Civil Engineering and Development Department

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron (under EP-458/2013/C)

Monthly Environmental Monitoring and Audit Report for August 2020

(version 1.0)

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

REMARKS:

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

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

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Ref.: CEDKTDT2EM00_0_0103L.20

15 September 2020

By Post and E-mail

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

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (August 2020) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for August 2020 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 15 September 2020.

We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

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

Manson Yeung Independent Environmental Checker

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EXECUTIVE SUMMARY

Introduction

1. This is the 4th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of August 2020.

Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
 - East Portal Site Setup
 - East Portal Blast door (EB) installation completed.
 - Portal rock bolt installation completed.
 - Horizontal GI for EB completed.
 - CKL Junction Improvement Works
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Construction Noise

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

Air Quality

• Regularly watering on site to avoid dust generation.

Landscape and Visual

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

Environmental Monitoring Works

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

Tuble 1 100 complance (excedualce) record for the respect in the reporting from					
Environment al Monitoring		No. of Non-compliance (Exceedance)No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken	
-	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	0	0	0	0	N/A
Noise	0	0	0	0	N/A
Marine Water Quality	N/A	N/A	N/A	N/A	N/A
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	0	0	0	0	N/A

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

Air Quality Monitoring

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

Construction Noise Monitoring

- 8. No Action Level exceedance was recorded due to the documented complaints received in this reporting month. The Summary of Documented Complaints in Reporting Month is tabulated in Table III.
- 9. No Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month.

Water Quality Monitoring

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

Waste Management

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

Ecological Monitoring

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

Fisheries Impact Monitoring

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

Monitoring on Cultural Heritage

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

Landscape and Visual Monitoring and Audit

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

Landfill Gas Monitoring

18. Monitoring of landfill gases was commenced in December 2016. Such monitoring was conducted by the Contractor of Agreement No. CE 59/2015 (EP). No Limit Level exceedance was recorded.

Hazard to Life Monitoring

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

Environmental Site Inspection

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

Key Information in the Reporting Month

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

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

Event	Event Details		Action Taken	Status	
Event	Number	Nature	Action Taken	Status	
Complaints Received	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

21. Summary of complaints received in the reporting month is tabulated in Table III.

Table III Summary of Complaints Details in Reporting Month

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure	
	N/A	N/A	

Reporting Changes

22. No reporting change in the reporting month.

Future Key Issues

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

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

Site Activities (September 2020)	Key Environmental Issues
1. Tunnel blasting/excavation works	(A) / (B) / (C) / (D)
NL	

Note:

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

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

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

(D) Wastewater and runoff discharge from site.

1 INTRODUCTION

Background

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

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

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

- 1.4 Under Agreement No. CE 59/2015 (EP) Tseung Kwan O Lam Tin Tunnel (TKOLLT) and Associated Works, the baseline monitoring works in Lam Tin under the EM&A Manual (AEIAR-173/2013) were conducted by the Environmental Team (ET) for the Agreement No. CE 59/2015 (EP) at the approved monitoring locations, namely AM1, AM2, AM3, AM4, AM4 (A) CM1, CM2, CM3, CM4 and CM5. Impact monitoring within the Lam Tin area shall be conducted by the ET of Contract No. ED/2018/04 upon cessation of Agreement No. CE 59/2015 (EP). The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former

South Apron" (hereinafter called the "Project").

Purpose of the Report

1.6 This is the 4th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in August 2020.

Project Organizations

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

1 able 1.1	Key Hojeet Contacts		
Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Mr. Joe Nam	3742 3820
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		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

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

Construction Activities undertaken during the Reporting Month

- 1.10 The major site activities undertaken in the reporting month included:
 - East Portal Site Setup
 - East Portal Blast door (EB) installation completed.
 - Portal rock bolt installation completed.
 - Horizontal GI for EB completed.
 - CKL Junction Improvement Works

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;

- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in August 2020.

Status of Environmental Licensing and Permitting

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

 Table 1.2
 Summary of Environmental License and Permit

Downit / Licongo No	Valid Period		<u>States</u>			
Permit / License No.	From	То	Status			
Environmental Permit (EP)						
EP-451/2013	19 Sep 2013	N/A	Valid			
EP-458/2013/C	20 Jan 2017	N/A	Valid			
Notification pursuant to Air Pollution (Const	truction Dust) R	Regulation				
Ref. No.: 451120	20 Nov 2019	N/A	Valid			
Billing Account for Construction Waste Disp	Billing Account for Construction Waste Disposal					
A/C No.: 7036016	09 Dec 2019	N/A	Valid			
Construction Noise Permit						
CNP No. (For Portion T1): GW-RE0401-20	21 May 2020	20 Aug 2020	Expired on 20 Aug 2020			
CNP No. (For Portion T1): GW-RE0668-20	20 Aug 2020	19Nov 2020	Valid			
CNP No. (For Portion Q): GW-RE0337-20	08 May 2020	07 Nov 2020	Valid			
Wastewater Discharge License						
Nil						
Chemical Waste Producer License						
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid			

2 AIR QUALITY

Monitoring Requirement

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

Monitoring Locations

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

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

Table 2.1	Air Quality	Monitoring	Locations
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Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

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

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

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

Monitoring Equipment

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

by direct reading method.

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

Table 2.5 All Quality Monitoring Equipment				
Equipment	Model	Quantity		
1-hour TSP Dust Meter	Sibata Model No. LD-5R	3		
1-nour 151 Dust Weter	(Serial No.: 972778, 972779, 972777)	5		
	TISCH Model: TE-5170 (Serial No.: 1536)	1		
HVS Sampler	GMW model: GS2310	2		
	(Serial No.: 1287, 10379, 10599)	5		
Calibrator	TISCH Model: TE-5025A	1		
Calibrator	(Serial No.: 3746)	1		
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1		
wind Anemometer	(Serial No.: MC01010A44)	1		

 Table 2.3
 Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-5R)

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

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

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

Operating/analytical procedures for the operation of HVS

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

- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (Wellab Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than \pm 3°C; the relative humidity (RH) should be < 50% and not vary by more than \pm 5%. A convenient working RH is 40%.

Maintenance/Calibration

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

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

Results and Observations

- 2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3, AM4 and AM4 (A) are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report.
- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix D**.
- 2.15 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.
- 2.16 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.17 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road
AM2 – Sai Tso Wan Recreation Ground	N/A
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office	Road Traffic at Cha Kwo Ling Road

Table 2.4	Major Dust	Source during Ai	r Quality Monitoring
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Comparison of EM&A Result with EIA Prediction

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

Table 2.5	Comparison	of 1-hr TSP	P Monitoring Data	a with Predictions	in EIA Report
	001100110011				

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (August 2020), µg/m ³
AM1 – Tin Hau Temple	CL1	707	74.0
AM2 – Sai Tso Wan Recreation Ground	CL6	266	66.0
AM3 – Yau Lai Estate Bik Lai House	CL9	507	80.6
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	75.4

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (August 2020), µg/m ³
AM1 – Tin Hau Temple	CL1	199	115.6
AM2 – Sai Tso Wan Recreation Ground	CL6	109	43.4
AM3 – Yau Lai Estate Bik Lai House	CL9	123	60.1
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office ^(*)	N/A ⁽¹⁾	N/A ⁽¹⁾	43.3

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

Remarks:

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

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

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

3 NOISE

Monitoring Requirements

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

Monitoring Locations

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

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

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

Table 3.2Frequency and Parameters of Noise Monitoring

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

Monitoring Equipment

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

Equipment	Model	Quantity		
Integrating Sound Lavel Mater	SVAN 957 (Serial No.: 23851, 21455)	2		
Integrating Sound Level Meter	BSWA 308 (Serial No.: 570187)	1		
	SV30A (Serial No.: 10965)	1		
Calibrator	ST-120 (Serial No.: 181001608,	2		
	181001636)	Δ		

Table 3.3Noise Monitoring Equipment

Monitoring Methodology and QA/QC Procedure

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

Maintenance and Calibration

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

- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

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

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM4	Road Traffic at Cha Kwo Ling Road
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	
CM2	63.6	75
CM3	65.6	15
CM4	62.0	
CM5	68.2	70*

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 4.15 of EIA Report

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- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (August 2020), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	73.5
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	72.0
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	72.8
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	62.9
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	69.3

3.15 The results at CM1 was higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), this may be due to the traffic noise near Eastern Cross Harbour Tunnel Toll Plaza. However, the maximum Construction Noise Level after baseline level correction, which is 73 dB(A), was equal to the maximum predicted noise level in the EIA Report for Station CM1. The results at CM2, CM3, CM4 and CM5 were lower than the maximum predicted noise level in the EIA Report. No Action / Limit level exceedance was recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

Groundwater Quality

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

Marine Water Quality

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

Groundwater Level Monitoring (Piezometer Monitoring)

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

5 WASTE MANAGEMENT

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

6 ECOLOGY

Post-Translocation Coral Monitoring

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

7 FISHERIES

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

8 CULTURAL HERITAGE

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

Mitigation Measures for Cultural Heritage

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

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

9 LANDSCAPE AND VISUAL IMPACT

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

10 LANDFILL GAS MONITORING

Monitoring Requirement

- 10.1 In accordance with Section 10.1.1 of the EM&A Manual (AEIAR-173/2013), monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. This section presents the results of landfill gas measurements performed by the Contractor of Agreement No. CE 59/2015 (EP). Appendix A shows the Limit Levels for the monitoring works.
- 10.2 The "Landfill Gas Monitoring Proposal", including the monitoring programme and detailed actions, is submitted to the EPD for approval. Details of monitoring in this Proposal is in line with the monitoring requirements stipulated in the EM&A Manual.

Monitoring Parameters and Frequency

- 10.3 Monitoring parameters for Landfill gas monitoring include Methane, Carbon dioxide and Oxygen.
- 10.4 According to the implementation schedule and recommended mitigation measures of the EM&A Manual, measurements of the following frequencies should be carried out:

Excavations deeper than 1m

• at the ground surface before excavation commences;

- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically throughout the working day whilst workers are in the excavation.

Excavations between 300mm and 1m deep

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

For excavations less than 300mm deep

• monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person

Monitoring Locations

10.5 Monitoring of oxygen, methane and carbon dioxide was performed for excavations at 1m depth or more within the Consultation Zone.

Monitoring Equipment

10.6 **Table 10.1** summarizes the equipment employed by the Contractor of Agreement No. CE 59/2015 (EP) for the landfill gas monitoring.

