUES	25
	Monitoring Schedule	25
13	CONCLUSIONS AND RECOMMENDATIONS	26
	Conclusions	26
	Recommendations	

LIST OF TABLES

Table I	Summary of Complaint/Summons/Prosecution in the Reporting Month
Table II	Summary Table for Site Activities in the next Reporting Period
Table III	Summary Table for Review of Status and Location of Monitoring Stations
Table 1.1	Key Project Contacts
Table 1.3	Summary of Environmental License and Permit
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Frequency and Parameters of Air Quality Monitoring
Table 2.3	Air Quality Monitoring Equipment
Table 2.4	Major Dust Source during Air Quality Monitoring
Table 2.5	Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report (not used)
Table 2.6	Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report
Table 3.1	Noise Monitoring Stations
Table 3.2	Frequency and Parameters of Noise Monitoring
Table 3.3	Noise Monitoring Equipment
Table 3.4	Major Noise Source during Noise Monitoring
Table 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6	Comparison of Noise Monitoring Data with Predictions in EIA Report
Table 3.7	Additional Noise Monitoring Results
Table 7.1	Construction Phase Landscape and Visual Mitigation Measures
Table 7.2	Construction Phase Audit Checklist for Landscape and Visual Mitigation Measures
Table 10.1	Observations and Recommendations of Site Audit
Table 10.2	Status of Required Submission under Environmental Permit

LIST OF FIGURES

Figure 1.1	Layout Plan of the Project Site
Figure 1.2	Project Organisation for Environmental Monitoring and Audit
Figure 2	Locations of Air Quality and Construction Noise Monitoring Stations

LIST OF APPENDICES

- Appendix A Action and Limit Levels
- Appendix B Environmental Monitoring Schedules
- Appendix C Copies of Calibration Certificates for Air Quality Monitoring
- Appendix D Weather Information
- Appendix E 1-hour TSP Monitoring Results and Graphical Presentations (not used)
- Appendix F 24-hour TSP Monitoring Results and Graphical Presentations
- Appendix G Copies of Calibration Certificates for Noise Monitoring
- Appendix H Noise Monitoring Results and Graphical Presentations
- Appendix I Site Audit Summary
- Appendix J Event and Action Plans
- Appendix K Environmental Mitigation Implementation Schedule (EMIS)
- Appendix L Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- Appendix M Summary of Exceedance
- Appendix N Tentative Construction Programme
- Appendix O Waste Generated in the Reporting Month

EXECUTIVE SUMMARY

Introduction

1. This is the 12th 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 February 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 Excavation
- West Ventilation Building Sheet Pile
- Launching Shaft / C&C Tunnel Capping Beam
- Launching Shaft / C&C Tunnel Gantry Beam
- CKL Junction Improvement works
- 132kV substation E&M Works
- CLP Installation
- Road S20 / AMAWBC Road & Drain
- Road L10 (North) ELS
- Road L18 Sheet Pile
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Depressed Road Strut Installation
- Depressed Road Base Slab RC Structure
- Depressed Road DCS Pipes Installation
- SUS Bulkhead Removal
- West Ventilation Building King Post Installation
- West Ventilation Building Wells Installation
- 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 (February 2021) and the investigation results and/or follow-up actions:

Air Quality Monitoring

- One (1) Action Level exceedance for 24-hour TSP was recorded.
- No Limit Level exceedance for 24-hour TSP was recorded.

Construction Noise Monitoring

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

Landscape and Visual Monitoring and Audit

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

Complaint Handling, Prosecution and Public Engagement

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

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

Reporting Changes

5. No reporting change in the reporting period.

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 t	he next Reporting Period
1 4010 11	~ annar y	I WOLF IOI SILE	I RECEIVITEDO IN C	ne neat nepot ting i ci tou

Site Activities (March 2021)	Key Environmental Issues
 West Ventilation Building – Steel Deck Erection South Apron Adit – Sheet Pile Launching Shaft – Excavation Launching Shaft – Cell ½ Concrete Strut C&C S2 Strutting Slab C&C S3 Strutting Slab CUE Section 6A – RC Structure Road L10 - Drainage District Cooling System (DCS) Foot Bridge (FT-02) ELS AMAWBC Footpath Sheet Pile Hoi Bun Road Junction Improvement 	(A) / (B) / (C) / (D)

Note:

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

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

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

(D) Wastewater and runoff discharge from site.

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 review of status and location of monitoring stations are summarized as follow:

Table III Summary Table for Review of Status and Location of Monitoring Stations		
Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
	The status of KER 1 is being	
KER 1	reviewed. Results will be reported in	
	the next reporting period.	
	The status of KTD 2c is being	
KTD 2c	reviewed. Results will be reported in	
	the next reporting period.	
	ET has reviewed the status and	
KTD 1	location of KTD 1, CKL1 and	N/A
	CKL2. To conclude, the	
	environmental monitoring conducted	
CKL 1	at KTD 1, CKL 1 and CKL 2 are	
	appropriate, and the monitoring	
	results reflect how the sensitive	
CKL 2	receiver(s) is/are impacted by the	
	construction activities of the Project.	

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. The impact monitoring for the three stations KTD1, KTD2c 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 12th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in February 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	
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091	
Chioteen		Ms. Karina Chan	2157 3880	
Ramboll	Independent Environmental Checker	Mr. Manson Yeung	3465 2888	
BTP	Contractor	Mr. Bryan Lee	5588 3891	

Table 1.1Key Project Contacts

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 Excavation
- West Ventilation Building Sheet Pile
- Launching Shaft / C&C Tunnel Capping Beam
- Launching Shaft / C&C Tunnel Gantry Beam
- CKL Junction Improvement works
- 132kV substation E&M Works
- CLP Installation
- Road S20 / AMAWBC Road & Drain
- Road L10 (North) ELS
- Road L18 Sheet Pile
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Depressed Road Strut Installation
- Depressed Road Base Slab RC Structure
- Depressed Road DCS Pipes Installation
- SUS Bulkhead Removal
- West Ventilation Building King Post Installation
- West Ventilation Building Wells Installation

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 February 2021.

Status of Environmental Licensing and Permitting

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

D 4/1 · N	Valid	G () (
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) F	Regulation	
Ref. No.: 451120	20 Nov 2019	N/A	Valid
Billing Account for Construction Waste Disp	osal		
A/C No.: 7036016	09 Dec 2019	N/A	Valid
Billing Account for Vessel Disposal			
A/C No.:7037747	19 Jan 2021	19 Apr 2021	Valid
Construction Noise Permit			
CNP No. (For Portion Depressed Road): GW-RE0729-20	7 Sept 2020	26 Feb 2021	Expired on 26 Feb 2021
CNP No. (For Portion Depressed Road): GW-RE0050-21	25 Jan 2021	15 Jun 2021	Valid
CNP No. (For Shaft Area and Depressed Road): GW-RE1106-20	29 Dec 2020	28 Apr 2021	Valid
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0168-21	28 Feb 2021	22 Aug 2021	Valid
CNP No. (For Site Office and Support Area): GW-RE1126-20	14 Jan 2021	14 Jun 2021	Valid
CNP No.(For Area near Kai Fuk Road): GW- RE1065-20	15 Dec 2020	15 Feb 2021	Expired on 15 Feb 2021
CNP No. (For Portion Depressed Road): PP- RE0004-21	5 Feb 2021	3 Aug 2021	Valid
Wastewater Discharge License	•		•
WT00036183-2020 (For Depressed Road Area)	28 Jul 2020	31 Jul 2025	Valid
WT00036228-2020 (For Launching Shaft)	28 Jul 2020	31 Jul 2025	Valid
Chemical Waste Producer License			
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid

Table 1.3 Summary of Environmental License and Permit

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 Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2c	G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 2.1 Air Quality Monitoring Locations

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring					
Monitoring Stations	Parameter	Period	Frequency		
KTD1, KTD2c, KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)		
KTD1, KTD2c, 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, 1956, 10595, 1316, 5280)	5
Calibrator	TISCH Model: TE-5025A (Serial no. 3746, 3864)	2
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial no. MC01010A44)	1
1-hour dust meter	LD-5R (Serial no.:972778)	1

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

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

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

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

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.11 The positioning of the HVS samplers are as follows:
 - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
 - No two samplers shall be placed less than 2 meter apart;
 - The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
 - A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
 - A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
 - No furnace or incinerator flue is nearby;
 - Airflow around the sampler is unrestricted;
 - The sampler is more than 20 metres from the dripline;
 - Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
 - Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
 - A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- 2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
 - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of $0.3 \mu m$ diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
 - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
 - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
 - The shelter lid was closed and secured with the aluminum strip.
 - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
 - After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
 - Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 The following maintenance/calibration is required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 One (1) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. No Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. 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	• Project related construction activities (i.e., Loading
Paediatrics (Children's Hospital) KTD 2c - G/IC Zone next to Kwun Tong	and unloading of C&D wastes, sheet piling, crushing of material);
Bypass (Next to the Kowloon Bay Sewage	• Vehicle movement in the site;
Interception Station	• Construction activities at the nearby construction
	sites of New Acute Hospital; and,
KER 1 – Future Residential Development	Road traffic along Shing Fung Road, Shing Cheong
at Kerry Godown	Road, Cheung Yip Street, Kai Hing Road and
	Kwun Tong Bypass.
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-h	• 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 (February 2021), µg/m ³	
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	109.5	

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 (February 2021), µg/m ³
KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station	N/A ⁽¹⁾	N/A ⁽¹⁾	183.6
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	159.0
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	170.2
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	89.6

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 KTD1 and KER1 was lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). One (1) Action Level and no Limit level exceedance for 24-hour TSP was recorded in the reporting period. Details of the exceedance are presented in **Appendix M**.

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, KTD2c, 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 Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2c	G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage
KID20	Interception Station)
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**.

rable 5.2 Frequency and rarameters of Noise Wontoring					
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2c				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 3.2Frequency 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 3.3 Nois	se Monitoring Equi	pment
----------------	--------------------	-------

Equipment	Model	Quantity
	SVAN 957 (Serial no. 23851)	1
Integrating Sound Level Meter	BSWA 308 (Serial no. 570188,	2
	570187)	
Calibrator	ST-120 (Serial no. 181001608,	2
Calibrator	181001636)	

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 Fung Road; and,
	 Non-project related construction activities at the nearby construction site of New Acute Hospital.
KTD 2c	 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 alongKwun Tong By-pass; and, Non-project related construction activities at the nearby construction site of New Acute Hospital
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.

Table 3.4Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
CKL2	Road traffic along Cha Kwo Ling Road

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

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
KTD1	78	
KTD2c	64	
KER1	65	75
CKL1	72.4	
CKL2	71.4	

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**.

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (February 2021), Leq (30min) dB(A)
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	68.4
KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station	N/A ⁽¹⁾	N/A ⁽¹⁾	72.5
KER 1 – Future Residential Development at Kerry Godown	KER1	75	68.6
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	72.0
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	71.2

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 results at

KTD1 and KER1 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 04, 11, 18 and 25 February 2021 in the reporting month. Site inspection of the IEC was conducted on 18 February 2021. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 10.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	11 Feb 2021	Stockpile of excavated material shall be covered.	The soil was removing during audit session.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	11 Feb 2021	Muddy water and still water should be avoided after rain storm.	Muddy water and still water were discharge outside after treated through the Wepsep system.
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.	Oil stain was cleaned.
Waste / Chemical Management	11 Feb 2021	Oil stain was observed.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 10.1
 Observations and Recommendations of Site Audit

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

- One (1) Action Level exceedance for 24-hour TSP monitoring was recorded.
- No 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

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 (January 2021)	25 February 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:
 - West Ventilation Building Steel Deck Erection
 - South Apron Adit Sheet Pile
 - Launching Shaft Excavation
 - Launching Shaft Cell ½ Concrete Strut
 - C&C S2 Strutting Slab
 - C&C S3 Strutting Slab
 - CUE Section 6A RC Structure
 - Road L10 Drainage
 - District Cooling System (DCS)
 - Foot Bridge (FT-02) ELS
 - AMAWBC Footpath Sheet Pile
 - Hoi Bun Road Junction Improvement
- 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 12th 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 One (1) Action Level exceedance were recorded for 24-hour TSP monitoring in the reporting month.
- 13.3 No Limit Level exceedance were recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

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

Site Audit

13.6 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

Recommendations

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

Air Quality

• Spoil heap shall be covered all time.

Water Quality

• Surface runoff from construction site should be treated so that it satisfies all the standards before discharge into storm drains.

Waste / Chemical Management

• Waste oil should not be disposed of to drain.

FIGURES



Cinotech Consul

te I In

Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

	Constant and Constant of Const			
Ante		1192 - 53 1192 - 53		
V)			SUM: "11" L	
CAN)		- /K		ť~
	1:10000@A3		March 20	
СК		DATE DRAWN	TL	
LE CK 3 No.	1:10000@A3	DATE	TL	REV










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	
KTD2c	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	
KTD2c	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

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

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 (February 2021)

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, KTD2c, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2c, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

- 24-hr TSP
- KTD1 Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2c G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
- 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) KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station) KER1 - Future Residential Development at Kerry Godown 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 (March 2021)						

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Mar	2-Mar	3-Mar	4-Mar	5-Mar	6-Ma
	Noise					
	Noise			24-hr TSP		
7-Mar	8-Mar	9-Mar	10-Mar	11-Mar	12-Mar	13-Ma
			24-hr TSP	Noise		
14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	20-Ma
			Noise			
		24-hr TSP				
21-Mar	22-Mar	23-Mar	24-Mar	25-Mar	26-Mar	27-Ma
	24-hr TSP	Noise				24-hr TSP
	21					21111101
28-Mar	29-Mar	30-Mar	31-Mar			
	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, KTD2c, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2c, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

- 24-hr TSP
- KTD1 Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2c G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
- 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) KTD2 - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station) KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

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

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, KTD2c, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2c, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

- 24-hr TSP
- KTD1 Centre of Excellence in Paediatrics (Children's Hospital)
- KTD2c G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
- 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) KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station) KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-May
2-May	3-May	4-May	5-May	6-May	7-May	8-May
				Noise		
			24-hr TSP			
9-May	10-May	11-May	12-May	13-May	14-May	15-May
			Noise			
		24-hr TSP				
16-May	17-May	18-May	19-May	20-May	21-May	22-May
To-May	17 ivitay	10 May	19-141ay	20 May	21 Way	22 May
		Noise				
	24-hr TSP					24-hr TSP
23-May	24-May	25-May	26-May	27-May	28-May	29-May
20-141ay	2-7-Iviay	2.5-Widy	20-May	27-141ay	20-Way	27-141ay
	Noise					
				24-hr TSP		
30-May	31-May					
30-May	51-May					
The schedule was been be		()	41			

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 (May 2021)

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, KTD2c, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2c, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

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

KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)

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) KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station) KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

File No. MA20003/18/0006R

Project No.	CKL 1 - Flat 1	21 Cha Kwo Ling					
Date:	6-J	an-21	Next Due Date:	6-Mar-21	Operator:	SK	
Equipment No.:	A-	01-18	Model No.:	TE 5170	Serial No.	0723	
	Ambient Condition						
Temperatu	ıre, Ta (K)	290.1	Pressure, Pa (mml	Hg)	764.9		

Orifice Transfer Standard Information							
Serial No.	3746	Slope, mc 0.0592 Intercept, bc -0.0274					
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	17-Jan-21	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	[ΔW x (Pa	/760) x (298/Ta)] ^{1/2} Y-axis		
1	13.7	3.76	64.04	10.2		3.25		
2	11.2	3.40	57.94	7.6		2.80		
3	8.5	2.96	50.54	6.0		2.49		
4	5.4	2.36	40.37	3.5		1.90		
5	3.2	1.82	31.19	1.8		1.36		
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = <u>0.0560</u> Intercept, bw = <u>-0.3720</u> Correlation coefficient* = <u>0.9983</u> *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =4.01								
Remarks:								
Conducted by:	SK Wong	Signature:	<u>ر</u>		Date:	6 January 2021		
Checked by:	Henry Leung	Signature:	Xoz		Date:	6 January 2021		

 $F:\cinotech\ Solutions\Equipment\Calibration\ Cert\HVS\new\MA20003_20210106_CKL1_(A-01-18).xls$

Temperature, Ta (K)

290.1

File No. MA20003/55/0006

764.9

		Ambient Condit	ion		
Equipment No.:	A-01-55	Model No.:	TE 5170	Serial No.	1956
Date:	6-Jan-21	Next Due Date:	6-Mar-21	Operator:	SK
Project No.	CKL 2 - Flat 103 Cha Kwo				

Pressure, Pa (mmHg)

Orifice Transfer Standard Information						
Serial No.	3746	Slope, mc	0.0592	Intercept, bc	-0.0274	
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21		$Qstd = \{[\Delta H x] \}$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc	

	Calibration of TSP Sampler							
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	/760) x (298/Ta)] ^{1/2} Y-axis		
1	13.9	3.79	64.50	9.5		3.13		
2	11.4	3.43	58.45	7.2		2.73		
3	8.5	2.96	50.54	5.7		2.43		
4	5.3	2.34	40.00	3.6		1.93		
5	2.9	1.73	29.71	2.1		1.47		
By Linear Regression of Y on X Slope , mw =0.0466Intercept, bw =0.0736 Correlation coefficient* =0.9976 *If Correlation Coefficient < 0.990, check and recalibrate.								
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =							
Remarks:								
Conducted by:	SK Wong	Signature:	<i>.</i>		Date:	6 January 2021		
Checked by:	Henry Leung	Signature:	. Xvy		Date:	6 January 2021		

.

File No. MA20003/04/0003

Project No.	Project No. KER 1 - Future Residential Development at Kerry Godown						
Date:	3-D	Dec-20	Next Due Date:	3-F	eb-21	Operator:	SK
Equipment No.:	A-	01-04	Model No.:	TE	5170	Serial No.	10595
			Ambient Condit	ion			
Temperatu	re, Ta (K)	290.4	Pressure, Pa (mmł	Hg)		765.8	

Orifice Transfer Standard Information						
Serial No.	3746	Slope, mc	0.0592	Intercept, bc	-0.0274	
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21	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	13.3	3.71	63.10	6.5	2.59
2	10.8	3.34	56.91	5.2	2.32
3	8.3	2.93	49.95	4.0	2.03
4	4.5	2.16	36.90	2.6	1.64
5	2.5	1.61	27.62	1.8	1.36
If Correlation C	Coefficient < 0.99	0, check and recalibrate.	-		
From the TSP Fi	ield Calibration C	Set Point C urve, take Qstd = 43 CFM			
		e "Y" value according to			
Tom the Regres	Sion Equation, in	-		1/2	
		$\mathbf{m}\mathbf{w} \times \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W} \times \mathbf{w}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}	
Therefore, Se	et Point; W = (my	$(x = x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	3.33	
,			,		
Remarks:					
Conducted by:	SK Wong	Signature:			Date: 03 December 202
Senducted by.	<u></u>	<u> </u>			55 December 20.
		<u>,</u> .			

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA20003_20201203_KEF1_(A-01-04).xls

.

File No. MA20003/44/0004

Project No.	KTD1 - Centre	e of Excellence in					
Date:	3-E	Dec-20	Next Due Date:	3-Fe	eb-21	Operator:	SK
Equipment No.:	A-	01-44	Model No.:	TE-	5170	Serial No.	1316
			Ambient Conditio	n			
Temperatu	re, Ta (K)	290.4	Pressure, Pa (mmHg	g)		765.8	

Orifice Transfer Standard Information						
Serial No.	3746	Slope, mc	0.0592	Intercept, bc	-0.02740	
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21	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	$\frac{\left[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)\right]^{1/2}}{V-axis}$
1	12.9	3.65	62.16	8.7	3.00
2	10.4	3.28	55.86	6.6	2.61
3	7.9	2.86	48.74	4.9	2.25
4	5.9	2.47	42.18	3.4	1.87
5	3.1	1.79	30.71	1.8	1.36
	<pre>coefficient* = Coefficient < 0.99</pre>	0.9982 0, check and recalibrate.	-		
		Set Point C	algulation		
From the TSP F	ield Calibration C	urve, take Qstd = 43 CFM			
		e "Y" value according to			
6	1 ,	$mw x Qstd + bw = [\Delta W x]$	x (Pa/760) x (29	$98/T_{9})1^{1/2}$	
Therefore, Se	et Point; W = (my	$w x Qstd + bw)^2 x (760 / Pa) x ($			
Remarks:					
Conducted by:	SK Wong	Signature:			Date: 03 December 20
Checked by:	Henry Leung	Signature:	Xon	_	Date: 03 December 20

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA20003_20201203_KTD1_(A-01-44).xls

File No. MA20003/41/0003

Project No.	KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)							
Date:	3-Г	Dec-20	Next Due Date:	3-Feb	-21 Operator:	SK		
Equipment No.:	A-	01-41	Model No.:	TE 51	70 Serial No.	5280		
			Ambient Condition	on				
Temperatu	re, Ta (K)	290.4	Pressure, Pa (mmH	g)	765.8			

Orifice Transfer Standard Information						
Serial No.	3746	Slope, mc	0.0592	Intercept, bc	-0.0274	
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21		$Qstd = \{[\Delta H x]$	$(Pa/760) \ge (298/Ta)]^{1/2} -bc\} /$	mc	

		Calibration of	TSP Sampler			
Calibration		Orfice			HVS	
Point	$\Delta H \text{ (orifice)},$ in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (P	a/760) x (298/Ta)] ^{1/2} Y-axis
1	13.5	3.74	63.57	6.5		2.59
2	11.1	3.39	57.69	5.2		2.32
3	8.1	2.89	49.35	4.1		2.06
4	4.6	2.18	37.30	2.5		1.61
5	2.6	1.64	28.16	1.8		1.36
	0.0346 coefficient* = Coefficient < 0.99	0.9975 0, check and recalibrate.	Intercept, bw [:] -	0.355		_
		Set Point C	alculation			
From the TSP F	ield Calibration C	urve, take Qstd = 43 CFM				
From the Regree	ssion Equation, th	e "Y" value according to				
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, So	et Point; W = (my	$w \ge (760 / Pa) = (760 / Pa) \ge (760 / Pa) = (760 / Pa) =$	Ta / 298) =	3.28		_
Remarks:						
Conducted by:	SK Wong	Signature:			Date:	03 December 2020
Checked by:	Henry Leung	Signature: <u>V/L</u> Signature: <u>-lemp Ø</u>	~~		Date:	03 December 2020

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA20003_20201203_KTD2C_(A-01-41).xls

Temperature, Ta (K)

293.9

Project No.	KER 1 - Future Residential				
Date:	2-Feb-21	Next Due Date:	2-Apr-21	Operator:	SK
Equipment No.:	A-01-04	Model No.:	TE 5170	Serial No.	10595
		Ambient Condit	ion		

File No. MA20003/04/0004

764.6

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 + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

Pressure, Pa (mmHg)

Calibration of TSP Sampler								
0.11		Orfice	->- Sumplei		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		/760) x (298/Ta)] ^{1/2} Y-axis		
1	13.2	3.67	62.82	7.2		2.71		
2	10.8	3.32	56.83	5.6		2.39		
3	8.2	2.89	49.53	4.4		2.12		
4	4.8	2.21	37.90	2.8		1.69		
5	2.8	1.69	28.96	1.8		1.36		
By Linear Regression of Y on X Slope , mw = Intercept, bw = Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate.								
		Set Point C	alculation					
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{v} \mathbf{x} \mathbf{Qstd} + \mathbf{bw})^2 \mathbf{x} (760 / Pa) \mathbf{x} ($		98/Ta)] ^{1/2} 		-		
Remarks:								
Conducted by:	SK Wong	Signature:			Date:	2 February 2021		
Checked by: <u>Henry Leung</u> Signature: <u></u>								

 $F:\cinotech\ Solutions\Equipment\Calibration\ Cert\HVS\new\MA20003_20210202_KER1_(A-01-04).xls$

File No. MA20003/44/0005

Project No.	KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)						
Date:	2-Feb-21	Next Due Date:	2-Apr-21	Operator:	SK		
Equipment No.:	A-01-44	Model No.:	TE-5170	Serial No.	1316		

		Ambient Condition	
Temperature, Ta (K)	293.9	Pressure, Pa (mmHg)	764.6

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 + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}			
Next Calibration Date:	11-Jan-22		$Qstd = \{ [\Delta H x]$	$(Pa/760) \ge (298/Ta)]^{1/2} -bc \} /$	mc			

	Calibration of TSP Sampler							
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] ^{1/2} Y-axis		
1	13.1	3.66	62.58	8.9		3.01		
2	10.5	3.27	56.04	6.8		2.63		
3	7.9	2.84	48.61	5.2		2.30		
4	5.9	2.45	42.02	3.4		1.86		
5	3.0	1.75	29.98	1.8		1.36		
By Linear Regression of Y on X Slope , mw = <u>0.0512</u> Intercept, bw : <u>-0.2169</u> Correlation coefficient* = 0.9975								
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw}^{2} \mathbf{x} (760 / Pa) \mathbf{x} (760 / Pa)$		98/Ta)] ^{1/2} 				
Remarks:								
Conducted by:	SK Wong	Signature:			Date:	2 February 2021		
Checked by:	SK Wong Signature: <u>19</u> Date: <u>2 February 2021</u> y: <u>Henry Leung</u> Signature: <u>lemp Xmp</u> Date: <u>2 February 2021</u>							

.

File No. MA20003/41/0004

Project No.	KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)						
Date:	2-F	eb-21	Next Due Date:	2-Apr-21	Operator:	SK	
Equipment No.:	A-01-41		Model No.:	TE 5170	Serial No.	5280	
	Ambient Condition						
Temperatu	re, Ta (K)	293.9	Pressure, Pa (mmHg) 764.6				

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 + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	11-Jan-22		$Qstd = \{ [\Delta H x]$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc		

		Calibration of	TSP Sampler					
Calibration	Orfice HVS							
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$			
1	13.4	3.70	63.30	6.8	2.63			
2	10.8	3.32	56.83	5.4	2.35			
3	7.8	2.82	48.30	4.2	2.07			
4	5.4	2.35	40.20	3.2	1.81			
5	2.6	1.63	27.91	1.8	1.36			
	0.0354 coefficient* = Coefficient < 0.990	0.9990), check and recalibrate.	Intercept, bw = _	0.368	4			
		Set Point C	alculation					
		urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	"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, So	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	3.50				
Remarks:								
Conducted by: Checked by:		Signature: Signature:	- May-		Date:2 February 2021Date:2 February 2021			



RECALIBRATION DUE DATE:

January 17, 2021

nmental Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 17	, 2020	Roots	meter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					Pa:	744.2	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	3746			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4340	3.2	2.00	
	2	3	4	1	1.0180	6.4	4.00	
	3	5	6	1	0.9080	7.9	5.00	
	4	7	8	1	0.8700	8.7	5.50	
	5	9	10	1	0.7150	12.6	8.00	
			l	Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-axis)		Va	(x-axis)	(y-axis)	
	0.9849	0.6868	1.40	66	0.9957	0.6944	0.8904	
	0.9807	0.9633	1.98		0.9914	0.9739	1.2592	
	0.9787	1.0779	2.224		0.9894	1.0896	1.4078	
	0.9776	1.1237	2.332		0.9883	1.1360	1.4765	
	0.9724	1.3601	2.813		0.9831	1.3749	1.7808	
	OCTD	m= b=	2.092				1.31010	
	QSTD	r=	-0.027		QA	b= r=	-0.01759 0.99994	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δl	P)/Pa)	
	Lawrence and the second s	Vstd/∆Time	, , , , , , , , , , , , , , , , , , , ,	,	the second se	Va/ATime	// /	
			For subsequ	ent flow ra	te calculation	าร:		
	Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right) \right) \right)$))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	І(Та/Ра))-b)	
		Conditions						
Tstd:		°K		[RECA	IBRATION	
Pstd:	760 mm Hg Key				US EPA reco	ommends ar	nual recalibratio	n per 1998
AH: calibrat		er reading (in	n H2O)				Regulations Part 5	
	eter manometer reading (mm Hg)						Reference Meth	
		perature (°K)					ended Particulate	
	arometric pr	essure (mm	Hg)				re, 9.2.17, page 3	
o: intercept				l			, , , , , , , , , , , , , , , , , , , ,	
m: slope	lope							

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009





Certificate of Calibration

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

CIN@TECH 🤳

Cerificate of Calibration - Wind Monitoring Station

Yau Lai Estate, Bik Lai House
Davis Instruments
<u>Davis7440</u>
<u>MC01010A44</u>
<u>SA-03-04</u>
<u>21-Aug-2020</u>
<u>21-Feb-2021</u>

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.2	2.3	-0.1
3.5	3.4	0.1

2. Performance check of Wind Direction

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

Test Specification:

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

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

Calibrated by:	tol.	Approved by:	-long than
	Wong Shing Kwai		Henry Leung



Certificate of Calibration - Wind Monitoring Station

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

1. Performance check of Wind Speed

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

2. Performance check of Wind Direction

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

Test Specification:

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

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
		$(\%)^2$	
1-Feb-21	20.3	76	0.0
2-Feb-21	20.9	76	0.0
3-Feb-21	18.4	69	0.0
4-Feb-21	19.4	68	0.0
5-Feb-21	19.9	72	0.0
6-Feb-21	20.7	73	0.0
7-Feb-21	20.3	74	0.0
8-Feb-21	19.9	79	0.0
9-Feb-21	18.5	76	Trace
10-Feb-21	16.5	89	32.2
11-Feb-21	17.4	78	0.0
12-Feb-21	18.4	69	0.0
13-Feb-21	19.2	76	0.0
14-Feb-21	19.9	75	0.0
15-Feb-21	21.1	70	0.0
16-Feb-21	20.3	71	0.0
17-Feb-21	20.4	70	0.0
18-Feb-21	18.5	65	0.0
19-Feb-21	18.5	66	0.0
20-Feb-21	19.6	73	0.0
21-Feb-21	20.4	74	0.0
22-Feb-21	21.4	78	0.0
23-Feb-21	21.7	74	0.0
24-Feb-21	20.3	79	Trace
25-Feb-21	20.2	85	1.8
26-Feb-21	22.3	86	14.7
27-Feb-21	18.8	89	13.4
28-Feb-21	19.9	83	Trace

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month: February 2021) **Remarks:** Source - Hong Kong Observatory

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

	Februar	ry 2021		
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
1 Feb 2021	12:00 AM	1.3	W	
1 Feb 2021	1:00 AM	1.3	W	
1 Feb 2021	2:00 AM	1.3	WNW	
1 Feb 2021	3:00 AM	0.9	W	
1 Feb 2021	4:00 AM	1.3	W	
1 Feb 2021	5:00 AM	1.8	W	
1 Feb 2021	6:00 AM	1.3	W	
1 Feb 2021	7:00 AM	1.3	W	
1 Feb 2021	8:00 AM	1.3	WNW	
1 Feb 2021	9:00 AM	1.3	W	
1 Feb 2021	10:00 AM	1.3	W	
1 Feb 2021	11:00 AM	0.9	W	
1 Feb 2021	12:00 PM	0	NE	
1 Feb 2021	1:00 PM	0	NNW	
1 Feb 2021	2:00 PM	0	NE	
1 Feb 2021	3:00 PM	0	NE	
1 Feb 2021	4:00 PM	0.4	NNW	
1 Feb 2021	5:00 PM	1.3	NNW	
1 Feb 2021	6:00 PM	2.2	NNW	
1 Feb 2021	7:00 PM	3.6	NNW	
1 Feb 2021	8:00 PM	3.6	NNW	
1 Feb 2021	9:00 PM	3.1	NNW	
1 Feb 2021	10:00 PM	3.1	NNW	
1 Feb 2021	11:00 PM	1.8	NNW	
2 Feb 2021	12:00 AM	1.3	NNW	
2 Feb 2021	1:00 AM	0.4	NE	
2 Feb 2021	2:00 AM	0.9	ENE	
2 Feb 2021	3:00 AM	0.9	NNE	
2 Feb 2021	4:00 AM	0.9	ENE	
2 Feb 2021	5:00 AM	0.9	NE	
2 Feb 2021	6:00 AM	1.3	NW	
2 Feb 2021	7:00 AM	0.9	NW	
2 Feb 2021	8:00 AM	0.9	NW	
2 Feb 2021	9:00 AM	0.9	W	
2 Feb 2021	10:00 AM	1.3	NW	
2 Feb 2021	11:00 AM	1.8	NW	
2 Feb 2021	12:00 PM	1.3	WNW	
2 Feb 2021	1:00 PM	1.3	NW	
2 Feb 2021	2:00 PM	1.3	NW	
2 Feb 2021	3:00 PM	1.3	NW	
2 Feb 2021	4:00 PM	0.4	NW	
2 Feb 2021	5:00 PM	0.9	E	
2 Feb 2021	6:00 PM	0.9	ESE	
2 Feb 2021	7:00 PM	1.3	E	

	Februar	ry 2021		
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
2 Feb 2021	8:00 PM	1.3	ENE	
2 Feb 2021	9:00 PM	0.9	ENE	
2 Feb 2021	10:00 PM	0.9	E	
2 Feb 2021	11:00 PM	0.9	ENE	
3 Feb 2021	12:00 AM	0.4	Е	
3 Feb 2021	1:00 AM	0.9	ENE	
3 Feb 2021	2:00 AM	0.4	NW	
3 Feb 2021	3:00 AM	0.9	ENE	
3 Feb 2021	4:00 AM	0.9	WNW	
3 Feb 2021	5:00 AM	0.9	ENE	
3 Feb 2021	6:00 AM	1.3	ESE	
3 Feb 2021	7:00 AM	0.4	NW	
3 Feb 2021	8:00 AM	0.4	NW	
3 Feb 2021	9:00 AM	0.9	NW	
3 Feb 2021	10:00 AM	0.4	NNE	
3 Feb 2021	11:00 AM	0.4	NNW	
3 Feb 2021	12:00 PM	0.4	W	
3 Feb 2021	1:00 PM	0.9	WNW	
3 Feb 2021	2:00 PM	0.9	WSW	
3 Feb 2021	3:00 PM	0.4	WSW	
3 Feb 2021	4:00 PM	0.4	WSW	
3 Feb 2021	5:00 PM	0.4	W	
3 Feb 2021	6:00 PM	0.9	NW	
3 Feb 2021	7:00 PM	1.3	W	
3 Feb 2021	8:00 PM	1.3	W	
3 Feb 2021	9:00 PM	1.3	W	
3 Feb 2021	10:00 PM	1.3	WNW	
3 Feb 2021	11:00 PM	0.9	W	
4 Feb 2021	12:00 AM	1.3	W	
4 Feb 2021	1:00 AM	1.8	W	
4 Feb 2021	2:00 AM	1.3	W	
4 Feb 2021	3:00 AM	1.3	W	
4 Feb 2021	4:00 AM	1.3	WNW	
4 Feb 2021	5:00 AM	1.3	W	
4 Feb 2021	6:00 AM	1.3	W	
4 Feb 2021	7:00 AM	0.9	W	
4 Feb 2021	8:00 AM	1.3	W	
4 Feb 2021	9:00 AM	1.3	W	
4 Feb 2021	10:00 AM	1.8	W	
4 Feb 2021	11:00 AM	1.3	W	
4 Feb 2021	12:00 PM	1.8	W	
4 Feb 2021	1:00 PM	1.8	W	
4 Feb 2021	2:00 PM	2.2	W	
4 Feb 2021	3:00 PM	1.3	W	

	Februar	ry 2021		
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
4 Feb 2021	4:00 PM	1.8	W	
4 Feb 2021	5:00 PM	1.3	W	
4 Feb 2021	6:00 PM	0.9	W	
4 Feb 2021	7:00 PM	0.9	NW	
4 Feb 2021	8:00 PM	1.3	W	
4 Feb 2021	9:00 PM	1.3	W	
4 Feb 2021	10:00 PM	0.9	WNW	
4 Feb 2021	11:00 PM	1.3	WNW	
5 Feb 2021	12:00 AM	0.9	W	
5 Feb 2021	1:00 AM	1.3	NW	
5 Feb 2021	2:00 AM	1.3	NW	
5 Feb 2021	3:00 AM	1.8	NW	
5 Feb 2021	4:00 AM	0.9	NW	
5 Feb 2021	5:00 AM	1.3	NW	
5 Feb 2021	6:00 AM	1.3	NW	
5 Feb 2021	7:00 AM	2.2	NW	
5 Feb 2021	8:00 AM	1.8	NW	
5 Feb 2021	9:00 AM	1.8	NW	
5 Feb 2021	10:00 AM	1.8	NW	
5 Feb 2021	11:00 AM	1.8	NW	
5 Feb 2021	12:00 PM	0.9	NW	
5 Feb 2021	1:00 PM	0.9	NW	
5 Feb 2021	2:00 PM	1.3	NW	
5 Feb 2021	3:00 PM	1.3	NW	
5 Feb 2021	4:00 PM	1.3	NW	
5 Feb 2021	5:00 PM	1.3	NW	
5 Feb 2021	6:00 PM	1.8	NW	
5 Feb 2021	7:00 PM	0.9	NW	
5 Feb 2021	8:00 PM	1.3	NW	
5 Feb 2021	9:00 PM	0.9	NW	
5 Feb 2021	10:00 PM	1.8	NW	
5 Feb 2021	11:00 PM	3.6	NW	
6 Feb 2021	12:00 AM	3.1	NW	
6 Feb 2021	1:00 AM	3.1	NW	
6 Feb 2021	2:00 AM	3.6	NW	
6 Feb 2021	3:00 AM	1.3	ENE	
6 Feb 2021	4:00 AM	1.3	E	
6 Feb 2021	5:00 AM	1.3	Е	
6 Feb 2021	6:00 AM	0.9	Е	
6 Feb 2021	7:00 AM	0.9	E	
6 Feb 2021	8:00 AM	0.9	Е	
6 Feb 2021	9:00 AM	0.9	Е	
6 Feb 2021	10:00 AM	1.3	ENE	
6 Feb 2021	11:00 AM	0.9	E	