Table 10.1Landfill Gas Monitoring Equipment

Equipment	Model and Make	Quantity
	ALTAIR 5X	
Portable gas detector	Multigas Detector	1
	(Serial No. 152097)	

Results and Observations

10.7 In the reporting month, landfill gas monitoring was carried out by the Contractor of Agreement No. CE 59/2015 (EP) on 125 occasions. No Limit Level exceedance for landfill gas monitoring was recorded in the reporting month. The monitoring results are provided in Appendix K. Copies of calibration certificates are attached in Appendix B.

11 HAZARD TO LIFE

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

12 ENVIRONMENTAL AUDIT

Site Audits

12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in Appendix I.

12.2 Site audits were conducted on 06, 13, 20, & 27 August 2020 in the reporting month. Site inspection of the IEC was conducted on 13 August 2020. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

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

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	N/A	There was no observation in the reporting period.	N/A
Noise	23 July 2020	Moveable noise barrier shall be provided to reduce the noise nuisance generated from breaker.	Due to the limitation of spacing, contractor has erected the noise barriers at the most particular location between noise source and sensitive receiver.
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

- No documented complaint on construction noise was received; no Action Level exceedance for construction noise was recorded.
- No Action/Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Landfill Gas Monitoring

• No Limit Level exceedance for landfill gas monitoring was recorded.

13 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

13.2 The summary of exceedance record in the reporting month is shown in Appendix N.

14 FUTURE KEY ISSUES

- 14.1 Tentative construction programmes for the next three months are provided in Appendix O.
- 14.2 Major site activities undertaken for the coming months are summarized as follows:
 - Tunnel blasting/ excavation works
- 14.3 Key environmental issues in the coming months include:
 - Make sure noise mitigation measures are implemented accordingly; and
 - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain.

Monitoring Schedule

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

15 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

15.1 This is the 4th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

- 15.2 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 15.3 No Action/Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

15.4 No Action/Limit Level exceedance was recorded for all noise monitoring in the reporting month.

Landfill Gas Monitoring

15.5 Monitoring of landfill gases in the reporting month was carried out by the Contractor of Agreement No. CE 59/2015 (EP). No Limit Level exceedance was recorded.

Site Audit

15.6 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

Recommendations

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

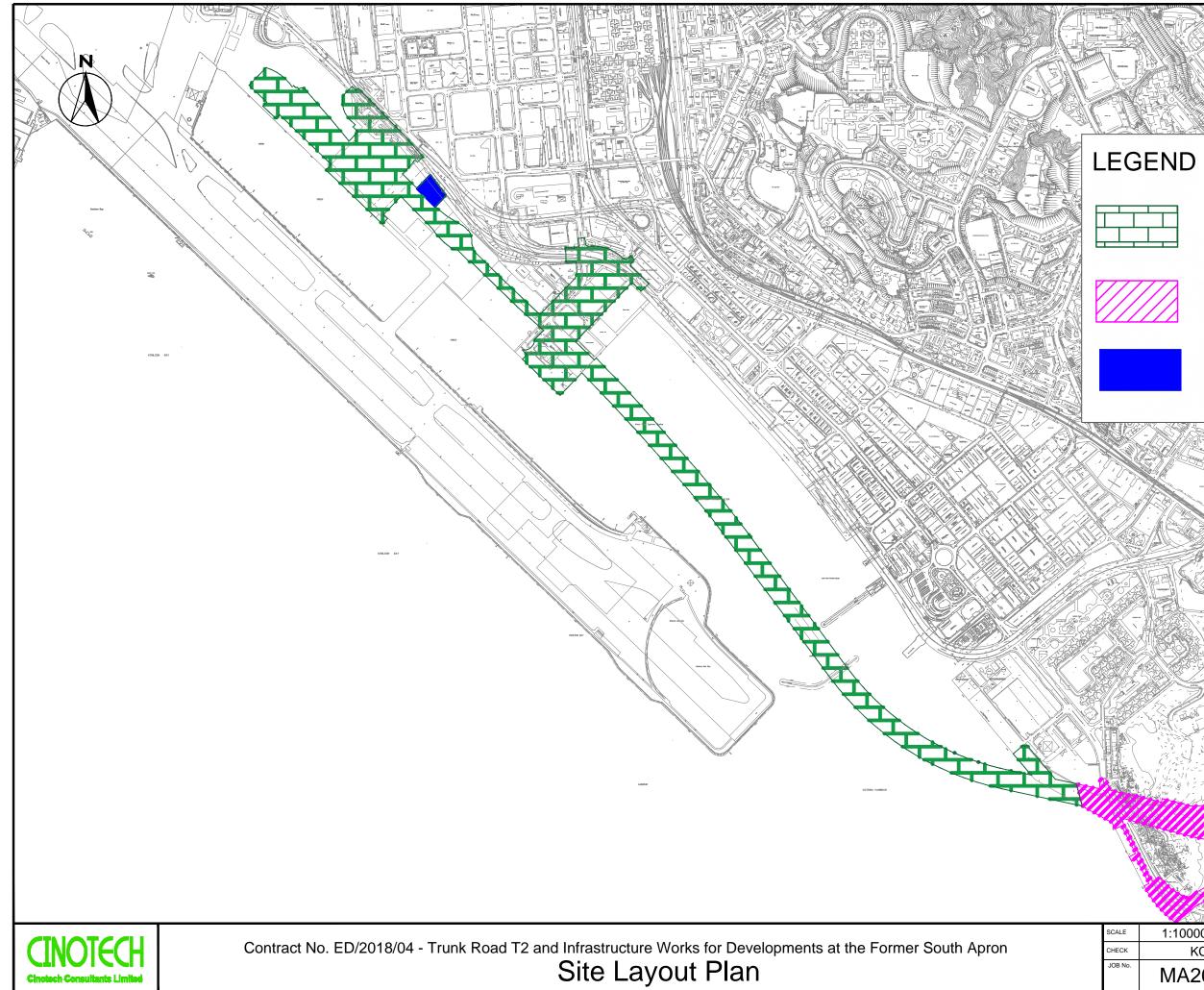
Noise

• Contractor should always implement the construction noise mitigation measures to minimize the noise nuisance generated from construction activities.

Air Quality

• Mitigation measures for minimize dust nuisance should be always implemented on site, and review as well as inspection of the efficiency of such measurements should also be carried out regularly.

FIGURES



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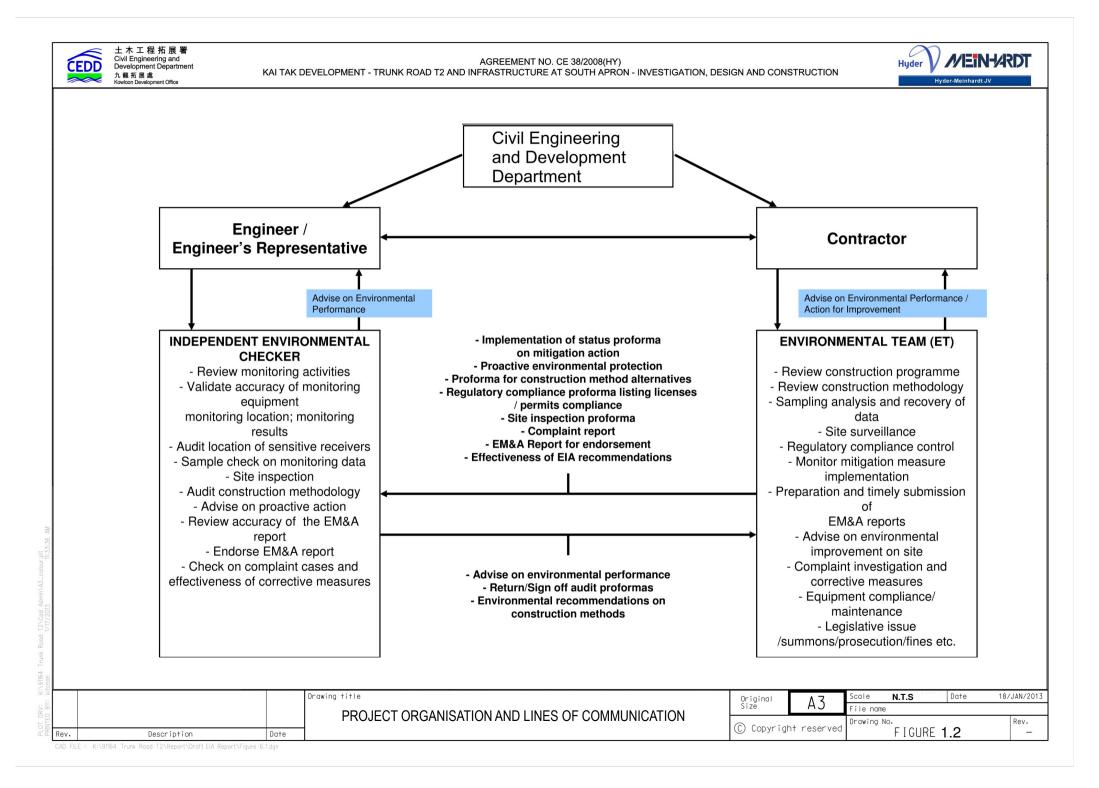
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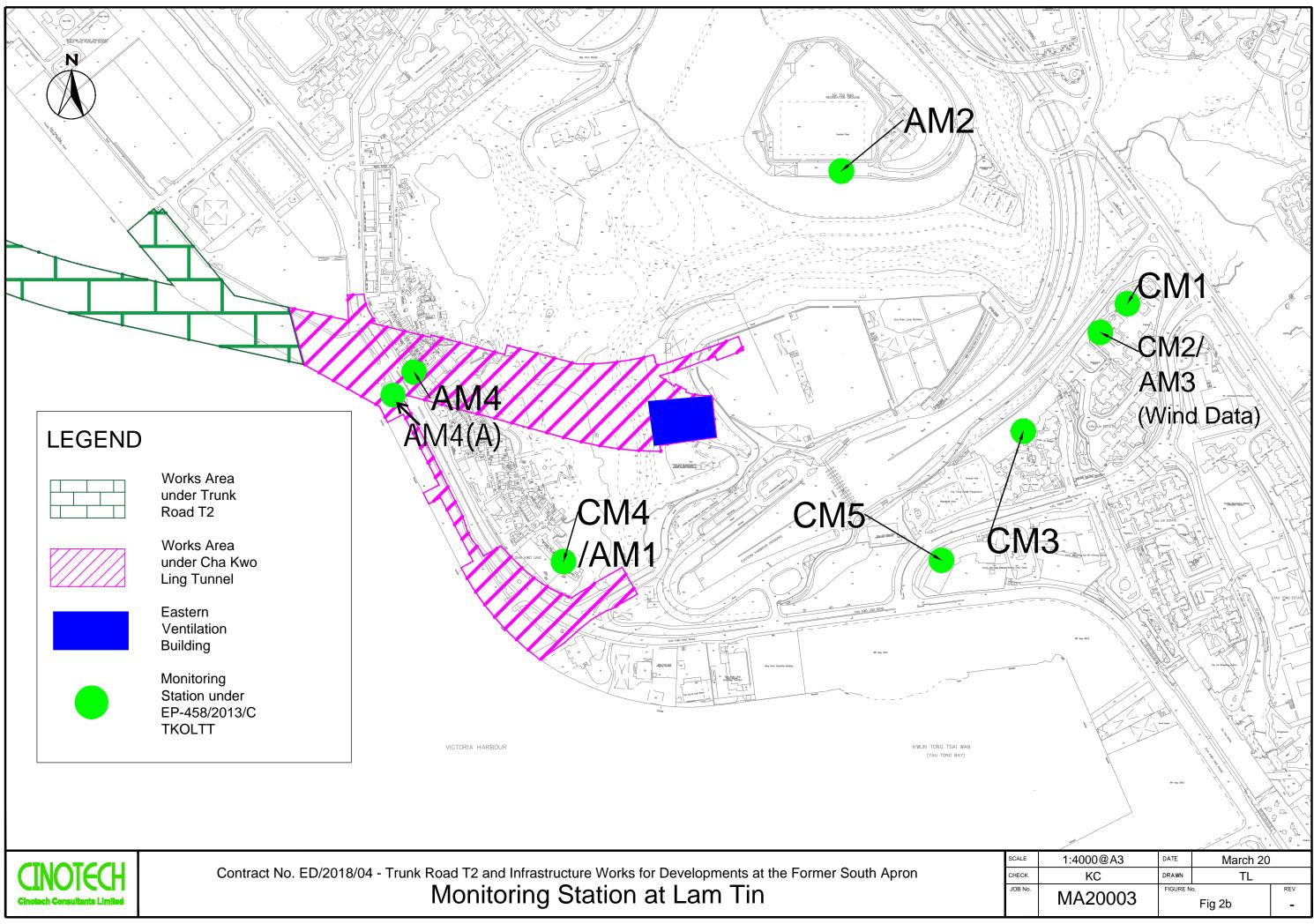
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

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

24-hr TSP

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

<u>Noise</u>

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

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

Landfill Gas Monitoring

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

Cerificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Aug-20
Manufacturer:	Sibata Scientific Technology LT	D.	Validity of Calibi	ation Record	5-Oct-20
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	645	
Tisch Calibratio	n Orifice No.: 3607	After Sensitivit	y Adjustment	645	
		Calibration of 1 hr	TSP		
Calibration	Laser Dust Mon	nitor		HVS	
Point	Mass Concentration	(µg/m3)	Mas	ss concentration (µ	g/m ³)
	X-axis			Y-axis	
1	36.0			65.8	
2	30.0			62.7	
3	24.0			59.0	
Average	30.0			62.5	
	ession of Y on X	- .			
Slope, mw =	0.5667		ept, bw =	45.5000	
Correlation co	$oefficient^* = 0.9$	987			
		Set Correlation Fa	octor		
Particaulate Con	centration by High Volume Samp			62.5	
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)			30.0	
Measureing time	e, (min)			60.0	
Set Correlation 1					
	h Volume Sampler / Dust Meter	r, (μg/m3)]	2.1	_	
		-			

In-house method in according to the instruction manual:

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

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

Calibrated by: _______ Wong Shing Kwai

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

Cerificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Aug-20
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Oct-20
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-01A	Before Sensiti	vity Adjustment	735 CPM	
Tisch Calibratic	on Orifice No.: 3607	After Sensitivi	ity Adjustment	735 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/	′m3)	Mas	ss concentration (µ	ıg/m ³)
	X-axis			Y-axis	
1	41.0			65.8	
2	31.0			62.7	
3	21.0			59.0	
Average	31.0			62.5	
By Linear Reg Slope , mw = Correlation c			cept, bw =	51.9600	
	Se	t Correlation F	actor		
Particaulate Con	ncentration by High Volume Sampler ($(\mu g/m^3)$		62.5	
Particaulate Con	ncentration by Dust Meter ($\mu g/m^3$)			31.0	
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3)	2.0		

In-house method in according to the instruction manual:

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

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

Calibrated by: _________ Wong Shing Kwai

Approved by: <u>lemy Kang</u> Henry Leung

Cerificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Aug-20
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calib	ration Record	5-Oct-20
Model No.:	LD-5R				
Serial No.:	972779				
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before Sensiti	vity Adjustment	744 CPM	
Tisch Calibratio	on Orifice No.: <u>3607</u>	After Sensitivi	ity Adjustment	744 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/	m3)	Ma	ss concentration (µ	(g/m^3)
	X-axis			Y-axis	
1	41.0			65.8	
2	32.0			62.7	
3	23.0			59.0	
Average	32.0			62.5	
By Linear Regi Slope , mw = Correlation co			cept, bw =	50.4111	
		t Correlation F	actor		
	ncentration by High Volume Sampler ($(\mu g/m^3)$		62.5	
Particaulate Cor	ncentration by Dust Meter ($\mu g/m^3$)			32.0	
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [K=Hig	gh Volume Sampler / Dust Meter, (μ	g/m3)]	2.0		

In-house method in according to the instruction manual:

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

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

<u>Cerificate of Calibration</u>

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Jun-20
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Aug-20
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before Sensiti	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	735 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	ſ		HVS	
Point	Mass Concentration (µg/	(m3)	Mas	ss concentration (µ	ug/m ³)
	X-axis			Y-axis	
1	47.0			100.5	
2	37.0			96.5	
3	26.0			91.0	
Average	36.7			96.0	
	ression of Y on X				
Slope, mw =			cept, bw =	79.3837	
Correlation co	Defficient * = 0.9980				
	Sa	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler (-		96.0	
	icentration by Dust Meter ($\mu g/m^3$)	(1.8)		36.7	
Measureing time				60.0	
Set Correlation 1					
	h Volume Sampler / Dust Meter, (μ	g/m3)]	2.6		

In-house method in according to the instruction manual:

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

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

Approved by: <u>leng</u> Kang Henry Leung

<u>Cerificate of Calibration</u>

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Jun-20
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Aug-20
Model No.:	LD-5R				
Serial No.:	972779				
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-01A	Before Sensiti	vity Adjustment	744 CPM	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	744 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	ſ		HVS	
Point	Mass Concentration (µg/	(m3)	Mas	ss concentration (µ	g/m^3)
	X-axis			Y-axis	
1	46.0			100.5	
2	33.0			96.5	
3	19.0			91.0	
Average	32.7			96.0	
•	ression of Y on X			0.4.4000	
Slope, mw =	0.3524		cept, bw =	84.4890	
Correlation co	oefficient* = 0.9976				
	Se	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$		96.0	
Particaulate Con	acentration by Dust Meter ($\mu g/m^3$)			32.7	
Measureing time	e, (min)			60.0	
Set Correlation 1	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3)]	2.9		

In-house method in according to the instruction manual:

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

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

Calibrated by: Wong Shing Kwai

<u>Cerificate of Calibration</u>

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

Description:	Digital Dust Indicator		Date	of Calibration	5-Jun-20
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calib	ration Record	5-Aug-20
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	645	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monito	r		HVS	
Point	Mass Concentration (µg	/m3)	Mas	ss concentration (µ	ıg/m ³)
	X-axis			Y-axis	
1	46.0			100.5	
2	40.0			96.5	
3	34.0			91.0	
Average	40.0			96.0	
•	ression of Y on X	_	_		
	0.7917		cept, bw =	64.3333	
Correlation co	oefficient* = 0.9959)			
	S	et Correlation F	actor		
Particaulate Con	centration by High Volume Sampler	-		96.0	
	icentration by Dust Meter ($\mu g/m^3$)	(Fg.III)		40.0	
Measureing time				60.0	
Set Correlation 1				00.0	
	h Volume Sampler / Dust Meter, (μ	ug/m3)]	2.4		

In-house method in according to the instruction manual:

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

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

Calibrated by: Wong Shing Kwai



File No. MA16034/05/0024

Project No.	AM1 - Tin Ha	u Temple				
Date:	9-J	un-20	Next Due Date:	9-Aug-20	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1	

	Orifice Transfer Standard Information								
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740								
Last Calibration Date:	17-Jan-20	1	nc x Qstd + bo	$c = [\Delta H x (Pa/760) x (298/Ta)]$] ^{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/} Y-axis
1	12.8	3.55	60.36	8.6	2.91
2	9.4	3.04	51.79	6.3	2.49
3	7.5	2.71	46.31	4.8	2.17
4	4.8	2.17	37.14	3.1	1.75
5	2.5	1.57	26.93	1.8	1.33
Correlation	coefficient* =	0.9983	_		
	Coefficient < 0.99	0, check and recalibrate.			
	Coefficient < 0.99	0, check and recalibrate. Set Point C	alculation		
If Correlation			alculation		
Tf Correlation	ield Calibration C	Set Point C	alculation		
*If Correlation	ield Calibration C	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to		98/Ta)] ^{1/2}	
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM	x (Pa/760) x (29		
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
If Correlation From the TSP Form the Regree Therefore, S	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
From the TSP F From the Regre Therefore, S	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		Date: 9 June 2020



File No. MA16034/08/0024

Project No.	AM2 - Sai Tso	Wan Recreation	n Ground			
Date:	9-J	un-20	Next Due Date:	9-Aug-2	20 Operator:	SK
Equipment No.:	A-	01-08	Model No.:	GS231	0 Serial No.	1287
			Ambient Condit	ion		
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1	

	Orifice Transfer Standard Information								
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740								
Last Calibration Date:	17-Jan-20	1	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{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	$\frac{\left[\Delta W \ge (Pa/760) \le (298/Ta)\right]^{1}}{\mathbf{Y}\text{-}\mathbf{axis}}$
1	12.8	3.55	60.36	8.4	2.87
2	9.8	3.10	52.87	6.1	2.45
3	7.8	2.77	47.22	4.8	2.17
4	4.8	2.17	37.14	3.0	1.72
5	2.6	1.60	27.46	1.9	1.37
	0.0456 coefficient* = Coefficient < 0.99	0.9964 0, check and recalibrate.	Intercept, bw = -	0.063	1
		Set Point C	alculation		
man the TCD D		117Ve 14ke USIO – 45 U FIVI			
From the TSP F		-			
from the Regree	ssion Equation, th	e "Y" value according to mw x Qstd + bw = [ΔW x w x Qstd + bw) ² x (760 / Pa) x (
rom the Regre: Therefore, S	ssion Equation, th	e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{y}]$			
rom the Regre	ssion Equation, th	e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{y}]$			Date: 9 June 2020