	Februar	ry 2021		
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
6 Feb 2021	12:00 PM	0.9	ENE	
6 Feb 2021	1:00 PM	0.4	Е	
6 Feb 2021	2:00 PM	0.9	Е	
6 Feb 2021	3:00 PM	1.8	ENE	
6 Feb 2021	4:00 PM	0.9	Е	
6 Feb 2021	5:00 PM	1.8	E	
6 Feb 2021	6:00 PM	1.3	Е	
6 Feb 2021	7:00 PM	0.4	ESE	
6 Feb 2021	8:00 PM	0.4	ESE	
6 Feb 2021	9:00 PM	0.9	NW	
6 Feb 2021	10:00 PM	0.9	Е	
6 Feb 2021	11:00 PM	1.8	Е	
7 Feb 2021	12:00 AM	0.9	Е	
7 Feb 2021	1:00 AM	0.9	Е	
7 Feb 2021	2:00 AM	1.8	ENE	
7 Feb 2021	3:00 AM	1.8	Е	
7 Feb 2021	4:00 AM	1.3	E	
7 Feb 2021	5:00 AM	1.3	ENE	
7 Feb 2021	6:00 AM	1.3	ENE	
7 Feb 2021	7:00 AM	0.9	ENE	
7 Feb 2021	8:00 AM	1.3	Е	
7 Feb 2021	9:00 AM	0.4	ESE	
7 Feb 2021	10:00 AM	0	NW	
7 Feb 2021	11:00 AM	0	ENE	
7 Feb 2021	12:00 PM	0.4	ENE	
7 Feb 2021	1:00 PM	0.4	E	
7 Feb 2021	2:00 PM	0.9	E	
7 Feb 2021	3:00 PM	1.3	E	
7 Feb 2021	4:00 PM	0.9	E	
7 Feb 2021	5:00 PM	0.9	E	
7 Feb 2021	6:00 PM	0.9	ENE	
7 Feb 2021	7:00 PM	0.4	ESE	
7 Feb 2021	8:00 PM	0.9	E	
7 Feb 2021	9:00 PM	1.3	E	
7 Feb 2021	10:00 PM	1.8	Е	
7 Feb 2021	11:00 PM	1.8	ESE	
8 Feb 2021	12:00 AM	0.9	ENE	
8 Feb 2021	1:00 AM	1.3	E	
8 Feb 2021	2:00 AM	1.3	NW	
8 Feb 2021	3:00 AM	0.9	NW	
8 Feb 2021	4:00 AM	2.7	NW	
8 Feb 2021	5:00 AM	1.3	NW	
8 Feb 2021	6:00 AM	0.9	NW	
8 Feb 2021	7:00 AM	0.9	NW	

	Februa	ry 2021		
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
8 Feb 2021	8:00 AM	0	W	
8 Feb 2021	9:00 AM	0.4	W	
8 Feb 2021	10:00 AM	0	WSW	
8 Feb 2021	11:00 AM	0.4	W	
8 Feb 2021	12:00 PM	0.4	ENE	
8 Feb 2021	1:00 PM	0.4	ESE	
8 Feb 2021	2:00 PM	0.4	ENE	
8 Feb 2021	3:00 PM	0	ENE	
8 Feb 2021	4:00 PM	0.4	ESE	
8 Feb 2021	5:00 PM	0.4	E	
8 Feb 2021	6:00 PM	0.4	W	
8 Feb 2021	7:00 PM	0.4	E	
8 Feb 2021	8:00 PM	0.4	ENE	
8 Feb 2021	9:00 PM	0.4	ENE	
8 Feb 2021	10:00 PM	0.4	E	
8 Feb 2021	11:00 PM	0.4	N	
9 Feb 2021	12:00 AM	0.4	ENE	
9 Feb 2021	1:00 AM	1.3	E	
9 Feb 2021	2:00 AM	1.3	NW	
9 Feb 2021	3:00 AM	2.2	NW	
9 Feb 2021	4:00 AM	1.3	NW	
9 Feb 2021	5:00 AM	0.4	NW	
9 Feb 2021	6:00 AM	0.9	E	
9 Feb 2021	7:00 AM	0.4	E	
9 Feb 2021	8:00 AM	0.4	ESE	
9 Feb 2021	9:00 AM	0.4	ESE	
9 Feb 2021	10:00 AM	0.4	ESE	
9 Feb 2021	11:00 AM	0.4	ESE	
9 Feb 2021	12:00 PM	0.4	NNE	
9 Feb 2021	1:00 PM	0.4	E	
9 Feb 2021	2:00 PM	0.4	NW	
9 Feb 2021	3:00 PM	0.9	NW	
9 Feb 2021	4:00 PM	0.4	NE	
9 Feb 2021	5:00 PM	0.9	NW	
9 Feb 2021	6:00 PM	0.4	NW	
9 Feb 2021	7:00 PM	0.9	NE	
9 Feb 2021	8:00 PM	1.3	NW	
9 Feb 2021	9:00 PM	1.3	NW	
9 Feb 2021	10:00 PM	1.8	NW	
9 Feb 2021	11:00 PM	1.8	NW	
10 Feb 2021	12:00 AM	2.2	NW	
10 Feb 2021	1:00 AM	1.3	NW	
10 Feb 2021	2:00 AM	2.7	NW	
10 Feb 2021	3:00 AM	2.2	NW	

February 2021 Wind Speed and Directions			
10 Feb 2021	4:00 AM	2.2	NW
10 Feb 2021	5:00 AM	1.3	NW
10 Feb 2021	6:00 AM	0.9	ENE
10 Feb 2021	7:00 AM	1.8	NW
10 Feb 2021	8:00 AM	1.8	NW
10 Feb 2021	9:00 AM	1.3	NW
10 Feb 2021	10:00 AM	1.3	NW
10 Feb 2021	11:00 AM	1.8	NW
10 Feb 2021	12:00 PM	1.3	NW
10 Feb 2021	1:00 PM	0.9	NW
10 Feb 2021	2:00 PM	0.4	NW
10 Feb 2021	3:00 PM	0.4	NW
10 Feb 2021	4:00 PM	0.9	N
10 Feb 2021	5:00 PM	0	NNW
10 Feb 2021	6:00 PM	0.4	NNW
10 Feb 2021	7:00 PM	0.9	NW
10 Feb 2021	8:00 PM	0.4	NNW
10 Feb 2021	9:00 PM	0.9	NW
10 Feb 2021	10:00 PM	0.9	NW
10 Feb 2021	11:00 PM	0.9	NW
11 Feb 2021	12:00 AM	1.3	NW
11 Feb 2021	1:00 AM	2.2	NW
11 Feb 2021	2:00 AM	2.7	NW
11 Feb 2021	3:00 AM	1.3	NNE
11 Feb 2021	4:00 AM	1.3	NW
11 Feb 2021	5:00 AM	1.8	NW
11 Feb 2021	6:00 AM	1.3	NW
11 Feb 2021	7:00 AM	1.3	NW
11 Feb 2021	8:00 AM	0.9	NW
11 Feb 2021	9:00 AM	0.9	NW
11 Feb 2021	10:00 AM	0.4	NW
11 Feb 2021	11:00 AM	0	NW
11 Feb 2021	12:00 PM	0.4	NW
11 Feb 2021	1:00 PM	0	NW
11 Feb 2021	2:00 PM	0	
11 Feb 2021	3:00 PM	0	
11 Feb 2021	4:00 PM	0	NNW
11 Feb 2021	5:00 PM	0.4	NW
11 Feb 2021	6:00 PM	0.4	NW
11 Feb 2021	7:00 PM	0.4	NW
11 Feb 2021	8:00 PM	0.4	NW
11 Feb 2021	9:00 PM	1.3	Е
11 Feb 2021	10:00 PM	1.3	Е
11 Feb 2021	11:00 PM	1.3	ENE

February 2021 Wind Speed and Directions			
12 Feb 2021	12:00 AM	0.9	ESE
12 Feb 2021	1:00 AM	1.8	NW
12 Feb 2021	2:00 AM	1.3	NW
12 Feb 2021	3:00 AM	2.2	NW
12 Feb 2021	4:00 AM	1.8	NW
12 Feb 2021	5:00 AM	2.2	NW
12 Feb 2021	6:00 AM	1.3	NW
12 Feb 2021	7:00 AM	0.4	NW
12 Feb 2021	8:00 AM	0.9	NW
12 Feb 2021	9:00 AM	0.4	NW
12 Feb 2021	10:00 AM	0.4	NW
12 Feb 2021	11:00 AM	0.9	NE
12 Feb 2021	12:00 PM	0.4	NW
12 Feb 2021	1:00 PM	0.4	NNW
12 Feb 2021	2:00 PM	0.9	NW
12 Feb 2021	3:00 PM	0	NNE NW
12 Feb 2021	4:00 PM	0.9	
12 Feb 2021	5:00 PM 6:00 PM	0.9	NW
12 Feb 2021 12 Feb 2021	7:00 PM	0.9	NNE WNW
12 Feb 2021 12 Feb 2021	8:00 PM	1.3	NW
12 Feb 2021 12 Feb 2021	9:00 PM	0.4	ENE
12 Feb 2021	10:00 PM	0.4	NNE
12 Feb 2021	11:00 PM	0.9	NW
13 Feb 2021	12:00 AM	1.3	NW
13 Feb 2021	1:00 AM	2.7	NW
13 Feb 2021	2:00 AM	2.7	NW
13 Feb 2021	3:00 AM	2.7	NW
13 Feb 2021	4:00 AM	1.8	NW
13 Feb 2021	5:00 AM	0.4	NW
13 Feb 2021	6:00 AM	0.9	NW
13 Feb 2021	7:00 AM	1.3	NW
13 Feb 2021	8:00 AM	0.4	W
13 Feb 2021	9:00 AM	0.9	NW
13 Feb 2021	10:00 AM	0.4	NW
13 Feb 2021	11:00 AM	0.4	WSW
13 Feb 2021	12:00 PM	1.3	NW
13 Feb 2021	1:00 PM	0.9	NW
13 Feb 2021	2:00 PM	1.8	NW
13 Feb 2021	3:00 PM	1.8	NW
13 Feb 2021	4:00 PM	1.8	NW
13 Feb 2021	5:00 PM	0.9	NW
13 Feb 2021	6:00 PM	1.3	NW
13 Feb 2021	7:00 PM	0.9	NW

February 2021 Wind Speed and Directions			
13 Feb 2021	8:00 PM	0.4	W
13 Feb 2021	9:00 PM	0.4	NW
13 Feb 2021	10:00 PM	0.9	NW
13 Feb 2021	11:00 PM	1.3	NE
14 Feb 2021	12:00 AM	0.9	NE
14 Feb 2021	1:00 AM	1.3	NW
14 Feb 2021	2:00 AM	1.8	NW
14 Feb 2021	3:00 AM	2.7	NW
14 Feb 2021	4:00 AM	1.8	NW
14 Feb 2021	5:00 AM	0.9	NW
14 Feb 2021	6:00 AM	0.4	NNW
14 Feb 2021	7:00 AM	0.4	NW
14 Feb 2021	8:00 AM	0.4	NW
14 Feb 2021	9:00 AM	0.4	NW
14 Feb 2021	10:00 AM	0.4	NW
14 Feb 2021	11:00 AM	0.4	NW
14 Feb 2021	12:00 PM	2.2	ESE
14 Feb 2021	1:00 PM	0.9	WNW
14 Feb 2021	2:00 PM	0.9	WNW
14 Feb 2021	3:00 PM	2.2	Е
14 Feb 2021	4:00 PM	1.8	ENE
14 Feb 2021	5:00 PM	1.8	NW
14 Feb 2021	6:00 PM	2.2	ENE
14 Feb 2021	7:00 PM	2.2	ENE
14 Feb 2021	8:00 PM	1.3	NW
14 Feb 2021	9:00 PM	1.8	NE
14 Feb 2021	10:00 PM	1.8	NW
14 Feb 2021	11:00 PM	1.3	ENE
15 Feb 2021	12:00 AM	2.7	Е
15 Feb 2021	1:00 AM	2.7	Е
15 Feb 2021	2:00 AM	2.7	Е
15 Feb 2021	3:00 AM	3.1	Е
15 Feb 2021	4:00 AM	1.8	Е
15 Feb 2021	5:00 AM	1.8	Е
15 Feb 2021	6:00 AM	1.3	ESE
15 Feb 2021	7:00 AM	1.3	Е
15 Feb 2021	8:00 AM	1.3	Е
15 Feb 2021	9:00 AM	0.9	ENE
15 Feb 2021	10:00 AM	0.9	ESE
15 Feb 2021	11:00 AM	1.3	ESE
15 Feb 2021	12:00 PM	0.9	E
15 Feb 2021	1:00 PM	0.9	NNW
15 Feb 2021	2:00 PM	0.9	ENE
15 Feb 2021	3:00 PM	1.3	E

February 2021 Wind Speed and Directions			
15 Feb 2021	4:00 PM	1.8	E
15 Feb 2021	5:00 PM	0.9	ENE
15 Feb 2021	6:00 PM	1.3	SE
15 Feb 2021	7:00 PM	0.9	NW
15 Feb 2021	8:00 PM	1.3	NW
15 Feb 2021	9:00 PM	2.7	E
15 Feb 2021	10:00 PM	2.2	E
15 Feb 2021	11:00 PM	2.2	E
16 Feb 2021	12:00 AM	1.8	E
16 Feb 2021	1:00 AM	1.8	E
16 Feb 2021	2:00 AM	1.3	SE
16 Feb 2021	3:00 AM	1.3	E
16 Feb 2021	4:00 AM	1.3	ESE
16 Feb 2021	5:00 AM	0.9	ESE
16 Feb 2021	6:00 AM	0.9	ESE
16 Feb 2021	7:00 AM	0.9	ESE
16 Feb 2021	8:00 AM	1.3	ESE
16 Feb 2021	9:00 AM	0.9	ESE
16 Feb 2021	10:00 AM	1.3	ESE
16 Feb 2021	11:00 AM	0.9	ESE
16 Feb 2021	12:00 PM	0.4	E
16 Feb 2021	1:00 PM	0.9	SE
16 Feb 2021	2:00 PM	0.9	SE
16 Feb 2021	3:00 PM	1.3	SE
16 Feb 2021	4:00 PM	1.3	SE
16 Feb 2021	5:00 PM	1.8	WNW
16 Feb 2021	6:00 PM	1.3	WNW
16 Feb 2021	7:00 PM	1.8	WNW
16 Feb 2021	8:00 PM	1.8	NNW
16 Feb 2021	9:00 PM	0.9	WNW
16 Feb 2021	10:00 PM	0.9	WNW
16 Feb 2021	11:00 PM	1.3	NNW
17 Feb 2021	12:00 AM	1.8	NNW
17 Feb 2021	1:00 AM	0.9	WNW
17 Feb 2021	2:00 AM	0.4	NW
17 Feb 2021	3:00 AM	0.4	NW
17 Feb 2021	4:00 AM	0.4	NNW
17 Feb 2021	5:00 AM	0.4	ESE
17 Feb 2021	6:00 AM	1.3	NNW
17 Feb 2021	7:00 AM	0.4	NNW
17 Feb 2021	8:00 AM	0.4	NNW
17 Feb 2021	9:00 AM	0.4	WNW
17 Feb 2021	10:00 AM	0	SE
17 Feb 2021	11:00 AM	0.4	NNW

February 2021 Wind Speed and Directions			
17 Feb 2021	12:00 PM	0.9	NW
17 Feb 2021	1:00 PM	0	NW
17 Feb 2021	2:00 PM	0.4	NNW
17 Feb 2021	3:00 PM	0.9	NNW
17 Feb 2021	4:00 PM	1.8	NNW
17 Feb 2021	5:00 PM	1.3	NNW
17 Feb 2021	6:00 PM	2.2	NNW
17 Feb 2021	7:00 PM	2.7	NNW
17 Feb 2021	8:00 PM	2.7	NNW
17 Feb 2021	9:00 PM	1.3	NNW
17 Feb 2021	10:00 PM	1.8	NNW
17 Feb 2021	11:00 PM	1.3	NNW
18 Feb 2021	12:00 AM	0.9	NNW
18 Feb 2021	1:00 AM	0.4	NNW
18 Feb 2021	2:00 AM	0.4	Ν
18 Feb 2021	3:00 AM	0.9	NNW
18 Feb 2021	4:00 AM	0.9	NNW
18 Feb 2021	5:00 AM	0.4	NW
18 Feb 2021	6:00 AM	0.4	NNW
18 Feb 2021	7:00 AM	0.4	N
18 Feb 2021	8:00 AM	0.9	NNW
18 Feb 2021	9:00 AM	0.9	NNW
18 Feb 2021	10:00 AM	0.4	N
18 Feb 2021	11:00 AM	0	ENE
18 Feb 2021	12:00 PM	0	ENE
18 Feb 2021	1:00 PM	0	ENE
18 Feb 2021	2:00 PM	0	ENE
18 Feb 2021	3:00 PM	0	ENE
18 Feb 2021	4:00 PM	0	Ν
18 Feb 2021	5:00 PM	0	N
18 Feb 2021	6:00 PM	0.4	Ν
18 Feb 2021	7:00 PM	0.9	NNW
18 Feb 2021	8:00 PM	0.9	NW
18 Feb 2021	9:00 PM	1.8	NNW
18 Feb 2021	10:00 PM	1.8	NNW
18 Feb 2021	11:00 PM	0.9	W
19 Feb 2021	12:00 AM	0.9	NNW
19 Feb 2021	1:00 AM	1.3	W
19 Feb 2021	2:00 AM	0.9	W
19 Feb 2021	3:00 AM	0.4	W
19 Feb 2021	4:00 AM	0.4	NNW
19 Feb 2021	5:00 AM	0.4	ENE
19 Feb 2021	6:00 AM	0.9	Е
19 Feb 2021	7:00 AM	0.9	ENE

February 2021 Wind Speed and Directions			
19 Feb 2021	8:00 AM	0.9	NE
19 Feb 2021	9:00 AM	0.9	NE
19 Feb 2021	10:00 AM	1.3	ENE
19 Feb 2021	11:00 AM	1.3	E
19 Feb 2021	12:00 PM	1.3	E
19 Feb 2021	1:00 PM	1.3	E
19 Feb 2021	2:00 PM	0.9	E
19 Feb 2021	3:00 PM	0.9	E
19 Feb 2021	4:00 PM	0.9	ENE
19 Feb 2021	5:00 PM	0.9	ENE
19 Feb 2021	6:00 PM	0.9	N
19 Feb 2021	7:00 PM	0.9	ENE
19 Feb 2021	8:00 PM	0.9	NE
19 Feb 2021	9:00 PM	1.3	NNW
19 Feb 2021	10:00 PM	1.8	W
19 Feb 2021	11:00 PM	1.3	NNW
20 Feb 2021	12:00 AM	1.8	NNW
20 Feb 2021	1:00 AM	1.8	NNW
20 Feb 2021 20 Feb 2021	2:00 AM	<u>2.2</u> 1.8	NNW NNW
20 Feb 2021 20 Feb 2021	3:00 AM 4:00 AM	2.2	NNW
20 Feb 2021 20 Feb 2021	5:00 AM	1.8	NE
20 Feb 2021 20 Feb 2021	6:00 AM	0.9	ENE
20 Feb 2021	7:00 AM	0.9	N
20 Feb 2021 20 Feb 2021	8:00 AM	0.4	N
20 Feb 2021 20 Feb 2021	9:00 AM	0.4	E
20 Feb 2021 20 Feb 2021	10:00 AM	0	NE
20 Feb 2021	11:00 AM	0	NE
20 Feb 2021	12:00 PM	0	NE
20 Feb 2021	1:00 PM	0	NNE
20 Feb 2021	2:00 PM	0	NNE
20 Feb 2021	3:00 PM	0	NE
20 Feb 2021	4:00 PM	0	NE
20 Feb 2021	5:00 PM	0	NE
20 Feb 2021	6:00 PM	0	NNW
20 Feb 2021	7:00 PM	0	NE
20 Feb 2021	8:00 PM	0	NE
20 Feb 2021	9:00 PM	0.4	NNW
20 Feb 2021	10:00 PM	1.3	NNW
20 Feb 2021	11:00 PM	2.2	NNW
21 Feb 2021	12:00 AM	3.6	NNW
21 Feb 2021	1:00 AM	3.6	NNW
21 Feb 2021	2:00 AM	3.1	NNW
21 Feb 2021	3:00 AM	3.1	NNW

February 2021 Wind Speed and Directions										
21 Feb 2021	4:00 AM	1.8	NNW							
21 Feb 2021	5:00 AM	1.3	NNW							
21 Feb 2021	6:00 AM	0.4	NE							
21 Feb 2021	7:00 AM	0.9	ENE							
21 Feb 2021	8:00 AM	0.9	NNE							
21 Feb 2021	9:00 AM	0.9	ENE							
21 Feb 2021	10:00 AM	0.9	NE							
21 Feb 2021	11:00 AM	0.4	WNW							
21 Feb 2021	12:00 PM	0.4	WNW							
21 Feb 2021	1:00 PM	0.4	WNW							
21 Feb 2021	2:00 PM	0.4	NW							
21 Feb 2021	3:00 PM	0	W							
21 Feb 2021	4:00 PM	0	W							
21 Feb 2021	5:00 PM	0	WNW							
21 Feb 2021	6:00 PM	0.4	WNW							
21 Feb 2021	7:00 PM	0.4	W							
21 Feb 2021	8:00 PM	0.9	W							
21 Feb 2021	9:00 PM	0.9	W							
21 Feb 2021	10:00 PM	0.9	SSW							
21 Feb 2021	11:00 PM	0.9	SSW							
22 Feb 2021	12:00 AM	1.3	W							
22 Feb 2021	1:00 AM	1.3	SW							
22 Feb 2021	2:00 AM	0.9	SW							
22 Feb 2021	3:00 AM	0	SSW							
22 Feb 2021	4:00 AM	0.4	SSW							
22 Feb 2021	5:00 AM	1.3	SSW							
22 Feb 2021	6:00 AM	0.4	WNW							
22 Feb 2021	7:00 AM	0.4	WNW							
22 Feb 2021	8:00 AM	0.4	WNW							
22 Feb 2021	9:00 AM	0	WNW							
22 Feb 2021	10:00 AM	0.4	WNW							
22 Feb 2021	11:00 AM	0.9	W							
22 Feb 2021	12:00 PM	0	WNW							
22 Feb 2021	1:00 PM	0.4	WNW							
22 Feb 2021	2:00 PM	0.9	WNW							
22 Feb 2021	3:00 PM	1.8	WNW							
22 Feb 2021	4:00 PM	1.3	NW							
22 Feb 2021	5:00 PM	2.2	ESE							
22 Feb 2021	6:00 PM	2.7	ESE							
22 Feb 2021	7:00 PM	2.7	NW							
22 Feb 2021	8:00 PM	1.3	WNW							
22 Feb 2021	9:00 PM	1.8	WNW							
22 Feb 2021	10:00 PM	0	WNW							
22 Feb 2021	11:00 PM	0.9	WNW							
February 2021										
---------------	--------------	----------------	-----------	--	--	--	--	--	--	--
	Wind Speed a	nd Directions								
Date	Time	Wind Speed m-s	Direction							
23 Feb 2021	12:00 AM	1.3	SW							
23 Feb 2021	1:00 AM	1.3	ENE							
23 Feb 2021	2:00 AM	1.3	ENE							
23 Feb 2021	3:00 AM	1.3	SW							
23 Feb 2021	4:00 AM	1.8	SW							
23 Feb 2021	5:00 AM	0.9	SSW							
23 Feb 2021	6:00 AM	1.3	SW							
23 Feb 2021	7:00 AM	0.9	ENE							
23 Feb 2021	8:00 AM	0.9	ENE							
23 Feb 2021	9:00 AM	0.4	SW							
23 Feb 2021	10:00 AM	0.9	ESE							
23 Feb 2021	11:00 AM	0.4	W							
23 Feb 2021	12:00 PM	0.4	NE							
23 Feb 2021	1:00 PM	0.4	NW							
23 Feb 2021	2:00 PM	0	WNW							
23 Feb 2021	3:00 PM	0	W							
23 Feb 2021	4:00 PM	0.4	W							
23 Feb 2021	5:00 PM	0.4	NW							
23 Feb 2021	6:00 PM	0.9	WNW							
23 Feb 2021	7:00 PM	1.3	WNW							
23 Feb 2021	8:00 PM	1.3	NW							
23 Feb 2021	9:00 PM	0.9	W							
23 Feb 2021	10:00 PM	0.9	WSW							
23 Feb 2021	11:00 PM	0.9	WNW							
24 Feb 2021	12:00 AM	2.7	WNW							
24 Feb 2021	1:00 AM	2.2	ESE							
24 Feb 2021	2:00 AM	0.9	Е							
24 Feb 2021	3:00 AM	0.4	WNW							
24 Feb 2021	4:00 AM	0.4	NW							
24 Feb 2021	5:00 AM	0.4	W							
24 Feb 2021	6:00 AM	0.9	W							
24 Feb 2021	7:00 AM	0.9	NW							
24 Feb 2021	8:00 AM	0.9	WNW							
24 Feb 2021	9:00 AM	1.3	WNW							
24 Feb 2021	10:00 AM	1.8	ESE							
24 Feb 2021	11:00 AM	2.7	Е							
24 Feb 2021	12:00 PM	3.6	WNW							
24 Feb 2021	1:00 PM	2.2	NW							
24 Feb 2021	2:00 PM	2.2	W							
24 Feb 2021	3:00 PM	1.8	W							
24 Feb 2021	4:00 PM	1.3	NW							
24 Feb 2021	5:00 PM	0.9	WNW							
24 Feb 2021	6:00 PM	0.4	NW							
24 Feb 2021	7:00 PM	0.4	WNW							

	Februar	ry 2021	
	Wind Speed a	nd Directions	
Date	Time	Wind Speed m-s	Direction
24 Feb 2021	8:00 PM	0.4	WNW
24 Feb 2021	9:00 PM	0.9	NW
24 Feb 2021	10:00 PM	0.9	NW
24 Feb 2021	11:00 PM	1.3	NW
25 Feb 2021	12:00 AM	0.4	NW
25 Feb 2021	1:00 AM	0.9	NW
25 Feb 2021	2:00 AM	1.8	NW
25 Feb 2021	3:00 AM	0.4	NW
25 Feb 2021	4:00 AM	0.9	NW
25 Feb 2021	5:00 AM	0.9	NW
25 Feb 2021	6:00 AM	0.9	SE
25 Feb 2021	7:00 AM	1.8	NW
25 Feb 2021	8:00 AM	0.9	NW
25 Feb 2021	9:00 AM	0.4	NW
25 Feb 2021	10:00 AM	0	NW
25 Feb 2021	11:00 AM	0.9	NW
25 Feb 2021	12:00 PM	0.4	NW
25 Feb 2021	1:00 PM	0.9	NW
25 Feb 2021	2:00 PM	0.9	NW
25 Feb 2021	3:00 PM	1.3	NW
25 Feb 2021	4:00 PM	2.7	NW
25 Feb 2021	5:00 PM	2.2	NNW
25 Feb 2021	6:00 PM	2.7	NW
25 Feb 2021	7:00 PM	3.1	NW
25 Feb 2021	8:00 PM	2.2	NW
25 Feb 2021	9:00 PM	1.3	NW
25 Feb 2021	10:00 PM	0.9	NW
25 Feb 2021	11:00 PM	0.9	NW
26 Feb 2021	12:00 AM	0.9	NW
26 Feb 2021	1:00 AM	0.9	NW
26 Feb 2021	2:00 AM	0.9	NW
26 Feb 2021	3:00 AM	0.9	NW
26 Feb 2021	4:00 AM	0.9	NW
26 Feb 2021	5:00 AM	1.3	WNW
26 Feb 2021	6:00 AM	0.9	NW
26 Feb 2021	7:00 AM	1.8	NW
26 Feb 2021	8:00 AM	0.9	NW
26 Feb 2021	9:00 AM	0.9	NW
26 Feb 2021	10:00 AM	0.9	W
26 Feb 2021	11:00 AM	0.9	W
26 Feb 2021	12:00 PM	0.9	NW
26 Feb 2021	1:00 PM	1.3	NW
26 Feb 2021	2:00 PM	0.9	NW
26 Feb 2021	3:00 PM	0	W

	Februar	ry 2021	
	Wind Speed a	nd Directions	
Date	Time	Wind Speed m-s	Direction
26 Feb 2021	4:00 PM	0	WNW
26 Feb 2021	5:00 PM	0	W
26 Feb 2021	6:00 PM	0	WNW
26 Feb 2021	7:00 PM	0	NNE
26 Feb 2021	8:00 PM	0	W
26 Feb 2021	9:00 PM	0	WNW
26 Feb 2021	10:00 PM	0	WNW
26 Feb 2021	11:00 PM	0	WNW
27 Feb 2021	12:00 AM	0	WNW
27 Feb 2021	1:00 AM	0	WNW
27 Feb 2021	2:00 AM	0	WNW
27 Feb 2021	3:00 AM	0	WNW
27 Feb 2021	4:00 AM	0	WNW
27 Feb 2021	5:00 AM	1.3	WNW
27 Feb 2021	6:00 AM	1.8	WNW
27 Feb 2021	7:00 AM	0.9	WSW
27 Feb 2021	8:00 AM	1.3	WSW
27 Feb 2021	9:00 AM	0.9	WSW
27 Feb 2021	10:00 AM	1.3	WSW
27 Feb 2021	11:00 AM	2.7	W
27 Feb 2021	12:00 PM	2.2	NE
27 Feb 2021	1:00 PM	2.2	ENE
27 Feb 2021	2:00 PM	0.9	NE
27 Feb 2021	3:00 PM	0.4	NE
27 Feb 2021	4:00 PM	0.4	WSW
27 Feb 2021	5:00 PM	0.4	W
27 Feb 2021	6:00 PM	0.9	WSW
27 Feb 2021	7:00 PM	0.9	WSW
27 Feb 2021	8:00 PM	0.9	WSW
27 Feb 2021	9:00 PM	1.3	WSW
27 Feb 2021	10:00 PM	1.8	WNW
27 Feb 2021	11:00 PM	2.7	WNW
28 Feb 2021	12:00 AM	3.6	WSW
28 Feb 2021	1:00 AM	2.2	ENE
28 Feb 2021	2:00 AM	2.2	SW
28 Feb 2021	3:00 AM	1.8	ENE
28 Feb 2021	4:00 AM	1.3	E
28 Feb 2021	5:00 AM	0.9	SW
28 Feb 2021	6:00 AM	0.4	ENE
28 Feb 2021	7:00 AM	0.4	ENE
28 Feb 2021	8:00 AM	0.4	SW
28 Feb 2021	9:00 AM	0.9	SW
28 Feb 2021	10:00 AM	0.9	SSW
28 Feb 2021	11:00 AM	1.3	SW

February 2021									
Wind Speed and Directions									
Date	Time	Wind Speed m-s	Direction						
28 Feb 2021	12:00 PM	0.9	E						
28 Feb 2021	1:00 PM	0.9	ENE						
28 Feb 2021	2:00 PM	0.4	Е						
28 Feb 2021	3:00 PM	0.9	ENE						
28 Feb 2021	4:00 PM	0.4	NW						
28 Feb 2021	5:00 PM	0.9	ENE						
28 Feb 2021	6:00 PM	0.9	WNW						
28 Feb 2021	7:00 PM	0.9	ENE						
28 Feb 2021	8:00 PM	1.3	ESE						
28 Feb 2021	9:00 PM	0.4	NW						
28 Feb 2021	10:00 PM	0.4	NW						
28 Feb 2021	11:00 PM	0.9	NW						

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

	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)	0	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
1-Feb-21	Sunny	293.6	765.7	2.6812	2.8294	0.1482	1864.0	1888.0	24.0	1.21	1.21	1.21	1744.3	85.0		
6-Feb-21	Sunny	293.5	764.1	2.7033	3.0000	0.2967	1888.0	1912.0	24.0	1.21	1.21	1.21	1743.1	170.2		
10-Feb-21	Sunny	290.0	761.6	2.6808	2.7655	0.0847	1912.0	1936.0	24.0	1.22	1.21	1.21	1749.6	48.4	191.0	260.0
16-Feb-21	Fine	293.4	764.4	2.6649	2.7721	0.1072	1936.0	1960.0	24.0	1.21	1.21	1.21	1743.7	61.5	131.0	200.0
22-Feb-21	Sunny	294.6	762.6	2.6670	2.8242	0.1572	1984.0	2008.0	24.0	1.21	1.21	1.21	1738.9	90.4		
27-Feb-21	Cloudy	292.4	762.1	2.6965	2.8413	0.1448	2008.0	2032.0	24.0	1.21	1.21	1.21	1744.0	83.0		
Note:	Bold Italic means A												Min	48.4		
	Bold Italic with und	lerline means l	imit Level exceedance										Max	170.2		
													Average	89.7		

Location CKL2 - Flat 103 Cha Kwo Ling Village

	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)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
1-Feb-21	Sunny	293.6	765.7	2.6614	2.8174	0.1560	14027.4	14051.4	24.0	1.21	1.21	1.21	1741.5	89.6		
6-Feb-21	Sunny	293.5	764.1	2.6496	2.8017	0.1521	14051.4	14075.4	24.0	1.21	1.21	1.21	1740.7	87.4		
10-Feb-21	Sunny	290.0	761.6	2.6294	2.7384	0.1090	14075.4	14099.4	24.0	1.21	1.21	1.21	1747.9	62.4	183.0	260.0
16-Feb-21	Fine	293.4	764.4	2.6787	2.7848	0.1061	14099.4	14123.4	24.0	1.21	1.21	1.21	1741.4	60.9	103.0	200.0
22-Feb-21	Sunny	294.6	762.6	2.6632	2.7915	0.1283	14149.4	14173.4	24.0	1.21	1.20	1.20	1734.9	74.0		
27-Feb-21	Cloudy	292.4	762.1	2.7008	2.8213	0.1205	14171.4	14195.4	24.0	1.21	1.21	1.21	1741.1	69.2		
Note:	Bold Italic means A	Action Level exce	eedance			-	-					-	Min	60.9		-
	Bold Italic with und	derline means L	imit Level exceedance										Max	89.6		
													Average	73.9]	

Appendix F - 24-hour TSP Impact Monitoring Results

	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)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
1-Feb-21	Sunny	293.6	765.7	2.6901	2.8323	0.1422	13622.5	13646.5	24.0	1.21	1.21	1.21	1742.1	81.6		
6-Feb-21	Sunny	293.5	764.1	2.6888	2.8264	0.1376	13646.6	13670.6	24.0	1.22	1.22	1.22	1752.6	78.5		
10-Feb-21	Sunny	290.0	761.6	2.6815	2.7941	0.1126	13670.6	13694.6	24.0	1.22	1.22	1.22	1759.6	64.0	177.0	260.0
16-Feb-21	Fine	293.4	764.4	2.6540	2.8460	0.1920	13695.0	13719.0	24.0	1.22	1.22	1.22	1753.3	109.5	177.0	200.0
22-Feb-21	Sunny	294.6	762.6	2.7193	2.8161	0.0968	13719.0	13743.0	24.0	1.21	1.21	1.21	1748.2	55.4		
27-Feb-21	Cloudy	292.4	762.1	2.7127	2.7494	0.0367	13743.0	13767.0	24.0	1.22	1.22	1.22	1753.7	20.9		
Note:	Bold Italic means A	Action Level exce	eedance										Min	20.9		
	Bold Italic with und	derline means L	imit Level exceedance										Max	109.5		
													Average	68.3		

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

Location KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)

	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)
1-Feb-21	Sunny	293.6	765.7	2.6510	2.9701	0.3191	12008.9	12032.9	24.0	1.21	1.21	1.21	1738.0	183.6		
6-Feb-21	Sunny	293.5	764.1	2.6458	2.8303	0.1845	12057.5	12081.5	24.0	1.22	1.22	1.22	1751.9	105.3		
10-Feb-21	Sunny	290.0	761.6	2.6743	2.6984	0.0241	12081.9	12105.9	24.0	1.22	1.22	1.22	1761.5	13.7	157.0	260.0
16-Feb-21	Fine	293.4	764.4	2.6836	2.7684	0.0848	12106.2	12130.2	24.0	1.22	1.22	1.22	1752.8	48.4	157.0	200.0
22-Feb-21	Sunny	294.6	762.6	2.7103	2.8343	0.1240	12130.5	12154.5	24.0	1.21	1.21	1.21	1745.8	71.0		
27-Feb-21	Cloudy	292.4	762.1	2.7278	2.9697	0.2419	12154.8	12178.8	24.0	1.22	1.22	1.22	1753.3	138.0		
Note:	Bold Italic means	Action Level exc	eedance										Min	13.7		
	Bold Italic with un	derline means	Limit Level exceedance										Max	183.6		
													Average	93.3		

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)	0	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
1-Feb-21	Sunny	293.6	765.7	2.6908	2.9670	0.2762	11200.8	11224.8	24.0	1.21	1.21	1.21	1737.3	159.0		
6-Feb-21	Sunny	293.5	764.1	2.6903	2.7581	0.0678	11224.8	11248.8	24.0	1.22	1.22	1.22	1751.8	38.7		
10-Feb-21	Sunny	290.0	761.6	2.6559	2.8642	0.2083	11274.5	11298.5	24.0	1.22	1.22	1.22	1760.5	118.3	172.0	260.0
16-Feb-21	Fine	293.4	764.4	2.6415	2.7387	0.0972	11298.5	11322.5	24.0	1.22	1.22	1.22	1752.7	55.5	172.0	200.0
22-Feb-21	Sunny	294.6	762.6	2.7011	2.7817	0.0806	11322.5	11346.5	24.0	1.21	1.21	1.21	1746.3	46.2		
27-Feb-21	Cloudy	292.4	762.1	2.7227	2.8202	0.0975	11346.5	11370.5	24.0	1.22	1.22	1.22	1753.1	55.6		
Note:	Bold Italic means A	Action Level exce	eedance										Min	38.7		
	Bold Italic with und	derline means l	imit Level exceedance										Max	159.0		
													Average	78.9		

APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



0025914

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

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

5. The calibrations certificate may not be reproduced.

Measured value(s)

the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



0024995

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

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

Measured value(s)

Calibration Technician

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

Quality Manager

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

Mr. K.L. Ng

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



0024996

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

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

5. The calibrations certificate may not be	5. The calibrations certificate may not be reproduced.					
Measured value(s) within	the allowable deviation.					
Performed by		Approved by				
le/5		Mr. K.S. Ng				
Calibration Technician	Mr. K.L. Ng	Quality Manager				
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong St	i, Kin, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393				



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



0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 : Serial No. /Ref. No. : Object 2 : Serial No. /Ref. No. :	ST-120 sound calibrator 181001636
Customer Code : SVEC09005 Date of calibration: 0)5/11/2020)5/11/2021	Manufacturer : Sour Certificate No.: Handle by:	ndtek 0025249 E0002

Measuring results

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

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

5. The calibrations certificate may not be reproduced.

Measured value(s) within	the allowable deviation.	
Performed by		Approved by
ar		L
Calibration Technician	Mr. K.L. Ng	Quality Manager
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong S	t, KIn, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

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							
				Unit: dB	(A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level
Dato	11110						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
2-Feb-21	11:24	Sunny	72.0	75.1	63.3	72.4	72 Measured ≦ Baseline
8-Feb-21	10:30	Sunny	71.2	74.8	59.6	72.4	71.2 Measured ≦ Baseline
17-Feb-21	16:05	Sunny	66.2	69.1	58.3	72.4	66.2 Measured ≦ Baseline
23-Feb-21	13:00	Sunny	68.3	72.2	55.9	72.4	68.3 Measured \leq Baseline

Location CKL2 - Flat 103 Cha Kwo Ling Village

Location one 2 - That too ona Nwo Enig vinage							
				Unit: dB			
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level
Date	Time	Weather					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
2-Feb-21	10:45	Sunny	68.5	71.9	60.1	71.4	68.5 Measured \leq Baseline
8-Feb-21	9:55	Sunny	70.1	73.7	59.0	71.4	70.1 Measured ≦ Baseline
17-Feb-21	15:30	Sunny	66.2	69.9	53.3	71.4	66.2 Measured \leq Baseline
23-Feb-21	13:30	Sunny	71.2	75.3	67.1	71.4	71.2 Measured ≦ Baseline

Appendix H - Noise Monitoring Results

Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
				Unit:	dB (A) (30-min)		
Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Time	, weather						
		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
11:30	Sunny	68.2	69.7	66.6	78.0	68.2 Measured ≦ Baseline	
11:45	Sunny	68.4	69.3	67.3	78.0	68.4 Measured ≦ Baseline	
11:35	Sunny	66.2	68.4	64.7	78.0	66.2 Measured ≦ Baseline	
11:11	Sunny	64.6	65.4	64.0	78.0	64.6 Measured ≦ Baseline	
	Time 11:30 11:45 11:35	TimeWeather11:30Sunny11:45Sunny11:35Sunny	Time Weather Measure 11:30 Sunny 68.2 11:45 Sunny 68.4 11:35 Sunny 66.2	Time Weather Measured Noise I 11:30 Sunny 68.2 69.7 11:45 Sunny 68.4 69.3 11:35 Sunny 66.2 68.4	Time Weather Measured Noise Level 11:30 Sunny 68.2 69.7 66.6 11:45 Sunny 68.4 69.3 67.3 11:35 Sunny 66.2 68.4 64.7	Time Weather Measured Noise Level Baseline Level 11:30 Sunny 68.2 69.7 66.6 78.0 11:45 Sunny 68.4 69.3 67.3 78.0 11:35 Sunny 66.2 68.4 64.7 78.0	

(0700-1900 hrs on Normal Weekdays)

Location KTD2	Location KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)								
				Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Duto	Time								
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
2-Feb-21	10:45	Sunny	67.5	68.6	66.0	64.0	65		
8-Feb-21	14:20	Sunny	72.5	74.5	65.2	64.0	72		
17-Feb-21	11:00	Sunny	70.3	71.6	65.6	64.0	69		
23-Feb-21	10:30	Sunny	71.2	75.1	65.7	64.0	70		

Location KER1 - Future Residential Development at Kerry Godown

	Time	lime Weather	Unit: dB (A) (30-min)					
Date			Measured Noise Level			Baseline Level	Construction Noise Level	
Date								
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
2-Feb-21	13:03	Sunny	65.6	69.0	62.4	65.0	57	
8-Feb-21	15:15	Sunny	68.6	71.3	65.2	65.0	66	
17-Feb-21	13:00	Sunny	67.7	70.3	63.0	65.0	64	
23-Feb-21	11:43	Sunny	63.3	65.9	61.2	65.0	63.3 Measured \leq 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 210204 Checklist Reference Number 210204 Date 04 February 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.:210128), all item has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	04 February 2021
Checked by	Karina Chan	Zalle	04 February 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210211
Date	11 February 2021 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
210211 – R1	 B. Water Quality Muddy water and stillwater should be avoided after rain storm. 	<i>B</i> 9
210211 - R3	 C. Air Quality Stockpile of excavated material shall be covered. 	C9
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
210211 - R2	• Oil Stain was observed	E8
	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	
	• No major environmental deficiency was identified during previous session (Ref No.:210204).	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	11 February 2021
Checked by	Karina Chan	Zelle	11 February 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210218
Date	18 February 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.:210211), all item has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	18 February 2021
Checked by	Karina Chan	Zalle	18 February 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210225
Date	25 February 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.	
	 D. Construction Noise Impact No environmental deficiency was identified during site inspection. 	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>No major environmental deficiency was identified on the previous session (Ref No.:210218).	

	Name	Signature	Date
Recorded by	Tim Lui	Cigli	25 February 2021
Checked by	Karina Chan	Zalle	25 February 2021

APPENDIX J EVENT AND ACTION PLANS

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

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

	Action							
Event	ET	IEC	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; 	ER 1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; Implement the agreed proposals; Amend proposal if 				
	Contractor's remedial actions and keep IEC and ER informed of the results.	5. Supervise implementation of remedial measures.		appropriate.				
2. Exceedance for two or more	1. Notify IEC, ER and Contractor;	 Discuss amongst ER, ET, and Contractor on the potential 	1. Confirm receipt of notification of exceedance in	 Take immediate action to avoid further exceedance; 				
consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial				

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

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

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

E	Action						
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	Relevant Standard or Requirement					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		٨	
	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 3-sided barriers around the stockpiling areas WA3 and WA4.								N/A(1)	
S2.3.1.2	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 Agent	Relevant Standard or Requirement			n Stages	Status	
-----------	--	---	-----------------	-------------------------	-------------------------------------	---	---	----------	--------	
						D	С	0		
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								۸	
	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 Location/Timing Imp Measures & Main Concern to Address Imp	ı	Implementation Agent	Relevant Standard or Requirement	Implementation Stages				Status
						D	C	0		
Noise Impact	L					1		L I		
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		۸	
\$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	
\$3.4.1.1	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		٨	
	Mobile plant, if any, should be sited as far from NSRs as possible;								^	
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								۸	
	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								٨	

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.								^
	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		Į							
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 $0.1\text{m}^3/\text{s}$, a sedimentation basin of 30m^3 would be required and for a flow rate of $0.5\text{m}^3/\text{s}$ 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;								^
	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;								٨
	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;								٨
	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;								٨

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	
	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers;								۸
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events;								N/A(1)
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								^
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								٨
	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Ag	n	ended & Main	Implementation Agent	Relevant Standard or Requirement				Status
						D	С	0			
\$4.2.1.1 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 on- site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license		All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)		
S4.2.1.1	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	Implementation 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								^ N/A(1)
	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;								
	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			nplementation Stages	
						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 disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
\$4.2.1.1	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:	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;								
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								۸
	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.								۸
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n 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		led Agent Main	Relevant Standard or Requirement				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	Visual								
\$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		۸
\$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	• 0 I	d	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)
S7.2.1.2	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						-		
\$8.2.1.1 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	r Requirement		n Stages	Status
						D	С	0	
Waste Managem	nent 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.		All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
\$9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: • Waste management policy; • Record of generated waste; • Waste reduction target; • Waste reduction programme; • Role and responsibility of waste management team; • Benefit of waste management; • Analysis of waste materials; • Reuse, recycling and disposal plans; • Transportation process of waste products; and • Monitoring and action plan.	materials 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)		All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.		Objectives of the Recommended Measures & Main Concern to Address		Recommended easures & Main	g Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	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.		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.	*	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	and disposal of C&D	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		٨	

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	
89.2.1.2	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		۸
\$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		۸
\$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		۸
\$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 Location/Timing Implementation Relevant Standard Implementation Standard Measures & Main Concern to Address Concern to Address <th colspan="2">-</th> <th>-</th> <th>n Stages</th> <th>Status</th>				-		-	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	g Implementation Relevant Standar Agent or Requirement		Impler	nentatio	n Stages	Status
						D	C	0	
\$9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	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		*

EM&A Ref.	Recommended Mitigation Measures			Relevant Standard or Requirement	Impler	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		٨
\$9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		۸
\$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	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	•	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	0	n	Location/Timing		1	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	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		To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^				

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

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

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

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

Reporting Month: February 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

Appendix M – Summary of Exceedance

Reporting Month: February 2021

(A) Exceedance Report for Air Quality

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

Monitoring Station	Start Date	Conc. (µg/m ³)	Level exceeded
KTD 2c	01 Feb 2021	183.6	Action Level

The investigation results for the exceedance are attached as below.

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

No Action Level exceedance was recorded in this reporting month.

Limit Level for Construction Noise

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)

- Notification of Exceedances

NOE No. 210201_24hrTSP (KTD2c) Exceedance Level: Action

Date of Air Quality Monitoring: 01 February 2021

Part A – Exceedance Summary Tables

Table I:Parameter(s) - 24-hour TSP

Station	Location	Starting Time	Weather Condition	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Level exceeded
K I I J/C	G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station	09:00	Sunny	183.6	157.0	260.0	Action

 Note:
 Bold Italic means Action Level exceedance

 Bold Italic with underline
 means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

(a)	Statement of exceedance(s)
	24-hour TSP monitoring measured at KTD2c on 01 February 2021 exceeded the action level.
(b)	Cause of exceedance(s)
(-)	According to the observation of our field staff, the major dust source(s) and/or reason(s) for exceedance identified at KTD2c is/are as follow:
	1. Several spoil heaps were identified around the monitoring station. (See Photo 1, 2 and 3)
	 Several spon heaps were identified around the monitoring station. (see 1 hoto 1, 2 and 3) Road Traffic along the Kwun Tong Bypass
	3. It was observed that paved roads were watered. (See Photo 5)
	4. Piling work was carried out near the monitoring station KTD2c. (approximately 5m) (See Photo 4)
	5. Handling of C&D material was carried out near the monitoring station. (approximately 5m) (See Photo 2 and 3)

- Notification of Exceedances

Photo Record (Photo Taken by ET)



- Notification of Exceedances

Part C – Conclusion

Based on the finding(s) and observation(s) above, we deduce the action Level exceedance of 24-hour TSP recorded at station KTD2c on 01 February 2021 is due to the insufficiency of dust reduction measure. Also, the construction activities were conducted very close to the HVS. Therefore, the exceedance is considered as project related

Part D – Recommendation

The following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

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

Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-451/2013, the follow-up action of this exceedance is/are taken by ET as follow:

- 1. Informed the other parties (i.e. IEC and ER) once the action level exceedance was recorded.
- 2. As several exceedances of 24-hour TSP monitoring were recorded consecutively, ET was aware of this issue and carried out the further investigation. After the investigation, ET found that the present environmental monitoring at KTD2c cannot accurately represent how the sensitive receivers (SR) are being affected by the construction activities, as the SR (Future Hospital at Site 3C1) is still under construction. Hence, ET was proposed to IEC to have a relocation of monitoring station, and informed this matter to ER.
- 3. An additional air quality monitoring was carried out on 4 March 2021, and no action and limit level exceedance was recorded. The monitoring results is tabulated as below:

Location K7	D2c - G/I	C Zone next to	Kwun Tong B	ypass (Next to the Kowloon Bay Sewage Interception Station)
Date	Time	Weather	Parameter	Particulate Concentration (µg/m3)
	09:23	Light drizzle		158.4
04-Mar-21	10:23	drizzle Light drizzle	1hr TSP	182.6
	11:23	Light drizzle		204.6

4. The remedial measures proposed by the contractor was reviewed during site audit and ET has no adverse comments on the proposed remedial measures. The photo records provided by contractor are shown as below:

- Notification of Exceedances

Photo Record (Provided by Contractor)



APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020 December	lonuoru		i	202 Marc		1	Apri	1		Appendix A		
							29 06	13 20 27	January 03 10 17 24	31 07	bruary 14 21	28		21 A	28 04	Apri 11	18 2	5 02	4vitay 09 16	23 0
WORKS PROGRAMME (01V3)	672	02-Mar-20	11-Jun-22	271	02-Oct-20 A	01-Sep-21														
DESIGN SUBMISSION & APPROVAL	672	02-Mar-20	11-Jun-22	243	03-Oct-20 A	30-Jul-21														
GENERAL	340	02-Mar-20	27-Apr-21	206	06-Oct-20 A	18-Jun-21						·	÷		·		······	GENERAL		
Design Memorandum	0	02-Mar-20	02-Mar-20	156	13-Oct-20 A	24-Apr-21														
Design Memorandum - 4th Sub	0			71	13-Oct-20 A	07-Jan-21 A	·	·····	Design Memorandum - 4t											
Design Memorandum - 4th Review	0			5	08-Jan-21 A	13-Jan-21 A			Design Memorand	um - 4th Review										
Design Memorandum - 5th Sub	0			5	14-Jan-21 A	19-Jan-21 A			Design Mer											
Design Memorandum - 5th Review	0			23	20-Jan-21 A	18-Feb-21 A					Design N		um - 5th Re							
Design Memorandum - 5th Sub	0			24	19-Feb-21 A	18-Mar-21						r- -	 	Design M	emorandum	- 5th Sub				
Design Memorandum - 5th Review	0			28	19-Mar-21	24-Apr-21								j	·		De	sign Memoran	dum - 5th Rev	<i>r</i> iew
Design Memorandum - Approval	0		02-Mar-20	0		24-Apr-21					· · · · · · · · · · · · · · · · · · ·						🔶 De	sign Memoran	dum - Approva	al
Ground Investigation Report - Kai Tak Area	70	28-Jul-20	19-Oct-20	75	20-Jan-21 A	24-Apr-21														
Ground Investigation Report Vol 1 - Resubmission	48	28-Jul-20	21-Sep-20	55	20-Jan-21 A	27-Mar-21					· · · ·		 1	····;······,	Ground Inve	estigation F	Report Val 1 -	Resubmission		
Ground Investigation Report Vol 1 - 2nd Sub	0		21-Sep-20	0		27-Mar-21								•	Ground Inve	estigation F	Report Val 1 -	2nd Sub		
Ground Investigation Report Vol 1 - 2nd Sub Review	28	22-Sep-20	19-Oct-20	28	28-Mar-21	24-Apr-21									· + +		G	ound Investiga	tion Report Vc	ul 1 - 2nd S
Ground Investigation Report Vol 1 - Approval	0		19-Oct-20	0		24-Apr-21											🔶 G	ound Investiga	tion Report Vo	ul 1 - Appro
Ground Investigation Report - Tunnel	47	19-Oct-20	14-Dec-20	71	15-Jan-21 A	15-Apr-21		Ground Investigat	on Report - Tunnel											
Ground Investigation Report Vol 2 - 1st Sub	0		19-Oct-20	0		15-Jan-21 A			♦ Ground Investiga											
Ground Investigation Report Vol 2 - Review 1st Sub	28	20-Oct-20	16-Nov-20	62	16-Jan-21 A	18-Mar-21	1				· · · ·	è-	i				2 - Review 1s	Sub		
Ground Investigation Report Vol 2 - 2nd Sub	0		16-Nov-20	0		18-Mar-21								• Ground In	nvestigation F	Report Vol	2 - 2nd Sub			
Ground Investigation Report Vol 2 - Review 2nd Sub	28	17-Nov-20	14-Dec-20	28	19-Mar-21	15-Apr-21		⊐							·		Ground Invest	tigation Report	. Vol 2 - Revie	w 2nd Sub
Ground Investigation Report Vol 2 - Approval	0		14-Dec-20	0		15-Apr-21		♦								•	Ground Invest	tigation Report	، Vol 2 - Appro	wal
Construction Traffic Impact Assessment - Kai Tak Area	0	10-Jun-20	10-Jun-20	151	06-Oct-20 A	12-Apr-21														
CTIA Kai Tak Area - Resubmission	0			38	06-Oct-20 A	19-Nov-20 A	ak Area - Resu	bmission												
CTIA Kai Tak Area - 3rd Sub	0			0		19-Nov-20 A	ak Area - 3rd S	Sub												
CTIA Kai Tak Area - 3rd Review	0			22	20-Nov-20 A	11-Dec-20 A		CTIA Kai Tak Area - 3	rd Review											
CTIA Kai Tak Area - Resubmission	0			33	12-Dec-20 A	22-Jan-21 A				a Tak Area - Re										
CTIA Kai Tak Area - 4th Sub	0			0		22-Jan-21 A				a Tak Area - 4th	Sub									
CTIA Kai Tak Area - 4th Review	0			20	23-Jan-21 A	11-Feb-21 A	1				CTIA Kai Tak Are	a - 4th Re	view							
CTIA Kai Tak Area - Resubmission	0			24	12-Feb-21 A	15-Mar-21	1				· · · · · · · · · · · · · · · · · · ·			CTIA Kai Tal	Area - Resu	bmission				
CTIA Kai Tak Area - 5th Sub	0			0		15-Mar-21	1							CTIA Kai Tal						
CTIA Kai Tak Area - 5th Review	0			28	16-Mar-21	12-Apr-21							[· +	СТ	IA Kai Tak Ar	ea - 5th Review		
CTIA Kai Tak Area - Approval	0		10-Jun-20	0		12-Apr-21			· - · · · · · · · · · · · · · · · · · ·		;ii					◆ CT	IA Kai Tak Ar	ea Approval	;	
Durability Assessment Report	0	07-May-20	07-May-20	118	13-Oct-20 A	06-Mar-21														
Durability Assessment Report - Resubmission	0			81	13-Oct-20 A	19-Jan-21 A	·i		Durability A	ssessment Repo	ort - Resubmissio									
Durability Assessment Report - 5th Sub	0			0		19-Jan-21 A			Durability A	ssessment Repo	ort - 5th Sub									
Durability Assessment Report - 5th Review	0			37	20-Jan-21 A	06-Mar-21					;i			AssessmentF		Review				
Durability Assessment Report - Approval	0		07-May-20	0		06-Mar-21								AssessmentF		oval				
ACABAS - Western Tunnel Portal and Concrete Finishes for	50	10-Aug-20	08-Oct-20	91	16-Dec-20 A	12-Apr-21	etaining Struc	ture	· · · · · · · · · · · · · · · · · · ·											
DDA - Further information required by SO	22	10-Aug-20	03-Sep-20	65	16-Dec-20 A	08-Mar-21			· · · · · · · · · · · · · · · · · · ·		;i		DDA - F	urther informa	ation required	l by SO				
DDA - 2nd Sub	0		03-Sep-20	0		08-Mar-21					;ii		DDA - 2							
DDA - 2nd Review by SO	35	04-Sep-20	08-Oct-20	35	09-Mar-21	12-Apr-21			· · · · · · · · · · · · · · · · · · ·		;ii		÷		·	DD	A - 2nd Revie	w by SO	;;	
DDA - SO Consent for Construction	0		08-Oct-20	0		12-Apr-21										♦ DD	A-SOCionse	nt for Construc	tion.	
ACABAS- Footbridge FB-02	48	09-Oct-20	04-Dec-20	48	13-Apr-21	09-Jun-21		S-Footbridge FB-02												
DDA - Draft - Preparation by Designer	48	09-Oct-20	04-Dec-20	48	13-Apr-21	09-Jun-21														
CLP Substation - Building Services and Underground Utiliti	0	01-Jun-20	01-Jun-20	118	13-Oct-20 A	06-Mar-21														
DDA - Further information required by SO	0			24	13-Oct-20 A	10-Nov-20 A	tion required b	y SO												
DDA - 4th Sub	0			0		10-Nov-20 A														
DDA - 4th Review by SO	0			94	11-Nov-20 A	06-Mar-21	+		+ - +	4	·		DDA - 4th	Review by St	C					
			1			1	- <u>L'</u>			1 !	: ! !				!		: !	!		·

Page 1 of 27 Data Date: 28-Feb-21 Milestone
 Milestone
 Planned Bar
 Critical Activity

ctual Milestone ctual Work aseline Milestone

Baseline Bar

Summary

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



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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020		2021					
			4 /	1 /	1	1	December January 29 06 13 20 27 03 10 17 20	February 24 31 07 14 21	March 28 07 14 21		April 11 18	25 02	May 09 16	23
DDA - SO Consent for Construction	0		01-Jun-20	0	++	06-Mar-21			DDA - SO Consent for			20 02	07 10	23
CLP Substation - ABWF	0		19-Jun-20	0	06-Mar-21	06-Mar-21								1 1 1
DDA - SO Consent for Construction	0		19-Jun-20	0		06-Mar-21	4		DDA - SO Consent for	Jr Construction			·····	+'
DDA Project Alignment	0			-										- 1
DDA - Further information required by SO	0						A DDA - Further information required by SO							¦'
DDA - 3rd Sub	0			0		11-Dec-20 A						· · · · · · · · · · · · · · · · · · ·		- <u>-</u>
DDA - 3rd Sdb DDA - 3rd Review by SO	0			35			DDA - 3rd F	Review by SO						•
DDA - Sid Review by SO DDA - Further information required by SO	0			11				DDA - Further information requir	ired by SO			·i		
DDA - Futther information required by SO	0			0		28-Jan-21 A		DDA - 4th Sub						
DDA - 4th Sub DDA - 4th Review by SO	0			-			+		DDA - 4th Review by S	, so				
DDA - 411 Review by SO DDA - SO Consent for Construction	0		20-May-20			06-Mar-21	+							
AIP Roadworks and Street Furniture	84		20-May-20 21-Nov-20	93			tworks and Street Furniture						·	
AIP ROADWORKS and Street Furniture AIP - Draft - Final Review and prepare for 1st Sub	18	3		93 6									·	
AIP - Draft - Final Review and prepare for 1st Sub AIP - 1st Sub	0	0	· · ·	-		18-Nov-20 A 18-Nov-20 A							·	
			02-Sep-20				· · · · · · · · · · · · · · · · · · ·						·	
AIP - Review by SO	28	· ·	30-Sep-20	21		09-Dec-20 A		AIP - Review by IP / DC						
AIP - Review by IP / DC	28	· ·	30-Sep-20	_				AIP - Review by IP / DC AIP - Further information required by S(i		
AIP - Further information required by SO	24		24-Oct-20	45					SO					
AIP - 2nd Sub	0		24-Oct-20	0		23-Jan-21 A		AIP - 2nd Sub						
AIP - 2nd Review by SO	28		21-Nov-20						AIP - 2nd Review by SC AIP - \$0 Consent for D			!		, _
AIP - SO Consent for DDA Submission	0		21-Nov-20			06-Mar-21				JDA Submission	·····			· -
DDA Roadworks and Street Furniture	75		24-Feb-21	77	oo mar Er	11-Jun-21				.ure	····-			·
DDA - Draft - Preparation by Designer	36		06-Jan-21	36		22-Apr-21						JA - Draft - Pren		
DDA - Draft - Final Review and prepare for 1st Sub	18		27-Jan-21	18	F	14-May-21								- Draft - Fi
DDA - 1st Sub	0		27-Jan-21	0		14-May-21		♦					◆ DDA - 1	ist Sub
DDA - Review by SO	28		24-Feb-21	28	,	11-Jun-21								
DDA - Review by IP / DC	28		24-Feb-21	28	,	11-Jun-21								
AIP Traffic Sign, Road Marking & Sign Gantry	20	24-Mar-21	21-Apr-21	94	12-Oct-20 A		\		▼		▼ AIP		Road Marking & S	
AIP - 2nd Sub	0		24-Mar-21	0		12-Oct-20 A				AIP - 2nd Sub				
AIP - 2nd Review by SO	28	25-Mar-21	21-Apr-21	49	13-Oct-20 A	30-Nov-20 A				····;····;····;····;····;	AiP	IP - 2nd Review b	/by SO ¦	1
AIP - Further information required by SO	0		1	18	01-Dec-20 A	21-Dec-20 A	A AIP - Further information required by SO)						
AIP - 2nd Sub	0		1	0	Ţ	21-Dec-20 A	A AIP - 2nd Sub							 !
AIP - 2nd Review by SO	0		,	44	22-Dec-20 A	03-Feb-21 A		AIP - 2nd Review by SO						 ! !
AIP - SO Consent for DDA Submission	0		21-Apr-21	0	+	03-Feb-21 A	,†	•			♦ AJF	- SO Consent	it for DDA Submis	ssion
AIP Street Lighting (AGR/ DPR/ S20/ L10/ L18)	23	23-Oct-20	20-Nov-20	10	15-Oct-20 A	28-Oct-20 A	Lighting (AGR/ DPR/ S20/ L10/ L18)							; ;
AIP - 2nd Sub	0		23-Oct-20	0		15-Oct-20 A								÷
AIP - 2nd Review by SO	28		20-Nov-20						· · · · · · · · · · · · · · · · · · ·					
AIP - SO Consent for DDA Submission	0		20-Nov-20						· · · · · · · · · · · · · · · · · · ·					1 1 1
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	38		27-Apr-21									TDA Stree	et Lighting (AGR/	J DPR/S
DDA - Further information required by SO	12		23-Mar-21	75		·				DDA - Further information				+ + + +
DDA - 2nd Sub	0		23-Mar-21	0		20-Jan-21 A	· · · · · · · · · · · · · · · · · · ·		DI 🔷	DDA - 2nd Sub				÷
DDA - 2nd Review by SO	35		27-Apr-21	19							· · ·	🔲 DDA - 2nd 🗟	Review by SO	
DDA - Further information required by SO	0		<u> </u>				+			nformation required by S				
DDA - 2nd Sub	0			0		10-Mar-21	+							· 1
DDA - 2nd Sdb DDA - 2nd Review by SO	0			35		14-Apr-21	+					Review by SO		
DDA - 210 Review by SO DDA - SO Consent for DDA Submission	0		27-Apr-21	0		14-Apr-21	+						Consent for DDA	14 Subm
AIP Structural Health Monitoring System (SHMS)	71		27-Apr-21 22-Dec-20	134		· · · · · · · · · · · · · · · · · · ·	✓ AIP Structural Health Monitoring System	т (SMIA)						
AIP Structural nearth Monitoring System (Snivis)	12			77		· · · · · · · · · · · · · · · · · · ·		P - Draft - Final Review, and prepare for	for thet Sub				·	
AIP - Drait - Final Review and prepare for 1st Sub	0	· ·	13-Oct-20	0		21-Jan-21 A 21-Jan-21 A		 Dialit - Final Review, and prepare for 1st \$ub 						$-\frac{1}{1}$
AIP - IST SUD AIP - Review by SO	28		13-Oct-20 10-Nov-20	15				AIP - Review by SO	-				·	- +
								AIP - Review by SO					·	
AIP - Review by IP / DC	28	14-Oct-20	10-Nov-20	19	22-Jan-21 A	09-Fed-ZIA								
Page 2 of 27 Milestone	Summary	ııy	1							Date	Revision	-	d Apr	prove
Data Date: 28-Feb-21		J	FD/2	2011	₽/∩ <u>4</u> T [,]	runk F	Road T2 and Infrastructure V	Marke		\	00V0	WYu		
				_U I 1						18-Dec-19	00\/1	WYu	1	

Actual Milestone Actual Work aseline Milestone C Baseline Bar

Three Months Rolling Programme (Feb-21)

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

BOUYGUES TRAVAUX PUBLICS

00V1

01V0

01V1

01V2

01V3

18-Dec-19

22-Feb-20

09-Apr-20

17-Jul-20

09-Oct-20

WYu

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020						2021				
							December 29 06 13 20 27	Janu 03 10		4 21	February 07 14	21	March	April 28 04 11 18	25 02 09	May 9 16 1	22 0
AIP - Further information required by SO	12	11-Nov-20	24-Nov-20	19	10-Feb-21 A	06-Mar-21		03 10	17 24		07 14	21	AIP - Further information re	equired by SQ	25 02 09	10	23 0
AIP - 2nd Sub	0	1	24-Nov-20			06-Mar-21							AIP - 2nd Sub				
AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	07-Mar-21	03-Apr-21				·			·····	AIP - 2nd Review by SC	5	$\begin{array}{c} - & - & - & - & - & - & - & \frac{1}{T} \\ & & & & & 1 \\ & & & & & 1 \\ & & & & &$	
AIP - SO Consent for DDA Submission	0	1	22-Dec-20			07-Apr-21				·						$\begin{array}{c} - & - & - & - & - & - & - & \frac{1}{T} \\ & & & & & 1 \\ & & & & & 1 \\ & & & & &$	
DDA Structural Health Monitoring System (SHMS)	60	23-Dec-20	09-Mar-21	60	07-Apr-21	18-Jun-21		· · · · · ·		·			DDA Structural Health	Monitoring System (SHMS)			
DDA - Draft - Preparation by Designer	36	23-Dec-20	05-Feb-21	36	07-Apr-21	20-May-21		·····		·							JDA - Dra
DDA - Draft - Final Review and prepare for 1st Sub	24	06-Feb-21	09-Mar-21	24	21-May-21	18-Jun-21								+			
AIP Landscape Design	69	29-Aug-20	20-Nov-20	92	14-Dec-20 A	10-Apr-21	cape Design										
AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20					- Draft - Final R	eview and pr	enare for 1s	st Sub						
All - Dial - That Review and prepare for 1st Sub	0	27710920	11-Sep-20			29-Dec-20 A		- 1st Sub									
AIP - Review by SO	28	12-Sep-20	09-Oct-20	31				131 0 40	· · · · · · · · · · · · · · · · · · ·		Review by SO						
AIP - Review by P / DC	28	12-Sep-20	09-Oct-20	67	30-Dec-20 A	06-Mar-21							AIP - Review by IP / DC				
AIP - Further information required by SO	12	12-3cp-20	23-Oct-20	34	30-Jan-21 A	13-Mar-21		· · · · · · · · · · · · · · · · · · ·					AIP - Further infor	mation required by SO			
AIP - 2nd Sub	0		23-Oct-20	0	JU-Juli Z I M	13-Mar-21							AIP - 2nd Sub				
AIP - 2nd Sub AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	14-Mar-21	10-Apr-21							✓ All - Zilu Sub;	AIP - 2nd Revie			
AIP - 20 Review by SO AIP - SO Consent for Construction	20	24-001-20	20-Nov-20 20-Nov-20		14-11/101-21	10-Apr-21							· · · · · · · · · · · · · · · · · · ·		ent for Construction		
DDA Landscape Design	42	21-Nov-20		42	12 Apr 21				A Landscape	Dacian			· · · · · · · · · · · · · · · · · · ·				
			12-Jan-21		12-Apr-21	01-Jun-21		▼ ∪∟	A Lanuscape				· · · · · · · · · · · · · · · · · · ·		<u></u>	<u></u>	
DDA - Draft - Preparation by Designer MISC. TEMP WORKS	42	21-Nov-20	12-Jan-21	42	12-Apr-21	01-Jun-21											
	50	08-May-20	08-Jul-20	83		12-Jan-21 A											
Temporary works and Dewatering Measures for Excavatic		08-May-20	08-May-20		05-Oct-20 A		·····			·							
DDA - SO Consent for Construction	0	'	08-May-20			05-Oct-20 A					·						
Seawall checkings for temporary cases (Loading / Unloadi	_	08-Jul-20	08-Jul-20	83		12-Jan-21 A									·		
DDA - Further information required by SO	0	· · · · · · · · · · · · · · · · · · ·	′	24	03-Oct-20 A		l by SO				·			· · · · · · · · · · · · · · · · · · ·			
DDA - 4th Sub	0	· · · · · · · · · · · · · · · · · · ·		0		31-Oct-20 A			· · · · · · · · · · · · · · · · · · ·								
DDA - 4th Review by SO	0	'	/	15	02-Nov-20 A												
DDA - Further information required by SO	0	/		5	19-Nov-20 A	24-Nov-20 A											
DDA - 5th Sub	0	/		0		24-Nov-20 A	5th \$ub	······			······					·····	
DDA - 5th Review by SO	0	· · · · · · · · · · · · · · · · · · ·	,	39	25-Nov-20 A	12-Jan-21 A			A - 5th Revie								
DDA - SO Consent for Construction	0		08-Jul-20	0		12-Jan-21 A		; 🔶 DE)A - SO Cons	ent for Con	struction						
DEPRESSED ROAD [DPR]	163	29-Jul-20	16-Feb-21	184	08-Oct-20 A	25-May-21				····i+·····	▼ [DEPRESSED					
DDA DPR - Horizontal Element + Pump Test + DCRA	0	29-Jul-20	29-Jul-20	103	08-Oct-20 A	09-Feb-21 A											
DDA - Further information required by SO	0		1	22	08-Oct-20 A	03-Nov-20 A	ired by SO										
DDA - 3rd Sub	0	′	1	0		03-Nov-20 A											
DDA - 3rd Review by SO	0	/		23	04-Nov-20 A	26-Nov-20 A	A - 3rd Review by SO	·····									
DDA - Further information required by SO	0	/	'	19	26-Nov-20 A		DDA - Further info	rmation require	d by SO						·		
DDA - 4th Sub	0			0		17-Dec-20 A	DDA - 4th Sub	·····		· 							
DDA - 4th Review by SO	0	1		54	18-Dec-20 A						DDA - 4t	h Review by	SO S				
DDA - SO Consent for Construction	0	· ['	29-Jul-20	0		09-Feb-21 A							r Construction				
DDA DPR - Permanent Structure	42	21-Oct-20	09-Dec-20	105			DDA DPR - Permanent Stru	icture									
DDA - Further information required by SO	12		04-Nov-20				DDA - Further information	required by SC							·		·
DDA - 2nd Sub	0	+	04-Nov-20			11-Dec-20 A	◆ DDA - 2nd Sub										· · · · · · · · · · · · · · · · · · ·
DDA - 2nd Review by SO	35	05-Nov-20			12-Dec-20 A		· · · · · · · · · · · · · · · · · · ·	DA - 2nd Revie	w hv SO		1						·
DDA - Further information required by SO	0			34	02-Jan-21 A						DDA - F	urther inform	nation required by SO				·
DDA - 3rd Sub	0		'	0		10-Feb-21 A					DDA - 1						
DDA - 2nd Review by SO	0	'	'	29	11-Feb-21 A								DDA - 2nd Review b				·
DDA - 21d Review by SO DDA - SO Consent for Construction	0		09-Dec-20			11-Mar-21							◆ DDA - SO Consent f	or Canstruction			
DDA DPR - Portal Structure	116	22 Son 20	16-Feb-21		24 Doc 20 A	25-May-21			 	. <u> </u>			ortal Structure			$\frac{1}{1}$	
	_	· ·				-				A Droft [
DDA - Draft - Preparation by Designer	30	23-Sep-20	30-Oct-20	24	24-Dec-20 A		·····				Preparation by I			d and for 1 of Sub			
DDA - Draft - Final Review and prepare for 1st Sub	24	31-Oct-20	27-Nov-20		25-Jan-21 A	06-Mar-21		·····			·		DDA - Draft - Final Review	and prepare for ist sub	,		;{
DDA - 1st Sub	0	I	27-Nov-20	0		06-Mar-21							DDA - 1st Sub				
Page 3 of 27 Milestone	Summary	у	1											Date Revision	n Checked	Appro	oved