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File No. MA16034/03/0024

Project No.	AM3 - Yau Lai Estate, Bik Lai House						
Date:	9-J	Jun-20	Next Due Date:	9-Aug	g-20 Operator:	SK	
Equipment No.:	A-	01-03	Model No.:	GS23	S10 Serial No.	10379	
			Ambient Condit	ion			
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	1	nc x Qstd + bc	$c = [\Delta H x (Pa/760) x (298/Ta)]$] ^{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	$\Delta H \text{ (orifice)},$ in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.8	3.55	60.36	8.5	2.89
2	9.3	3.02	51.52	6.5	2.53
3	7.8	2.77	47.22	5.1	2.24
4	5.2	2.26	38.64	3.4	1.83
5	2.6	1.60	27.46	2.0	1.40
3v Linear Regi	ression of Y on X	<u>C</u>			
Slope, mw =	0.0462		Intercept, bw =	0.095	3
Correlation	coefficient* =	0.9969			
If Correlation (Coefficient < 0.99	00, check and recalibrate.			
		0 · P · · 0			
From the TOD E	iald Calibratian (Set Point C Curve, take Qstd = 43 CFM	alculation		
		e "Y" value according to			
Tom the Regres	ssion Equation, in	le i value accoluing to			
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W}\mathbf{x}]$	x (Pa/760) x (29	$(8/Ta)]^{1/2}$	
	/	w x Qstd + bw) ² x ($760 / Pa$) x (T_{-} (200) –	4.41	
Thoroforo S	at Doint: $W = (m)$				
Therefore, Se	et Point; W = (m	$W \times Qstd + bW) \times (7007 Pa) \times ($	1a / 298 =	4.41	
Therefore, Se	et Point; W = (m	w x Qstd + bw) x (7007 Pa) x (Ta / 298) =	4.41	
	et Point; W = (m	$\mathbf{w} \mathbf{x} \mathbf{Q} \mathbf{s} \mathbf{t} \mathbf{d} + \mathbf{b} \mathbf{w} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{z} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} x$	1a/298)=	4.41	
	et Point; W = (m	w x Qstd + bw) x (7007 Pa) x (1a / 298) =	4.41	
	et Point; W = (m	w x Qstd + bw) x (7007 Pa) x (1a / 298) =	4.41	
Remarks:				4.41	Date: 9 June 2020
Remarks: Conducted by:				4.41	Date: 9 June 2020

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File No. MA16034/54/0024

Project No.	AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office						
Date:	9-J	un-20	Next Due Date:	9-Aug-20	Operator:	SK	
Equipment No.:	A-	01-54	Model No.:	TE-5170	Serial No.	1536	
	Ambient Condition						
Temperatu	re, Ta (K)	303	Pressure, Pa (mmł	Hg)	759.1		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	I	nc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:							

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$
1	12.9	3.56	60.59	8.5	2.89
2	9.8	3.10	52.87	6.3	2.49
3	7.5	2.71	46.31	5.0	2.22
4	5.2	2.26	38.64	3.2	1.77
5	2.9	1.69	28.97	1.9	1.37
Correlation	coefficient* =	0.9988	-	-0.059	
If Correlation	Coefficient < 0.99	0, check and recalibrate.			
		Set Point C	alculation		
From the TSP F	ield Calibration C	Set Point C Surve, take Qstd = 43 CFM	alculation		
From the TSP F	ield Calibration C	Set Point C	alculation		
From the TSP F	ield Calibration C	Set Point C Surve, take Qstd = 43 CFM		98/Ta)] ^{1/2}	
From the TSP F From the Regree	ield Calibration C ssion Equation, th	Set Point C Furve, take Qstd = 43 CFM e "Y" value according to	x (Pa/760) x (29		
From the TSP F From the Regree Therefore, Se	ield Calibration C ssion Equation, th	Set Point C furve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW x	x (Pa/760) x (29		
From the TSP F	ield Calibration C ssion Equation, th	Set Point C furve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW x	x (Pa/760) x (29		Date: 9 June 2020

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File No. MA16034/05/0025

Project No.	AM1 - Tin Ha	ı Temple				
Date:	10-2	Aug-20	Next Due Date:	10-Oct-20	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	304	Pressure, Pa (mml	Hg)	760	

Orifice Transfer Standard Information							
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{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	12.9	3.56	60.53	8.5	2.89
2	9.4	3.04	51.74	6.3	2.49
3	7.5	2.71	46.26	4.8	2.17
4	4.8	2.17	37.10	3.2	1.77
5	2.6	1.60	27.43	1.8	1.33
	0.0472 coefficient* = Coefficient < 0.990	0.9993), check and recalibrate.	Intercept, bw = _	0.020	6
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to	alculation		
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:					
Conducted by:	SK Wong	Signature:	<u>'</u>		Date: 10 August 2020
Checked by:	Henry Leung	Signature:	kog		Date: 10 August 2020



File No. MA16034/08/0025

Project No.	AM2 - Sai Tso	Wan Recreation					
Date:	10-4	Aug-20	Next Due Date:	10-Oct-20	Operator:	SK	
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287	
			Ambient Condit	ion			
Temperatu	ıre, Ta (K)	304	Pressure, Pa (mml	Hg)	760		

Orifice Transfer Standard Information							
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	I	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{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	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis	
1	12.9	3.56	60.53	8.5	2.89	
2	9.8	3.10	52.82	6.1	2.45	
3	7.8	2.77	47.17	4.8	2.17	
4	4.8	2.17	37.10	3.0	1.71	
5	2.8	1.66	28.45	1.9	1.36	
Slope , mw = Correlation	coefficient < 0.990		Intercept, bw = _	-0.011	2	
		Set Point C	alculation			
		urve, take Qstd = 43 CFM				
		w x Qstd + bw = $[\Delta W]$ v x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.13		
Remarks:						
Conducted by:	SK Wong	Signature:	L X.o. j		Date: <u>10 August 2020</u>	
Checked by:	Henry Leung	Signature: <u>lemy</u>	Xoz		Date: 10 August 2020	

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File No. MA16034/03/0025

Project No.	AM3 - Yau La						
Date:	10-2	Aug-20	Next Due Date:	10-Oct-20	Operator:	SK	
Equipment No.: A-0		A-01-03 Model No.:		GS2310	Serial No.	10379	
			Ambient Condit	ion			_
Temperatu	ıre, Ta (K)	304	Pressure, Pa (mml		760		

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			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	13.0	3.57	60.76	8.6	2.90		
2	9.4	3.04	51.74	6.4	2.50		
3	7.7	2.75	46.87	5.1	2.24		
4	5.1	2.24	38.23	3.3	1.80		
5	2.5	1.57	26.91	2.0	1.39		
By Linear Regression of Y on X Slope , mw =0.0455 Intercept, bw =0.1241 Correlation coefficient* =0.9973 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point C	alculation				
		urve, take Qstd = 43 CFM					
From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (\mathbf{298/Ta})]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =							
Remarks:							
Conducted by:	SK Wong	Signature:	<u></u>		Date: 10 August 2020		
Checked by:	Conducted by: SK Wong Signature: M/L Date: 10 August 2020 Checked by: Henry Leung Signature: Image: Imag						

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File No. MA16034/54/0025

Project No.	AM4(A) - Cha	ce						
Date:	10-4	Aug-20	Next Due Date:	10-Oct-20	Operator:	SK		
Equipment No.: A-		01-54	-54 Model No.:		Serial No.	1536		
Ambient Condition								
Temperature, Ta (K) 304			Pressure, Pa (mmI	Hg)	760			

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	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis		
1	12.8	3.54	60.30	8.6	2	2.90		
2	9.8	3.10	52.82	6.3	2	2.49		
3	7.4	2.69	45.96	5.0	2	2.21		
4	5.2	2.26	38.60	3.2	1	.77		
5	2.9	1.69	28.94	1.8	1	.33		
Slope, mw =	By Linear Regression of Y on X Slope , mw =							
	coefficient* =	0.9987	_					
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	Calculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
		$mw \ x \ Qstd + bw = [\Delta W]$		98/Ta)] ^{1/2}				
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.18				
Remarks:								
Conducted by:	SK Wong	Signature:	A.		Date: 10	0 August 2020		
Checked by:	Henry Leung	Signature: <u>n</u> Signature: <u>lemp</u>	Xng		Date: 10	0 August 2020		

F:\Cinotech Solutions\Equipment\Calibration Cert\HVS\new\MA16034_20200810_AM4(A)_(A-01-54).xls



0022999

			the second se
Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 :SVAN957 SLMSerial No. /Ref. No. :23851 / N-08-12Object 2 :MicrophoneSerial No. /Ref. No. :43676	
Customer Code : SVEC09005		Manufacturer : Svantek	
Date of calibration: Date of the recommended re-calibration:	19/12/2019 19/12/2020	Certificate No.: 0022999 Handle by: E0002	

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object	
Г	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1	
	114.0dB	114.0dB	0.0dB	+/- 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) within the allowable deviation.	
Performed by	Approved by
Calibration Technician	Quality Manager

Equipment no.: N-12-02



Calibration Certificate

0022522

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:	23/09/2019	Certificate No.: 0022522		
Date of the recommended re-calibration:	23/09/2020	Handle by: E0002		

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
	114.0dB	113.9dB	-0.1dB	+/- 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.

E The collinguities contificate as

5. The calibrations certificate may not be reproduced.	
Measured value(s) within the allowable deviation.	
Performed by	Approved by
Calibration Technician	Quality Manager



ATTN:

WELLAB LIMITED Rms 1214, 1502, 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

TEST REPORT

APPLICANT: Cinotech Consultants Limited Test Report No.: 32151 Date of Issue: Room 1710, Technology Park, 2019-09-27 2019-09-26 Date Received: 18 On Lai Street, Shatin, NT, Hong Kong Date Tested: 2019-09-26 Date Completed: 2019-09-27 Next Due Date: 2020-09-26

Mr. Henry Leung

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No.

Test conditions:

Room Temperatre Relative Humidity : 'SVANTEK' Integrating Sound Level Meter : SVANTEK : SVAN 957 : 21455 : 43730 : N-08-07

: 17-22 degree Celsius : 40-70%

Page:

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.**

PATRICK TSE Laboratory Manager



0023002

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 :SV30A sound calibratorSerial No. /Ref. No. :10965 / N-09-02Object 2 :Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration:19/12/2019Date of the recommended re-calibration:19/12/2020	Certificate No.: 0023002 Handle by: E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.9dB	-0.1dB	+/- 0.3dB	1
Γ	114.0dB	114.2dB	+0.2dB	+/- 0.3dB	1

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.	
Performed by	Approved by
Calibration Technician	Quality Manager



0022673

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 181001608
Customer Code : SVEC09005		Manufacturer : Sou	ndtek
Date of calibration: Date of the recommended re-calibration:	24/10/2019 24/10/2020	Certificate No.: Handle by:	0022673 E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	94.0dB	0.0dB	+/- 0.3dB	1
Г	114.0dB	114.1dB	± 0.1 dB	+/- 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

Calibration Technician

Approved by

Quality Manager



0022676

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001636 Object 2 : Serial No. /Ref. No. :
Customer Code : SVEC09005		Manufacturer : Soundtek
Date of calibration: Date of the recommended re-calibration:	24/10/2019 24/10/2020	Certificate No.: 0022676 Handle by: E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
Γ	114.0dB	113.7dB	-0.3dB	+/- 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		
Measured value(s) within	the allowable deviation.	
Performed by		Approved by
Calibration Technician		Quality Manager



RECALIBRATION DUE DATE:

January 17, 2021

nmental Certificate of Calibration

Calibration Certification Information								
Cal. Date:	I. Date: January 17, 2020 Rootsmet				438320	Ta:	295	°K
Dperator: Jim Tisch				Pa: 744.2		mm Hg		
Calibration Model #: TE-5025A Calil			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-ax	is)	Va	(x-axis)	(y-axis)	
	0.9849	0.6868	1.40	66	0.9957	0.6944	0.8904	
	0.9807 0.9633 1.9892			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				
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δl	P)/Pa)	
	Lawrence and the second	Vstd/∆Time	, , , , , , , , , , , , , , , , , , , ,	$Qa = Va/\Delta Time$				
			For subsequ	uent flow rate calculations:				
	Qstd=	$1/m\left(\sqrt{\Delta H\left(-\frac{1}{2}\right)}\right)$	Pa Pstd / Tstd Ta))-b)	b) $Qa = 1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			
		Conditions						
Tstd:		°K		[RECA	IBRATION	
Pstd:		mm Hg Key			US EPA reco	ommends ar	nual recalibratio	n per 1998
AH: calibrat		er reading (in	n H2O)				Regulations Part 5	
		eter reading (Reference Meth	
		perature (°K)					ended Particulate	
	arometric pr	essure (mm	Hg)		the Atmosphere, 9.2.17, page 30			
o: intercept				l			, , , , , , , , , , , , , , , , , , , ,	
m: slope								

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

Cerificate of Calibration - Wind Monitoring Station

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

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.2	1.3	-0.1
2.0	2.1	-0.1
3.0	3.2	-0.2

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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: Kwai Approved by: Henry Leung

Cerificate of Calibration - Wind Monitoring Station

<u>Yau Lai Estate, Bik Lai House</u>			
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 Sp	beed, m/s	Difference D (m/s)	
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2	
0.0	0.0	0.0	
1.5	1.5	0.0	
2.2	2.3	-0.1	
3.5	3.4	0.1	

2. Performance check of Wind Direction

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

Test Specification:

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

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

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



MSA Hong Kong Ltd.

25/F Jupiter Tower, 9 Jupiter Street, Hong Kong Tel 852-22587588 Fax 25478780 Email info.hk@msasafety.com Website www.msasafety.com

Date: 22-May-20

Ref.2020/05/008CustomerLeighton China State Joint Venture

CERTIFICATE FOR CALIBRATION CHECK TEST

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
		1.45% Methane, 15% Oxygen	.251itre/min	100% LEL	29%LEL
Altain 5X				30% Vol	15% O2
	152097 6	60ppm Carbon Monoxide		1999 ppm	60ppm CO
Altair 5X	152097	20ppm Hydrogen Sulfide	1	200 ppm	20ppm H2S
	2.5% Carbon Dioxide 25ppm Ammonia	-1	10% Vol	2.5% CO2	
		Demand	100 ppm	25ppm NH3	

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on: 22-May-20

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of MSA Hong Kong Ltd.

Authorised Signature

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
		$(\%)^2$	
1-Aug-20	27.7	87	28.3
2-Aug-20	27.5	89	25.6
3-Aug-20	26.5	93	46.9
4-Aug-20	27.5	87	4.7
5-Aug-20	27.8	88	53.3
6-Aug-20	29.1	85	1.7
7-Aug-20	30.1	80	0.2
8-Aug-20	30.5	76	0.0
9-Aug-20	29.9	76	0.0
10-Aug-20	30.0	76	0.0
11-Aug-20	30.3	78	0.6
12-Aug-20	27.8	88	29.4
13-Aug-20	28.1	86	16.5
14-Aug-20	29.3	80	9.3
15-Aug-20	29.8	76	0.0
16-Aug-20	30.1	76	Trace
17-Aug-20	28.2	84	16.6
18-Aug-20	27.3	85	52.7
19-Aug-20	26.6	91	119.5
20-Aug-20	29.0	83	Trace
21-Aug-20	29.8	77	0.0
22-Aug-20	29.7	77	0.0
23-Aug-20	29.8	77	0.0
24-Aug-20	30.2	76	0.0
25-Aug-20	30.6	77	1.1
26-Aug-20	29.7	81	12.3
27-Aug-20	28.5	83	3.1
28-Aug-20	28.9	82	22.6
29-Aug-20	29.9	77	3.2
30-Aug-20	29.6	80	0.6
31-Aug-20	29.8	76	0.2

Appendix C - Weather Conditions During Impact Monitoring Period

(Reporting Month: August 2020) Remarks:

Source - Hong Kong Observatory

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

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
1 Aug 2020	12:00 AM	0.2	ESE	
1 Aug 2020	1:00 AM	0.05	E	
1 Aug 2020	2:00 AM	1.6	E	
1 Aug 2020	3:00 AM	0.05	E	
1 Aug 2020	4:00 AM	0.2	E	
1 Aug 2020	5:00 AM	0.05	ENE	
1 Aug 2020	6:00 AM	0.4	ENE	
1 Aug 2020	7:00 AM	0.5	SE	
1 Aug 2020	8:00 AM	1.3	ESE	
1 Aug 2020	9:00 AM	0.5	SE	
1 Aug 2020	10:00 AM	0.05	Е	
1 Aug 2020	11:00 AM	0.05	ESE	
1 Aug 2020	12:00 PM	0.15	ESE	
1 Aug 2020	1:00 PM	0.15 0.2	S ENE	
1 Aug 2020	2:00 PM 3:00 PM	0.05	ENE	
1 Aug 2020 1 Aug 2020	4:00 PM	0.05	SE	
1 Aug 2020	5:00 PM	0.05	NE	
1 Aug 2020	6:00 PM	0.05	ESE	
1 Aug 2020	7:00 PM	0.05	E	
1 Aug 2020	8:00 PM	0.15	ENE	
1 Aug 2020	9:00 PM	0.05	ENE	
1 Aug 2020	10:00 PM	0.2	E	
1 Aug 2020	11:00 PM	0.05	ESE	
2 Aug 2020	12:00 AM	0.05	ENE	
2 Aug 2020	1:00 AM	0.05	S	
2 Aug 2020	2:00 AM	0.05	ENE	
2 Aug 2020	3:00 AM	0.05	Е	
2 Aug 2020	4:00 AM	0.05	Е	
2 Aug 2020	7:00 AM	0.05	ENE	
2 Aug 2020	8:00 AM	0.05	NE	
2 Aug 2020	9:00 AM	0.05	SSE	
2 Aug 2020	10:00 AM	0.05	E	
2 Aug 2020	11:00 AM	0.05	E	
2 Aug 2020	12:00 PM	0.05	E	
2 Aug 2020	1:00 PM	0.05	ENE	
2 Aug 2020	2:00 PM	0.05	ENE	
2 Aug 2020	3:00 PM	0.05	ENE	
2 Aug 2020	4:00 PM	0.05	ENE	
2 Aug 2020	5:00 PM	0.05	ENE	
2 Aug 2020	6:00 PM	0.5	ENE	
2 Aug 2020	7:00 PM	0.1	E	
2 Aug 2020	8:00 PM	0.05	E	
2 Aug 2020	9:00 PM	0.1	E	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
2 Aug 2020	10:00 PM	0.05	ENE	
2 Aug 2020	11:00 PM	0.05	NE	
3 Aug 2020	12:00 AM	0.1	ENE	
3 Aug 2020	1:00 AM	0.05	E	
3 Aug 2020	2:00 AM	0.05	ENE	
3 Aug 2020	3:00 AM	0.05	ENE	
3 Aug 2020	4:00 AM	0.05	NE	
3 Aug 2020	5:00 AM	0.05	SE	
3 Aug 2020	6:00 AM	0.05	NE	
3 Aug 2020	7:00 AM	0.05	ENE	
3 Aug 2020	8:00 AM	0.05	ENE	
3 Aug 2020	9:00 AM	0.05	E	
3 Aug 2020	10:00 AM	0.05	ENE	
3 Aug 2020	11:00 AM	0.05	NE	
3 Aug 2020	12:00 PM	0.05	ENE	
3 Aug 2020	1:00 PM	0.1	E	
3 Aug 2020	2:00 PM	0.05	E	
3 Aug 2020	3:00 PM	0.05	ENE	
3 Aug 2020	4:00 PM	0.05	E	
3 Aug 2020	5:00 PM	0.05	SE	
3 Aug 2020	6:00 PM	0.05	ENE	
3 Aug 2020	7:00 PM	0.05	SE	
3 Aug 2020	8:00 PM	0.05	E	
3 Aug 2020	9:00 PM	0.05	ENE	
3 Aug 2020	10:00 PM	0.05	NE	
3 Aug 2020	11:00 PM	0.05	ENE	
4 Aug 2020	12:00 AM 1:00 AM	0.05	ENE ENE	
4 Aug 2020 4 Aug 2020	2:00 AM	0.05	ENE	
-			W	
4 Aug 2020 4 Aug 2020	3:00 AM 4:00 AM	0.05	S N	
4 Aug 2020 4 Aug 2020	5:00 AM	0.05	E E	
4 Aug 2020 4 Aug 2020	6:00 AM	0.05	E	
4 Aug 2020 4 Aug 2020	7:00 AM	0.05	ENE	
4 Aug 2020 4 Aug 2020	8:00 AM	0.05	ENE	
4 Aug 2020	9:00 AM	0.05	NE	
4 Aug 2020	10:00 AM	0.05	ESE	
4 Aug 2020	11:00 AM	0.05	SE	
4 Aug 2020	12:00 PM	0.05	SSE	
4 Aug 2020	1:00 PM	0.65	SSE	
4 Aug 2020	2:00 PM	0.45	ESE	
4 Aug 2020	3:00 PM	0.15	ENE	
4 Aug 2020	4:00 PM	0.1	SE	
4 Aug 2020	5:00 PM	0.05	ESE	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
4 Aug 2020	6:00 PM	0.05	ESE	
4 Aug 2020	7:00 PM	0.3	E	
4 Aug 2020	8:00 PM	0.05	E	
4 Aug 2020	9:00 PM	0.05	ENE	
4 Aug 2020	10:00 PM	0.05	ENE	
4 Aug 2020	11:00 PM	0.05	ENE	
5 Aug 2020	12:00 AM	0.05	ENE	
5 Aug 2020	1:00 AM	0.05	E	
5 Aug 2020	2:00 AM	0.05	E	
5 Aug 2020	3:00 AM	0.05	ENE	
5 Aug 2020	4:00 AM	0.05	ESE	
5 Aug 2020	5:00 AM	0.05	E	
5 Aug 2020	6:00 AM	0.05	ESE	
5 Aug 2020	7:00 AM	0.05	E	
5 Aug 2020	8:00 AM	0.05	ENE	
5 Aug 2020	9:00 AM	0.05	ENE	
5 Aug 2020	10:00 AM	0.05	ESE	
5 Aug 2020	11:00 AM	0.05	SE	
5 Aug 2020	12:00 PM	0.05	S	
5 Aug 2020	1:00 PM	0.05	S	
5 Aug 2020	2:00 PM	0.1	SSE	
5 Aug 2020	3:00 PM	0.1	SE	
5 Aug 2020	4:00 PM	0.05	SE	
5 Aug 2020	5:00 PM	0.1	WSW	
5 Aug 2020	6:00 PM	0.85	WNW	
5 Aug 2020	7:00 PM	0.05	NE	
5 Aug 2020	8:00 PM	0.05	E	
5 Aug 2020 5 Aug 2020	9:00 PM 10:00 PM	0.05	E ENE	
5 Aug 2020 5 Aug 2020	10:00 PM 11:00 PM	0.05	ENE	
6 Aug 2020	12:00 AM	0.05	E	
6 Aug 2020	12.00 AM 1:00 AM	0.05	ENE	
6 Aug 2020	2:00 AM	0.05	E	
6 Aug 2020	3:00 AM	0.05	ENE	
6 Aug 2020	4:00 AM	0.05	ENE	
6 Aug 2020	5:00 AM	0.05	ENE	
6 Aug 2020	6:00 AM	0.05	ENE	
6 Aug 2020	7:00 AM	0.05	SSW	
6 Aug 2020	8:00 AM	0.05	NNE	
6 Aug 2020	9:00 AM	0.05	ESE	
6 Aug 2020	10:00 AM	0.05	E	
6 Aug 2020	11:00 AM	0.15	ENE	
6 Aug 2020	12:00 PM	0.8	ENE	
6 Aug 2020	1:00 PM	0.1	ESE	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
6 Aug 2020	2:00 PM	0.1	SSE	
6 Aug 2020	3:00 PM	0.1	ESE	
6 Aug 2020	4:00 PM	0.05	ESE	
6 Aug 2020	5:00 PM	0.2	ENE	
6 Aug 2020	6:00 PM	0.1	E	
6 Aug 2020	7:00 PM	0.05	SSE	
6 Aug 2020	8:00 PM	0.05	SE	
6 Aug 2020	9:00 PM	0.05	E	
6 Aug 2020	10:00 PM	0.05	ESE	
6 Aug 2020	11:00 PM	0.05	E	
7 Aug 2020	12:00 AM	0.05	ENE	
7 Aug 2020	1:00 AM	0.05	ENE	
7 Aug 2020	2:00 AM	0.05	E	
7 Aug 2020	3:00 AM	0.05	ENE	
7 Aug 2020	4:00 AM	0.05	E	
7 Aug 2020	5:00 AM	0.05	ESE	
7 Aug 2020	6:00 AM	0.05	E	
7 Aug 2020	7:00 AM	0.05	E	
7 Aug 2020	8:00 AM	0.05	E	
7 Aug 2020	9:00 AM	0.05	E	
7 Aug 2020	10:00 AM	0.05	SE	
7 Aug 2020	11:00 AM	0.05	SSE	
7 Aug 2020	12:00 PM	0.05	SSE	
7 Aug 2020	1:00 PM	0.1	ENE	
7 Aug 2020	2:00 PM	0.4	SE	
7 Aug 2020	3:00 PM	0.05	ESE	
7 Aug 2020	4:00 PM	0.05	SE	
7 Aug 2020	5:00 PM	0.25	ESE	
7 Aug 2020	6:00 PM	0.05	E	
7 Aug 2020	7:00 PM	0.35	ENE	
7 Aug 2020	8:00 PM	0.05	ENE	
7 Aug 2020	9:00 PM	0.05	ENE	
7 Aug 2020	10:00 PM	0.1	ENE	
7 Aug 2020	11:00 PM	0.05	E	
8 Aug 2020	12:00 AM	0.05	ENE	
8 Aug 2020	1:00 AM	0.05	ENE	
8 Aug 2020	2:00 AM	0.05	ENE	
8 Aug 2020	3:00 AM	0.05	ENE	
8 Aug 2020	4:00 AM	0.05	NE	
8 Aug 2020	5:00 AM	0.05	N	
8 Aug 2020	6:00 AM	0.05	NE	
8 Aug 2020	7:00 AM	0.05	SSE	
8 Aug 2020	8:00 AM	0.05	E	
8 Aug 2020	9:00 AM	0.05	E	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
8 Aug 2020	10:00 AM	0.1	ENE	
8 Aug 2020	11:00 AM	0.2	ESE	
8 Aug 2020	12:00 PM	0.25	E	
8 Aug 2020	1:00 PM	0.05	ENE	
8 Aug 2020	2:00 PM	0.05	SE	
8 Aug 2020	3:00 PM	0.05	SE	
8 Aug 2020	4:00 PM	1.4	ENE	
8 Aug 2020	5:00 PM	0.05	E	
8 Aug 2020	6:00 PM	0.05	ESE	
8 Aug 2020	7:00 PM	0.05	ENE	
8 Aug 2020	8:00 PM	0.05	ENE	
8 Aug 2020	9:00 PM	0.05	ENE	
8 Aug 2020	10:00 PM	0.05	ENE	
8 Aug 2020	11:00 PM	0.05	ENE	
9 Aug 2020	12:00 AM	0.05	ENE	
9 Aug 2020	1:00 AM	0.05	SSE	
9 Aug 2020	2:00 AM	0.05	W	
9 Aug 2020	3:00 AM	0.05	WSW	
9 Aug 2020	4:00 AM	0.05	WSW	
9 Aug 2020	5:00 AM	0.05	W	
9 Aug 2020	6:00 AM	0.05	SE	
9 Aug 2020	7:00 AM	0.05	SW	
9 Aug 2020	8:00 AM	0.05	NE	
9 Aug 2020	9:00 AM	0.05	NW	
9 Aug 2020	10:00 AM	0.1	SSW	
9 Aug 2020	11:00 AM	0.05	NE	
9 Aug 2020	12:00 PM	0.05	NW	
9 Aug 2020	1:00 PM	0.05	NE	
9 Aug 2020	2:00 PM	0.1	S	
9 Aug 2020	3:00 PM	0.1	SW	
9 Aug 2020	4:00 PM	0.15	S	
9 Aug 2020	5:00 PM	0.1	SSW	
9 Aug 2020	6:00 PM	1	SW	
9 Aug 2020	7:00 PM	0.1	SSW	
9 Aug 2020	8:00 PM	0.25	SW	
9 Aug 2020	9:00 PM	0.05	SSE	
9 Aug 2020	10:00 PM	0.05	SSE	
9 Aug 2020	11:00 PM	0.05	WSW	
10 Aug 2020	12:00 AM	0.05	SSE	
10 Aug 2020	1:00 AM	0.05	W	
10 Aug 2020	2:00 AM	0.05	SE	
10 Aug 2020	3:00 AM	0.05	ENE	
10 Aug 2020	4:00 AM	0.05	WSW	
10 Aug 2020	5:00 AM	0.05	SE	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
10 Aug 2020	6:00 AM	0.05	SE	
10 Aug 2020	7:00 AM	0.05	E	
10 Aug 2020	8:00 AM	0.05	ENE	
10 Aug 2020	9:00 AM	0.05	W	
10 Aug 2020	10:00 AM	0.05	WSW	
10 Aug 2020	11:00 AM	0.05	WNW	
10 Aug 2020	12:00 PM	0.2	WSW	
10 Aug 2020	1:00 PM	0.65	SW	
10 Aug 2020	2:00 PM	0.25	WSW	
10 Aug 2020	3:00 PM	0.05	SW	
10 Aug 2020	4:00 PM	0.1	SSW	
10 Aug 2020	5:00 PM	0.1	SE	
10 Aug 2020	6:00 PM	0.05	ESE	
10 Aug 2020	7:00 PM	0.15	SSE	
10 Aug 2020	8:00 PM	0.05	ESE	
10 Aug 2020	9:00 PM	0.05	W	
10 Aug 2020	10:00 PM	0.05	S	
10 Aug 2020	11:00 PM	0.05	SE W	
11 Aug 2020	12:00 AM 1:00 AM	0.05		
11 Aug 2020	2:00 AM	0.05	NE SE	
11 Aug 2020		0.05	NW	
11 Aug 2020 11 Aug 2020	3:00 AM 4:00 AM	0.05	W	
11 Aug 2020	5:00 AM	0.05	SE	
11 Aug 2020	6:00 AM	0.05	E	
11 Aug 2020	7:00 AM	0.05	NE	
11 Aug 2020	8:00 AM	0.05	SSW	
11 Aug 2020	9:00 AM	0.25	SW	
11 Aug 2020	10:00 AM	0.9	W	
11 Aug 2020	11:00 AM	0.5	SW	
11 Aug 2020	12:00 PM	0.65	WNW	
11 Aug 2020	1:00 PM	1.35	WSW	
11 Aug 2020	2:00 PM	1.8	SW	
11 Aug 2020	3:00 PM	0.7	SSW	
11 Aug 2020	4:00 PM	0.85	SW	
11 Aug 2020	5:00 PM	0.35	SSW	
11 Aug 2020	6:00 PM	0.45	ENE	
11 Aug 2020	7:00 PM	0.05	ESE	
11 Aug 2020	8:00 PM	0.05	SE	
11 Aug 2020	9:00 PM	0.05	SE	
11 Aug 2020	10:00 PM	0.45	ESE	
11 Aug 2020	11:00 PM	0.05	NE	
12 Aug 2020	12:00 AM	0.05	ESE	
12 Aug 2020	1:00 AM	0.05	NE	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
12 Aug 2020	2:00 AM	0.05	SE	
12 Aug 2020	3:00 AM	0.05	SSE	
12 Aug 2020	4:00 AM	0.05	ENE	
12 Aug 2020	5:00 AM	0.05	ENE	
12 Aug 2020	6:00 AM	0.6	ESE	
12 Aug 2020	7:00 AM	0.05	NE	
12 Aug 2020	8:00 AM	0.1	SSW	
12 Aug 2020	9:00 AM	0.05	ENE	
12 Aug 2020	10:00 AM	0.05	E	
12 Aug 2020	11:00 AM	0.05	SSE	
12 Aug 2020	12:00 PM	0.05	ENE	
12 Aug 2020	1:00 PM	0.1	SSW	
12 Aug 2020	2:00 PM	0.05	ENE	
12 Aug 2020	3:00 PM	0.05	E	
12 Aug 2020	4:00 PM	0.05	ENE	
12 Aug 2020	5:00 PM	0.05	ENE	
12 Aug 2020	6:00 PM	0.05	ESE	
12 Aug 2020	7:00 PM 8:00 PM	0.05	E E	
12 Aug 2020	9:00 PM	0.05	E	
12 Aug 2020 12 Aug 2020	9.00 PM 10:00 PM	0.05	ENE	
12 Aug 2020	11:00 PM	0.05	ENE	
13 Aug 2020	12:00 AM	0.05	ENE	
13 Aug 2020	1:00 AM	0.05	NE	
13 Aug 2020	2:00 AM	0.05	ENE	
13 Aug 2020	3:00 AM	0.05	ENE	
13 Aug 2020	4:00 AM	0.05	SE	
13 Aug 2020	5:00 AM	0.05	NE	
13 Aug 2020	6:00 AM	0.05	NNE	
13 Aug 2020	7:00 AM	0.05	SSW	
13 Aug 2020	8:00 AM	0.05	ENE	
13 Aug 2020	9:00 AM	0.05	Е	
13 Aug 2020	10:00 AM	0.05	ENE	
13 Aug 2020	11:00 AM	0.05	ESE	
13 Aug 2020	12:00 PM	0.05	E	
13 Aug 2020	1:00 PM	0.05	ENE	
13 Aug 2020	2:00 PM	0.05	NE	
13 Aug 2020	3:00 PM	0.55	SW	
13 Aug 2020	4:00 PM	0.1	E	
13 Aug 2020	5:00 PM	0.05	SSE	
13 Aug 2020	6:00 PM	0.05	E	
13 Aug 2020	7:00 PM	0.05	E	
13 Aug 2020	8:00 PM	0.05	E	
13 Aug 2020	9:00 PM	0.05	E	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
13 Aug 2020	10:00 PM	0.05	E	
13 Aug 2020	11:00 PM	0.05	E	
14 Aug 2020	12:00 AM	0.05	E	
14 Aug 2020	1:00 AM	0.05	ENE	
14 Aug 2020	2:00 AM	0.05	E	
14 Aug 2020	3:00 AM	0.05	ENE	
14 Aug 2020	4:00 AM	0.05	SE	
14 Aug 2020	5:00 AM	0.05	NE	
14 Aug 2020	6:00 AM	0.05	SSE	
14 Aug 2020	7:00 AM	0.05	SSE	
14 Aug 2020	8:00 AM	0.05	S	
14 Aug 2020	9:00 AM	0.05	ENE	
14 Aug 2020	10:00 AM	0.05	ENE	
14 Aug 2020	11:00 AM	0.05	SW	
14 Aug 2020	12:00 PM	0.05	ESE	
14 Aug 2020	1:00 PM	0.05	SSE	
14 Aug 2020	2:00 PM	0.05	SSE	
14 Aug 2020	3:00 PM	0.25	SW	
14 Aug 2020	4:00 PM	2.95	SW	
14 Aug 2020	5:00 PM	0.85	WSW	
14 Aug 2020	6:00 PM	0.6	SW	
14 Aug 2020	7:00 PM	0.05	SW	
14 Aug 2020	8:00 PM	0.05	SSW	
14 Aug 2020	9:00 PM	0.05	SW	
14 Aug 2020	10:00 PM	0.05	SSW	
14 Aug 2020	11:00 PM	0.05	S	
15 Aug 2020	12:00 AM	0.05	ENE	
15 Aug 2020	1:00 AM	0.05	ENE	
15 Aug 2020	2:00 AM	0.05	NW	
15 Aug 2020	3:00 AM	0.05	S	
15 Aug 2020	4:00 AM	0.05	SW	
15 Aug 2020	5:00 AM	0.05	SSE	
15 Aug 2020	6:00 AM	0.05	WSW	
15 Aug 2020	7:00 AM	0.05	WNW	
15 Aug 2020	8:00 AM	0.05	ENE	
15 Aug 2020	9:00 AM	0.05	SE	
15 Aug 2020	10:00 AM	0.05	ESE	
15 Aug 2020	11:00 AM	0.15	SW	
15 Aug 2020	12:00 PM	0.15	WSW	
15 Aug 2020	1:00 PM	0.05	SW	
15 Aug 2020	2:00 PM	0.05	E	
15 Aug 2020	3:00 PM	0.05	ENE	
15 Aug 2020	4:00 PM	0.5	S	
15 Aug 2020	5:00 PM	0.05	ESE	