Page 3 of 27 Data Date: 28-Feb-21 ilestone V

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

icalActivity

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

BOUYGUES

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

Activ	ity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020		-				2021							
								29 06	December 13 20	27	January 03 10 17 24	Fe 31 07	bruary 14 21	28 07	March 14 21	28	04	April 11	18	25 0	M 02 09	ay 16 23 0
	DDA - Review by SO	28	28-Nov-20	25-Dec-20	28	07-Mar-21	03-Apr-21	27 00	13 20	21	03 10 17 24						DDA - R		-	23 0	12 07	
	DDA - Review by IP / DC	28	28-Nov-20	25-Dec-20	28	07-Mar-21	03-Apr-21	·						¦	· ¦			Review b	y IP / DC	·		
	DDA - Further information required by SO	12	28-Dec-20	11-Jan-21	12	07-Apr-21	20-Apr-21								· 							quired by SO
	DDA - 2nd Sub	0		11-Jan-21	0	•	20-Apr-21								· 				🔶 DDA -	- 2nd Sub		
	DDA - 2nd Review by SO	35	12-Jan-21	15-Feb-21	35	21-Apr-21	25-May-21						¦¦ ┯━ ¦	¦	· 1					·		DDA
	DDA - SO Consent for Construction	0		16-Feb-21	0		25-May-21						♦	¦	· 1					·		◆ DDA
	WEST VENTILATION BUILDING [WVB]	289	15-Jul-20	07-Jul-21	213	06-Oct-20 A	26-Jun-21		 		······································		· · ·	{ <mark>-</mark>	· 	+-				·		
	AIP WVB - ELS Design & PCRA	0	29-Aug-20	29-Aug-20	16	17-Oct-20 A	05-Nov-20 A							{	· +							
	AIP - Further information required by SO	0	-		4	17-Oct-20 A	21-Oct-20 A							\-	· †							
	AIP - 3rd Sub	0			0		21-Oct-20 A								+							
	AIP - 3rd Review by SO	0			15	22-Oct-20 A	05-Nov-20 A								+							
	AIP - SO Consent for DDA Submission	0		29-Aug-20	0		05-Nov-20 A	iubmission							+							
	AIP WVB - Permanent Structure	0	15-Jul-20	15-Jul-20	0	05-Nov-20 A	05-Nov-20 A								· †							
	AIP - SO Consent for DDA Submission	0		15-Jul-20	0		05-Nov-20 A	iubmission							· ;							
	DDA WVB - ELS Design (DC RA + Dewatering & Pumping T	54	28-Sep-20	02-Dec-20	97	07-Nov-20 A	06-Mar-21	🔻 DDA WVE	3 - ELS Design (DCRA	+ Dewatering & Pumping Test)				· ;					·		
	DDA - Further information required by SO	24	28-Sep-20	28-Oct-20	1	07-Nov-20 A	07-Nov-20 A	required by S	0						· ;					·		
	DDA - 2nd Sub	0		28-Oct-20	0		07-Nov-20 A													·		
	DDA - 2nd Review by SO	35	29-Oct-20	02-Dec-20	9	09-Nov-20 A	17-Nov-20 A		Review by SO											····		
	DDA - Further information required by SO	0			33	18-Nov-20 A	28-Dec-20 A			D	DA - Further information required by	S0								· · · · · · · · · · · · · · · · · · ·		
	DDA - 3rd Sub	0			0		28-Dec-20 A			🔷 D	DA - 3rd Sub											
	DDA - 3rd Review by SO	0			68	29-Dec-20 A	06-Mar-21							DDA	3rd Review by	SO						
	DDA - SO Consent for Construction	0		02-Dec-20	0		06-Mar-21	◇						🔶 DDA	SO Consent for	Construct	on					
	DDA WVB - Accommodation (SoA)	104	16-Sep-20	21-Jan-21	140	06-Oct-20 A	25-Mar-21	:			V DDA WV	3 - Accommoda	tion (SoA)									
	DDA - Draft - Final Review and prepare for 1st Sub	24	16-Sep-20	15-Oct-20	18	06-Oct-20 A	27-Oct-20 A	for 1st Sub														
	DDA - Review by SO	28	16-Oct-20	12-Nov-20	62	28-Oct-20 A	29-Dec-20 A				DDA - Review by SO			· · · · · · · · · · · · · · · · · · ·	· •							
	DDA - 1st Sub	0		15-Oct-20	0		28-Oct-20 A	T														
	DDA - Review by IP / DC	28	16-Oct-20	12-Nov-20	126	28-Oct-20 A	03-Mar-21							DDA - Re	eview by IP / DC							
	DDA - Further information required by SO	30	13-Nov-20	17-Dec-20	40	30-Dec-20 A	18-Feb-21 A						DDA - Fi	ther informatio	n required by SC)						
	DDA - 2nd Sub	0		17-Dec-20	0		18-Feb-21 A		◇				DDA - 21	n <mark>d</mark> Sub								
	DDA - 2nd Review by SO	35	18-Dec-20	21-Jan-21	35	19-Feb-21 A	25-Mar-21									DDA - 2nd						
	DDA - SO Consent for Construction	0		21-Jan-21	0		25-Mar-21				♦				•	DDA - SO	Conseint	t for Cor	nstruction			
	DDA WVB - Permanent Structure	137	16-Oct-20	07-Apr-21	160	02-Nov-20 A	20-May-21		 						· <u>+</u>		🔫 DD/	AWVB	- Permane	nt Structu	ire	
	DDA - Draft - Preparation by Designer	45	16-Oct-20	08-Dec-20	44	02-Nov-20 A	22-Dec-20 A		DI	DA - Di	aft - Preparation by Designer									}		
	DDA - Draft - Final Review and prepare for 1st Sub	12	09-Dec-20	22-Dec-20	33	23-Dec-20 A	02-Feb-21 A					DDA - Drat	ft - Final Review a	and prepare for $$	1st Sub							
	DDA - 1st Sub	0		22-Dec-20	0		02-Feb-21 A					🔷 DDA - 1st :	Sub							}		
	DDA - Review by SO	28	23-Dec-20	19-Jan-21	32	03-Feb-21 A	06-Mar-21			1				DDA -	Review by SO							
	DDA - Review by IP / DC	28	23-Dec-20	19-Jan-21	32	03-Feb-21 A	06-Mar-21						· · · · · · · · · · · · · · · · · · ·	DDA	Review by IP / I	DC				<u> </u>		
	DDA - Further information required by SO	30	20-Jan-21	26-Feb-21	30	08-Mar-21	15-Apr-21								······		i	— þ	DA - Furth			d by SO
	DDA - 2nd Sub	0		26-Feb-21	0		15-Apr-21	I			······································							♦ Þ)DA - 2m/d \$	Sub		
	DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	35	16-Apr-21	20-May-21	I							· · · · · · · · · · · · · · · · · · ·							DDA - 2nc
	DDA - SO Consent for Construction	0		07-Apr-21	0		20-May-21	_									◇					DDA - SO
	DDA WVB - ABWF	89	23-Dec-20	16-Apr-21	92	01-Mar-21	23-Jun-21	.	▼				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				DDA WVB			
	DDA - Draft - Preparation by Designer	45	23-Dec-20	19-Feb-21	45	01-Mar-21	26-Apr-21	1			· · · · · · · · · · · · · · · · · · ·											ation by Designer
	DDA - Draft - Final Review and prepare for 1st Sub	24	20-Feb-21	19-Mar-21	24	27-Apr-21	26-May-21	ļ					¦		; {		·					DD
	DDA - 1st Sub	0		19-Mar-21	0		26-May-21	ļ;									·		·····	· · · · · · · · · · · · · · · · · · ·		◆ D/D
	DDA - Review by SO	28	20-Mar-21	16-Apr-21	28	27-May-21	23-Jun-21						¦		· · · · · · · · · · · · · · · · · · ·		·			····		¦
	DDA - Review by IP / DC	28	20-Mar-21	16-Apr-21	28	27-May-21	23-Jun-21						¦		· · · · · · · · · · · · · · · · · · ·	<u></u>				·		
	DDA WVB - General Building Plan	102	02-Mar-21	07-Jul-21	140	06-Oct-20 A	25-Mar-21	·····					¦		· · · · · · · · · · · · · · · · · · ·							
	DDA - Draft - Final Review and prepare for 1st Sub	24	02-Mar-21	29-Mar-21	18	06-Oct-20 A	27-Oct-20 A			¦			¦		· · · · · · · · · · · · · · · · · · ·				eview and p		or 1st Sub	
	DDA - 1st Sub	0		29-Mar-21	0		27-Oct-20 A			1						DDA	- 1st Sub)				
	Page 4 of 27 Milestone	Summary														D	ate	R	evision	Ch	necked	Approved
	Data Date: 28-Feb-21	,		ED/2	019		runk P	T hen	Dre C	Inf	frastructure Wo	nrke				05-Nov		00V0		WYu		
	CriticalAdivity				.010										5	18-Dec		00V1		WYu		
	Actual Milestone					for D)evelo	pmen	ts at S	out	th Apron					22-Feb		01V0		SPa/L		WYu
	♦ Actual Work							•			·					09-Apr		01V1		SPa/L		WYu
	Baseline Bar				Thr	ee Mo	onths F	Rollinc	I Proar	an	nme (Feb-21)					17-Jul- 09-Oct		01V2 01V3		SPa/L SPa/L		WYu WYu
																09-00	-20	0103	,	Jora/L		vviu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							December January February March April May 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23
DDA - Review by SO	28	30-Mar-21	26-Apr-21	63	28-Oct-20 A	29-Dec-20 A	A DDA - Review by SQ
DDA - Review by IP / DC	28	30-Mar-21	26-Apr-21	127		03-Mar-21	
DDA - Further information required by SO	30	27-Apr-21	02-Jun-21	40	30-Dec-20 A	18-Feb-21 A	
DDA - 2nd Sub	0	r	02-Jun-21	0		18-Feb-21 A	
DDA - 2nd Review by SO	35	03-Jun-21	07-Jul-21	35	19-Feb-21 A	25-Mar-21	
DDA - SO Consent for Construction	0	00 301121	07-Jul-21	0	171002171	25-Mar-21	
DDA WVB - Aesthetic Design	95	16-Jul-20	06-Nov-20	95	01-Mar-21	26-Jun-21	
DDA - Draft - Preparation by Designer	48	16-Jul-20	09-Sep-20	48	01-Mar-21	29-Apr-21	DDA - Draft - Preparation, by Des
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	24	30-Apr-21	29-May-21	
DDA - Drate - mail Review and prepare for 1st Sub	0	10-366-20	09-Oct-20	0	30-Api-21	29-May-21	
DDA - Review by SO	28	10-Oct-20	04-0ct-20 06-Nov-20	28	30-May-21	26-Jun-21	
DDA - Review by SO DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	28	30-May-21	26-Jun-21	
SOUTH APRONADIT	132	07-Oct-20	18-Mar-21	167	16-Oct-20 A	13-May-21	▼ SOUTH APRON ADIT
	0			167	17-Oct-20 A		
AIP South Apron Adit - ELS & PCRA	0	09-Oct-20	09-Oct-20	10		05-Nov-20 A	
AIP - Further information required by SO	0			4	17-Oct-20 A		
AIP - 3rd Sub	0			0		21-Oct-20 A	
AIP - 3rd Review by SO	0			15	22-Oct-20 A		
AIP - SO Consent for DDA Submission	0	07.0.100	09-Oct-20	0		05-Nov-20 A	
AIP South Apron Adit - Permanent Structure	0	07-Oct-20	07-Oct-20	0	05-Nov-20 A		
AIP - SO Consent for DDA Submission	0		07-Oct-20	0		05-Nov-20 A	
DDA South Apron A dit - ELS Design / Pumping Test	0	31-Dec-20	31-Dec-20	0	16-Oct-20 A	16-Oct-20 A	
DDA - SO Consent for Construction	0		31-Dec-20	0		16-Oct-20 A	A ODA - SO Consent for Construction ▼ DDA South Apron;Adit - DCRA
DDA South Apron A dit - DC RA	39	30-Dec-20	17-Feb-21	97	07-Nov-20 A	06-Mar-21	DDA South Apron Adit - DCRA
DDA - Further information required by SO	12	30-Dec-20	13-Jan-21	1	07-Nov-20 A		
DDA - 2nd Sub	0		13-Jan-21	0		07-Nov-20 A	∧ l · · · · · · · · · · · · · · · · · ·
DDA - 2nd Review by SO	35	14-Jan-21	17-Feb-21	9	09-Nov-20 A	17-Nov-20 A	
DDA - Further information required by SO	0			33	18-Nov-20 A	28-Dec-20 A	A DDA - Further information required by SO
DDA - 3rd Sub	0			0		28-Dec-20 A	A DDA - 3rd Sub
DDA - 3rd Review by SO	0			68	29-Dec-20 A	06-Mar-21	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0		17-Feb-21	0		06-Mar-21	DDA - SO Consent for Construction
DDA South Apron A dit - Permanent Structure	132	08-Oct-20	18-Mar-21	155	02-Nov-20 A	13-May-21	DDA South Apron Adit - Permanent Structure
DDA - Draft - Preparation by Designer	36	08-Oct-20	19-Nov-20	44	02-Nov-20 A	22-Dec-20 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Nov-20	17-Dec-20	33	23-Dec-20 A	02-Feb-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		17-Dec-20	0		02-Feb-21 A	
DDA - Review by SO	28	18-Dec-20	14-Jan-21	32	03-Feb-21 A	06-Mar-21	DDA - Review by SO
DDA - Review by IP / DC	28	18-Dec-20	14-Jan-21	32	03-Feb-21 A	06-Mar-21	DDA - Review by IP / DC
DDA - Further information required by SO	24	15-Jan-21	11-Feb-21	24	08-Mar-21	08-Apr-21	DDA - Further information required by SO
DDA - 2nd Sub	0		11-Feb-21	0		08-Apr-21	◆ DDA - 2ŋd Sub
DDA - 2nd Review by SO	35	12-Feb-21	18-Mar-21	35	09-Apr-21	13-May-21	DDA - 2nd Revi
DDA - SO Consent for Construction	0		18-Mar-21	0		13-May-21	♦ DDA - SO Cons
SOUTH APRON ROAD WORKS	626	02-May-20	11-Jun-22	219	03-Oct-20 A	02-Jul-21	
DDA Road S20 - Alignment, Traffic Sign, Road Marking and	0	14-Aug-20	14-Aug-20	127	12-Oct-20 A	17-Mar-21	
SOR	0	14-Aug-20	14-Aug-20	127	12-Oct-20 A	17-Mar-21	
DDA - 5th Sub	0			0		12-Oct-20 A	
DDA - 5th Review by SO	0			30	13-Oct-20 A	17-Nov-20 A	
DDA - Further information required by SO	0			20	18-Nov-20 A	10-Dec-20 A	
DDA - 6th Sub	0			0		10-Dec-20 A	
DDA - 6th Review by SO	0			16	11-Dec-20 A		
DDA - Further information required by SO	0			26	02-Jan-21 A		
DDA - 7th Sub	0			0		01-Feb-21 A	
				0			
	Summary	,					Date Revision Checked Approved
							De e d TO e re d le fre e tru e trune M/e rice

Data Date: 28-Feb-21

Actual Milestone
 Actual Work

Baseline Milestone

calActivity

Baseline Bar

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

BOUYGUES

S)	
63		
		/

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

Activ	ty Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish			202							-					20
								29	06	Decem		2	7 03		January 0 1	7 2	4 31	-	February 07 14	21	28 0	Mar 7
	DDA - 7th Review by SO	0			35	02-Feb-21 A	17-Mar-21								_			-				
	DDA - SO Consent for Construction	0		14-Aug-20	0		17-Mar-21	1								·						
	DDA Road S20 - Roadworks and Street Furniture	0	14-Aug-20	14-Aug-20	127	12-Oct-20 A	17-Mar-21															
	SOR	0	14-Aug-20	14-Aug-20	127	12-Oct-20 A	17-Mar-21															
	DDA - 6th Sub	0			0		12-Oct-20 A															
	DDA - 6th Review by SO	0			26	13-Oct-20 A	12-Nov-20 A	y SO														
	DDA - Further information required by SO	0			28	13-Nov-20 A	15-Dec-20 A				DDA - Fi DDA - 71	urther in	nformatio	on requir	ed by S	0						
	DDA - 7th Sub	0			0		15-Dec-20 A	ļ		•	DDA - 71	th \$ub										
	DDA - 7th Review by SO	0			38	16-Dec-20 A	01-Feb-21 A												7th Review b	4		
	DDA - Further information required by SO	0			1	01-Feb-21 A	01-Feb-21 A	ļ								·		!	Further inforr	mation req	uired by SO	
	DDA - 8th Sub	0			0		01-Feb-21 A										• DI	DA -	8th Sub			
	DDA - 8th Review by SO	0			35	02-Feb-21 A	17-Mar-21	ļ	¦							· +	; -					
	DDA - SO Consent for Construction	0		14-Aug-20	0		17-Mar-21									· +				¦		
		0			64	16-Dec-20 A	06-Mar-21	ļ								<u> </u>						
	DDA - Under review by TD	0	00.0	00.0.1.55	64	16-Dec-20 A	06-Mar-21	 								· 						DA - Un
Г	AIP Road L10 (S)	23	03-Sep-20	03-Oct-20	107	24-Oct-20 A	06-Mar-21	 								·						
	AIP - 2nd Sub	0	04.0	03-Sep-20	0	0/ 0 + 00 /	24-Oct-20 A		h. cc							·						
	AIP - 2nd Review by SO	28	04-Sep-20	01-Oct-20	25	26-Oct-20 A	19-Nov-20 A															
	AIP - Further information required by SO	0			9	20-Nov-20 A	30-Nov-20 A		1	1	mation r	equirea	i by SO									
	AIP - 3rd Sub	0			0	01 D 00 A	30-Nov-20 A		'- 3ra S	au 												P - 3rd
	AIP - 3rd Review by SO	0		02 0 -+ 20	96	01-Dec-20 A	06-Mar-21									· +					i	P - 310 P - \$0
	AIP - SO Consent for DDA Submission	0	02.0.1.00	03-Oct-20	0	20 11 20 4	06-Mar-21													. Outfall		
	DDA Road L10 (S) + Outfall 2 - Permanent Utility Design	101	03-Oct-20	02-Feb-21	95	30-Nov-20 A	26-Mar-21						ft Prepa	arotion b			V L		Road L10 (S)			
	DDA - Draft - Preparation by Designer	24	03-Oct-20	31-Oct-20	18	30-Nov-20 A	19-Dec-20 A					A - ¦Diai			· · ·	1	prepare fo	ar 1ct	Sub			
	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	7	21-Dec-20 A	30-Dec-20 A						DDA -					JI 151	Sub			
-	DDA - 1st Sub	0	15 Nov 20	14-Nov-20	0	21 Dec 20 A	30-Dec-20 A 09-Feb-21 A									·			DDA - Rev	viow by St		
	DDA - Review by SO DDA - Review by IP / DC	28 28	15-Nov-20 15-Nov-20	12-Dec-20 12-Dec-20	41 51	31-Dec-20 A 31-Dec-20 A	19-Feb-21 A			=, 						· 					eview by IP	/ D¢
	DDA - Review by iP / DC DDA - Further information required by SO	12	13-100V-20 14-Dec-20	29-Dec-20	6	10-Feb-21 A														4	urther inforn	
-	DDA - 1 differ minimation equiled by 30	0	14-Dec-20	29-Dec-20 29-Dec-20	0	10-1 CD-21 A	19-Feb-21 A		 			•								DDA - 2		
	DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	35	20-Feb-21 A	26-Mar-21									· +						
	DDA - SO Consent for Construction	0	30 DCC 20	02-Feb-21	0	20100217	26-Mar-21										···· ♦					
	DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking (101	03-Oct-20	02-Feb-21	93	30-Nov-20 A	24-Mar-21										····	DDA	Road L10 (S)	Alianme	nt, Traffic S	ian, Ro
	DDA - Draft - Preparation by Designer	24	03-Oct-20	31-Oct-20	22	30-Nov-20 A	24-Dec-20 A					I DDA	- Draft -	Prepara	ntion:bv [Designer						
-	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	2	26-Dec-20 A	29-Dec-20 A									ĭ	prepare for	r 1st S	Sub			
	DDA - 1st Sub	0	02 1107 20	14-Nov-20	0	20 200 2011	29-Dec-20 A						DDA - 1									
	DDA - Review by SO	28	15-Nov-20	12-Dec-20	32	30-Dec-20 A	30-Jan-21 A									·	DDA	۹- Re	eview by SO			
	DDA - Review by IP / DC	28	15-Nov-20	12-Dec-20	73	30-Dec-20 A	12-Mar-21	=	+	- ¦ ⊒¦						·						🗖 DI
	DDA - Further information required by SO	12	14-Dec-20	29-Dec-20	12	01-Feb-21 A	17-Feb-21 A			; 💳						· +				DDA - Fur	her informa	tion req
	DDA - 2nd Sub	0		29-Dec-20	0		17-Feb-21 A	+	 			♦				· 			• [DDA - 2nd	Sub	
	DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	35	18-Feb-21 A	24-Mar-21	+	 			 ; с		;		· 						
	DDA - SO Consent for Construction	0		02-Feb-21	0		24-Mar-21	1								· 						+
	DDA Road L10 (S) - Roadworks and Street Furniture	101	03-Oct-20	02-Feb-21	115	30-Nov-20 A	23-Apr-21						-+-+			· 	 ▼ [DDA	Road L10 (S)	Roadwo	rks and Str	et Furr
	DDA - Draft - Preparation by Designer	24	03-Oct-20	31-Oct-20	22	30-Nov-20 A	24-Dec-20 A		÷			DDA	- Draft -	Prepara	tion by I	Designer						
	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	2	26-Dec-20 A	29-Dec-20 A	1					DDA - I	Draft - Fi	nal Revi	ew and p	prepare for	r 1st S	Sub			
	DDA - 1st Sub	0		14-Nov-20	0		29-Dec-20 A	1				•	DDA - 1	1st\$ub								
	DDA - Review by SO	28	15-Nov-20	12-Dec-20	28	30-Dec-20 A	26-Jan-21 A	F		 -			-+-;			····	DDA - Re	eview	ı by SO			
	DDA - Review by IP / DC	28	15-Nov-20	12-Dec-20	73	30-Dec-20 A	12-Mar-21	F		•			-+	<u>i</u>		·	<u>i</u> d			; ; ;		DI DI
	DDA - Further information required by SO	12	14-Dec-20	29-Dec-20	42	27-Jan-21 A	19-Mar-21			—						I	<u>i</u>			i		
	DDA - 2nd Sub	0		29-Dec-20	0		19-Mar-21					♦				·						
		-															· · · ·					· · · ·

Page 6 of 27 Data Date: 28-Feb-21 Milestone
 Planned Bar

iticalActivity

ctual Work

Baseline Bar

C

tual Milestone

seline Mileston

Summary

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

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20

01V1

01V2

01V3

WYu

WYu

WYu

SPa/LLo

SPa/LLo

SPa/LLo

2021 1arch						April			May							
14		21	28		04	April 11	18	25	02	09	16	23 0				
	DDA	\- 7th			by SO						1					
•	DDA	- SO	Con	sen	t for Cor	struction	<u>ן</u>									
									 : !:		 ! !	÷'-				
					<u> </u> 				·			$\frac{1}{1}$				
											+	+				
									·							
	{								·			; ; ; ;				
	{								·			÷				
												+				
												; ;				
					 							; ; ; ;				
										¦	¦	¦				
					by SO							· · · · · · · · · · · · · · · · · · ·				
•	DDA	A - SO	Con	sen	t for Cor	nstruction	'n									
Jnder	revi	ew by	TD						·							
					;				 		;	;				
					<u> </u>				·			+				
									·		·	+				
												÷				
					 							$\frac{1}{\frac{1}{1}}$				
d P~		by SC	 \						·			¦				
					micolor											
	!		UA : 	DU DI	mission											
ility D	esigr	1 										, , , , , , , , , , , , , , , , , , ,				
										¦		¦				
												Ti-				
	;															
requ	uired	by SC)						 		÷	;; ;				
					<u> </u> 				·			$\frac{1}{1}$				
	¦		DD/	A - 2	nd Revi	ew by S0	5				÷	+				
					SOCons			ion	·							
Poad	Mark				Light				·			+				
	¦											; ;				
												+				
												; ;				
					 						¦	; ; ;;				
		-,								¦	¦ 	¦				
		/iew b	y IP	/ DC								; ; ; ;;-				
equire	edby	S0										· · · · · · · · · · · · · · · · · · ·				
		D	DA -	2nc	Review	by SO						T				
	;	♦ D	DA -	SO	Consen	t for Cor	struction))				+				
urnitu	re											;				
									·			+				
	{											+				
												+				
					 							, , , , , , , , , , , , , , , , , , ,				
^	- <u>-</u>	/iew b	v ID		<u>.</u>			- 				; ; 				
<i></i> А			C		1 1	n roa:	d by CC					÷				
					formatio	in require	eu by SC	, 								
◆ DDA - 2nd Sub							1	1	1 1 1							
Date				F	Revisior	ו ו	Chec	ked	App	roved						
			05		ov-19	00V			WYu							
					ec-19	00V			WYu							
S)				b-20	01V			SPa/LLc)	WYu					

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020								2021		-			-		
							29 06	December	7 03	January 10 17	24 31	Febri	uary 14 2	1 28	07	March 14	21	28 04	April	18 25	5 02	May 09 16	23 0
DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	35	20-Mar-21	23-Apr-21		T													A - 2nd Review		
DDA - SO Consent for Construction	0		02-Feb-21	0		23-Apr-21					♦									♦ DD/	∖-\$OConsen	nt for Construct	lion
AIP Foot Bridge FB-02	36	12-Aug-20	22-Sep-20	51	03-Nov-20 A	04-Jan-21 A				1 1 1 1 1 1 1												 	
AIP - Further information required by SO	12	12-Aug-20	25-Aug-20	36	03-Nov-20 A	14-Dec-20 A		AIP - Further info	ormation req	uired by SO							· · · · · · · · · · · · · · · · · · ·						
AIP - 2nd Sub	0		25-Aug-20	0		14-Dec-20 A		◆ AIP - 2nd Sub						-									
AIP - 2nd Review by SO	28	26-Aug-20	22-Sep-20	21	15-Dec-20 A	04-Jan-21 A				- 2nd Review by													
AIP - SO Consent for DDA Submission	0		22-Sep-20	0		04-Jan-21 A			AIP	- SO Consent fo	n DDA Submissi	yn ¦											
DDA Foot Bridge FB-02	86	23-Sep-20	07-Jan-21	122	23-Nov-20 A	24-Apr-21		· · · · · · · · · · · · · · · · · · ·		DDA Foot Bridge	e FB-02					ļ			ļ				
DDA - Draft - Preparation by Designer	12	23-Sep-20	08-Oct-20	34	23-Nov-20 A	04-Jan-21 A			DD/		ration by Designe					<u>.</u>	·						
DDA - Draft - Final Review and prepare for 1st Sub	12	09-Oct-20	22-Oct-20	6	05-Jan-21 A	11-Jan-21 A				🗖 DDA - Draft	+ Final Review a	nd prepare	for 1st Sul	0		ļ							
DDA - 1st Sub	0		22-Oct-20	0		11-Jan-21 A				🔷 DDA - 1st S	ub						· · · · · · · · · · · · · · · · · · ·						
DDA - Review by SO	28	23-Oct-20	19-Nov-20	54	12-Jan-21 A	06-Mar-21						·			DDA -	Reviewb	y SO						
DDA - Review by IP / DC	28	23-Oct-20	19-Nov-20	54	12-Jan-21 A	06-Mar-21					+					1	·						
DDA - Further information required by SO	12	20-Nov-20	03-Dec-20	12	08-Mar-21	20-Mar-21				 	¦	· ·				+			tion required				
DDA - 2nd Sub	0		03-Dec-20	0		20-Mar-21	♦			 	¦	¦					DDA - 2n						
DDA - 2nd Review by SO	35	04-Dec-20	07-Jan-21	35	21-Mar-21	24-Apr-21				 		¦				¦					A - 2nd Revie		
DDA - SO Consent for Construction	0		07-Jan-21	0		24-Apr-21				 		¦								◆ DE	0A - SO Conse	ent for Construc	tion
DDA CUE Entrance ELS	63	14-Aug-20	30-Oct-20	59	21-Nov-20 A	02-Feb-21 A		· · · · · · · · · · · · · · · · · · ·				¦ .											
DDA - 1st Sub	0		14-Aug-20	0		21-Nov-20 A	t Sub				¦	¦ ;				¦¦-							
DDA - Review by SO	28	15-Aug-20	11-Sep-20	25		17-Dec-20 A		DDA - Reviev				<u> </u>				+							+
DDA - Review by IP / DC	28	15-Aug-20	11-Sep-20	57	23-Nov-20 A						A - Review by IP A - Further inforn	/ DC				++						·	+
DDA - Further information required by SO	12	12-Sep-20	25-Sep-20	24	18-Dec-20 A			·			÷					++						·	+
DDA - 2nd Sub	0		25-Sep-20	0		18-Jan-21 A					A - 2nd Sub					÷							
DDA - 2nd Review by SO	35	26-Sep-20	30-Oct-20	15	19-Jan-21 A	02-Feb-21 A					+			<mark>.</mark>									
DDA - SO Consent for Construction	0	00.1.1.00	30-Oct-20	0		02-Feb-21 A							onsent for C		'n ¦ 	÷							
AIP CUE Permanent Works	0	02-Jul-20	02-Jul-20	0	18-Nov-20 A	18-Nov-20 A		Cubraina				·				÷							
AIP - SO Consent for DDA Submission DDA CUE Permanent Works	0	00 1 1 00	02-Jul-20	0		18-Nov-20 A	hsent for DDA	A Sudmission								+							
	70 0	29-Jul-20	21-Oct-20	102 0	05-Oct-20 A	05-Feb-21 A										÷							
DDA - 1st Sub DDA - Review by SO	28	20 101 20	29-Jul-20		06 Oct 20 A	05-Oct-20 A		· · · · · · · · · · · · · · · · · · ·			+					÷							
DDA - Review by SO DDA - Review by IP / DC	20	30-Jul-20 30-Jul-20	26-Aug-20	23 95	06-Oct-20 A 06-Oct-20 A	08-Jan-21 A		· · · · · · · · · · · · · · · · · · ·	<u></u>	DDA - Review b		·				÷							+
DDA - Review by in 7 DC DDA - Further information required by SO	18	27-Aug-20	26-Aug-20 16-Sep-20	95 25		26-Nov-20 A	Λ. Eurthor in	formation required by	so					· · · · <mark>/</mark> · · · · ·		÷							+
DDA - Puttiel information required by SO DDA - 2nd Sub	0	27-Aug-20	16-Sep-20	0	29-001-20 A	26-Nov-20 A	A - 2nd Sub			 				····		÷							
DDA - 2nd Review by SO	35	17-Sep-20	21-Oct-20	12	27-Nov-20 A	08-Dec-20 A		DA - 2nd Review by S		 				<u> </u>							·		
DDA - 2110 Review by SO DDA - Further information required by SO	0	17-360-20	21-001-20	9	09-Dec-20 A	18-Dec-20 A		DDA - Furth		n required by S(++							
DDA - 3rd Sub	0			0	07 DCC 20 A	18-Dec-20 A		DDA - 3rd S			+	·	·	····		+							
DDA - 3rd Review by SO	0			27	19-Dec-20 A					DDA - 3	rd Reviewby SO												
DDA - Further information required by SO	0			7		22-Jan-21 A					DDA - Further i		required by	v SÓ		+							
DDA - 3rd Sub	0			0	10 3412171	22-Jan-21 A				•						+							
DDA - 3rd Review by SO	0			14	23-Jan-21 A						÷	DDA - 3r	d Review b	v SÖ		+							+
DDA - SO Consent for Construction	0		21-Oct-20	0		05-Feb-21 A					+		Consent f	<mark>.</mark>	iction	+							+
[STE] AIP CUE L10 (N) Permanent Works	84	12-Nov-21	24-Feb-22	67	02-Nov-20 A	21-Jan-21 A				¦¦ ! !	+++	·		····;		+							+
AIP - Draft - Preparation by Designer	18	12-Nov-21	02-Dec-21	29	02-Nov-20 A						+			····		+					· - • {		+
AIP - Draft - Final Review and prepare for 1st Sub	12	03-Dec-21	16-Dec-21	2	05-Dec-20 A	07-Dec-20 A				 	++-	·}		••••		+							+
AIP - 1st Sub	0		16-Dec-21	0		07-Dec-20 A	•			 	+++	·¦; 		••••		+							+
AIP - Review by SO	28	17-Dec-21	13-Jan-22	16	08-Dec-20 A	23-Dec-20 A		·			+	·¦		·		+							+
AIP - Review by IP / DC	28	17-Dec-21	13-Jan-22	16	08-Dec-20 A	23-Dec-20 A		·		 	+	. 											
AIP - Further information required by SO	12	14-Jan-22	27-Jan-22	17	24-Dec-20 A	15-Jan-21 A		·		¦ ;	+++					+							+
AIP - 2nd Sub	0		27-Jan-22	0		15-Jan-21 A			-+	♦	+++	·}				+							†
AIP - 2nd Review by SO	28	28-Jan-22	24-Feb-22	6	16-Jan-21 A	21-Jan-21 A						·¦ ; -				+						 	
Page 7 of 27 \blacklozenge \blacklozenge Milestone \checkmark	Summary																	Date	Rev	ision	Checke	d App	roved
Data Date: 28-Feb-21			FD/2	01	8/ <u>04</u> Tr	runk R	T hen	[2 and In	fract	ructure	M/ork ا	<u>م</u> ا						5-Nov-19	00V0		WYu		
CriticalAdivity				010								5 /		ROUN	Velu			8-Dec-19	00V1		WYu		
Actual Miestone for Developments at South Apron										2-Feb-20	01V0		SPa/LLo	WYu									
♦ ♦ Baseline Milestone				_			_	_	-									9-Apr-20 7-Jul-20	01V1 01V2		SPa/LLo SPa/LLo	WYu WYu	
Baseline Bar				Th	ree Mo	nths F	Rollinc	g Prograr	nme	(Feb-2	21)								01V2		SPa/LLO SPa/LLo	WYu WYu	
Baseline Bar Three Months Rolling Programme (Feb-21) 17-Jul-20 01V2 09-Oct-20 01V3 SPa/LLo WYu																							



Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020				
							29	06	December 13 20 27	03	January 10 17 24	February N 31 07 14 21 28 07
AIP - SO Consent for DDA Submission	0		24-Feb-22	0		21-Jan-21 A					•	
[STE] DDA CUE L10 (N) Permanent Works	106	28-Jan-22	11-Jun-22	125	21-Nov-20 A	27-Apr-21				+-+		
DDA - Draft - Preparation by Designer	18	28-Jan-22	21-Feb-22	18	21-Nov-20 A	11-Dec-20 A				+-+		
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Feb-22	07-Mar-22	26	12-Dec-20 A	14-Jan-21 A	1			+		
DDA - 1st Sub	0		07-Mar-22	0		14-Jan-21 A	1			+	•	
DDA - Review by SO	28	08-Mar-22	04-Apr-22	40	15-Jan-21 A	23-Feb-21 A	1					
DDA - Review by IP / DC	28	08-Mar-22	04-Apr-22	51	15-Jan-21 A	06-Mar-21						
DDA - Further information required by SO	24	06-Apr-22	07-May-22	24	24-Feb-21 A	23-Mar-21						
DDA - 2nd Sub	0		07-May-22	0		23-Mar-21					;;;	
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	35	24-Mar-21	27-Apr-21	1					
DDA - SO Consent for Construction	0		11-Jun-22	0		27-Apr-21	1					
[STE] AIP District Cooling System Permanent Works	86	02-May-20	12-Aug-20	60	07-Oct-20 A	16-Dec-20 A						
AIP - Further information required by SO	18	02-May-20	22-May-20	36	07-Oct-20 A	18-Nov-20 A	info	rmation i	equired by SO			
AIP - 3rd Sub	0			0		18-Nov-20 A	þ					
AIP - Review by IP / DC	28	30-May-20	26-Jun-20	28	19-Nov-20 A	16-Dec-20 A			AIP - Review b	y IP / DC		
AIP - SO Consent for DDA Submission	0		12-Aug-20	0		16-Dec-20 A	1		◆ AIP - SO Cons	ent for D	DA Submission	
[STE] DDA District Cooling System Permanent Works	57	27-Aug-20	04-Nov-20	165	03-Oct-20 A	26-Apr-21	/sten	nPerma	nent Works			
DDA - Review by SO	28	27-Aug-20	23-Sep-20	32	03-Oct-20 A	03-Nov-20 A	1					
DDA - Review by IP / DC	28	27-Aug-20	23-Sep-20	111	03-Oct-20 A	21-Jan-21 A	_		·····			eview by IP / DC
DDA - Further information required by SO	6	24-Sep-20	30-Sep-20	65	04-Nov-20 A	21-Jan-21 A					DDA - F	urther information required by SO
DDA - 2nd Sub	0		30-Sep-20	0		21-Jan-21 A	1				◆ DDA - 2	nd Sub
DDA - 2nd Review by SO	35	01-Oct-20	04-Nov-20	32	22-Jan-21 A	22-Feb-21 A						DDA - 2nd Review by
DDA - Further information required by SO	0			24	23-Feb-21 A	22-Mar-21						
DDA - 2nd Sub	0			0		22-Mar-21						
DDA - 2nd Review by SO	0			35	23-Mar-21	26-Apr-21	1					
DDA - SO Consent for Construction	0		04-Nov-20	0		26-Apr-21						
[STE] AIP District Cooling System Temporary Works	36	04-Jul-20	14-Aug-20	79	15-Oct-20 A	19-Jan-21 A						
AIP - Further information required by SO	12	04-Jul-20	17-Jul-20	15	15-Oct-20 A	02-Nov-20 A	ed by	/SO				
AIP - 2nd Sub	0		17-Jul-20	0		02-Nov-20 A						
AIP - 2nd Review by SO	28	18-Jul-20	14-Aug-20	14	03-Nov-20 A	16-Nov-20 A	ew b					
AIP - Further information required by SO	0			19	17-Nov-20 A	08-Dec-20 A			P - Further information	required	l by SO	
AIP - 3rd Sub	0			0		08-Dec-20 A		♦ AI	P - 3rd Sub			
AIP - 3rd Review by SO	0			14	09-Dec-20 A	22-Dec-20 A			AIP - 3r		' '	
AIP - Further information required by SO	0			9	23-Dec-20 A	05-Jan-21 A					AIP - Further information re	quired by SO
AIP - 4th Sub	0			0		05-Jan-21 A				•	AIP - 4th Sub	
AIP - 4th Review by SO	0			14	06-Jan-21 A	19-Jan-21 A					AIP - 4th Sub	
AIP - SO Consent for DDA Submission	0		14-Aug-20	0		19-Jan-21 A					◆ AIP - SO (Consent for DDA Submission
[STE] DDA District Cooling System Temporary Works	59	28-Aug-20	09-Nov-20	128	12-Oct-20 A		ling \$	System T	emporary Works			
DDA - 1st Sub	0		28-Aug-20	0		12-Oct-20 A	ļ					······
DDA - Review by SO	28	29-Aug-20	25-Sep-20	38	13-Oct-20 A	19-Nov-20 A						<u>_</u>
DDA - Review by IP / DC	28	29-Aug-20	25-Sep-20	88	13-Oct-20 A	08-Jan-21 A					DDA - Review by IP / D	¢
DDA - Further information required by SO	6	26-Sep-20	05-Oct-20	19	20-Nov-20 A				DDA - Further inform	ation req	uired by SQ	
DDA - 2nd Sub	0		05-Oct-20	0		11-Dec-20 A			DDA - 2nd Sub			
DDA - 2nd Review by SO	35	06-Oct-20	09-Nov-20	27	12-Dec-20 A	07-Jan-21 A					DDA - 2nd Review by SC	· · · · · · · · · · · · · · · · · · ·
DDA - Further information required by SO	0			10	08-Jan-21 A	19-Jan-21 A	+					ther information required by SO
DDA - 3rd Sub	0			0	20 1 01 4	19-Jan-21 A	+				◆ DDA - 3rd	·
DDA - 3rd Review by SO	0			10	20-Jan-21 A	29-Jan-21 A	+					DDA - 3rd Review by SO
DDA - Further information required by SO	0			11	30-Jan-21 A	11-Feb-21 A	 					DDA - Further information required DDA - 4th Sub
DDA - 4th Sub	0			0	1) 5-6 01 4	11-Feb-21 A						DDA - 4(f) Sub
DDA - 4th Review by SO	0			35	12-Feb-21 A	18-Mar-21		i	<u> </u>			
Page 8 of 27	Summary											

Data Date: 28-Feb-21

'lanned Bar Xitical A di vity

Actual Milestone
 Actual Work

Baseline MilestoneBaseline Bar

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

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

2021 Iarch					April			_	Мау								
14	21	28	}	04	4pm 11	18	25	_	02	09	16 16	23 0					
											-						
											+						
											+	+					
											+						
						1											
				i													
							•										
												;;- , , , , , , , , , , , , , , , , , , ,					
											+	+					
											+						
												;i- 					
						¦					÷						
SO																	
	DD/	4 - Fu	irthe	er inform	ation ree	uired by	SO										
	♦ DD/																
	• DDr		iu .	uu 					2.15								
							L L	- 10	A - 2nd F		y SO	; ;					
							• C	DA	\- SO C	onsent f	or Const	ruction					
				<u> </u> 								<u> </u> 					
												; ;					
				÷								¦					
						¦ 											
						, , ,											
											+						
												+					
				¦								+					
						; 					; ;	; ;					
by SO																	
				;		; ! !						;					
	DDA - 4t	h R≏	viev	v bv SO							÷						
				<u> </u>		<u> </u>					<u> </u>	· · ·					
			[Date	F	Revisior	۱		Check	ed	Approved						
		05	-Nc	ov-19	00V	0		W	Yu								
_				ec-19	00V				Yu								
S				b-20	01V			_	Pa/LLo		WYu						
Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020									2021
---	---------	------------	-------------	------	-------------	-------------------	----------------	------------------	---------------------------------------	---------	----------	-------------	---------------------------------------	-----------------	---------------------------------------	--------------	---------------------------------------
							29 06	Decembe	er 20	27	03	Janua 10	ary 17 24	Fe 31 07	bruary 14 21	28	March 07 14
DDA - SO Consent for Construction	0		09-Nov-20	0		18-Mar-21	27 00	15	20	21	00	10	17 27	51 07		20	
[STE] AIP Hoi Bun Road Junction	0	30-Nov-20	30-Nov-20	140	13-Oct-20 A	07-Apr-21	[STE] AIP H	pi Bun F	Road June	tion							
AIP - Further information required by SO	0			21	13-Oct-20 A	06-Nov-20 A	quired by SO	 !									
AIP - 3rd Sub	0			0		06-Nov-20 A		 ! !									
AIP - 3rd Review by SO	0			21	07-Nov-20 A	27-Nov-20 A	P - 3rd Review										
AIP - Further information required by SO	0			51	28-Nov-20 A	29-Jan-21 A		¦							formation require		
AIP - 4th Sub	0			0		29-Jan-21 A							•	AIP - 4th Sub			
AIP - 4th Review by SO	0			18	30-Jan-21 A	16-Feb-21 A		;							Alip - 4th R	eview by	
AIP - Further information required by SO	0			18	17-Feb-21 A	09-Mar-21		;				}					🗖 AlP - Furthe
AIP - 5th Sub	0			0		09-Mar-21											🔶 AIP - 5th Su
AIP - 5th Review by SO	0			28	10-Mar-21	06-Apr-21		 - -									
AIP - SO Consent for DDA Submission	0		30-Nov-20	0		07-Apr-21											
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	39	12-Jan-21	01-Mar-21	147	16-Oct-20 A	17-Apr-21		1				V	· · · · · · · · · · · · · · · · · · ·			🔻 [STÉ] DDA Hoi Bun F
DDA - Further information required by SO	12	12-Jan-21	25-Jan-21	15	16-Oct-20 A	03-Nov-20 A		,	,				DDA		nation required by	SO	
DDA - 2nd Sub	0		25-Jan-21	0		03-Nov-20 A		; , , ,					🔷 DDA	- 2nd Sub	· · · · · · · · · · · · · · · · · · ·		
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	24	04-Nov-20 A	27-Nov-20 A		,								D DĄ	- 2nd Review by
DDA - Further information required by SO	0			43	28-Nov-20 A	20-Jan-21 A							DDA - Furt	her information	required by SO		
DDA - 3rd Sub	0			0		20-Jan-21 A		, , ,				}	◆ DDA - 3rd	Sub			
DDA - 3rd Review by SO	0			30	21-Jan-21 A	19-Feb-21 A		; , ,							, DDA - 3	d Reviev	
DDA - Further information required by SO	0			19	20-Feb-21 A	13-Mar-21		 - - -									DDA -
DDA - 4th Sub	0			0		13-Mar-21											🔶 DDA -
DDA - 4th Review by SO	0			35	14-Mar-21	17-Apr-21		, , , ,									
DDA - SO Consent for Construction	0		01-Mar-21	0		17-Apr-21		1 ! !								◇	· · · · · · · · · · · · · · · · · · ·
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	60	14-Dec-20	01-Mar-21	127	05-Oct-20 A	10-Mar-21		V	· · ·				· · · · ·	1	I I I I	▼ [STÉ] DDA Hoi Bun F
DDA - 1st Sub	0		14-Dec-20	0		05-Oct-20 A			A - 1st St	- i - i							
DDA - Review by SO	28	15-Dec-20	11-Jan-21	51	06-Oct-20 A	25-Nov-20 A			· ·		<u> </u>	DDA	- Review by SO				
DDA - Review by IP / DC	28	15-Dec-20	11-Jan-21	79	06-Oct-20 A	23-Dec-20 A								DC			
DDA - Further information required by SO	12	12-Jan-21	25-Jan-21	57	26-Nov-20 A	03-Feb-21 A							A - Review by IP 7	DDA - Fu	inther information	equired	iy SO
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	35	03-Feb-21 A	10-Mar-21		 							· · · · · · · · · · · · · · · · · · ·		🔲 D;DA - 2nd
DDA - 2nd Sub	0		25-Jan-21	0		03-Feb-21 A		 					◇	♦ DDA - 2n	d Sub		
DDA - SO Consent for Construction	0		01-Mar-21	0		10-Mar-21		 								◇	DDA - SO
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	27	25-Jan-21	01-Mar-21	132	03-Nov-20 A	17-Apr-21										V [STĖ] DDA Hoi Bun F
DDA - 2nd Sub	0		25-Jan-21	0		03-Nov-20 A							🔷 DDA	- 2nd Sub			
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	24	04-Nov-20 A	27-Nov-20 A		; ;								DDA	- 2nd Review by
DDA - Further information required by SO	0			43	28-Nov-20 A	20-Jan-21 A							DDA - Furt	her information	required by SO		
DDA - 3rd Sub	0			0		20-Jan-21 A							DDA - 3rd				
DDA - 3rd Review by SO	0			21	21-Jan-21 A	10-Feb-21 A									DDA - 3rd Review	by SO	
DDA - Further information required by SO	0			24	11-Feb-21 A	13-Mar-21											DDA - I
DDA - 3rd Sub	0			0		13-Mar-21											◆ DDA - :
DDA - 3rd Review by SO	0			35	14-Mar-21	17-Apr-21		; ; ;	, , , , , , , , , , , , , , , , , , ,								·
DDA - SO Consent for Construction	0		01-Mar-21	0		17-Apr-21		, , ,	, , , , , , , , , , , , , , , , , , ,						· · · · · · · · · · · · · · · · · · ·	◇	
[STE] DDA Hoi Bun Road Junction - Street Lighting	39	12-Jan-21	01-Mar-21	122	07-Oct-20 A	05-Mar-21		; ; ;				/] DDA Hoi Bun R
DDA - Further information required by SO	12	12-Jan-21	25-Jan-21	39	07-Oct-20 A	21-Nov-20 A			¦						nation required by	SO	
DDA - 2nd Sub	0		25-Jan-21	0		21-Nov-20 A		; ; ;				}	🔷 DDA	- 2nd Sub			
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	19	23-Nov-20 A	11-Dec-20 A	·	1 1 1								DDA	- 2nd Review by
DDA - Further information required by SO	0			31	12-Dec-20 A	20-Jan-21 A		1 1							required by SO		
DDA - 3rd Sub	0			0	04	20-Jan-21 A	¦						◆ D/DA - 3rd	bub	· · · · · · · · · · · · · · · · · · ·		
DDA - 3rd Review by SO	0		04.11 -:	44	21-Jan-21 A	05-Mar-21	¦								+		DDA - 3rd Revie
DDA - SO Consent for Construction	0	00.5	01-Mar-21	0	06.14	05-Mar-21											DDA - \$O Conse
[STE] AIP Slip Road S5	24	20-Feb-21	20-Mar-21	24	01-Mar-21	29-Mar-21		1 1 1				1			V.	1	
Page 9 of 27 Data Date: 28-Feb-21 Actual Milestone Actual Work Baseline Milestone 	Summary		ED/2	2018		runk R)eveloj							ture Wo	orks	B	OUY(VAUX	GUES PUBLICS

🔷 Baseline Milestone

Baseline Bar

 \diamond

Three Months Rolling Programme (Feb-21)

2021					April			Mou						
1arch 14	21	28	3	04	April 11	18	25	02	09	lay 16	23 0			
	DDA - S(
									-{ 					
			 						÷					
			+			, , ,			<u> </u>					
			r +			; ;								
			+ 						<u> </u>					
									i.					
			·											
- Furth	er inform	ation	rec	uired by	SO	 	 !		 					
- 5th S									÷					
	μυ 					eview by								
	{					-	1							
			+				for DL	DA Submis	sion -¦	¦ 				
oi Bun I	Road Jur	nctior	1 - F	'ermane	nt Utility	Design			Ì					
			 											
eview b	v SO		+			¦			-{ !					
									÷					
										·				
			;											
						 			¦ 	¦ 				
DDA -	Further	inforr	nati	on requi	red by S	0								
DDA -	4th Sub		1											
						DDA -	4th R	Review by S	60					
	¦		+		••••••	DDA -	S0 0	onsent for	Constru	ction				
oi Bun I	Road Iur	nctior	n - A	lianmen	t Traffic		L	Narking and						
						'				цуп. ¦				
	; {;		; 				; ;							
			+ +						¦					
						1								
									}					
)A - 2nc	Review	by S	0											
			+				 !							
04.50	Consen	t for (Con	struction										
	Road Jur					troot Fu								
			ח-ו ר-ו	10auwor	(S anu S	(11991 Fu 								
			+						¦					
eview b	y SO								<u> </u>					
						1								
			· †											
DDA -	Further	inforr	mati	ion requi	red by S	0								
	3rd Sub		+			 								
							2rd D		<u> </u>					
			;			1	1	eview by S	1					
	 		+		•	DDA -	¦SO C	onsent for	Constru	ction				
oi Bun	Road Jur	nctior	1- \$	street Lig	hting									
			i				r	1						
	; 		+			; 	; 		 	·				
eview b	v SO		 											
			+							÷				
			; 						<u> </u>	·				
	; ;;-;		 			; 								
d Revie	w by SC)												
O Cons	ent for C	onstr	ructi	on										
	[STE]	AIPS	slip	Road S5		 '								
	<u> </u>			1 1		<u>.</u>								
				Date		Revisio	n	Chec	ked	Appr	roved			
				ov-19	00V			WYu						
S				ec-19	00V			WYu						
3	Contraction of the	122-	-Fe	b-20	01V	0		SPa/LLo		WYu				

09-Apr-20

17-Jul-20 09-Oct-20 01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020				2021						
					1		29	December 06 13 20 27	January 03 10 17 24 1	31	February 07 14	March	21 28	04	April 11 18	25 02	May 09 16	23 0
AIP - 2nd Review by SO	28	21-Feb-21	20-Mar-21	28	01-Mar-21	28-Mar-21		00 10 20 21		51	07		AIP -	2nd Reviev	w by \$O		07 10	23 0
AIP - 2nd Sub	0		20-Feb-21	0	1	01-Mar-21	'					AIP - 2nd Sub						
AIP - SO Consent for DDA Submission	0	/	20-Mar-21	0	1	29-Mar-21	·'	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\cdot \frac{1}{1}$		 		🔶 AIP -		ent for DDA Su		 	
[STE] DDA Slip Road S5 - Permanent Utility Design	76	22-Mar-21	25-Jun-21	75	29-Mar-21	02-Jul-21	_ '		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		 			1		·	 	<u></u>
DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	29-Mar-21	08-Apr-21	4'		· · · · · · · · · · · · · · · · · · ·		 	- 	;;	DD	A - Draft - Pre	paration by Desig	gner	
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	09-Apr-21	15-Apr-21	+'		· · · · · · · · · · · · · · · · · · ·				++		🗖 DDA - Dr	aft - Final Review	w and prepare	
DDA - 1st Sub	0	· [· · · · · · · · · · · · · · · · · ·	08-Apr-21	0		15-Apr-21	+'		· · · · · · · · · · · · · · · · · · ·						◆ DDA - 1s	t Sub		
DDA - Review by SO	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	+'		· · · · · · · · · · · · · · · · · · ·								DDA -	Review by S
DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	+'		· · · · · · · · · · · · · · · · · · ·								DDA -	Review by I
DDA - Further information required by SO	12	07-May-21	21-May-21	12	14-May-21	28-May-21	+'		· · · · · · · · · · · · · · · · · · ·					·		·		
DDA - 2nd Sub			21-May-21	0		28-May-21	+'		,									♦ []
DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	29-May-21	02-Jul-21	+'		,									
[STE] DDA Slip Road S5 - Alignment, Traffic Sign, Road Ma		22-Mar-21	25-Jun-21	75	29-Mar-21	02-Jul-21	'									·		<u></u>
DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	29-Mar-21	08-Apr-21	+ '							DD	A - Draft - Pre	paration by Desig	aner	
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	09-Apr-21	15-Apr-21	+'		· · · · · · · · · · · · · · · · · · ·						DDA - Dr	aft - Final Review	w and prepare	for 1st Sub
DDA - 1st Sub		(,	08-Apr-21	0		15-Apr-21	+'							\				
DDA - Review by SO	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	+							····			DDA -	Review by S
DDA - Review by SO DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	+							·····			DDA -	Review by
DDA - Further information required by SO	12	07-May-21	21-May-21	12	14-May-21	28-May-21	*											
DDA - 2nd Sub			21-May-21 21-May-21	0		28-May-21	+'		· · · · · · · · · · · · · · · · · · ·									▲
DDA - 2nd Solo	35	22-May-21	25-Jun-21	35	29-May-21	02-Jul-21	'	$- \begin{bmatrix} 1 & 1 & 1 \\ 1 & -1 & -1 \\ 1 & -1 & -1 \\ 1 & -1 & -$	$\cdot \begin{array}{c} \cdot \\ \cdot $					·				·······
[STE] DDA Slip Road S5 - Roadworks and Street Furniture	76	22-Mar-21	25-Jun-21	75	29-Way-21 29-Mar-21	02-Jul-21	'		· · · · · · · · · · · · · · · · · · ·				·	·		·····		
DDA - Draft - Preparation by Designer	10	22-Mar-21	25-Jun-21 27-Mar-21	6	29-Mar-21	02-Jul-21 08-Apr-21	4'					· · · · · · · · · · · · · · · · · · ·		םם ב	∧ Draft Pre	paration by Desig		
DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub			08-Apr-21	6	29-Mar-21 09-Apr-21	15-Apr-21	'									aft - Final Review		for 1st Sub
DDA - Drait - Final Review and prepare for 1st Sub		29-Mar-21		-	09-Api-21		'								● DDA - 1s		V anu prepare	
			08-Apr-21	0	1/ Apr 21	15-Apr-21	'							····		ISUD		Doviowby
DDA - Review by SO	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	'									·····		Review by
DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	[;]											Review by i
DDA - Further information required by SO		07-May-21	21-May-21	12	14-May-21	28-May-21	;											
DDA - 2nd Sub			21-May-21	0		28-May-21	'											◆ • • · · ·
DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	29-May-21	02-Jul-21	'											<u>+</u>
[STE] DDA Slip Road S5 - Street Lighting	76	22-Mar-21	25-Jun-21	75	29-Mar-21	02-Jul-21	4 '											
DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	29-Mar-21	08-Apr-21	'			ļ				<u></u>	!!	paration by Desig	[
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	09-Apr-21	15-Apr-21	'			ļ		· · · · · · · · · · · · · · · · · · ·				aft - Final Review	w and prepare	for 1st Sub
DDA - 1st Sub	0	I	08-Apr-21	0	·'	15-Apr-21	''			l		·		♦	◆ DDA - 1s			
DDA - Review by SO	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	, '			l								Review by S
DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	16-Apr-21	13-May-21	, ,										DDA -	Review by I
DDA - Further information required by SO	12	07-May-21	21-May-21	12	14-May-21	28-May-21	;										·	<u>⊐</u> i['
DDA - 2nd Sub	0		21-May-21	0	'	28-May-21	;	······································										♦ []
DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	29-May-21	02-Jul-21	;	······										====================================
SUPPORTING UNDERGROUND STRUCTURE [SUS]	72	04-May-20	28-Jul-20	72	01-Mar-21	29-May-21	1 ']								
AIP SUS - Internal Structure	72	04-May-20	28-Jul-20	72	01-Mar-21	29-May-21	_ []]								
AIP - Draft - Preparation by Designer	72	04-May-20	28-Jul-20	72	01-Mar-21	29-May-21	1]								
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	247	17-Aug-20	18-Jun-21	200	06-Oct-20 A	10-Jun-21	H				· · · · · · · · · · · · · · · · · · ·				·····		· · · · · · · · · · · · · · · · · · ·	
DDA - C&C/LSELS Strutting & Dewatering +DCRA	0	19-Sep-20	19-Sep-20	32	10-Oct-20 A	18-Nov-20 A					· · · · · · · · · · · · · · · · · · ·							
DDA - 3rd Sub	0		,	0	,	10-Oct-20 A	1											
DDA - 3rd Review by SO	0		ļ	32	12-Oct-20 A	18-Nov-20 A	eview	wby SO										
DDA - SO Consent for Construction	0		19-Sep-20	0	,	18-Nov-20 A	nser	ent for Construction										
DDA - C&C/LS Base Slab & Associated Cast-in for TBM La	77	15-Sep-20	16-Dec-20	110	03-Nov-20 A	17-Mar-21		DDA - C&C/LS B	ase Slab & Associated Cast-in for T	BM Launc	hing			·				
DDA - Draft - Final Review and prepare for 1st Sub	12	15-Sep-20	28-Sep-20	8	03-Nov-20 A	11-Nov-20 A		w and prepare for 1st Sub										
DDA - 1st Sub	0		28-Sep-20	0	1	11-Nov-20 A				1				·i				
			<u>г</u>								' 			Date	Revision	ı Check		oproved
	Summary	J		~~ 4	~ / ~ A T		-						05-No		00V0	WYu		pioveu
Data Date: 28-Feb-21		J	$\pm ED/2^{\circ}$	۲0 <u>1</u>	3/04 1	runk P	102	ad 12 and Int	rastructure Wo	orks			18-De		00V0	WYu		
Actual Milestone		J	1		for F		'nn	nents at Sout	h Anron			BOUYGUES	22-Fe		01V0	SPa/LLo	WYu	
Actual Work		I.	1				PI	nems at oout				TRAVAUX PUBLICS			01\/1	SPa/LLo		

Baseline Milestone \diamond Baseline Bar

09-Apr-20

17-Jul-20 09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020						20
							December 29 06 13 20 21	January 7 03 10 17	Eel Fel 24 31 07	bruary 14	21	28	Mar 07
DDA - Review by SO	28	29-Sep-20	26-Oct-20	42	12-Nov-20 A	23-Dec-20 A	DDA -	Review by \$O				20	0/
DDA - Review by IP / DC	28	29-Sep-20	26-Oct-20	115	12-Nov-20 A	06-Mar-21	·						DDA - Re
DDA - Further information required by SO	14	27-Oct-20	11-Nov-20	39	24-Dec-20 A	10-Feb-21 A			¦	DA - Fur	ther infor	mation i	required by
DDA - 2nd Sub	0		11-Nov-20	0		10-Feb-21 A			◆ D	DA - 2nd	Sub		
DDA - 2nd Review by SO	35	12-Nov-20	16-Dec-20	35	11-Feb-21 A	17-Mar-21					·		¦¦
DDA - SO Consent for Construction	0		16-Dec-20	0		17-Mar-21							
DDA - LS Tympanum Structure for TBM Launching	172	17-Aug-20	15-Mar-21	156	06-Oct-20 A	17-Apr-21	· · · · · · · · ·						<u>+</u>
DDA - Draft - Preparation by Designer	63	17-Aug-20	31-Oct-20	60	06-Oct-20 A	15-Dec-20 A	DDA - Draft - Pr	eparation by Designer					
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Nov-20	28-Nov-20	20	16-Dec-20 A	11-Jan-21 A		DDA - Draft	Final Review and prepa	re for 1s	tSub		
DDA - 1st Sub	0		28-Nov-20	0		11-Jan-21 A		🔷 DDA - 1st Su	ıb				
DDA - Review by SO	28	29-Nov-20	26-Dec-20	17	12-Jan-21 A	28-Jan-21 A	······································		DDA - Review by	so			
DDA - Review by GEO via SO	28	29-Nov-20	26-Dec-20	17	12-Jan-21 A	28-Jan-21 A	·		DDA - Review by	GEO via	a SO		
DDA - Review by IP / DC	28	29-Nov-20	26-Dec-20	54	12-Jan-21 A	06-Mar-21	·						DDA - Re
DDA - Further information required by SO	36	28-Dec-20	08-Feb-21	35	29-Jan-21 A	13-Mar-21					¦¦		
DDA - 2nd Sub	0		08-Feb-21	0		13-Mar-21			◆				¢ C
DDA - 2nd Review by SO	35	09-Feb-21	15-Mar-21	35	14-Mar-21	17-Apr-21							+
DDA - SO Consent for Construction	0		15-Mar-21	0		17-Apr-21							♦
DDA - C&C/LSPermanent Structure	112	28-Jan-21	18-Jun-21	133	03-Nov-20 A	17-Apr-21			V				
DDA - Draft - Final Review and prepare for 1st Sub	24	28-Jan-21	27-Feb-21	8	03-Nov-20 A	11-Nov-20 A						DDA -	Draft - Fina
DDA - 1st Sub	0		27-Feb-21	0		11-Nov-20 A					\	DDA -	1st Sub
DDA - Review by SO	28	28-Feb-21	27-Mar-21	42	12-Nov-20 A	23-Dec-20 A	·						++
DDA - Review by IP / DC	28	28-Feb-21	27-Mar-21	115	12-Nov-20 A	06-Mar-21	·				¦¦		++ ,
DDA - Further information required by SO	36	29-Mar-21	14-May-21	63	24-Dec-20 A	13-Mar-21					¦¦		;;
DDA - 2nd Sub	0		14-May-21	0		13-Mar-21							•
DDA - 2nd Review by SO	35	15-May-21	18-Jun-21	35	14-Mar-21	17-Apr-21							
DDA - SO Consent for Construction	0	,	18-Jun-21	0		17-Apr-21							
DDA - LS Thrust Frame / Blocks for TBM Launching	126	15-Sep-20	18-Feb-21	177	03-Nov-20 A	10-Jun-21	· · · · · · · · · · · · · · · · · · ·		<u></u>		DDA - L\$	Thrust	Frame / Blo
DDA - Draft - Preparation by Designer	30	15-Sep-20	21-Oct-20	36	03-Nov-20 A	14-Dec-20 A	DDA - Draft - Pre	paration by Designer					
DDA - Draft - Final Review and prepare for 1st Sub	9	22-Oct-20	02-Nov-20	52		19-Feb-21 A				<u></u>	DDA - D	raft - Fii	nal Review
DDA - 1st Sub	0		02-Nov-20	0		19-Feb-21 A					DDA - 1	st Sub	
DDA - Review by SO	28	03-Nov-20	30-Nov-20	28	20-Feb-21 A	19-Mar-21					¦¦		<u></u>
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	20-Feb-21 A	19-Mar-21				¦			<u></u>
DDA - Further information required by SO	36	01-Dec-20	14-Jan-21	36	20-Mar-21	06-May-21		- - + - + + + + + + + + +					
DDA - 2nd Sub	0		14-Jan-21	0		06-May-21							
DDA - 2nd Review by SO	35	15-Jan-21	18-Feb-21	35	07-May-21	10-Jun-21				;	{		
SUB-SEA TBM TUNNEL	288	26-Jun-20	16-Jun-21	210	03-Oct-20 A	21-Jun-21	· · · · · · · ·				{}		
DDA - Sub-sea Tunnel - Precast Segment Lining + DCRA	0	29-Jul-20	29-Jul-20	15	03-Oct-20 A	20-Oct-20 A		-+-++					
DDA - 5th Review by SO	0			15	03-Oct-20 A	20-Oct-20 A		-+-++					
DDA - SO Consent for Construction	0		29-Jul-20	0		20-Oct-20 A		-+-++					
DDA - Special Segment for CP construction	140	30-Jul-20	15-Jan-21	191	21-Oct-20 A	16-Jun-21	· · · · · · · ·	DDA - S	pecial Segment for CP of	onstruct	ion		
DDA - Draft - Preparation by Designer	36	30-Jul-20	09-Sep-20	59	21-Oct-20 A	31-Dec-20 A	· · · · · · · · · · · · · · · · · · ·	DDA - Draft - Preparation	by Designer				
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	52	02-Jan-21 A	06-Mar-21				 :	;; ;		DDA - Dra
DDA - 1st Sub	0		09-Oct-20	0		06-Mar-21						•	DDA - 1st
DDA - Review by SO	28	10-Oct-20	06-Nov-20	28	07-Mar-21	03-Apr-21					- 		·
DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	28	07-Mar-21	03-Apr-21	+				;		
DDA - Further information required by SO	30	07-Nov-20	11-Dec-20	30	07-Apr-21	12-May-21					{}·		
DDA - 2nd Sub	0		11-Dec-20	0		12-May-21	♦			 !			
DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	35	13-May-21	16-Jun-21	·····	- - 		 !	{{ 		
DDA - Sub-sea Tunnel - TBM Confinement	132	02-Jan-21	16-Jun-21	132	02-Jan-21 A	16-Jun-21				 !	{{ !		<u></u>
DDA - Draft - Preparation by Designer	36	02-Jan-21	16-Feb-21	36	02-Jan-21 A	16-Feb-21 A				DE)A - Draft	- Prepa	aration by De
	1		1	1	1	1	L ' ' ' ' '		'		. 1	•	<u> </u>

Page 11 of 27 Data Date: 28-Feb-21 Milestone
 Planned Bar

Summary

Actual Work Baseline Milestone Baseline Bar

iticalActivity

tual Milestone

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

BOUYGUES TRAVAUX PUBLIC

larch					April			-			lay		
14	21	28		04	April 11	18	25	_	02	09	1ay 16	23	In
14	21	20	<u>}</u>	04	11	10	25	-	02	09	10	23	-
													j.
Review	by IP / D	С									1		į.
y SO													1-
			+ ¦										4-
						1					1		į.
	DA - 2nc	Rev	kiew	by SO		; ,							17
	!!												
🔶 D	DA - SO	Con	sen	t for Cor	struction	'n							į.
	- LS Ty	mna	¦	Structu	re for TF	M Laun	china						÷
▼ 00F		pa				,	2				¦		Į.
						1					1		÷.
											+		
	!		!										1
	i i			1					i i		i i		÷.
			+										÷
													Į.
	i i		ı İ	i i					i i		i .		÷.
ονίοω	by IP / D	с	+			¦							
													1
DDA -	Further	inforr	nati	ion requi	red by S	0			i .		i .		÷.
	2nd Sub												
	2110 301	, 	!										1
						DDA -	2nd F	۲e	iew by S	50	-		÷.
							soc		sent for	Constru	tion		
~						- DDA -	300						j.
			_			1			1	1	1		÷
nal Pov	iew and	nron	aro	for 1st S							+		1-
					ub 								Į.
											1		į.
			Λ.	Review	hy SO						+		÷
													1
		DD	A -	Review	by IP / C	C							į.
				·								urther i	n fr
	\		+ +										4-1
									1		DDA - 2	nd Sub	ł
	<u>;</u> ;		i								· · · · · · · · ·		- <u>i</u> -
	{												4-1
				. I I I	•						1		ł
Blocks fo	or TBM L	auno	chin	ά									71
													4-1
						1			1	1	1		ł
N and p	repare fo	or 1s	t Su	b					 !				1-
											+		
	:			: l					1		1		ł
	DDA - F	?evie	wb	v S0			;		i				1-
	!!		!										
	DDA - F		wb	y IP / DC					1		-		ł
	;;		<u></u> ;	i			<u></u>		<u></u>	DDA - F	urther in	ormatio	-¦- n r
			+ +										
	: :			[]						DDA - 2			ł
			i i										<u>-i-</u>
						1	1		1	1	1		;
													1
			+ 	+							+		4-1
				· · · · · · · · · · · · · · · · · · ·		1			1		-		ł
								- 1					1
			+ 								+		4-1
						1					-		
							[- 1 -					71
			tasi								+		-i-
Jiail - F	inal Rev	iew a	ina	prepare	IOF ISUS	au				1	-		ł.
st Sub													
			÷		Doulou								-1-1
					Review	, T							
				DDA -	Review	by IP / C	ÓC	1	}		{		71
												4	-¦-
						i)DA - Fui	therinic) _'_
						1				• [);DA - 2no	l Sub	
			 										
								_			i		
													÷
Docian				;							+		
Design						1			1	1	1		1
			г	Date	-	Revision			Check		٨٠٠٠	ovod	-
		<u> </u>								. u	Аррі	oved	_
		05	-No	ov-19	00V	0		W	/Yu				
		18	-De	ec-19	00V	1		W	/Yu				
S CS				b-20					Pa/LLo		WYu		-
cs /					01V								_
				or-20	01V	1		SI	Pa/LLo		WYu		
		17	-Ju	I-20	01V	2	T	SI	Pa/LLo		WYu		
				ct-20	01V				Pa/LLo		WYu		-
		100		~ 20	1010	-							

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020			2021	
						1	December January		ebruary	March	April May
DDA - Draft - Final Review and prepare for 1st Sub	24	17-Feb-21	16-Mar-21	24	17-Feb-21 A	16-Mar-21	29 06 13 20 27 03 10 17 24	31 07	14 21 28		8 04 11 18 25 02 09 16 23 0 hal Review and prepare for 1st Sub
DDA - 1st Sub	0		16-Mar-21	0		16-Mar-21				♦ DDA - 1st \$ub	
DDA - Review by SO	28	17-Mar-21	13-Apr-21	28		13-Apr-21	+			·	DDA - Review by \$O
DDA - Review by IP / DC	28	17-Mar-21	13-Apr-21	28		13-Apr-21	+				DDA - Review by IP / DC
DDA - Further information required by SO	24	14-Apr-21	12-May-21	_		12-May-21	+				DDA - Further inforr
DDA - 2nd Sub	0	(, , , , , , , , , , , , , , , , , , ,	12-May-21		•	12-May-21					◆ DDA - 2nd Sub
DDA - 2nd Review by SO	35	13-May-21	16-Jun-21	35		16-Jun-21					
DDA - Sub-sea Tunnel - Internal Structure	125	,	23-Nov-20		,		Sub-sea Tunnel - Internal Structure				┠╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋
DDA - Draft - Preparation by Designer	36	26-Jun-20	07-Aug-20								┠╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋╍╍╍┋
DDA - Draft - Final Review and prepare for 1st Sub	12	08-Aug-20	21-Aug-20					 DDA - Draft - Final	Review and prepare fo	r 1st Sub	····
DDA - 1st Sub	0	007.00	21-Aug-20 21-Aug-20			26-Jan-21 A	▲ D	DDA - 1st Sub			
DDA - Review by SO	28	22-Aug-20	18-Sep-20				Α		DDA - Rev	wiew by SQ	
DDA - Review by SO DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20				+	·	· · · · · · · · · · · · · · · · · · ·	DDA - Review by IP / DC	
DDA - Further information required by SO	20	19-Sep-20	19-Oct-20	15			+			DDA - Further informa	tion required by SO
DDA - 2nd Sub	0		19-Oct-20	0		11-Mar-21	+			DDA - 2nd Sub	
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20			15-Apr-21	+			· 	DDA - 2nd Review by SO
DDA - 210 Review by 30 DDA - SO Consent for Construction	0	20 00.22	23-Nov-20			15-Apr-21	+				◆ DDA - SQ Consent for Construction
DDA - SO CONSENT OF CONSIDERION DDA Tunnel - General Building Plan	54	24-Nov-20	23-1100-20 28-Jan-21	54		21-Jun-21			General Building Plan		
DDA - Draft - Preparation by Designer	30	24-Nov-20	30-Dec-20			21-Juli-21 22-May-21					DDA - C
DDA - Draft - Final Review and prepare for 1st Sub	24	31-Dec-20	28-Jan-21	24	•	22-way-21 21-Jun-21					
CROSS PASSAGE	174		14-May-21		,			4	······		CROSS PASSAC
DDA - Cross Passage - CP TBM Jacking Pipes	174		14-iviay-21	230					·····		DDA - Cross Passage - CP TBM Jacking Pipes
DDA - Cross Passage - CP This Jacking Pipes DDA - Draft - Preparation by Designer	48	10-Oct-20	05-Dec-20					<u> </u>	DDA - Draft - Pre	eparation by Designer	
DDA - Drait - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub	48	07-Dec-20	05-Dec-20 06-Jan-21	110							ew and prepare for 1st Sub
DDA - Drait - Final Review and prepare for 1st Sub	0	0/-DCC-20	06-Jan-21	0		09-Mar-21				DDA - Dfait - Final Revie	
DDA - Tst Sub DDA - Review by SO	28	07-Jan-21	06-Jan-21 03-Feb-21	28				<u></u>		· - · į́ - · · · · į́ - · · · · į́ - · · · · į́	DDA - Review by SO
						06-Apr-21		<u></u>			DDA - Review by SD DDA - Review by GEO via SO
DDA - Review by GEO via SO	28	07-Jan-21	03-Feb-21	28		06-Apr-21		<u></u>			DDA - Review by GEO via SO
DDA - Review by IP / DC	28	07-Jan-21	03-Feb-21	28		06-Apr-21					
DDA - Further information required by SO	30	04-Feb-21		30	-	12-May-21					DDA - Further inforr
DDA - 2nd Sub	25	14 Mar 21	13-Mar-21	0		12-May-21				····	DDA - 2nd Sub
DDA - 2nd Review by SO	35	14-Mar-21	17-Apr-21	35	,	16-Jun-21					
DDA - Cross Passage - CP TBM Confinement	80	07-Jan-21	17-Apr-21	83		22-Jun-21					DDA - Cross Passage - CP TBM Continement
DDA - Draft - Preparation by Designer	36	07-Jan-21	20-Feb-21	36		24-Apr-21					DDA :Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	22-Feb-21	20-Mar-21	24	1	25-May-21					
DDA - 1st Sub	0		20-Mar-21	0		25-May-21				·	◆ DDA
DDA - Review by SO	28	21-Mar-21	17-Apr-21	28	,	22-Jun-21				·	<mark>┆╶┊╴╴╴╴┊╴╴╴╴</mark> ┊╴╸╸╸┊╷╴╸╴┊╴╸╸╸┊╴╸╸╸┊╴╸╸
DDA - Review by IP / DC	28	21-Mar-21		28	,	22-Jun-21					
DDA - Cross Passage - CP TBM - DCRA	42	22-Mar-21	14-May-21			15-Jul-21	4				
DDA - Draft - Preparation by Designer	42	22-Mar-21	14-May-21		· · · j	15-Jul-21				20.8.20) Tomp Support for Ev	· · · · · · · · · · · · · · · · · · ·
DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp		10-Oct-20	26-Jan-21	89		26-Jun-21		DA - Cross Pass	sage - Traditional (UP28,	, 29 & 30) - Temp Support for Ex	
DDA - Draft - Preparation by Designer	42	10-Oct-20	28-Nov-20			29-Apr-21					DDA - Draft - Preparation by Design
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20		- · · · F	29-May-21					
DDA - 1st Sub	0	'	29-Dec-20			29-May-21					i
DDA - Review by SO	28	30-Dec-20	26-Jan-21	28	,	26-Jun-21					l
DDA - Review by GEO via SO	28	30-Dec-20	26-Jan-21	28	,	26-Jun-21					
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	28		26-Jun-21				· · · · · · · · · · · · · · · · · · ·	
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	-	22-Sep-20	22-Sep-20								
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	0	22-Sep-20	22-Sep-20			-					
DDA - Further information required by SO	0			32			A rther information required by SO				
DDA - 3rd Sub	0		,	0	J	21-Nov-20 A	,) Sub				
Page 12 of 27	Summary										Date Revision Checked Approved
Page 12 of 27 Data Date: 28-Feb-21	Julinia	J		201	0/01 T		2 TO and Infractructure \A	1		05	i-Nov-19 00V0 WYu
		I		2010	ð/04 I		Road T2 and Infrastructure W	OIKS		18	-Dec-19 00V1 WYu

ctual Milestone ctual Work

> seline Milestone Baseline Bar

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

BOUYGUES

S)
CS)