August 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
15 Aug 2020	6:00 PM	0.05	SE	
15 Aug 2020	7:00 PM	0.05	ESE	
15 Aug 2020	8:00 PM	0.05	WSW	
15 Aug 2020	9:00 PM	0.05	ENE	
15 Aug 2020	10:00 PM	0.05	NE	
15 Aug 2020	11:00 PM	0.05	E	
16 Aug 2020	12:00 AM	0.05	NE	
16 Aug 2020	1:00 AM	0.05	NE	
16 Aug 2020	2:00 AM	0.05	NNE	
16 Aug 2020	3:00 AM	0.05	NNE	
16 Aug 2020	4:00 AM	0.05	ESE	
16 Aug 2020	5:00 AM	0.05	WSW	
16 Aug 2020	6:00 AM	0.05	SSW	
16 Aug 2020	7:00 AM	0.05	NE	
16 Aug 2020	8:00 AM	0.05	ENE	
16 Aug 2020	9:00 AM	0.05	ENE	
16 Aug 2020	10:00 AM	0.05	NE	
16 Aug 2020	11:00 AM	0.05	ESE	
16 Aug 2020	12:00 PM	0.05	SE	
16 Aug 2020	1:00 PM	0.15	ESE	
16 Aug 2020	2:00 PM	0.05	E	
16 Aug 2020	3:00 PM	0.05	ESE	
16 Aug 2020	4:00 PM	0.05	ESE	
16 Aug 2020	5:00 PM	0.05	ESE	
16 Aug 2020	6:00 PM	0.05	E	
16 Aug 2020	7:00 PM	0.05	ESE	
16 Aug 2020	8:00 PM	0.05	E	
16 Aug 2020	9:00 PM	0.05	ENE	
16 Aug 2020	10:00 PM	0.05	ENE	
16 Aug 2020	11:00 PM	0.05	ESE	
17 Aug 2020	12:00 AM	0.05	E	
17 Aug 2020	1:00 AM	0.05	ENE	
17 Aug 2020	2:00 AM	0.05	E	
17 Aug 2020	3:00 AM	0.05	ENE E	
17 Aug 2020	4:00 AM 5:00 AM	0.05	E E	
17 Aug 2020 17 Aug 2020	6:00 AM	0.05	E E	
	7:00 AM	0.05	E SE	
17 Aug 2020 17 Aug 2020	8:00 AM	0.05	ENE	
17 Aug 2020	9:00 AM	0.05	SE	
17 Aug 2020	10:00 AM	0.25	E E	
17 Aug 2020	10:00 AM 11:00 AM	0.05	ENE	
17 Aug 2020	12:00 PM	0.05	ENE	
17 Aug 2020	12.00 PM	0.05	E	
17 Aug 2020	1.00 FWI	0.15		

August 2020					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
17 Aug 2020	2:00 PM	0.3	SSE		
17 Aug 2020	3:00 PM	0.05	ENE		
17 Aug 2020	4:00 PM	0.05	ENE		
17 Aug 2020	5:00 PM	0.05	ESE		
17 Aug 2020	6:00 PM	0.05	ENE		
17 Aug 2020	7:00 PM	0.05	ENE		
17 Aug 2020	8:00 PM	0.05	ENE		
17 Aug 2020	9:00 PM	0.05	E		
17 Aug 2020	10:00 PM	0.05	E		
17 Aug 2020	11:00 PM	0.05	NE		
18 Aug 2020	12:00 AM	0.05	NE		
18 Aug 2020	1:00 AM	0.05	NNE		
18 Aug 2020	2:00 AM	0.05	SSE		
18 Aug 2020	3:00 AM	0.05	NE		
18 Aug 2020	4:00 AM	0.05	SSE		
18 Aug 2020	5:00 AM	0.05	E		
18 Aug 2020	6:00 AM	0.05	ESE		
18 Aug 2020	7:00 AM	0.05	SE		
18 Aug 2020	8:00 AM	0.05	ESE		
18 Aug 2020	9:00 AM	0.05	ENE		
18 Aug 2020	10:00 AM	0.05	NE		
18 Aug 2020	11:00 AM	0.05	NE		
18 Aug 2020	12:00 PM	0.05	E		
18 Aug 2020	1:00 PM	0.05	E		
18 Aug 2020	2:00 PM	0.05	SE		
18 Aug 2020	3:00 PM	0.05	E		
18 Aug 2020	4:00 PM	0.05	SSE		
18 Aug 2020	5:00 PM	0.05	ESE		
18 Aug 2020	6:00 PM	0.05	ENE		
18 Aug 2020	7:00 PM	1.15	E		
18 Aug 2020	8:00 PM	0.45	ENE		
18 Aug 2020	9:00 PM	0.05	ENE		
18 Aug 2020	10:00 PM	0.05	E		
18 Aug 2020	11:00 PM	0.05	ENE		
19 Aug 2020	12:00 AM	0.15	E		
19 Aug 2020	1:00 AM	0.1	E		
19 Aug 2020	2:00 AM	1.25	E		
19 Aug 2020	3:00 AM	0.35	ESE		
19 Aug 2020	4:00 AM	0.05	E		
19 Aug 2020	5:00 AM	0.05	SE		
19 Aug 2020	6:00 AM	0.3	E		
19 Aug 2020	7:00 AM	0.15	S		
19 Aug 2020	8:00 AM	0.05	ENE		
19 Aug 2020	9:00 AM	0.1	SSE		