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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
		of the order	01121111011	54	orun	1 mildir	December January February March April May 20 01 12 02 14 02 14 02 14 02 14
DDA - 3rd Review by SO	0	ļ		46	23-Nov-20 A	07-Jan-21 A	29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 A DDA - 3rd Review by SO
DDA - Further information required by SO	0			19	08-Jan-21 A		
DDA - 4th Sub	0			0		29-Jan-21 A	
DDA - 4th Review by SO	0			20	30-Jan-21 A	18-Feb-21 A	
DDA - Further information required by SO	0			20	19-Feb-21 A	13-Mar-21	DDA -;Further information required by SO
DDA - 5th Sub	0			0	17100217	13-Mar-21	◆ DDA - 5th Sub
DDA - 5th Review by SO	0			35	14-Mar-21	17-Apr-21	DDA -5th Review by SO
DDA - SO Consent for Construction	0		22-Sep-20	0	14-10101-21	17-Apr-21	◆ DDA - SO Consent for Construction
EAST VENTILATION BUILDING [EVB]	112	19-Sep-20	04-Feb-21	243	03-Oct-20 A	30-Jul-21	▼ EAST VENTILATION BUILDING [EVB]
AIP EVB - Permanent Structure	0	19-Sep-20	19-Sep-20	131	03-Oct-20 A	12-Mar-21	
	0	19-3ep-20	19-3ep-20	26			
AIP - Further information required by SO AIP - 4th Sub	0			20	03-001-20 A	03-Nov-20 A	
AIP - 4th Sub AIP - 4th Review by SO	0			-	04 Nov 20 A		
, , , , , , , , , , , , , , , , , , ,	0			20	04-Nov-20 A		
AIP - Further information required by SO	0			63	27-Nov-20 A	11-Feb-21 A	
AIP - 5th Sub	0			0	10 5 4 01 4	11-Feb-21 A	A AIP - 5th Sub AIP - 5th Review by SO
AIP - 5th Review by SO	0		10.0	22	12-Feb-21 A	12-Mar-21	AIP - 5th Review by 50 ◆ AIP - SO Consent for DDA Submission
AIP - SO Consent for DDA Submission	0	01.0	19-Sep-20	0	10.11	12-Mar-21	
DDA - EVB - Permanent Structure (including Foundation)	82	21-Sep-20	30-Dec-20	83	13-Mar-21	25-Jun-21	DDA - EVB - Permanent Structure (including Foundation)
DDA - Draft - Preparation by Designer	36	21-Sep-20	04-Nov-20	36	13-Mar-21	28-Apr-21	DDA - Draft - Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	24	05-Nov-20	02-Dec-20	24	29-Apr-21	28-May-21	
DDA - 1st Sub	0		02-Dec-20	0		28-May-21	
DDA - Review by SO	28	03-Dec-20	30-Dec-20	28	29-May-21	25-Jun-21	
DDA - Review by IP / DC	28	03-Dec-20	30-Dec-20	28	29-May-21	25-Jun-21	
DDA - EVB - Tower Crane Foundation	82	21-Sep-20	30-Dec-20	83	13-Mar-21	25-Jun-21	DDA - EVB - Tower Crane Foundation
DDA - Draft - Preparation by Designer	36	21-Sep-20	04-Nov-20	36	13-Mar-21	28-Apr-21	DDA - Draft - Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	24	05-Nov-20	02-Dec-20	24	29-Apr-21	28-May-21	
DDA - 1st Sub	0		02-Dec-20	0		28-May-21	
DDA - Review by SO	28	03-Dec-20	30-Dec-20	28	29-May-21	25-Jun-21	
DDA - Review by IP / DC	28	03-Dec-20	30-Dec-20	28	29-May-21	25-Jun-21	
DDA EVB - Accommodation (SoA)	52	03-Dec-20	04-Feb-21	52	29-May-21	30-Jul-21	V DDA EVB - Accommodation (SoA)
DDA - Draft - Preparation by Designer	52	03-Dec-20	04-Feb-21	52	29-May-21	30-Jul-21	
DDA - EVB - Aesthetic Design	72	21-Sep-20	16-Dec-20	72	13-Mar-21	11-Jun-21	DDA - EVB - Aesthetic Design
DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20	48	13-Mar-21	13-May-21	
DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20	24	14-May-21	11-Jun-21	
TUNNEL E&M INSTALLATION & COMMISSIONING	197	08-Sep-20	12-May-21	203	21-Oct-20 A	30-Jun-21	▼ TUNNELE&M
AIP - Overall E&M Design	0	08-Sep-20	08-Sep-20	0	13-Nov-20 A	13-Nov-20 A	A
AIP - SO Consent for DDA Submission	0		08-Sep-20	0		13-Nov-20 A	A for DDA Submission
AIP - E&M Tunnel Ventilation Design	0	19-Sep-20	19-Sep-20	0	13-Nov-20 A	13-Nov-20 A	
AIP - SO Consent for DDA Submission	0		19-Sep-20	0		13-Nov-20 A	
DDA - E&M Tunnel Ventilation Design	161	21-Sep-20	10-Apr-21	183	14-Nov-20 A	30-Jun-21	♥ DDA - E&M Tunnel V¢ntilation Design
DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20	24	14-Nov-20 A	11-Dec-20 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20	64	12-Dec-20 A	03-Mar-21	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		16-Dec-20	0		03-Mar-21	
DDA - Review by SO	28	17-Dec-20	13-Jan-21	28	04-Mar-21	31-Mar-21	DDA - Review by SO
DDA - Review by IP / DC	28	17-Dec-20	13-Jan-21	28	04-Mar-21	31-Mar-21	DDA - Review by IP / DC
DDA - Further information required by SO	42	14-Jan-21	06-Mar-21	42	01-Apr-21	26-May-21	
DDA - 2nd Sub	0		06-Mar-21	0	· ·	26-May-21	
DDA - 2nd Review by SO	35	07-Mar-21	10-Apr-21	35	27-May-21	30-Jun-21	
AIP - E&M Air Purification System (WVB)	0	03-Oct-20	03-Oct-20	0	18-Nov-20 A	18-Nov-20 A	
AIP - SO Consent for DDA Submission	0		03-Oct-20	0		18-Nov-20 A	
		I					
Page 13 of 27	Summary	,				_	Date Revision Checked Approved

Page 13 of 27 Data Date: 28-Feb-21 lilestone

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

ticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							December January February March April May 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 2
DDA - E&M Air Purification System (WVB)	149	03-Oct-20	07-Apr-21	179	19-Nov-20 A	30-Jun-21	ZZ OC IS ZC ZI ZC OF IS ZI ZI <thzi< th=""> ZI ZI ZI<</thzi<>
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	31	19-Nov-20 A	24-Dec-20 A	DDA - Draft - Preparation; by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	30-Nov-20	12-Dec-20	53	26-Dec-20 A	03-Mar-21	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		12-Dec-20	0		03-Mar-21	◆ DDA - 1st;Sub
DDA - Review by SO	28	13-Dec-20	09-Jan-21	28	04-Mar-21	31-Mar-21	DDA - Review by SO
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	28	04-Mar-21	31-Mar-21	DDA - Review by IP / DC
DDA - Further information required by SO	42	11-Jan-21	03-Mar-21	42	01-Apr-21	26-May-21	
DDA - 2nd Sub	0		03-Mar-21	0		26-May-21	
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	35	27-May-21	30-Jun-21	
AIP - E&M Fire Services Installation	50	07-Oct-20	04-Dec-20	98	19-Nov-20 A	19-Mar-21	AIP - E&M Fire Services; Installation
AIP - Update & prepare for 2nd Sub	26	07-Oct-20	06-Nov-20	74	19-Nov-20 A	19-Feb-21 A	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		06-Nov-20	0		19-Feb-21 A	♦ AIP - 2nd Sub
AIP - 2nd Review by SO	28	07-Nov-20	04-Dec-20	28	20-Feb-21 A	19-Mar-21	AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		04-Dec-20	0		19-Mar-21	◆ AIP - SO Consent for DDA Submission
DDA - E&M Fire Services Installation	69	05-Dec-20	02-Mar-21	71	20-Mar-21	18-Jun-21	▼ DDA - E&M Fire Services Installation
DDA - Draft - Preparation by Designer	30	05-Dec-20	12-Jan-21	30	20-Mar-21	28-Apr-21	DDA - Draft - Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Jan-21	02-Feb-21	18	29-Apr-21	21-May-21	
DDA - 1st Sub	0		02-Feb-21	0		21-May-21	◆ DD.
DDA - Review by SO	28	03-Feb-21	02-Mar-21	28	22-May-21	18-Jun-21	
DDA - Review by IP / DC	28	03-Feb-21	02-Mar-21	28	22-May-21	18-Jun-21	
AIP - E&M MVAC	41	03-Oct-20	20-Nov-20	110	18-Nov-20 A	01-Apr-21	MVĄC
AIP - Update & prepare for 2nd Sub	18	03-Oct-20	23-Oct-20	86	18-Nov-20 A	04-Mar-21	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		23-Oct-20	0		04-Mar-21	AIP - 2nd Sub
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	05-Mar-21	01-Apr-21	AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		20-Nov-20	0		01-Apr-21	AIP - SO Consent for DDA Submission
DDA-E&M MVAC	49	21-Nov-20	20-Jan-21	49	07-Apr-21	04-Jun-21	▼ DDA - E&M MVAC
DDA - Draft - Preparation by Designer	32	21-Nov-20	30-Dec-20	32	07-Apr-21*	14-May-21	DDA - Draft
DDA - Draft - Final Review and prepare for 1st Sub	17	31-Dec-20	20-Jan-21	17	15-May-21*	04-Jun-21	
AIP - E&M Plumbing & Drainage System	45	28-Sep-20	21-Nov-20	78	13-Nov-20 A	18-Feb-21 A	M Plumbing & Drainage System
AIP - Update & prepare for 2nd Sub	22	28-Sep-20	24-Oct-20	49	13-Nov-20 A	12-Jan-21 A	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		24-Oct-20	0		12-Jan-21 A	♦ AIP - 2nd Sub
AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	37	13-Jan-21 A	18-Feb-21 A	AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		21-Nov-20	0		18-Feb-21 A	◆ AIP - SQ Consent for DDA Submission
DDA - E&M Plumbing & Drainage System	97	23-Nov-20	22-Mar-21	96	19-Feb-21 A	18-Jun-21	▼ DDA - E&M Plumbing & Drainage System
DDA - Draft - Preparation by Designer	24	23-Nov-20	19-Dec-20	24	19-Feb-21 A	18-Mar-21	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	21-Dec-20	12-Jan-21	17	19-Mar-21	12-Apr-21	DDA - Draft - Final Review and prepare for 1st Sul
DDA - 1st Sub	0		12-Jan-21	0		12-Apr-21	◆ DDA - 1st Sub
DDA - Review by SO	28	13-Jan-21	09-Feb-21	28	13-Apr-21	10-May-21	DDA - Review by
DDA - Review by IP / DC	28	13-Jan-21	09-Feb-21	28	13-Apr-21	10-May-21	DDA - Review by
DDA - Further information required by SO	32	10-Feb-21	22-Mar-21	32	11-May-21	18-Jun-21	
AIP - E&M Electrical Installation	77	21-Sep-20	22-Dec-20	137	21-Oct-20 A	10-Apr-21	▼ AIP - E&M Electrical Installation
AIP - Draft - Final Review and prepare for 1st Sub	12	21-Sep-20	06-Oct-20	71	21-Oct-20 A	15-Jan-21 A	AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0		06-Oct-20	0		15-Jan-21 A	◆ AIP - 1st Sub
AIP - Review by SO	28	07-Oct-20	03-Nov-20	24	16-Jan-21 A	08-Feb-21 A	AIP - Review by SO
AIP - Review by IP / DC	28	07-Oct-20	03-Nov-20	50	16-Jan-21 A	06-Mar-21	AIP - Řeview by IP / DC
AIP - Update & prepare for 2nd Sub	18	04-Nov-20	24-Nov-20	26	09-Feb-21 A	13-Mar-21	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		24-Nov-20	0		13-Mar-21	♦ AIP - 2nd Sub
AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	14-Mar-21	10-Apr-21	AIP - 2nd Review by \$0
AIP - SO Consent for DDA Submission	0		22-Dec-20	0		10-Apr-21	AIP - SO Consent for DDA Submission
DDA - E&M Electrical Installation	43	23-Dec-20	17-Feb-21	43	12-Apr-21	02-Jun-21	✓ DDA - E&M Electrical Installation
Page 14 of 27	Summary	1					Date Revision Checked Approve
Data Date: 28-Feb-21	,			0010		runk E	Load T2 and Infrastructure Works
					JU4 1		

Actual Milestone
 Actual Work

 \diamond

Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020				F 1			2021		i	A 11	Í	
							29 06	December 13 2	20 27 03	January 3 10 17	24 31	February 07 14	21	28	March 07 14	21 2	<u> </u>	April 1 18 2	5 02 09	May 16 23 0
DDA - Draft - Preparation by Designer	25	23-Dec-20	23-Jan-21	25	12-Apr-21*	11-May-21					-									DDA - Draft - Prepara
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	12-May-21	02-Jun-21						-;;; ;								· · · · · · · · · · · · · · · · · · ·
DDA CLP Submission - Power Supply to EVB & WVB	28	18-Feb-21	17-Mar-21	28	01-Mar-21	28-Mar-21						▼						Supply to EVB &		
DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	01-Mar-21	28-Mar-21					-++						DA - Review by			
AIP - E&M Tunnel Lighting Design	114	12-Oct-20	01-Mar-21	105	28-Nov-20 A	10-Apr-21	·			· · · ·	-++-					ighting Desigi				
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Oct-20	09-Nov-20	22	28-Nov-20 A	23-Dec-20 A			AlP - Draft - Fi	nal Review and pre	epare for 1st Sub	-¦								
AIP - 1st Sub	0		09-Nov-20	0		23-Dec-20 A			♦ A¦IP - 1st \$ub											
AIP - Review by SO	28	10-Nov-20	07-Dec-20	21	24-Dec-20 A	13-Jan-21 A					eview by SQ	-¦				·				
AIP - Review by IP / DC	28	10-Nov-20	07-Dec-20	73	24-Dec-20 A	06-Mar-21	¦							A	AIP - Review	by IP / DC				
AIP - Update & prepare for 2nd Sub	45	08-Dec-20	01-Feb-21	48	14-Jan-21 A	13-Mar-21					-+				AIP -	Update & pre	pare for 2nd Sub)		·
AIP - 2nd Sub	0		01-Feb-21	0		13-Mar-21								i i	🔶 AIP -	2nd Sub				
AIP - 2nd Review by SO	28	02-Feb-21	01-Mar-21	28	14-Mar-21	10-Apr-21					-++	-¦		·			A 1	P - 2nd Review b	y \$0	
AIP - SO Consent for DDA Submission	0		01-Mar-21	0		10-Apr-21					- + + +			> :			♦ A	P - \$0 Consent	or DDA Submissio	on
DDA - E&M Tunnel Lighting Design	57	02-Mar-21	12-May-21	57	12-Apr-21									V .						
DDA - Draft - Preparation by Designer	22	02-Mar-21	26-Mar-21	22	12-Apr-21*	07-May-21								·		·			DDA	- Draft - Preparation
DDA - Draft - Final Review and prepare for 1st Sub	12	27-Mar-21	14-Apr-21	12	08-May-21	22-May-21								·		·-{		3		DDA - C
DDA - 1st Sub	0		14-Apr-21	0		22-May-21	+							·				♦		◆ DDA - 1
DDA - Review by SO	28	15-Apr-21	12-May-21	28	23-May-21	19-Jun-21	+													
DDA - Review by 30 DDA - Review by IP / DC	20	15-Apr-21	12-May-21	20	23-May-21	19-Jun-21	+							· · · · · · · · · ·						
AIP - E&M CMCS	141	10-Nov-20	05-May-21	151	11-Dec-20 A	19-Jun-21								· · · · · ·					AIP - F	&M CMCS
AIP - Draft - Preparation by Designer	41	10-Nov-20	29-Dec-20	36	11-Dec-20 A	25-Jan-21 A	·			·	AIP Draft	Preparation by	Designer							
AIP - Draft - Final Review and prepare for 1st Sub	18	30-Dec-20	20-Jan-21		26-Jan-21 A	06-Mar-21				····					AIP - Draft - F	inal Review a	nd prepare for 1:	st Sub		
All - 1st Sub	0	30 DCC 20	20-Jan-21	0	20 3011217	06-Mar-21				····					AIP - 1st Sub					
All - Review by SO	28	21-Jan-21	17-Feb-21	28	07-Mar-21	03-Apr-21				····							AIP - Revi	ew by SO		
AIP - Review by 30 AIP - Review by IP / DC	28	21-Jan-21 21-Jan-21	17-Feb-21 17-Feb-21	28	07-Mar-21	03-Apr-21												ew by JP / DC		
AIP - Review by IP / DC AIP - Update & prepare for 2nd Sub	38	18-Feb-21	07-Apr-21	38	07-Mar-21	22-May-21						·····		·						
All - Optiale & prepare for 21th Sub AlP - 2nd Sub	30 0	10-Feb-21		30 0	07-Api-21							÷		·						▲ AIP - 01
AIP - 2nd Sub AIP - 2nd Review by SO	28	00 Apr 01	07-Apr-21	28	00 May 01	22-May-21										. {				✓ AIP - 21
	383	08-Apr-21 11-Jun-20	05-May-21 23-Sep-21		23-May-21 03-Oct-20 A	19-Jun-21 13-Jul-21						· · ·		·		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
SOUTH APRON EXTERNAL WORKS								 	 		 -++-	 				 -	 +	 	 	
Road S20	327	18-Aug-20	23-Sep-21	199	29-Oct-20 A	03-Jul-21	·		· · · · · · · · · · · · · · · · · · ·		-+	 -				 -	+	 		· · · · · · · · · · · · · · · · · · ·
	207	11-Nov-20	26-Jul-21	196	02-Nov-20 A	03-Jul-21				mn Toot										
CUE Pump Test	24	28-Nov-20	28-Dec-20	11	02-Nov-20 A	13-Nov-20 A				np rest										
CUE Excavation	48	29-Dec-20	26-Feb-21	52	14-Nov-20 A	16-Jan-21 A						i i 		CUE Exca		 -	· · · · · · · · · · · · · · · · · · ·	 		
CUE Typical Section & Entrance Structure	72	27-Feb-21	28-May-21	73	01-Feb-21 A	05-May-21								·						
CUE Entrance Section ELS (Sheet pile)	15	11-Nov-20	27-Nov-20	15	21-Apr-21	08-May-21						 		· · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				E Entrance Section E
CUE UU Installation (Fresh & Salt Water)	48	29-May-21	26-Jul-21	48	06-May-21	03-Jul-21														 ++
CUE RC Structure	0			75	01-Feb-21 A	07-May-21							Thursteel Class							
CUE Typical Section 10%	0			10	01-Feb-21 A	13-Feb-21 A							Typical Sec		+					
CUE Typical Section 20%	0			5		20-Feb-21 A						· · · · · · · · · · · · · · · · · · ·			1					
CUE Typical Section 30%	0			12	22-Feb-21 A	06-Mar-21				· · · · · · · · · · · · · · · · · · ·		1 1 1 1 			JUE Iypical	Section 30%	ol Chatter FOO(· · · · · · · · · · · · · · · · · · ·		
CUE Typical Section 50%	0			12	08-Mar-21	20-Mar-21						· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · ·			al Section 50%	Turking I O I'		
CUE Typical Section 60%	0			12	22-Mar-21	08-Apr-21						· · · · · · · · · · · · · · · · · · ·						Typical Section		2004
CUE Typical Section 80%	0			12	09-Apr-21	22-Apr-21						· · · · · · · · · · · · · · · · · · ·							Typical Section 8	
CUE Typical Section 100%	0	10.1	00.0	12	23-Apr-21	07-May-21				· · · · · · · · · · · · · · · · · · ·	-+	· · · · · · · · · · · · · · · · · · ·								Typical Section 1009
Road & Drain	327	18-Aug-20	23-Sep-21	193	29-Oct-20 A	25-Jun-21														
Stage 1	48	19-Aug-20	15-Oct-20	41	29-Oct-20 A	15-Dec-20 A						. I I I I I								
S20 Stage 1 (U channel, Catchpit, Gully)	24	19-Aug-20	15-Sep-20	21				nel, Catchpit, (. I I I I I								
S20 Stage 1 (Roadworks)	24	16-Sep-20	15-Oct-20	20	23-Nov-20 A			S20 S	tage 1 (Roadwork	S)										
S20 Stage 1 (U channel, Catchpit, Gully)	0				02-Nov-20 A															
S20 Stage 1 (U channel, Catchpit, Gully) 50%	0			6	02-Nov-20 A	07-Nov-20 A	Catchpit, Gu	illy) 50%							1					
Page 15 of 27	Summary																Date	Revision	Checked	Approved
Data Date: 28-Feb-21			FD/2	018	3/04 T	runk R	oad '	T2 an	d Infra	structur	e Work	s 🖊						0/00	WYu	
CriticalAdivity						_				_			RO		UES			00V1 01V0	WYu SPa/LLo	
					TOTI		nmor	nte at	South /							1 22	-Feb-20	111/()		WYu
Actual Milestone								ns ai	South /	Apron			TRAV	AUX P	UBLICS					
										-			TRAV	AUX P	UBLICS	09	-Apr-20	D1V1	SPa/LLo	WYu
Actual Work				Thr						⊲pron e (Feb-:	21)		TRAV	AUX P	UBLICS	09 17	-Apr-20 '-Jul-20			

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
		01V2 Otdit	01121111011	Du	orun	THIST	December January February March April May
S20 Stage 1 (U channel, Catchpit, Gully) 100%	0			6	09-Nov-20 A	14-Nov-20 A	29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 0 0 A hannel, Catchpit, Gully) 100%
S20 Stage 1 (Roadworks)	0			17		04-Dec-20 A	
S20 Stage 1 (Roadworks) 50%	0			9			D A Stage 1 (Roadworks) 50%
S20 Stage 1 (Roadworks) 100%	0			8			D A S20 Stage 1 (Roadworks) 100%
	154	18-Aug-20	23-Feb-21	166	16-Nov-20 A	10-Jun-21	
S20 Stage 2 Open cut excavation	6	16-Oct-20	22-Oct-20	90	16-Nov-20 A	06-Mar-21	
S20 Stage 2 (Sewerage)	16	23-Oct-20	11-Nov-20	92	23-Nov-20 A	16-Mar-21	
	30	12-Nov-20	16-Dec-20	105	25-Nov-20 A	07-Apr-21	
S20 Stage 2 (Watermain)	5	17-Dec-20	22-Dec-20	5	08-Apr-21	' 13-Apr-21	
	24	23-Dec-20	22-Jan-21	24	14-Apr-21	12-May-21	21 S20 Stage 2 (U cha
	24	23-Jan-21	23-Feb-21	24	13-May-21	10-Jun-21	
S20 Stage 2 (Sewerage)	0			42	3	04-Feb-21 A	
S20 Stage 2 (Sewerage) 50 %	0			34	14-Dec-20 A	25-Jan-21 A	A S20 Stage 2 (Sewerage) 50 %
S20 Stage 2 (Sewerage) 100 %	0			36	21-Dec-20 A	04-Feb-21 A	A \$20 Stage 2 (Sewerage) 100 %
S20 Stage 2 (Drainage)	1	18-Aug-20	18-Aug-20	35	05-Feb-21 A	20-Mar-21	
S20 Stage 2 (Drainage) 40%	0			6	05-Feb-21 A	12-Feb-21 A	A S20 Stage 2 (Drainage) 40%
S20 Stage 2 (Drainage) 80%	0			5	13-Feb-21 A	20-Feb-21 A	A S20 Stage 2 (Drainage) 80%
S20 Stage 2 (Drainage) 100%	0			6	01-Mar-21	06-Mar-21	1 S20 Stage 2 (Drainage) 100%
S20 Stage 2 (Watermain)	1	18-Aug-20	18-Aug-20	12	08-Mar-21	20-Mar-21	1 S20 Stage 2 (Watermain)
S20 Stage 1 (U channel, Catchpit, Gully)	0			48	22-Mar-21	22-May-21	21
S20 Stage 1 (U channel, Catchpit, Gully) 50%	0			12	22-Mar-21	08-Apr-21	1 \$20 Stage 1 (U channel, Catchpit, Gully) 50%
S20 Stage 1 (U channel, Catchpit, Gully) 100%	0			12	09-Apr-21	22-Apr-21	
S20 Stage 1 & 2 Pavement 50%	0			12	23-Apr-21	07-May-21	21 S20 Stage 1 & 2 Pavemei
S20 Stage 1 & 2 Pavement 100%	0			12	08-May-21	22-May-21	21 S20 Sta
Stage 3	173	24-Feb-21	23-Sep-21	160	07-Dec-20 A	25-Jun-21	
S20 Stage 3 ELS	35	24-Feb-21	09-Apr-21	63	07-Dec-20 A	24-Feb-21 A	A S20 Stage 3 ELS
S20 Stage 3 (Drainage)	42	20-May-21	09-Jul-21	89	15-Dec-20 A	08-Apr-21	
S20 Stage 3 (Sewerage)	32	10-Apr-21	18-May-21	69	21-Dec-20 A	17-Mar-21	1 S20 Stage 3
S20 Stage 3 (Watermain)	4	10-Jul-21	14-Jul-21	4	09-Apr-21	13-Apr-21	
S20 Stage 3 (UU Diversion)	12	15-Jul-21	28-Jul-21	12	14-Apr-21	27-Apr-21	
S20 Stage 3 (U channel, Catchpit, Gully)	24	29-Jul-21	25-Aug-21	24	28-Apr-21	27-May-21	
S20 Stage 3 (Roadworks)	24	26-Aug-21	23-Sep-21	24	28-May-21	25-Jun-21	
AMAWBC	40	11-Jun-20	29-Jul-20	40	01-Mar-21	20-Apr-21	
Drainage & Sewerage	40	11-Jun-20	29-Jul-20	40	01-Mar-21	20-Apr-21	
Section B	40	11-Jun-20	29-Jul-20	40	01-Mar-21	20-Apr-21	
Section B - ELS	18	11-Jun-20	03-Jul-20	18	01-Mar-21	20-Mar-21	1 Section B - ELS
Section B - Drainage	11	04-Jul-20	16-Jul-20	11	22-Mar-21	07-Apr-21	
Section B - Sewerage	11	17-Jul-20	29-Jul-20	11	08-Apr-21	20-Apr-21	1 Section B-Sewerage
	144	10-Aug-20	30-Jan-21	213	03-Oct-20 A	24-Jun-21	1 [STE] District Cooling System for AMAWBC Section 6B
DCS Section 6B	144	10-Aug-20	30-Jan-21	213	03-Oct-20 A	24-Jun-21	1 DCS Section 6B
DCS - Material Procurement for Section 6B	96	10-Aug-20	02-Dec-20	132	03-Oct-20 A	13-Mar-21	
DCS - Section C part 1	48	03-Dec-20	30-Jan-21	48	27-Apr-21	24-Jun-21	
	48	03-Dec-20	30-Jan-21	48	27-Apr-21	24-Jun-21	
	96	17-Dec-20	19-Apr-21	96	01-Mar-21	28-Jun-21	1 ▼ [STE] District Cooling System - Remaining Sect
	96	17-Dec-20	19-Apr-21	96	01-Mar-21	28-Jun-21	
	96	17-Dec-20	19-Apr-21	96	01-Mar-21	28-Jun-21	
	21	21-Jan-21	17-Feb-21	21	10-Apr-21	05-May-21	
Foot Bridge FB-02	72	02-Jan-21	30-Mar-21	72	01-Mar-21	29-May-21	
	72	02-Jan-21	30-Mar-21	72	01-Mar-21*	29-May-21	
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	175	05-Dec-20	14-Jul-21	147	11-Jan-21 A	13-Jul-21	
Page 16 of 27 Data Date: 28-Feb-21 Planned Bar Critical A divity Actual Milestone Actual Work Baseline Milestone Baseline Bar 	ummary		-		for D	evelo	Road T2 and Infrastructure Works opments at South ApronDateRevisionCheckedApprovedBOUYGUES TRAVAUX PUBLICS00V0WYu18-Dec-1900V1WYu12-Feb-2001V0SPa/LLoWYu09-Apr-2001V1SPa/LLoWYu17-Jul-2001V2SPa/LLoWYu17-Jul-2001V2SPa/LLoWYu17-Jul-2001V3SPa/LLoWYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish 2020					2021	i				
						December 29 06 13 20 27	January 03 10 17	24	February 31 07 14 21	28 07	March 14 21	28 04	April 11 18	25 02	May 09 16	23 0
TTA Phasing	0		05-Dec-20	0		11-Jan-21 A 🔷	TTA Phasing	9								
TMLG for XP validation	0		24-Dec-20	0		25-Jan-21 A 🔷		TMLC	G for XP validation							
XP validated	0		25-Jan-21	0		08-Feb-21 A		◇	XP validated							· · · ·
TMLG to TD for Approval	0		30-Jan-21	0		12-Feb-21 A		♦	TMLG to TD fo	r Approval						
TMLG Approved	0		19-Feb-21	0		20-Feb-21 A			🔅 TMLC	G Approved	· <mark> </mark>					
Roadworks advice from RMO for TTA Implementation	0		01-Mar-21	0		26-Feb-21 A		+	•		advice from RM0					
HBR / CYS / WCR Drainage Works	60	02-Mar-21	15-May-21	60	01-Mar-21	14-May-21		+			· <u>†</u> <u>(</u>	· · ·	<u></u>		HBP	R/CYS/WC
HBR / CYS / WCR Sub-base, Kerb line modication & Pavement Works	48	17-May-21	14-Jul-21	48	15-May-21	13-Jul-21	-+	++-			· †					· -
[STE] Road L10 (Northern)	0	-		124	23-Dec-20 A	29-May-21	-+	· †		+	· ¦					
CUE	0			124	23-Dec-20 A	29-May-21	- 	- + + -		+	· 					
CUE	0			124	23-Dec-20 A	29-May-21	-+	- +			- 1			 		1
CUE L10(N) ELS (Sheet pile) part 1 10%	0			64	23-Dec-20 A	13-Mar-21	- +	• + + -		4	CUE L'10(N) E	LS (Sheet pile) p	, part 1 10%	 		
CUE L10(N) ELS (Sheet pile) part 1 20%	0			12	15-Mar-21	27-Mar-21		• ‡					LS (Sheet pile) p	art 1 20%		
CUE L10(N) ELS (Sheet pile) part 1 40%	0			12	29-Mar-21	15-Apr-21		• †			· ¦) (N) ELS (Sheet	pile) part 1 40	%
CUE L10(N) ELS (Sheet pile) part 1 60%	0			12	16-Apr-21	29-Apr-21				+	·				0(N) ELS (She	
CUE L10(N) ELS (Excavation) part 1 10%	0			12	16-Apr-21	29-Apr-21								5	0(N) ELS (Exca]
CUE L10(N) ELS (Sheet pile) part 1 80%	0			12	30-Apr-21	14-May-21		· † † -			· 					1 10(N) FLS
CUE L10(N) ELS (Excavation) part 1 20%	0			12	30-Apr-21	14-May-21		· 		÷	· .					L10(N) ELS
CUE L10(N) ELS (Sheet pile) part 1 100%	0			12	15-May-21	29-May-21		• = = = = = = = = = = = = = =		+ <mark></mark>	· . · · · · · · · · · · · · · · · · · · ·					
CUE L10(N) ELS (Sheet pile) part 1 100 % CUE L10(N) ELS (Excavation) part 1 30%	0			12	15-May-21	29-May-21		• + + -				· · · · · · · · · · · · · · · · · · ·				
	159	10-Sep-20	24-Mar-21	12	12-Oct-20 A	12-Jun-21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·++			V [ן ומסחו האנ			
DEPRESSED ROAD [DPR]							 	· · · · · · · · · · · · · · · · · · ·			· •		μο [DF κ]			+
Excavation & Strutting	138	10-Sep-20	27-Feb-21	185	12-Oct-20 A	29-May-21				Excavation &			· · · · · · · · · · · · · · · · · · ·			
DPR - Pump wells & Pump test	36	10-Sep-20	23-Oct-20	83		20-Jan-21 A	· · · · · · · · · · · · · · · · · · ·	44-	np wells & Pump test							
DPR - CH6008-6080 - Excavation to Strut S1	21	24-Oct-20	18-Nov-20	57	16-Nov-20 A	23-Jan-21 A	· · · · · · · · · · · · · · · · · · ·		CH6008-6080 - Excavation to St		· · · · · · · · · · · · · · · · · · ·		 			+
DPR - CH5962-6008 - Excavation S1	24	24-Oct-20	21-Nov-20	63	01-Dec-20 A	18-Feb-21 A				CH 5962-6008 - E						
DPR - CH6080-6150 - Excavation to S1	18	24-Oct-20	14-Nov-20	55	15-Dec-20 A	23-Feb-21 A	· · · · ·		D	P <mark>R</mark> - CH6080-61	50 - Excavation to	o S1				
DPR - CH6008-6080 - Strut S1 Installation	12	19-Nov-20	02-Dec-20	26	25-Jan-21 A	26-Feb-21 A 🗖			· · · · · · · · · · · · · · · · · · ·	DPR - CH6008	-6080 - Strut S1	Installation				
DPR - CH6080-6150 - Strut S1 Installation	12	16-Nov-20	28-Nov-20	15	15-Feb-21 A	04-Mar-21				DPR-C	CH6080-6150 - St	rut S1 Installation	n			
DPR - CH6080-6150 - Excavation to S2	12	30-Nov-20	12-Dec-20	18	22-Feb-21 A	13-Mar-21				1	DPR-CH608	0-6150 - Excavat	tion to S2			
DPR - CH6008-6080 - Excavation to Strut S3	20	03-Dec-20	28-Dec-20	16	24-Feb-21 A	13-Mar-21				-l		8-6080 - Excavat				
DPR - CH6080-6150 - Strut S2 Installation	12	14-Dec-20	29-Dec-20	12	15-Mar-21	27-Mar-21				1 1		DPR - C.H608	0-6150 - Strut S2	Installation		+
DPR - CH6008-6080 - Strut S3 Installation	12	29-Dec-20	12-Jan-21	12	15-Mar-21	27-Mar-21						DPR-CH600	8-6080 - Strut S3	Installation		- +
DPR - CH6008-6080 - Excavation to FEL	7	13-Jan-21	20-Jan-21	7	29-Mar-21	09-Apr-21					· +		DPR - CH6008	VOOD Dunanual		
DPR - CH6080-6150 - Excavation to S3	12	30-Dec-20	13-Jan-21	12	29-Mar-21	15-Apr-21					· • • • • • • • • • • • • • • • • • • •		DPR - C	H6080-6150 - E	xcavation to S3	
DPR - CH6080-6150 - Strut S3 Installation	12	14-Jan-21	27-Jan-21	12	16-Apr-21	29-Apr-21		·····			· +			DPR - C	H6080-6150 -	Strut S3 Inst
DPR - CH6080-6150 - Excavation to S4	12	28-Jan-21	10-Feb-21	12	30-Apr-21	14-May-21							 		DPR	- CH6080-6'
DPR - CH6080-6150 - Strut S4 Installation	12	11-Feb-21	27-Feb-21	12	15-May-21	29-May-21				⊐			 			+
Open Cut Section (Ch5962-6008)	0			36	15-Feb-21 A	29-Mar-21					· +	· · · · · · · · · · · · · · · · · · ·	 			+
Excavation	0			5	15-Feb-21 A	20-Feb-21 A		+	Exca	vation	· +	· · · · · · · · · · · · · · · · · · ·	 			
Excavation	0			5	24-Mar-21	29-Mar-21		+				Excavation	1 1 			
Zone 1 (Ch6008 - 6045)	0			125	27-Oct-20 A	27-Mar-21		+			· · · · · · · · · · · · · · · · · · ·		1 1 4	 		
Dewatering Well Installation	0			123	27-Oct-20 A	14-Nov-20 A nstallation		·								
Excavation Stage 1 - below strut S1	0			33	14-Dec-20 A	23-Jan-21 A		Excava	tion Stage 1 - below strut S1							
Strut S1 installation (5 nos)	0			9	06-Feb-21 A	19-Feb-21 A				1 installation (5 i	nbs)			·		
Excavation to S3 - 3,600m ³	0			, , , , , , , , , , , , , , , , , , ,	24-Feb-21 A	08-Mar-21		·			cavation to S3 - 3	60.0m ³				
Strut S3 installation (5 nos)	0			7	11-Mar-21	18-Mar-21		++-				installation (5 nc	 ns)			
Excavation Stage 3 - FEL	0			8	11-Mar-21 19-Mar-21	18-Wai-21 27-Mar-21					Juur Jo	Excavation St		·		
	Ŭ							·			+		490 J - I LL			
Zone 2 (Ch6045 - 6080)	0			142 25	13-Oct-20 A	08-Apr-21		·			· +					
King Post Installation	0			25	13-Oct-20 A	11-Nov-20 A										
Dewatering Well Installation	0			8	12-INOV-20 A	20-Nov-20 A g Well Installation						<u> </u>			<u> </u>	
Page 17 of 27	Summary											Date	Revisio		ked Ap	proved
Data Date: 28-Feb-21			FD/2	018	8/04 T	runk Road T2 and Inf	rastructure	Wr	orks			05-Nov-19	00V0	WYu		
Critical A divity										OUYGU	ES	18-Dec-19	00V1	WYu	14.5.4	
Actual Wilestone					tor L	evelopments at Sout	n Apron		TR	AVAUX PUB	LICS	22-Feb-20	01V0	SPa/LLc SPa/LLc		
Saseline Milestone				_			-	_				09-Apr-20 17-Jul-20	01V1 01V2	SPa/LLC SPa/LLC		
Baseline Bar				Th	ree Mo	onths Rolling Program	me (Feb-2	21)				09-Oct-20	01V2 01V3	SPa/LLC SPa/LLC		
						<u> </u>	\	,				00 001-20	19140		1,44,14	

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020							20
							December 29 06 13 20 27	03	Janu 10	24	31	February 07 14	21	Ma 28 07
Excavation Stage 1 - below strut S1	0			63	01-Dec-20 A	18-Feb-21 A		00	10	27	51	Exc	cavatio	n Stage 1 - below s
Strut S1 installation (4 nos)	0			5	19-Feb-21 A	24-Feb-21 A		+-+		 			St	ut S1 installation (
Excavation to S3	0			7	09-Mar-21	16-Mar-21				 				
Strut S3 installation (4 nos)	0			7	19-Mar-21	26-Mar-21				 				
Excavation to FEL	0			7	27-Mar-21	08-Apr-21				 				
Zone 3 (Ch6080 - 6121)	0			147	23-Oct-20 A	24-Apr-21				 				
King Post Installation	0			19	23-Oct-20 A	14-Nov-20 A	tion			 				
Dewatering Well Installation	0			6	16-Nov-20 A	21-Nov-20 A	ng Well Installation			 				
Excavation Stage 1 - below strut S1	0			47	07-Dec-20 A	02-Feb-21 A		+-+		 	Ex	cavation Stage 1 - t	pelow s	trut S1
Strut S1 installation (4 nos)	0			5	02-Feb-21 A	06-Feb-21 A				 		Strut S1 installatio	on (4 n	ps)
Excv to below S2	0			8	22-Feb-21 A	02-Mar-21				 		•••••••••••••••••••••••••••••••••••••••		Excv to below
Strut S2 installation (4 nos)	0			7	03-Mar-21	10-Mar-21				 				Strut
Excavation to S3	0			7	11-Mar-21	18-Mar-21				 				
Strut S3 Installation (4 nos)	0			7	09-Apr-21	16-Apr-21				 				
Excv to FEL	0			7	17-Apr-21	24-Apr-21				 				
Zone 4 (Ch6121 - 6150)	0			144	09-Nov-20 A	07-May-21		+-+		 ·i-				
King Post Installation	0			10	09-Nov-20 A	19-Nov-20 A	stallation	+-+		 ;i-				
Dewatering Well Installation	0			8	20-Nov-20 A	28-Nov-20 A	Dewatering Well Installation			 				
Excavation Stage 1 - below strut S1	0			46	26-Dec-20 A	23-Feb-21 A		+-+		 			Exc	avation Stage 1 - b
Strut S1 installation (4 nos)	0			4	24-Feb-21 A	27-Feb-21 A				 				Strut \$1 installation
Excavation to below strut S2	0			7	01-Mar-21	08-Mar-21				 				Excava
Strut S2 installation (4 nos)	0			7	27-Mar-21	08-Apr-21				 				
Excavation to below strut S3	0			7	09-Apr-21	16-Apr-21				 				
Strut S3 installation (4 nos)	0			7	17-Apr-21	24-Apr-21				 				
Excavation to S4	0			2	26-Apr-21	27-Apr-21				 				
Strut S4	0			4	28-Apr-21	03-May-21				 				
FEL	0			4	04-May-21	07-May-21				 				
Permanent Structure	30	18-Feb-21	24-Mar-21	90	22-Feb-21 A	12-Jun-21				 		▼	(-	
DPR - Drainage, Watermains & UU Installation CH5962-6080	30	18-Feb-21	24-Mar-21	30	06-May-21	10-Jun-21		+		 ;;-			i !	
Open Cut Section (Ch5962-6008)	0			79	22-Feb-21 A	31-May-21		+		 ;;-				
Part 1 (Ch5962 - 5997)	0			53	22-Feb-21 A	28-Apr-21		*-*		 ;;-				
Blinding & Waterproofing	0			14	22-Feb-21 A	09-Mar-21		+- <u>i</u>		 ;;-				Blindi
Base Slab	0			12	10-Mar-21	23-Mar-21				 ;i-				
Drainage Works	0			10	11-Mar-21	22-Mar-21		+		 				
Retaining Wall	0			18	24-Mar-21	17-Apr-21				 				
Waterproofing and Backfilling	0			9	19-Apr-21	28-Apr-21				 				
Part 2 (Ch5997 - 6008)	0			48	30-Mar-21	31-May-21		+		 ;;-				
Blinding	0			9	30-Mar-21	13-Apr-21				 				
Base Slab	0			12	14-Apr-21	27-Apr-21				 ;;- , , , , , , , , , , , , , , , , , , ,				
Drainage Works	0			10	15-Apr-21	26-Apr-21				 		;;; 		
Retaining Wall	0			18	28-Apr-21	20-May-21				 ;;- , , , , , , , , , , , , , , , , , , ,		;;; 		
Waterproofing	0			9	21-May-21	31-May-21				 ;;-				
Zone 1 (Ch6008 - 6045)	0			51	29-Mar-21	02-Jun-21				 				
Blinding	0			9	29-Mar-21	12-Apr-21				 				
DCS Pipes	0			18	29-Mar-21	22-Apr-21				 i				
Base Slab	0			15	13-Apr-21	29-Apr-21			}					
SP Removal	0			6	28-Apr-21	05-May-21				 ,				
Strut S3 removal	0			6	30-Apr-21	07-May-21				 ,				
South Apron Adit Wall	0			21	08-May-21	02-Jun-21								
Blinding	0			6	08-May-21	14-May-21				 <u> </u>				
Page 18 of 27	Summary									 				

Page 18 of 27 Data Date: 28-Feb-21 anned Bar

alActivity Milestone ual Work eline Mileston

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Feb-21)

2021							_					
Aarch 14	21	28	04	April 11	18	25	4	02	09	ay 16	23	In
v strut S	21 51	20	04	11	10	25	Ŧ	UZ	07	10	23	Ľ
!							ł				 	÷
(4 nos)	''	+- 0				, 	Ę.					
<u> </u>	cavation	<u></u>				; ; ;					 	;_
	;	Strut S	3 installatio		1 1	1 1				1 1 1		
	,	+	È>	cavatio	on to FE	L		;				1
			· † -		i	 }						i-
		⊱ <u></u>	+		}	¦	ł					-
			·									÷
			+			¦ 						-
			; ; ;		; ;;	; }					, ; ;	;_
	· · · ·				ļ		li					:
w S2					 !							
ut S2 in	stallation	n (4 nos	;)			 ! !						1
	Excavatio		1		;; ;	;				;	; ; ;	÷
• •			·		Strut S3	 nsta	 ati	ion (4 m))			
					ut Ji	Exc	- I -	1			 	÷
	 	L	¦	L 		, ⊑XC\ 	י נ0 - -	/ EL 				
	 		<u> </u>			: 		j				÷
												j
			· · · · · · · · · · · · · · · · · · ·		·			;				Į.
below	strut S1		· · · · · · · · · · · · · · · · · · · 		i							÷
tion (4 r	''		++-			 '						
1	o below	strutso	$\frac{1}{1}$ $\frac{1}{1}$ -							¦	<u> </u> 	÷
	, vuoiovi , ''			ru# © ^ '	nstolle			·····			, , ,	÷
			אן ב <u>בבי</u> או ליייילי		installati	1	1					;-
			¦	<u> </u>	Excava							i.
			· · ·						ation (4 i	nos)		j
							Exc	avation	to S4			ſ
			· · · · · · · · · · · · · · · · · · · 		[i		· 4 4 ·	🔳 Stru	tS4			i-
			+				÷		FEL			ł
		ermana	nt Structure	، 							<u> </u> 	÷
	• P		.,. Ju UCIUI(; ;	4					-
	;		 				4			÷		-
	 		 							; ;	, , ,	Ļ
			· · ·				ľ					j
ding & V	Waterpro	ofing					1	;				
	I I I	se Slab	· · · · · · · · · · · · · · · · · · · 		i	r						i-
		inage W										÷
			<u> </u>		Retain	; inα \//·	all.					÷
			÷			, ny vv.		ator	sting	Do -1 0"		-
!	!		; ; ;;;		; 		٧V	aterpro¢	Jung and	Backfill	µ19	i-l
	 				 							Ļ
			<u> </u>	🗖 Bli	nding						 	jl
		F	· -			— I	Bas	se Slab			 ' '	2
		:	· 1 <u>1</u> - 		;i	🗖 Di	air	nage W¢	orks		; ; ;	1-
			++			 -	44			<u></u>	Retainin	d d
			÷				Ŧ					9
	·					, 				, ட		-
			<u></u>									-
				Blin				I				Ľ
			,			DCS P	Pipe	es :				
	i	[·				₿	Base Sla	b			;-
		÷	++-			 - <mark> </mark>	44	'	PRemo	val	+	ł
			$\frac{1}{\frac{1}{1}}$ = $\frac{1}{\frac{1}{1}}$ = -				F			s remova	+ 	÷
			÷		 	¦ 	-		Ju ul 33		r"	:-
								.				
					<u> </u>	1	Ľ	¢		Blinding]	<u>:</u>
			Date		Revisior	$\overline{}$	_	Check	ed	Ann	roved	-
			ov-19	о 00V			W			, vhh	5100	-
		-	ec-19	00V			W					-
			00-13	1000	1		v V h	ıu				

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

WYu

WYu

WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020									2021	-					
	/		1				29	December	20	27 0;		anuary 17	24 31	February 07 14	21	28	March 07 14 21 2	8 04	April 11 18	25	02	May 09 16	23 0
Zone 2 (Ch6045 - 6080)	0			51	13-Apr-21	12-Jun-21		00	20	21	J		27 .			20					02		
Blinding & Waterproofing	0		;	9	13-Apr-21	22-Apr-21	1													Blinding	& Waterpr	roofing	·i-
Base Slab	0	1	1	15	23-Apr-21	11-May-21	1			+-+			+				· · · · · · · · · · · · · · · · · · ·					🗖 🛛 Base Slab	·····
Strut S3 removal	0		1	6	12-May-21	18-May-21	1						 				·					Str.	ut S3 rem
South Apron Adit Wall	0		1	21	20-May-21	12-Jun-21	1										· · · · · · · · · · · · · · · · · · ·						<u> </u>
Zone 3 (Ch6080 - 6121)	0			30	26-Apr-21	01-Jun-21	1																,
Blinding & Waterproofing	0		1	9	26-Apr-21	06-May-21					1											linding & Water	proofing
Base Slab	0			15	07-May-21	25-May-21	Ι.							/*************************************									🗖 Bas
Strut S3 removal	0			6	26-May-21	01-Jun-21	Ι							/*************************************									·
Zone 4 (Ch6121 - 6150)	0			18	08-May-21	29-May-21																	
Blinding	0			9	08-May-21	18-May-21	[1	· · · · · · · · · · · · · · · · · · ·										Blir	nding
Base Slab	0		1	9	20-May-21	29-May-21	[· · · · · · · · · · · · ·
WEST VENTILATION BUILDING [WVB]	180	23-Oct-20	04-Jun-21	228	02-Nov-20 A	10-Aug-21	-																<u> </u>
ELS system & Foundation	180	23-Oct-20	04-Jun-21	228	02-Nov-20 A	10-Aug-21							+										
Mobilization & Predrilling for H-piles Foundation	48	23-Oct-20	18-Dec-20	50	02-Nov-20 A	31-Dec-20 A	-						for H-piles Found										
WVB - Sheet Piles Installation 50% completion	48	03-Dec-20	30-Jan-21	57	04-Jan-21 A	13-Mar-21											WVB - Sheet Piles	Installation 50	% completion	a ¦			
WVB - H-piles Drilling / Installation / Grouting 50% completion	66	19-Dec-20	12-Mar-21	66	01-Mar-21	22-May-21	1								;								WVB - I
WVB - Sheet Piles Installation 100% completion	48	01-Feb-21	31-Mar-21	48	15-Mar-21	14-May-21	1											+				WVB - \$	Sheet Pile
WVB - H-piles Drilling / Installation / Grouting 100% completion	66	13-Mar-21	04-Jun-21	66	24-May-21	10-Aug-21							+										
ELS System & Foundation	0			83	09-Nov-20 A	20-Feb-21 A	1						+										,
Sheet Pile Installation	0			83	09-Nov-20 A	20-Feb-21 A	1						+										,
Mobilization for Slurry Wall	0		1	6	09-Nov-20 A	14-Nov-20 A	lurry	y Wall															
WVB - Slurry Wall Construction learning curve	0		1	6	16-Nov-20 A	21-Nov-20 A	urry	y Wall Construction	learning cu	urve													
WVB - Slurry Wall Construction remaining	0		/	14	23-Nov-20 A	08-Dec-20 A		WVB - Sluri	ry Wall Co	nstruction r	remaining												
Mobilization for Sheet Pile Installation	0		1	33	23-Nov-20 A	02-Jan-21 A		· · · · · · · · · · · · · · · · · · ·		M	obiliżation	for Sheet I	Pile Installation										
WVB - Sheet Pile Installation 1st Layer	0		1	38	04-Jan-21 A	20-Feb-21 A	Τ.						·		WVB -	Sheet Pile	e Installation 1st Layer						, i !
SOUTH APRON ADIT	24	01-Apr-21	04-May-21	24	15-May-21	12-Jun-21					1							V		1		UTH APRON AD	ΠC
South Apron Adit - Sheet piling	24	01-Apr-21	04-May-21	24	15-May-21	12-Jun-21	1			+													<u> </u>
SUPPORTING UNDERGROUND STRUCTURE [SUS	24	20-Oct-21	16-Nov-21	24	03-May-21	31-May-21	1																,
Permanent Structure	24	20-Oct-21	16-Nov-21	24	03-May-21	31-May-21	1										· · · · · · · · · · · · · · · · · · ·				1		······
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	24	03-May-21*	31-May-21	1																
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	186	26-Nov-20	16-Jul-21	202	08-Oct-20 A	16-Jun-21							÷			;- ;- ;						·	P
Dwall & Ground Treatment	132	26-Nov-20	11-May-21	127	08-Oct-20 A	12-Mar-21			L- 				·				·				·····	🔫 Dwall & Gro	ound Trea
Shaft Dwall	37	26-Nov-20	11-Jan-21	48	08-Oct-20 A	03-Dec-20 A						Shaˈft Dwall		I I I I I I I I I I		,	· · · · · · · · · · · · · · · · · · ·					LL 	·
C&C/LS - Dwall & Barrettes 100%	37	26-Nov-20	11-Jan-21	48	08-Oct-20 A	03-Dec-20 A			^L - 1		C	C&Ç/LS - D	wall & Barrettes 1	00%			·				J		: <u> </u>
Cut & Cover / Cell 1 & 2	0			35	23-Oct-20 A	03-Dec-20 A			 1 1 1			· l	+	I I I I I I I I I I		·	· · · · · · · · · · · · · · · · · · ·			· - L	J		:
Dwall	0			35	23-Oct-20 A	03-Dec-20 A	1						· · · · · · · · · · · · · · · · · · ·	LL									
C2S-03	0			8	04-Nov-20 A	<u>12-Nov-20 A</u>	1					·		I I I I I I I I I									-
Grab Excavation	0		1	3	04-Nov-20 A	06-Nov-20 A					! ! !	·		I I I I I I I I I									
Cutter Excavation	0	1	1	3	07-Nov-20 A	10-Nov-20 A	1		L- 		!	·		I I I I I I I I I									
Cage Installation & Concrete	0	1	1	2	11-Nov-20 A	12-Nov-20 A	Con	ncrete				·		I I I I I I I I I I									
C2N-05	0			33	23-Oct-20 A	01-Dec-20 A	+					· L		I I I I I I I I I I									
Grab Excavation	0		1	6	23-Oct-20 A	30-Oct-20 A	1							I I I I I I I I I I									
Cutter Excavation	0		,	24	31-Oct-20 A	27-Nov-20 A	utter	r Excavation				·		I I I I I I I I I									
Cage Installation & Concrete	0		1	3	28-Nov-20 A	01-Dec-20 A		Cage Installation &	Concrete					I I I I I I I I I I									
C2S-05	0			9	19-Nov-20 A	28-Nov-20 A								I I I I I I I I I I									
Grab Excavation	0		1	3	19-Nov-20 A	21-Nov-20 A		ation						I I I I I I I I I									
Cutter Excavation	0		1	4	23-Nov-20 A	26-Nov-20 A								I I I I I I I I I I									
Cage Installation & Concrete	0		,	2	27-Nov-20 A	28-Nov-20 A	Cage	e Installation & Con	icrete			·		I I I I I I I								L L L	
		<i>i</i>						- L - L				1	L 11	I I	1			ļ	I	<u> </u>	· · · ·	i	·

Page 19 of 27
Data Date: 28-Feb-21

•	Milestone	V	Summary
	Planned Bar		
	CriticalActivity		

ne Mileston

Baseline Bar

٠

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

BOUYGUES TRAVAUX PUBLICS



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

Activity	Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020								2021				-	
								29 06	December 13 20	2	7 03	January 10 17	24 31	February 07 14	21	28	March 07 14	21 28	04	April 11 18 2	5 02 09	May 16 23 0
	C1-01	0			10	11-Nov-20 A	21-Nov-20 A															
	Grab Excavation	0			2	11-Nov-20 A	12-Nov-20 A															
	Cutter Excavation	0			5	13-Nov-20 A	18-Nov-20 A					 I I I I I I I I										
	Cage Installation & Concrete	0			3	19-Nov-20 A	21-Nov-20 A	tallation & Co		i		, I I I I I I I I							· · · · · · · · · · · · · · · · · · ·			
	C1-16	0			15	31-Oct-20 A	17-Nov-20 A					 										
	Grab Excavation	0			9	31-Oct-20 A	10-Nov-20 A					iii										
	Cutter Excavation	0			4	11-Nov-20 A	14-Nov-20 A															
	Cage Installation & Concrete	0			2	16-Nov-20 A	17-Nov-20 A	ion & Concre	te													
	C1-08	0			6	28-Oct-20 A	03-Nov-20 A															
	Cutter Excavation	0			2	28-Oct-20 A	29-Oct-20 A															
	Cage Installation & Concrete	0			4	30-Oct-20 A	03-Nov-20 A															
	C1-09	0			8	25-Nov-20 A	03-Dec-20 A															
	Grab Excavation	0			2	25-Nov-20 A	26-Nov-20 A	ib Excavatio	n			;;										
	Cutter Excavation	0			3	27-Nov-20 A	30-Nov-20 A	Cutter Exc	avation			;; 										
	Cage Installation & Concrete	0			3	01-Dec-20 A	03-Dec-20 A	Cage Ir	stallation & Co	ncrete	- +											
	DN-01	0			4	03-Nov-20 A	06-Nov-20 A				- + - +	,										
	Excavation	0			2	03-Nov-20 A	04-Nov-20 A				- +	,										
	Cage Installation & Concrete	0			2	05-Nov-20 A	06-Nov-20 A	le				, , , , , , , , , , , , , , , , , ,						 				
	BP-02	0			3	07-Nov-20 A	10-Nov-20 A															
	Excavation	0			1	07-Nov-20 A	07-Nov-20 A					 										
	Cage Installation & Concrete	0			2	09-Nov-20 A	10-Nov-20 A	ncrete					÷									
	Break-in Plug	24	13-Apr-21	11-May-21	45	16-Jan-21 A	12-Mar-21					;; 	÷							V	V	Break-in Plug
	Dwall / Barrettes - Setup & Rigs Demobilization	24	13-Apr-21	11-May-21	45	16-Jan-21 A	12-Mar-21						;; ;;			;						Dwall / Barrettes - Se
	B/I Plug	0			49	17-Nov-20 A	15-Jan-21 A									;						
	Break-in Plug Dwall Completion	0			0		15-Jan-21 A						n Plug Dwall Co			;						
	North SCM Wall	0			48	18-Nov-20 A	15-Jan-21 A									;						
	NR-01	0			7	18-Nov-20 A	25-Nov-20 A									;						
	Excavation	0			6	18-Nov-20 A	24-Nov-20 A	ration														
	Concrete	0			1	25-Nov-20 A	25-Nov-20 A															
	NR-02	0			7	01-Dec-20 A	08-Dec-20 A															
	Excavation	0			6	01-Dec-20 A	07-Dec-20 A		cavation			;; 										
	Concrete	0			1	08-Dec-20 A	08-Dec-20 A	I C	oncrete								· · · · · · · · · · · · · · · · · · ·					
	NR-07	0			7	12-Dec-20 A	19-Dec-20 A					 										
	Excavation	0			6	12-Dec-20 A	18-Dec-20 A		Exca	avation												
	Concrete	0			1	19-Dec-20 A	19-Dec-20 A		L Coi	ncrete												
	NR-06	0			5	11-Jan-21 A	15-Jan-21 A							· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				
	Excavation	0			4	11-Jan-21 A						🔲 Excavati										
	Concrete	0			1	15-Jan-21 A	15-Jan-21 A					Concre	te									
	NR-15	0				26-Dec-20 A							¦				·					
	Excavation	0				26-Dec-20 A				;	Excavatio		¦				· · · · · · · · · · · · · · · · · · ·	¦				
	Concrete	0				31-Dec-20 A					Concrete	x 1 1	¦				·····	¦				
	NR-05	0				02-Jan-21 A							¦					¦	· 			
	Excavation	0			5	02-Jan-21 A						Excavation										
		0			1	08-Jan-21 A					- - <u> </u> 	Concrete										
	South SCM Wall	0				17-Nov-20 A																
	NR-14	0				17-Nov-20 A						· · · · · · · · · · · · · · · · · · ·										
	Excavation	0				17-Nov-20 A						· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , ,								
	Concrete	0				23-Nov-20 A		:le						· · · · · · · · · · · · · · · · · · ·								
	NR-11	0				09-Dec-20 A			Evenuetic													
	Excavation	0			5	09-Dec-20 A	14-Dec-20 A		Excavatio			<u> </u>	<u> </u>		<u> </u>			<u> </u>				
Pa	ige 20 of 27 ♦ Milestone ▼	Summary																	Date	Revision	Checked	Approved
	ata Date: 28-Feb-21			FD/2	018	3/04 Ti	runk F	Road ⁻	Γ2 and	d In	frast	ructure	e Work	s /						00V0	WYu	
	Critical A divity														R	SUV	GUES	C		00V1	WYu SPa/LLo	WYu
	Actual Work					IOF L	evelo	pmen	ts at S	50U	iin A	oron			TRA	VAUX				01V0 01V1	SPa/LLo SPa/LLo	WYu WYu
	Saseline Milestone				- .			_	-											01V2	SPa/LLO SPa/LLo	WYu
	Baseline Bar				Ihr	ee Mo	onths I	≺olling	g Prog	grar	nme	(Feb-2	21)							01V3	SPa/LLo	WYu
										•		•	,								1	1



Activit	y Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020							-	2021		-				
								29 06	December 13	20 27	03	January 10 17	24	Februar 31 07 1	<u> </u>	28 0	March	21 2	8 04	April	18 25	02 09	May 16 23 0
	Concrete	0			1	15-Dec-20 A	15-Dec-20 A														10 20	02 07	
	NR-08	0			5	22-Dec-20 A	29-Dec-20 A						÷i-										
	Excavation	0			4	22-Dec-20 A	28-Dec-20 A				Excavation		÷										
	Concrete	0			1	29-Dec-20 A	29-Dec-20 A		-i - i	i I	Concrete												
	NR-10	0			7	29-Dec-20 A	06-Jan-21 A																
	Excavation	0			6	29-Dec-20 A	05-Jan-21 A					cavation											
	Concrete	0			1	06-Jan-21 A	06-Jan-21 A					Concrete							1				
	NR-12	0			6	16-Dec-20 A	22-Dec-20 A											· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
	Excavation	0			5	16-Dec-20 A	21-Dec-20 A			Excavation												 	
	Concrete	0			1	22-Dec-20 A	22-Dec-20 A			Concret												· · · · · · · · · · · · · · · · · · ·	
	NR-13	0			5	28-Dec-20 A	02-Jan-21 A																
	Excavation	0			4	28-Dec-20 A	31-Dec-20 A				Excavat												
	NR-13	0			1	02-Jan-21 A		.			NR-1	3											
	NR-09	0			5	07-Jan-21 A	12-Jan-21 A																
	Excavation	0			4	07-Jan-21 A						Excavation										¦	
	Concrete	0			1	12-Jan-21 A						Concrete	¦¦.							¦		¦	
	Separation Wall	0				20-Nov-20 A							¦							¦;			
	MW-01	0				20-Nov-20 A		huoti												¦			
		0			5	20-Nov-20 A					. . <u> </u>												
	Concrete	0			1	26-Nov-20 A		ncreie															
	MW-03	0				18-Dec-20 A			<u></u>														
	Excavation	0				18-Dec-20 A							+										
	Concrete MW-04	0				24-Dec-20 A				Conc													
		0				31-Dec-20 A					Ev	avation											
	Excavation	0				31-Dec-20 A																	
	Concrete MW-02	0				04-Jan-21 A					Co												
	Excavation	0				05-Dec-20 A 05-Dec-20 A			Excavation				¦¦-										·
	Concrete	0				11-Dec-20 A			Concrete														·
	Shaft Excavation & Strutting	186	26-Nov-20	16-Jul-21	202		16-Jun-21						++-										·
	C&C / LS - Interface Coring / Guide Wall Removal	48	26-Nov-20	23-Jan-21	95	08-Oct-20 A								C&C/LS - Interfac	e Coring/G	ude Wall Re	emoval			; i			
	C&C / LS Capping Beam / Pump Test - Lead Time	30	12-Jan-21	18-Feb-21	86	09-Nov-20 A					+-+		÷	·		C/LS Capp	, bing Beam /	Pump Test - I	ead Time				
	C&C Shaft - Concete Strutting Slab + Excavation Step 1	22	19-Feb-21	16-Mar-21	13															4 !		ep 1	·
	C&C Shaft - Concete Strutting Slab + Excavation Step 2	22	17-Mar-21	15-Apr-21	14	05-Feb-21 A	24-Feb-21 A						++-			1		1 1	<u> </u>	<u> </u>	C&C Shaft - Coi	ncete Strutting S	Slab + Excavation Ste
	Double Cells Shaft - Excavation - Stage 1 to below Concrete Strut	24	19-Feb-21	18-Mar-21	28	24-Feb-21 A	27-Mar-21						++- 			¦	· · · · · ¦ · · · · · ·	D	ouble Cells S	4 5		e 1 to below Co	
	C&C Shaft - Concete Strutting Slab + Excavation Step 3	22	16-Apr-21	12-May-21	22	25-Feb-21 A	22-Mar-21						++-			\	· 			{} ;	· · · · · · · · · · · · · · · · · · ·		C&C Shaft - Concet
	C&C Shaft - Concete Strutting Slab + Excavation Step 4	18	13-May-21	03-Jun-21	18	23-Mar-21	16-Apr-21						++-										
	Cell 1 & Cell 2 Concrete Strut Construction	14	19-Mar-21	08-Apr-21	14	29-Mar-21	17-Apr-21						++- 									Concrete Strut	
	C&C Shaft - Steel Strutting + Excavation Step 5	18	04-Jun-21	25-Jun-21	18	17-Apr-21	08-May-21						÷							; 🕻			
	Double Cells Shaft - Excavation - Step 2 to FEL	48	09-Apr-21	05-Jun-21	48	19-Apr-21	16-Jun-21	1				· · · · · · · · · · · · · · · · · · ·	i				· 			; 			
	C&C Shaft - Steel Strutting + Excavation Step 6	17	26-Jun-21	16-Jul-21	17	10-May-21	29-May-21						i-										
	Cut & Cover ELS	0			168	09-Nov-20 A	05-Jun-21																
	S1 Strutting Slab	0			60	09-Nov-20 A	21-Jan-21 A]									}					
	Pour 1 (Capping Beam & Strutting Slab S1) Part 1	0			26	09-Nov-20 A	08-Dec-20 A																
	North																						
	GW removal & Excavation to S1 soffit (BTP)	0			10	09-Nov-20 A							¦	 								· · · · · · · · · · · · · · · · · · ·	
	DN-02 to DN-04 Capping Beam formation (SAMMON)	0			8	12-Nov-20 A	20-Nov-20 A	DN-04 Capp	ing Beam for	mation (SA	1												
	DN-02 to DN-04 Formworks Erection (WKK)	0			4	03-Dec-20 A		DI 🗾 DI	N-02 to DN-0	4 Formwor	ks Erection	(WKK)	; ;;										
	South	0			18	16-Nov-20 A					. .		¦¦-							¦			
	DW1 & DW4 Wells Installation (LIWA)	0			1	16-Nov-20 A	16-Nov-20 A	ells Installat	ion (LIWA)	1					1								
P	age 21 of 27	Summary																	Date	F	Revision	Checked	Approved
	ata Date: 28-Feb-21			FD/2	01	8/04 Ti	runk R	soad .	T2 ar	nd In	fract	ructure		nrke 🚺					5-Nov-19	00V		٧Yu	
	CriticalActivity				.010		_			_					D	OUYG	IIEe	· · · · ·	B-Dec-19	00V		VYu	
	Actual Milestone					tor D	evelo	pmer	its at	Sou	th A	pron			TR	VAUX PL	JBLICS	/ /	2-Feb-20	01V		Pa/LLo	WYu
	Asseline Milestone					_			_			/ -)-Apr-20 '-Jul-20	01V 01V		Pa/LLo Pa/LLo	WYu WYu
	Baseline Bar				Th	ree Mo	onths F	Rollin	g Pro	grar	nme	(Feb-2	21)						-Jui-20)-Oct-20	01V		Pa/LLo	WYu
									-	-		`	,							19100	- IC		

Activity Name	Dur 01V2 Start	01V2 Finish	Dur Start	Finish	2020 2021
					December January February March April May 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23
GW removal & Excavation to S1 soffit (BTP)	0		3 21-Nov-20 A	24-Nov-20 A	emoval & Excavation to S1 soffit (BTP)
DS-02 to DS-04 Capping Beam formation (SAMMON)	0		6 25-Nov-20 A	01-Dec-20 A	DS-02 to DS-04 Capping Beam formation (SAMMON)
DS-02 to DS-04 Formworks Erection (WKK)	0		4 02-Dec-20 A	05-Dec-20 A	DS-02 to DS-04 Formworks Erection (WKK)
Overall	0	1	18 18-Nov-20 A	08-Dec-20 A	
OW1 Drilling Works (DrilTech)	0		4 18-Nov-20 A	21-Nov-20 A	ling Works (DrilTech)
Blinding Concrete	0				Blinding Concrete
Steel Fixing for Capping Beam & Strutting Slab	0				Steel Fixing for Capping Beam & Strutting Slab
Pour 1 Concreting	0			07-Dec-20 A	Pour 1 Concreting
Formwork removal & CJ cleaning	0			08-Dec-20 A	
Pour 2 (Gantry Beam)	0		46 09-Nov-20 A		
North	0		34 18-Nov-20 A		
Y2N Interface Core (ITF)	0			18-Nov-20 A	e Core (ITF)
GW removal & Excavation to Gantry Beam soffit (BTP)	0				
Gantry Beam & Y2N formation works (SAMMON)	0			18-Dec-20 A	
Blinding Concrete (WKK)	0			19-Dec-20 A	
Steel Fixing of Gantry Beam (BP)	0			26-Dec-20 A	
Formworks erection of Gantry Beam (WKK)	0			29-Dec-20 A	
South	0		44 09-Nov-20 A		
Zone B & D Sheet Pile installation up to cut off line (DARWIN)	0				eet Pile installation up;to cut off line (DARWIN)
OW16 Well Installation (FUGRO)	0				stallation (FUGRO)
Y2S Interface Core (ITF)	0			17-Nov-20 A	
ELS Waling & Struts Installation (BTP)	0			14-Dec-20 A	ELS Waling & Struts; Installation (BTP)
GW removal & Excavation to Gantry Beam soffit (BTP)	0			16-Dec-20 A	
Gantry Beam & Y2S formation works (SAMMON)	0			22-Dec-20 A	
Blinding Concrete (WKK)	0			22-Dec-20 A	
Steel Fixing of Gantry Beam (BP)	0			30-Dec-20 A	
Formworks erection of Gantry Beam (WKK)	0			31-Dec-20 A	
Overall	0		2 02-Jan-21 A		
Pour 2 Concreting (WKK)	0		1 02-Jan-21 A	02-Jan-21 A	L Pour 2 Concreting (WKK)
Pour 2 Formworks removal & CJ Cleaning (WKK & BTP)	0			04-Jan-21 A	Pour 2 Formworks removal & CJ Cleaning (WKK & BTP)
Pour 3 (Capping Beam & Strutting Slab S1) Part 2	0		50 20-Nov-20 A		
North	0		8 20-Nov-20 A	27-Nov-20 A	
GW removal & Excavation to S1 soffit (BTP)	0		5 20-Nov-20 A	24-Nov-20 A	emoval & Excavation to S1 soffit (BTP)
Capping Beam formation works (SAMMON)	0		3 25-Nov-20 A	27-Nov-20 A	apping Beam formation works (SAMMON)
South	0	<u> </u>	34 25-Nov-20 A	06-Jan-21 A	
GW removal & Excavation to S1 soffit (BTP)	0		4 25-Nov-20 A	28-Nov-20 A	GW removal & Excavation to S1 soffit (BTP)
Capping Beam formation works (SAMMON)	0		3 26-Nov-20 A	28-Nov-20 A	Capping Beam formation works (SAMMON)
ELS Removal at Zone C (DARWIN)	0		2 05-Jan-21 A	06-Jan-21 A	ELS Removal at Zone C (DARWIN)
Overall	0		13 06-Jan-21 A	21-Jan-21 A	
Blinding Conrete (WKK)	0		2 06-Jan-21 A	07-Jan-21 A	Blinding Conrete (WKK)
Backfilling & Formation	0		2 08-Jan-21 A	09-Jan-21 A	Backfiling & Formation;
Steel Fixing Pour 3 (BP)	0		4 11-Jan-21 A	14-Jan-21 A	Steel Fixing Pour, 3 (BP)
Pour 3 Concreting (WKK)	0		1 15-Jan-21 A	15-Jan-21 A	Pour 3 Concreting (WKK)
Concrete Strength Gain	0		3 16-Jan-21 A	18-Jan-21 A	Concrete Strength Gain
Cut & Cover Bulk Excavation Start	0		0 21-Jan-21 A		◆ Cut & Cover Bulk;Excavation Start;
Cut & Cover Bulk Excavation	0		108 21-Jan-21 A	05-Jun-21	
Excavation to below S2	0		15 21-Jan-21 A	04-Feb-21 A	Excavation to below S2
Strut S2 Construction	0			13-Feb-21 A	Strut \$2 Construction
Excavation to below S3	0		8 16-Feb-21 A	23-Feb-21 A	Excavation to below S3
Strut S3 Construction	0		11 24-Feb-21 A	06-Mar-21	Strut \$3 Construction
Page 22 of 27 Milestone	Summary				Date Revision Checked Approved
Data Date: 28-Feb-21	,		010/01 T	runk E	Road T2 and Infrastructure Works
CriticalAdivity					
Actual Milestone			for [Develo	pments at South Apron BOUYGUES TRAVAUX PUBLICS 22-Feb-20 01V0 SPa/LLo WYu SPa/LLo WYu SPa/LLo WYu
Actual Work ♦ Baseline Milestone					
Baseline Bar		-	Three Ma	onths F	Rolling Programme (Feb-21)
					Colling Flogramme (Feb-21)

Activity	Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		Г	2020 Decembe	r			lanu	1001			Fobru	anu			202 Marc				April		Í	May
								29	06	13	20	27	03	Janu 10		24	31 (Februa 17		21	28		4 21	28	04	April	25	02 09	May 16 23 0
	Excavation to below S4	0			11	08-Mar-21	19-Mar-21																Exca	vation to t	pelow S4				
	Permanent Strutting Slab S4	0			12	20-Mar-21	07-Apr-21																		P	ermanent Stru	tting Slal	\$4	
	Excavation to below S5	0			7	08-Apr-21	15-Apr-21					<u> </u>														Excav	ation to k	elow S5	
	Steel Strut S5	0			12	16-Apr-21	29-Apr-21																					Steel Strut S5	
	Excavation to below S6	0			9	30-Apr-21	11-May-21																						Excavation to below
	Steel Strut S6	0			12	12-May-21	26-May-21																						Ste
	Excavation to FEL	0			9	27-May-21	05-Jun-21																						
	Launching Shaft ELS	0			157	02-Nov-20 A	15-May-21																						
	Capping Beam	0			61	30-Nov-20 A	12-Feb-21 A								· · · ·														
	Cell 2	0			51	30-Nov-20 A	31-Jan-21 A						1		I I I														
	Pour 4 (South)	0			39	30-Nov-20 A									I I I														
	GW removal along PWCL for Pour 4,5 & 6	0			3	30-Nov-20 A	02-Dec-20 A		W remov	val along	PWCL	for Pour	4,5 & 6																
	Sheet Pile for pour 4,5 & 6	0			19	03-Dec-20 A	24-Dec-20 A					Sheet P	ile for po	ur 4,5 &	6														
	ELS Wailing & Struts for Pour 4,5 & 6	0			3	25-Dec-20 A	30-Dec-20 A					F E	ELS Wail	ng & Str	uts for Po	ur 4,5 &	6						· · · · · · · · · · · · · · · · · · ·						
	Dwall Breaking	0			6	31-Dec-20 A	07-Jan-21 A					÷ 🗖		Dwall Br	eaking														
	Trimming	0			2	08-Jan-21 A	09-Jan-21 A	1						Trimm	ning														
	Blinding concrete	0			1	09-Jan-21 A	09-Jan-21 A	1					l		ng concret								;						
	Steel Fixing	0			3	11-Jan-21 A	13-Jan-21 A	1						🗖 S	teel Fixing	a i				;			;						
	Formworks Erection	0			2	14-Jan-21 A	15-Jan-21 A	1				+-					ction								- ;				
	Concrete	0			1	16-Jan-21 A	16-Jan-21 A						i i		Concre	te							;		- ;				
	Pour 5 (North)	0			31	02-Dec-20 A	09-Jan-21 A	1									;												
	Excavation & GW Breaking	0			18	02-Dec-20 A	22-Dec-20 A				Ex	cavatior	n¦& GW E	reaking															
	Dwall Breaking / Trimming	0			6	23-Dec-20 A	31-Dec-20 A	1					Dwall Br	; eaking /	Trimming		;; ;								- 			+	
	Blinding concrete	0			1	02-Jan-21 A	02-Jan-21 A						Blindi	ig concr	ete		¦								- 				
	Steel Fixing	0			4	04-Jan-21 A	07-Jan-21 A							Steel Fix			;												
	Formworks Erection	0			2	07-Jan-21 A	08-Jan-21 A						: 🗖	Formwo	orks Erect	ion				1					- 				
	Concrete	0			1	09-Jan-21 A	09-Jan-21 A						1	Concr	ete	i									- 				
	Gantry Beam South	0	1	_	25	02-Jan-21 A	31-Jan-21 A	1							 		¦								- 				
	Dwall Breaking / Trimming	0			12	02-Jan-21 A	15-Jan-21 A								Dwall Br	eaking ((Trimming								- 				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Hand Trimming & Blinding	0			3	16-Jan-21 A						+	+		🗖 Han	nd Trimm	ning & Blind	ing							- 				$-\frac{1}{1}$
	Steel Fixing	0			4	20-Jan-21 A	23-Jan-21 A						+			Steel F	<u> </u>								- 				$-\frac{1}{1}$
	Formworks Erection	0			3	25-Jan-21 A	27-Jan-21 A						+			E F¢	ormworks Ei	ection	·						- 				
	Concrete	0			1	28-Jan-21 A	28-Jan-21 A						+		+		Concrete		·						- 				
	Concrete Strength Gain	0			3	29-Jan-21 A	31-Jan-21 A						+			¦	Concrete	Streng	jth Gain	1					- 				
	Cell 1 North	0				29-Dec-20 A							+		+										- 				
	Pour 8 & 9	0			31	29-Dec-20 A	03-Feb-21 A						+		+				·						- 				
	Sheet Pile for pour 8 & 9	0			3	29-Dec-20 A							\$heet P	e for po	ur 8 & 9				·						- 				
	Excavation & GW Breaking	0			16	02-Jan-21 A							· 		Ex	cavatio	n & GW Bre	aking	·						- 				
	Dwall Breaking / Trimming	0			2	21-Jan-21 A	22-Jan-21 A						+			Dwall Br	reaking / Tri	mming	·						- 				
	Blinding concrete	0			1	23-Jan-21 A		+					- 				ng concrete								- 				
	Steel Fixing	0			5	25-Jan-21 A		+					+				Steel Fixin	, ,				<u>t</u>			- +				
	Formworks Erection	0			3	30-Jan-21 A		+					- 				Formw		rection						- 				
	Concrete	0			1	03-Feb-21 A	03-Feb-21 A	+					+				Conc	rete							- 				
	Cell 1 South	0			35	02-Jan-21 A							+		1										- 1				
	Pour 7 & 10	0				02-Jan-21 A							·									1 1 1			- 1				
	GW removal	0				02-Jan-21 A							+	GW rem	oval							1 1 1			- 1				
	Sheet Pile for Pour	0			4	08-Jan-21 A		+						 Sh	neet Pile fo	or Pour						1 1 1			- 1				
	ELS Wailing & Struts	0			2	13-Jan-21 A		+					· 		ELS Waili	ng & Str	ruts					 			- 1				
	Dwall Breaking	0			8	15-Jan-21 A		+					+				Breaking												
	Blinding concrete	0			1	25-Jan-21 A		+					· 1			Blinc	ding concret	e ¦							- 1				
					I							1	1		<u>i i</u>		1 - 1	 	1	1			1		Det-	Derit	ion	Charles	Δ nn=
		Summary		/~					. –		-														Date ov-19	Revis 00V0		Checked NYu	Approved
Da	ta Date: 28-Feb-21			ED/2	2018	3/04 Tr	unk F	202	ad I	2 a	nd	Inti	rast	ruc	ture	VV	orks								ec-19	00V0		WYu	
	Actual Milestone				for D	evelo	nn	nent	<u>ר א</u>	t Se	out	h Δ	ากา	n				(BC	OUYG	UES			eb-20	01V0		SPa/LLo	WYu	
	Actual Work						ΡΠ		.5 0		Jul		5101						TRA	AUX P	UBLICS			pr-20	01V1		SPa/LLo	WYu	
	Baseline Milestone			The		ntha I		llina	D۳	~~r	~~~	ma		h^{0}	1)								17-J		01V2		SPa/LLo	WYu	
					1111	ee Mo		٦U	mig		ogr	alli	me	(- 6	50-Z	I)								09-C	oct-20	01V3		SPa/LLo	WYu
	1																											-	



Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							December January February March April May 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 0
Steel Fixing	0			11	26-Jan-21 A	06-Feb-21 A	29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 0 Steel Fixing
Formworks Erection	0			2	06-Feb-21 A		Formworks Erection
Concrete	0			1	09-Feb-21 A		Concrete
Concrete Strength Gain	0			3	10-Feb-21 A	12-Feb-21 A	Concrete Strengh Gain
Cell 1 & Cell 2 Excavation Bulk Excavation	0			157	02-Nov-20 A	15-May-21	
Remaining Wells Installation	0			73	02-Nov-20 A	28-Jan-21 A	Remaining Wells; Installation
Pump System Setup	0			6	29-Jan-21 A	04-Feb-21 A	Pump System Setup
Pumping Test	0			13	05-Feb-21 A	23-Feb-21 A	Purpping Test
Cell 1 & 2 Bulk Excavation Start	0			0	24-Feb-21 A		◆ Cell 1 & 2 Bulk Excavation Start
Excavation to +3.3mPD	0			12	24-Feb-21 A	09-Mar-21	Excavation; to +3.3mPD
Excavation to -10.2mPD	0			11	10-Mar-21	22-Mar-21	Excavation to -10.2mPD
Excavation to -14.75mPD	0			6	23-Mar-21	29-Mar-21	Excavation to -14.75mPD
Concrete Strut Construction	0			12	30-Mar-21	16-Apr-21	Concrete Strut Construction
Excavation to -21.25mPD	0			8	17-Apr-21	26-Apr-21	Excavation to -21.25mPD
Excavation to -26.45mPD	0			8	27-Apr-21	06-May-21	Excavation to -26.45mPD
Excavation to FEL	0			8	07-May-21	15-May-21	Excavation to Ft
Civil Works for TBMAssembly	0			12	17-May-21	31-May-21	
Launching Shaft RC Structure	0			12	17-May-21	31-May-21	
Base Slab	0			12	17-May-21	31-May-21	
Base Slab Pour 1	0			12	17-May-21	31-May-21	
Tympanum	0			12	17-May-21	31-May-21	
Tympanum Pour 1	0			12	17-May-21	31-May-21	
SUB-SEA TBM TUNNEL - WESTBOUND	361	18-Jun-20	03-Sep-21	271	02-Oct-20 A	01-Sep-21	
Precast Fabrication	180	09-Jan-21	19-Aug-21	192	24-Oct-20 A	21-Jun-21	
TBM Precast Segments	180	09-Jan-21	19-Aug-21	192	24-Oct-20 A	21-Jun-21	
Precast TBM Segment - Mass Production Start	0	09-Jan-21		0	24-Oct-20 A		Precast TBM Segment Mass Production Start
Precast TBM Segment - 3%	36	09-Jan-21	23-Feb-21	30		28-Nov-20 A	Precast TBM Segment - 3%
Precast TBM Segment - 6%	36	24-Feb-21	10-Apr-21	18	30-Nov-20 A	19-Dec-20 A	Precast TBM Segment - 6%
Precast TBM Segment - 10%	36	12-Apr-21	25-May-21	72	21-Dec-20 A	20-Mar-21	
Precast TBM Segment - 20%	36	26-May-21	08-Jul-21	36	22-Mar-21	07-May-21	
Precast TBM Segment - 30%	36	09-Jul-21	19-Aug-21	36	08-May-21	21-Jun-21	
Site Establishment	361	18-Jun-20	03-Sep-21	271	02-Oct-20 A	01-Sep-21	
Temporary CLP 132kV Substation	192	08-Dec-20	04-Aug-21	269	05-Oct-20 A	01-Sep-21	
Temp CLP 132kV Substation - CLP Access	0	08-Dec-20		0	05-Oct-20 A		◆ Temp CLP 132kV Substation - CLP Access
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192	08-Dec-20	04-Aug-21	252	27-Oct-20 A	01-Sep-21	
Precast Elements Storage Yard	84	18-Jun-20	25-Sep-20	84	01-Mar-21	12-Jun-21	
Precast Storage - Foundation	24	18-Jun-20	17-Jul-20	24	01-Mar-21*	27-Mar-21	Precast Storage - Foundation
Precast Storage - RC beam & Rail installation	24	18-Jul-20	14-Aug-20	24	29-Mar-21*	29-Apr-21	Precast Storage - RC beam & Rail
Precast Storage - Delivery & Assembly	36	15-Aug-20	25-Sep-20	36	30-Apr-21	12-Jun-21	
Segment Yard	0			72	01-Mar-21	29-May-21	
Foundation civil works 50%	0			12	01-Mar-21*	13-Mar-21	Foundation civil works 50%
Foundation civil works 100%	0			12	15-Mar-21	27-Mar-21	Foundation civil works 100%
RC Beam & Rail Installation 50%	0			12	29-Mar-21	15-Apr-21	RC Bearh & Rai Installation 50%
RC Beam & Rail Installation 100%	0			12	16-Apr-21	29-Apr-21	RC Bearh & Rail Installation 100%
Gantry Crane Assembly part 1	0			12	30-Apr-21	14-May-21	Gantry Crane Ass
Gantry Crane Assembly part 2	0			12	15-May-21	29-May-21	
Gantry Crane Setup for TBMAssembly	84	11-Mar-21	24-Jun-21	211	02-Oct-20 A	22-Jun-21	
Gantry Crane - Foundation	24	11-Mar-21	12-Apr-21	41	02-Oct-20 A	20-Nov-20 A	Garitry Crane - Foundation
Gantry Crane - RC beam & Rail installation	24	13-Apr-21	11-May-21	18	03-May-21*	24-May-21	Gantr
Gantry Crane - Delivery & Assembly	36	12-May-21	24-Jun-21	24	25-May-21	22-Jun-21	
	Summer -	·	1	1	1	1	Date Revision Checked Approved
Page 24 of 27 Pate Date: 28 Eab 21	Summary						
Data Date: 28-Feb-21			ED/2	.U10	5/U4 I	runk R	COAD IZ AND INITASTRUCTURE VVORKS
Actual Milestone					for D)evelo	pments at South Apron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
Actual Work							

Actual Work \diamond

♦ Baseline Milestone Baseline Bar

for Developments at South Apron

TRAVAUX PUBLICS

09-Apr-20

17-Jul-20 09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020				-			2021	Í	A 11			
							29	December	20 27	Janu 03 10	ary 17 24	31 07	bruary 14 21	28 07	March 14 21	28 04	April 11 18	25 02	May 09 16	23 0
Slurry Treatment Plant	96	12-May-21	03-Sep-21	134	25-Jan-21 A	12-Jul-21													V	
Slurry Treatment Plant - Civil works	36	12-May-21	24-Jun-21	36	13-Mar-21	28-Apr-21														·
Slurry Treatment Plant - Delivery & Assembly	24	10-Jun-21	09-Jul-21	24	15-Apr-21	13-May-21			 				· · · · · · · · · · · · · · · · · · ·					i i		
Slurry Treatment Plant - Installation	48	10-Jul-21	03-Sep-21	48	14-May-21	12-Jul-21	[· · · · · · · · · · · · · · · · · · ·							
Desanding Area	0			78	25-Jan-21 A	04-May-21														
Trench	0			10	25-Jan-21 A	04-Feb-21 A						Trench								
Slab	0			12	18-Feb-21 A	03-Mar-21								Slab						
Desanding Area 1 Wall 25%	0			12	04-Mar-21	17-Mar-21									Desandir	ig Area 1 Wall 25				+
Desanding Area 1 Wall 50%	0			12	18-Mar-21	31-Mar-21	ļ										g Area 1 Wall 50			
Desanding Area 1 Wall 75%	0			12	01-Apr-21	19-Apr-21	ļ			·							De:			
Desanding Area 1 Wall 100%	0			12	20-Apr-21	04-May-21					 	 	¦				; ;	De	sanding¦Area	I Wall100%
Water Treatment Plant	0			27	04-Mar-21	08-Apr-21				· · · · · · · · · · · · · · · · · · ·			¦	·			¦	·	, , ,	
Slab	0			10	04-Mar-21	15-Mar-21	ļ			· 			¦	·-{ <mark>-</mark>	Slab -+		¦ +			
Tank Assembly part 1	0			6	29-Mar-21*	08-Apr-21				· · · · · · · · · · · · · · · · · · ·			¦	·	-+		Tank Assembly p			
TANK 1 Area	0			22	13-Apr-21	08-May-21				· +			; ;	·	- 		<u></u> .		¦	++-
Slab	0			10	13-Apr-21	23-Apr-21	 										· · · · · · · · · · · · · · · · · · ·	Slab	Tork	
Tank Assembly part 1	0			12	24-Apr-21	08-May-21	 										 		Tank Assem	wy part 1
Filter Press Building Side	0			53	01-Mar-21	06-May-21	ļ			·					Tronch 50%					
Trench 50% Trench 100%	0			10 10	01-Mar-21 12-Mar-21	11-Mar-21								i i I	Trench 50%	ench 100%	i i	i i		
Slab	0			10	12-Mar-21 27-Mar-21	23-Mar-21 12-Apr-21				+				·		ench 100%	hal 2			
Wall FP 6	0			10	13-Apr-21	23-Apr-21												Wall FP 6		
Wall FP 5	0			10	24-Apr-21	06-May-21				· · · · · · · · · · · · · · · · · · ·				·					Wall FP 5	
Filter Press Sea Side	0			53	24-Apr-21 24-Mar-21	31-May-21				· · · · · · · · · · · · · · · · · · ·				·		·		+		
Trench 50%	0			10	24-Mar-21	08-Apr-21											Trench 50%			
Trench 100%	0			10	09-Apr-21	20-Apr-21										i i 🔽	Tr	ench 100%	i i	
Slab	0			10	24-Apr-21	06-May-21								· - <mark>·</mark>					Slab	
Wall FP 4	0			10	07-May-21	18-May-21													{·	Wall FP 4
Wall FP 3	0			10	20-May-21	31-May-21	+							·				+	{	·
TANK 2 Area	0			10	16-Mar-21	26-Mar-21	+						¦	·			+	+	 	
Slab	0			10	16-Mar-21	26-Mar-21	1			· · · · · · · · · · · · · · · · · · ·		+				Slab		+		
External Trenches	0			30	09-Apr-21	14-May-21	+			· · · · · · · · · · · · · · · · · · ·						+++		+		
Trench 30%	0			10	09-Apr-21	20-Apr-21												ench 30%		·
Trench 60%	0			10	21-Apr-21	03-May-21													nch 60%	
Trench 100%	0			10	04-May-21	14-May-21													Trenc	ch 100%
Mortar Plant	108	25-Mar-21	06-Aug-21	168	16-Nov-20 A	12-Jun-21									▼-			· · · · ·	(
Mortar Plant - Civil works	36	25-Mar-21	12-May-21	96	16-Nov-20 A	13-Mar-21				· · · · · · · · · · · · · · · · · · ·			· · ·	· · · · · · · · · · · · · · · · · · ·					🛑 Mortar F	Plant - Civil v
Mortar Plant - Installation	48	12-May-21	09-Jul-21	48	15-Mar-21	14-May-21										· · ·	· · ·			
Mortar Plant - Commissioning	24	10-Jul-21	06-Aug-21	24	15-May-21	12-Jun-21														
Mortar Plant	0			144	16-Nov-20 A	14-May-21					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·							· · · · · ·
Mixer Foundation civil works	0			7	16-Nov-20 A	23-Nov-20 A	Four	ndation civil works												
Silos Foundation civil works	0			8				s Foundation civil w		+					-+		; 			
batchers & Conveyors Civil works	0			9	01-Dec-20 A	10-Dec-20 A		batchers	& Conveyors C	ivil works										
Mixer & Silos Assembly 33%	0			31	07-Jan-21 A	15-Feb-21 A				¦				os Assembly 339			¦ 	¦	¦	
Mixer & Silos Assembly 66%	0			23	16-Feb-21 A	13-Mar-21							; ;	·	Mixer & Silos				¦	
Mixer & Silos Assembly 100%	0			12	15-Mar-21	27-Mar-21	l	-		· · · · · · · · · · · · · · · · · · ·	 	¦ 	; ;;	·	·	Mixer & Silos /				
Secatol & Aggregates Civil works 50%	0			9	29-Mar-21	12-Apr-21				· · · · · · · · · · · · · · · · · · ·								ggregates Civil w	!	
Batchers & Conveyors Assembly 33%	0			12	29-Mar-21	15-Apr-21												s & Conveyors A	¦	ko 1000/
Secatol & Aggregates Civil works 100%	0			y 10	13-Apr-21	22-Apr-21											· · · · · · · · · · · · · · · · · · ·	Secatol & Aggre		
Batchers & Conveyors Assembly 66%	0			12	16-Apr-21	29-Apr-21												Batcher	& Conveyors	Assembly oc
Page 25 of 27 \blacklozenge \blacklozenge Milestone \checkmark	Summary															Date	Revisio	-	ked Ap	oproved
Data Date: 28-Feb-21			FD/2	018	3/04 Ti	runk R	ໃດ	ad T2 a	nd Infi	rastruct	ture W	orks				05-Nov-19	00V0	WYu		
Critical A divity Actual Milestone		ED/2018/04 Trunk Road T2 and Infrastructure Works									R	OUYGU	ES	18-Dec-19 22-Feb-20	00V1 01V0	WYu SPa/LLo	WYu			
Actual Work		for Developments at South Apron										TRAVAUX PUBLICS 09-Apr-20 01V1 SPa/LLO WYL								
			Three Months Rolling Programme (Feb-21)												17-Jul-20	01V1	SPa/LLo			
Baseline Bar				In	ee Mc	nths F	< 0	pliing Pro	ogram	ime (⊦e	ep-21)					09-Oct-20	01V3	SPa/LLo		
										-	-						•			

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020						2021					
							29 06	December	27	03	January 10 17 24	February 31 07 14 21	28 07	March 14 21	28 04	April	25 02	May 09 1	6 23 0
Batchers & Conveyors Assembly 100%	0			12	30-Apr-21	14-May-21												Bat	chers & Conve
DG Store / Medical Lock	144	01-Dec-20	31-May-21	144	01-Dec-20 A	31-May-21	7	· 			- 								
Hyperbaric Intervention - LD consultation & Approval	144	01-Dec-20	31-May-21	144	01-Dec-20 A	31-May-21				- i				- <u>+</u> ; ;	·		;		<u>-</u> -
Barging Point at Portion P	96	29-Jul-20	20-Nov-20	81	14-Oct-20 A	20-Jan-21 A	pint at Portio	ı P											
Barging Point - Foundation	36	29-Jul-20	08-Sep-20	10	14-Oct-20 A	26-Oct-20 A													
Barging Point - Spoil Ramp Installation	36	09-Sep-20	22-Oct-20	51	27-Oct-20 A	26-Dec-20 A		· · · · · · · · · · · · · · · · · · ·			- Spoil Ramp Installation								
Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	20	28-Dec-20 A	20-Jan-21 A				· · · · · · · · ·		int - Cammissianing							
Barging Point Spoil Ramp Instalation	0			71	27-Oct-20 A	20-Jan-21 A		· j						· · · · · · · · · · · · · · · · · · ·		 		· · · · · · · · · · · · · · · · · · ·	
Barging Point - Foundation civil works	0			8	27-Oct-20 A	04-Nov-20 A	vil works	· · · · · · · · · · · · · · · · · · ·									[
Barging Point - Steel Column Installation	0			7	05-Nov-20 A	12-Nov-20 A	l Column Ins	tallation											
Barging Point - Steel Ramp Installation	0			7	13-Nov-20 A	20-Nov-20 A	pint - Steel R	amp Installation									[]]		
Barging Point - Noise Cover Frame Installation	0			26	21-Nov-20 A	21-Dec-20 A		Ba	rģing P	oint - Nois	e Cover Frame Installation								
Barging Point - Cover Installation	0			3	22-Dec-20 A	26-Dec-20 A					- Cover Installation								
Barging Point - Commissioning	0			20	28-Dec-20 A	20-Jan-21 A	I				Barging Po	int - Cammissianing				1 - I I I I		· · · · · · · · · · · · · · · · · · ·	
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	72	01-Feb-21	04-May-21	72	01-Mar-21	29-May-21						V		· · · · · · · · · · · · · · · · · · ·		I I I	- → S	UB-SEA TUNI	VEL CROSS I
CP TBM Design / Fabrication / FAT / Delivery	72	01-Feb-21	04-May-21	72	01-Mar-21	29-May-21								· • • • • • • • • • • • • • • • • • • •			V (P TBM Desigr	n / Fabrication
Place Order	72	01-Feb-21	04-May-21	72	01-Mar-21*	29-May-21									· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
CHA KWO LING ROAD WORKS	108	23-Jun-20	31-Oct-20	140	12-Oct-20 A	31-Mar-21										+			
Wai Yip Street / Cha Kwo Ling Road Junction	108	23-Jun-20	31-Oct-20	140	12-Oct-20 A	31-Mar-21	ad Junction									!! ! ! ! !			
WYS/CKLR Diversion of Pedestrian Walkway, relocation of Fire Hydrant	24	23-Jun-20	22-Jul-20	67	12-Oct-20 A	31-Dec-20 A					CLR Diversion of Pedestriar	Walkway, relocation of Fire Hyd	ant						
WYS/CKLR Demolition of Island, Laying of Gully Pipes & Street Light Ducting	21	23-Jul-20	15-Aug-20	40	05-Dec-20 A	23-Jan-21 A					WYS/C	KLR Demolition of Island, Laying	of Gully Pipes	& Street Light Du	ucting				
WYS/CKLR Construiction of New Road Crossing	18	17-Aug-20	05-Sep-20	16	25-Jan-21 A	11-Feb-21 A	1					WYS/CKLR Const	ruiction of New	v Road Crossing					
WYS/CKLR Setting of Oil Drum & Laying of Ducting for ATC	15	07-Sep-20	23-Sep-20	18	12-Feb-21 A	08-Mar-21	1								of Oil Drum & La	ying of Ducting fo	y ATC		
WYS/CKLR Removal of Planter, Set back road Kerb and relocation of gully	18	24-Sep-20	16-Oct-20	21	22-Feb-21 A	17-Mar-21	1							WYS/CK	(LR Removal of P				lly
WYS/CKLR Pavement works, Street Furniture & Road Lighting	12	17-Oct-20	31-Oct-20	12	18-Mar-21	31-Mar-21									WYS/CKI	R Pavement wo	rks, Street Furn	iture & Road Li	ighting
Section 8E Completion	0		31-Oct-20	0		31-Mar-21									Section 8	E Completion			
Wai Yip Street / Cha Kwo Ling Road Junction	0			123	02-Nov-20 A	31-Mar-21													
TTA Stage 6	0			15	02-Nov-20 A	18-Nov-20 A										1 1 1 1 1 1 1 1			
TTA Stage 5	0			21	19-Nov-20 A	12-Dec-20 A		TTA Stage 5								 			
TTA Stage 4	0			9	01-Dec-20 A			TTA Stage 4								· · · · · · · · · · · · · · · · · · ·			
TTA Stage 3-2 part 1	0			10	09-Dec-20 A			ATT TTA	S¦tage 3	-2 part 1						· · · · · · · · · · · · · · · · · · ·			
TTA Stage 3-2 part 2	0			33	21-Dec-20 A							TTA Stage 3-2 part 2							
TTA Stage 7 part 1	0			10	01-Feb-21 A							TTA Stage 7 pa							
TTA Stage 7 part 2	0			13	15-Feb-21 A	02-Mar-21							🗖 TTA Stag						
TTA Stage 10	0			16	17-Feb-21 A	06-Mar-21		·						Stage 10	·	, , , , , , , , , , , , , , , , , , ,			<u>+</u> <u>-</u> -
TTA Stage 8 part 1	0			9	03-Mar-21	12-Mar-21		·						TTA Stage 8 p	i l i	; ; ; ;			
TTA Stage 8 part 2	0			9	13-Mar-21	23-Mar-21								·	TA Stage 8 part 2	i i i i i			
TTA Stage 9	0			7	24-Mar-21	31-Mar-21								· · · · · · · · · · · · · · · · · · ·	TIA Stag				
DRILL & BREAK TUNNEL [D&BR]	34	05-Mar-21	17-Apr-21	34	15-May-21	25-Jun-21					· · · · · · · · · · · · · · · · · · ·		V				& BREAK TUN	INEL [D&BR]	
Tunnel Excavation	34	05-Mar-21	17-Apr-21	34	15-May-21	25-Jun-21				,			▼	 		Tunne	Excavation	·	
EB - D&Br Tunnel - CH9057-9040 Type D - Excavation	34	05-Mar-21	17-Apr-21	34	15-May-21	25-Jun-21				.						;;;			
DRILL & BLAST TUNNEL [D&BL]	174	17-Sep-20	22-Apr-21	194	02-Nov-20 A	30-Jun-21		· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,	 			 	 _			DRILL & BLAS	F TUNNEL [D8	BL]
Tunnel Excavation	174	17-Sep-20	22-Apr-21	194	02-Nov-20 A	30-Jun-21								· · · · · · · · · · · · · · · · · · ·		V	Tunnel Excavat	ion	
Eastbound	168	24-Sep-20	22-Apr-21	192	04-Nov-20 A	30-Jun-21								· · · · · · · · · · · · · · · · · · ·		V	Eastbound		
Full Face Drill & Blast	168	24-Sep-20	22-Apr-21	192	04-Nov-20 A	30-Jun-21								· · · · · · · · · · · · · · · · · · ·		V	Full Face Drill 8	Blast	
Probe hole at CH9220	1	24-Sep-20	24-Sep-20	1	04-Nov-20 A									-		 			
EB - D&BI Tunnel - CH9220-9190 Type A - Excavation	42	25-Sep-20	16-Nov-20	27	05-Nov-20 A			D&BI Tunnel - CI		9190 Type	A - Excavation								
Probe hole at CH9190	1	17-Nov-20	17-Nov-20	1	07-Dec-20 A		i	bbehole at CH91	90							· · · · · · · · · · · · · · · · · · ·			
EB - D&BI Tunnel - CH9190-9160 Type A - Excavation	13	18-Nov-20	02-Dec-20	43	08-Dec-20 A	29-Jan-21 A						EB - D&BI Tunnel - CH9190-9160	Туре А - Ехса	avation					

Page 26 of 27
Data Date: 28-Feb-21

Milestone
 Planned Bar

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

icalActivity

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

BOUYGUES TRAVAUX PUBLIC

S ICS)	

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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020	-									2021				
			1		/		20	Decembe	r	02	January		24	01	February	21	20	March	April 8 04 11 18 25	02	May	
Probe hole at CH9160	1	03-Dec-20	03-Dec-20	1	30-Jan-21 A	30-Jan-21 A	29 0	06 13	20 21	03	10	1/	24 F	-	07 14 ble at CH 9160		28	0/ 14 21 2	8 04 11 10 23	02	09 16	23 0
EB - D&BI Tunnel - CH9160-9130 Type A&B&C - Excavation	18		24-Dec-20		01-Feb-21 A	06-Mar-21		÷										EB - D&BI Tunnel - CH9160	9130 Type A&B&C - Excavation	4		÷
Probe hole at CH9130	1	28-Dec-20	28-Dec-20		08-Mar-21	08-Mar-21	+			++-					¹ 		· · · · · · · · · · · · · · · · · · ·	Probe hole at CH9130			 	÷
EB - D&BI Tunnel - CH9130-9100 Type C - Excavation	20	29-Dec-20	21-Jan-21	20	09-Mar-21	31-Mar-21				+	¦ 				 				EB - D&B Tunnel - CH9130-910	type C -	Excavation	÷
Probe hole at CH9100	1	22-Jan-21	22-Jan-21	1	01-Apr-21	01-Apr-21	+			+		• + • • • •			 				Probe hole at CH 9100		 	+
EB - D&BI Tunnel - CH9100-9070 Type C&D - Excavation	20	23-Jan-21	18-Feb-21	20		29-Apr-21						 			¦					EB - D&	BI Tunnel - CH9	100-9070 1
Probe hole at CH9070	1	19-Feb-21	19-Feb-21	1	30-Apr-21	30-Apr-21									¦						ole at CH 9070	·
EB - D&BI Tunnel - CH9070-9057 Type D - Excavation	11	20-Feb-21	04-Mar-21	11	03-May-21	14-May-21				+					 						EB - D	&BI Tunnel
EB - D&BI Tunnel - CH9150-9090 Type B/C - Enlargement	38	05-Mar-21	22-Apr-21	38		30-Jun-21	+											¦¦	· · · · · · · · · · · · · · · · · · ·			<u>+</u>
EB - D&BI Tunnel - CH9220-9190 Type A - Excavation	0			29	04-Nov-20 A	07-Dec-20 A																·····
EB - D&BI Tunnel - CH9220-9210 Type A - Excavation 40%	0			12	04-Nov-20 A	17-Nov-20 A	hnel -	CH9220-9210 T	ype A - Excavatio	on 40%												÷
EB - D&BI Tunnel - CH9210-9200 Type A - Excavation 80%	0	+	-	11	18-Nov-20 A	30-Nov-20 A	EB	- D&BI Tunnel - (÷
EB - D&BI Tunnel - CH9200-9190 Type A - Excavation 100%	0	+	-	5	01-Dec-20 A	05-Dec-20 A		EB - D&BI Tun		90 Type A	-Excava	ition 100)%									†
Probe hole at CH9190	0	+		1	07-Dec-20 A	07-Dec-20 A		Probe hole a		i i	i											÷
EB - D&BI Tunnel - CH9190-9160 Type A - Excavation	0			42	08-Dec-20 A	28-Jan-21 A				+												+
EB - D&BI Tunnel - CH9190-9175 Type A - Excavation 50%	0			15	08-Dec-20 A	26-Dec-20 A			EB [&Bl Tunh	el - CH919	90-9175	Туре А	Excava	tion 50%							·
EB - D&BI Tunnel - CH9175-9160 Type A - Excavation 100%	0	+		26			+		{	+			EB-	D&BI Ti	unnel - CH91			cavation 100%				·
Probe hole at CH9160	0	+		1	28-Jan-21 A	28-Jan-21 A							Prol	be hole	at CH 9160							·
EB - D&BI Tunnel - CH9160-9130 Type A&B&C - Excavation	0			89	29-Jan-21 A	22-May-21									 [1							+
EB - D&BI Tunnel - CH9160-9145 Type A&B&C - Excavation 50%	0	/		7	29-Jan-21 A	05-Feb-21 A				+		1 1 1	·	E	B - D&Bl Tur	nel - CH9 <mark>1</mark> 6	0-9145	Type A&B&C - Excavation 5	0%;		 	+
EB - D&BI Tunnel - CH9145-9135 Type A&B&C - Excavation 100%	0	++		22	06-Feb-21 A	06-Mar-21				+								EB - D&BI Tunnel - CH9145	9135 Type A&B&C - Excavation 10	00%		÷
EB - D&BI Tunnel - CH9135-9115 Type C - Bench Enlargement	0	++	1	12		20-Mar-21	+										 [EB - D&BI	Tunnel - CH9135-9115 Type C - Be		pement	÷
EB - D&BI Tunnel - CH9119-9100 Type C - Bench Enlargement	0	++	· ['	12		08-Apr-21													EB - D&BI Tunnel - CH9			Enlargem
EB - D&BI Tunnel - CH9103-9090 Type C - Bench Enlargement	0	++	1	12		22-Apr-21															- CH9103-909	
EB - D&BI Tunnel - CH9103-9075 Type C - Bench Enlargement	0	++	· ['	12		07-May-21																· •
EB - D&BI Tunnel - CH9103-9060 Type C - Bench Enlargement	0		·†'	12		22-May-21																B - D8
Westbound	90	17-Sep-20	06-Jan-21	186	,	21-Jun-21					stbound											
Full Face Drill & Break	0			168			+															
Full Face Drill & Break	0				02-Nov-20 A	3	+													 		
WB - D&Br CH9250-9249 Type A - Excavation	0			18		,	Br CH	9250-9249 Type	A - Excavation													
WB - D&Br CH9249-9248 Type A - Excavation	0	++	1	29	23-Nov-20 A				WB	- D&Br Cl												+
WB - D&Br CH9248-9247 Type A - Excavation	0		· ['	28									V	VB - D&	Br CH9248-9	247 Type A	- Excav	ation				·
WB - D&Br CH9198-9188 Type A - Excavation	0		· ['	12	15-Mar-21	27-Mar-21	+											!	B - D&Br CH9198-9188 Type A - Ex	avation		
WB - D&Br CH9188-9178 Type A - Excavation	0		· ['	12	29-Mar-21	15-Apr-21													WB - D&Br CH	4	Tvpe A - Excav	vation
WB - D&Br CH9178-9168 Type A - Excavation	0	++	· ['	12		29-Apr-21	+													- i	Br CH9178-916	
WB - D&Br CH9168-9158 Type A - Excavation	0	++	·′	12	· ·	14-May-21	+														<u></u> -k <u>-</u>	0&Br CH91
WB - D&Br CH9158-9148 Type A - Excavation	0	++	·′	12	15-May-21	29-May-21	+															
Full Face Drill & Blast	90	17-Sep-20	06-Jan-21	90	3	21-Jun-21				── ▼ Fµl	l Face Dri	ill & Blas	st									
WB- Blast Door Installation	24	17-Sep-20	16-Oct-20	24	01-Mar-21	27-Mar-21	+										·	W	B-Blast Door Installation			+
WB- D&BI start	0		16-Oct-20	0		27-Mar-21	+											◆ W	B- D&BI start			+
WB - D&BI Tunnel - CH9250-9230 Type A - Excavation	31	17-Oct-20	23-Nov-20		29-Mar-21	08-May-21	+														WB - D&BI Tu	innel - CH9
Probe hole at CH 9230	$\frac{1}{1}$	24-Nov-20	24-Nov-20		10-May-21	10-May-21	+														Probe hole	· •
WB - D&BI Tunnel - CH9230-9200 Type A - Excavation	34	25-Nov-20	06-Jan-21	34	11-May-21	21-Jun-21		<u></u>		÷												
Cross Passage	0	201101 21		12	01-Mar-21	13-Mar-21	+															
CP32	0		//	12	01-Mar-21	13-Mar-21																
CP32	0		//	12		13-Mar-21																
CP32 - D&BI Excavation 13.5m	0		· /	12		13-Mar-21	+										·	CP32 - D&BI Exca	vation 13.5m			
			·/					<u> </u>		<u> </u>		1		1	1		i					<u> </u>

Page 27 of 27 Data Date: 28-Feb-21

Milestone
 Summary
 Planned Bar

iticalActivity

Baseline Bar

ctual Milestone ctual Work aseline Milestone ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
$\langle \rangle$	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu

APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



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

Name of Department: CEDD Monthly Summary Waste Flow Table for 2021 (KT)

,	Actu	ual Quantitie	s of Inert C&	D Materials Ge	nerated Mon	thly	Actual C	Quantities of	C&D Wastes	s Generated	Monthly
Month	a.Total Quantity Generated (a=b+c+d+ e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	17.059	0.000	0.000	16.698	0.361	0.000	14.800	0.200	0.000	0.200	0.125
February	17.925	0.000	0.000	17.814	0.113	0.000	12.500	0.000	0.000	0.000	0.082
March											
April											
May											
June											
Sub-total	34.984	0.000	0.000	34.512	0.474	0.000	27.300	0.200	0.000	0.200	0.207
July											
August											
September											
October											
November											
December											
Total	34.984	0.000	0.000	34.512	0.474	0.000	27.300	0.200	0.000	0.200	0.207

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).