August 2020					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
19 Aug 2020	10:00 AM	0.05	ESE		
19 Aug 2020	11:00 AM	0.05	SE		
19 Aug 2020	12:00 PM	0.05	SE		
19 Aug 2020	1:00 PM	0.05	E		
19 Aug 2020	2:00 PM	0.35	ESE		
19 Aug 2020	3:00 PM	0.1	S		
19 Aug 2020	4:00 PM	0.3	SSW		
19 Aug 2020	5:00 PM	0.05	E		
19 Aug 2020	6:00 PM	0.05	E		
19 Aug 2020	7:00 PM	0.05	ESE		
19 Aug 2020	8:00 PM	0.05	E		
19 Aug 2020	9:00 PM	0.05	SW		
19 Aug 2020	10:00 PM	0.05	NE		
19 Aug 2020	11:00 PM	0.05	ENE		
20 Aug 2020	12:00 AM	0.05	E		
20 Aug 2020	1:00 AM	0.05	ENE		
20 Aug 2020	2:00 AM	0.05	E		
20 Aug 2020	3:00 AM	0.05	NE		
20 Aug 2020	4:00 AM	0.05	SW		
20 Aug 2020	5:00 AM	0.05	NE		
20 Aug 2020	6:00 AM	0.05	ENE		
20 Aug 2020	7:00 AM	0.05	ENE		
20 Aug 2020	8:00 AM	0.05	ENE		
20 Aug 2020	9:00 AM	0.05	ENE		
20 Aug 2020	10:00 AM	0.15	E		
20 Aug 2020	11:00 AM	0.05	ESE		
20 Aug 2020	12:00 PM	0.1	SSE		
20 Aug 2020	1:00 PM	0.05	E		
20 Aug 2020	2:00 PM	0.3	E		
20 Aug 2020	3:00 PM	0.05	E		
20 Aug 2020	4:00 PM	0.05	ESE		
20 Aug 2020	5:00 PM	0.45	E		
20 Aug 2020	6:00 PM	0.1	ESE		
20 Aug 2020	7:00 PM	0.05	ENE		
20 Aug 2020	8:00 PM	0.1	E		
20 Aug 2020	9:00 PM	0.05	ENE		
20 Aug 2020	10:00 PM	0.05	ENE		
20 Aug 2020	11:00 PM	0.05	ENE		
21 Aug 2020	12:00 AM	0.05	S		
21 Aug 2020	1:00 AM	0.05	NE		
21 Aug 2020	2:00 AM	0.05	NE		
21 Aug 2020	3:00 AM	0.05	SSW		
21 Aug 2020	4:00 AM	0.05	ENE		
21 Aug 2020	5:00 AM	0.05	ENE		

	Augus	t 2020	
	Wind Speed a	nd Directions	
Date	Time	Wind Speed m-s	Direction
21 Aug 2020	6:00 AM	0.05	NNE
21 Aug 2020	7:00 AM	0.05	ENE
21 Aug 2020	8:00 AM	0.05	NE
21 Aug 2020	9:00 AM	0.05	SSE
21 Aug 2020	10:00 AM	0.05	NE
21 Aug 2020	11:00 AM	0.05	SSW
21 Aug 2020	12:00 PM	0.05	NNE
21 Aug 2020	1:00 PM	0.05	ESE
21 Aug 2020	2:00 PM	0.1	SW
21 Aug 2020	3:00 PM	0.3	WSW
21 Aug 2020	4:00 PM	0.1	SSW
21 Aug 2020	5:00 PM	0.05	NW
21 Aug 2020	6:00 PM	0.05	NNE
21 Aug 2020	7:00 PM	0.05	ESE
21 Aug 2020	8:00 PM	0.05	E
21 Aug 2020	9:00 PM	0.05	ENE
21 Aug 2020	10:00 PM	0.05	E
21 Aug 2020	11:00 PM	0.05	ENE
22 Aug 2020	12:00 AM	0.05	NE
22 Aug 2020	1:00 AM	0.05	NE
22 Aug 2020	2:00 AM	0.05	ENE
22 Aug 2020	3:00 AM	0.05	SSE
22 Aug 2020	4:00 AM	0.05	W
22 Aug 2020	5:00 AM	0.05	SW
22 Aug 2020	6:00 AM	0.05	SSE
22 Aug 2020	7:00 AM	0.05	ESE
22 Aug 2020	8:00 AM	0.05	SSW
22 Aug 2020	9:00 AM	0.05	SE
22 Aug 2020	10:00 AM	0.05	ENE
22 Aug 2020	11:00 AM	0.05	SW
22 Aug 2020	12:00 PM	0.05	SE
22 Aug 2020	1:00 PM	0.05	SSW
22 Aug 2020	2:00 PM	1.45	W
22 Aug 2020	3:00 PM	0.35	SE
22 Aug 2020	4:00 PM	0.05	ESE
22 Aug 2020	5:00 PM	0.05	NE
22 Aug 2020	6:00 PM	0.05	NE
22 Aug 2020	7:00 PM	0.05	E
22 Aug 2020	8:00 PM	0.05	SE
22 Aug 2020	9:00 PM	0.05	W
22 Aug 2020	10:00 PM	0.05	SSE
22 Aug 2020	11:00 PM	0.05	NW
23 Aug 2020	12:00 AM	0.05	ENE
23 Aug 2020	1:00 AM	0.05	SW

	Augus	t 2020	
	Wind Speed a	nd Directions	
Date	Time	Wind Speed m-s	Direction
23 Aug 2020	2:00 AM	0.05	SSW
23 Aug 2020	3:00 AM	0.05	S
23 Aug 2020	4:00 AM	0.05	WSW
23 Aug 2020	5:00 AM	0.05	SSE
23 Aug 2020	6:00 AM	0.05	ESE
23 Aug 2020	7:00 AM	0.05	SE
23 Aug 2020	8:00 AM	0.05	ENE
23 Aug 2020	9:00 AM	0.05	ENE
23 Aug 2020	10:00 AM	0.05	SW
23 Aug 2020	11:00 AM	0.1	SE
23 Aug 2020	12:00 PM	0.05	SSW
23 Aug 2020	1:00 PM	0.05	SE
23 Aug 2020	2:00 PM	0.05	E
23 Aug 2020	3:00 PM	0.05	ESE
23 Aug 2020	4:00 PM	0.05	S
23 Aug 2020	5:00 PM	0.05	SSW
23 Aug 2020	6:00 PM	0.05	S
23 Aug 2020	7:00 PM	0.05	SSW
23 Aug 2020	8:00 PM	0.05	SW
23 Aug 2020	9:00 PM	0.05	SSE
23 Aug 2020	10:00 PM	0.05	SSW
23 Aug 2020	11:00 PM	0.05	WSW
24 Aug 2020	12:00 AM	0.05	WSW
24 Aug 2020	1:00 AM	0.1	W
24 Aug 2020	2:00 AM	0.05	WSW
24 Aug 2020	3:00 AM	0.05	WSW
24 Aug 2020	4:00 AM	0.05	SW
24 Aug 2020	5:00 AM	0.05	SSE
24 Aug 2020	6:00 AM	0.05	SSE
24 Aug 2020	7:00 AM	0.05	SW
24 Aug 2020	8:00 AM	0.05	W
24 Aug 2020	9:00 AM	0.05	SSW
24 Aug 2020	10:00 AM	0.4	WSW
24 Aug 2020	11:00 AM	0.3	SW
24 Aug 2020	12:00 PM	0.15	WSW
24 Aug 2020	1:00 PM	1	W
24 Aug 2020	2:00 PM	0.7	WSW
24 Aug 2020	3:00 PM	0.3	WSW
24 Aug 2020	4:00 PM	0.1	W
24 Aug 2020	5:00 PM	0.2	WSW
24 Aug 2020	6:00 PM	0.75	SW
24 Aug 2020	7:00 PM	0.25	SW
24 Aug 2020	8:00 PM	0.1	WSW
24 Aug 2020	9:00 PM	0.45	WSW

August 2020					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
24 Aug 2020	10:00 PM	0.05	SW		
24 Aug 2020	11:00 PM	0.1	WSW		
25 Aug 2020	12:00 AM	0.15	WSW		
25 Aug 2020	1:00 AM	0.2	WSW		
25 Aug 2020	2:00 AM	0.15	WSW		
25 Aug 2020	3:00 AM	0.05	SSW		
25 Aug 2020	4:00 AM	0.05	SW		
25 Aug 2020	5:00 AM	0.05	SSW		
25 Aug 2020	6:00 AM	0.2	WSW		
25 Aug 2020	7:00 AM	0.05	SW		
25 Aug 2020	8:00 AM	0.35	WSW		
25 Aug 2020	9:00 AM	0.2	WNW		
25 Aug 2020	10:00 AM	0.55	WSW		
25 Aug 2020	11:00 AM	0.25	SW		
25 Aug 2020	12:00 PM	0.45	W		
25 Aug 2020	1:00 PM	1.1	W		
25 Aug 2020	2:00 PM	1.3	WSW		
25 Aug 2020	3:00 PM	1.05	WNW		
25 Aug 2020	4:00 PM	0.5	SW		
25 Aug 2020	5:00 PM	1	WSW		
25 Aug 2020	6:00 PM	1.25	WSW		
25 Aug 2020	7:00 PM	0.15	SSW		
25 Aug 2020	8:00 PM	0.1	WSW		
25 Aug 2020	9:00 PM	0.25	WSW		
25 Aug 2020	10:00 PM	0.05	S		
25 Aug 2020	11:00 PM	0.05	SW		
26 Aug 2020	12:00 AM	0.05	SSW		
26 Aug 2020	1:00 AM	0.05	SW		
26 Aug 2020	2:00 AM	0.05	SW		
26 Aug 2020	3:00 AM	0.2	SW		
26 Aug 2020	4:00 AM	0.05	S		
26 Aug 2020	5:00 AM	0.05	ESE		
26 Aug 2020	6:00 AM	0.05	ESE		
26 Aug 2020	7:00 AM	0.05	SSE		
26 Aug 2020	8:00 AM	0.05	SW		
26 Aug 2020	9:00 AM	0.05	WSW		
26 Aug 2020	10:00 AM	0.5	W		
26 Aug 2020	11:00 AM	0.2	NW		
26 Aug 2020	12:00 PM	0.7	SW		
26 Aug 2020	1:00 PM	1.1	WNW		
26 Aug 2020	2:00 PM	0.3	WSW		
26 Aug 2020	3:00 PM	1.1	WSW		
26 Aug 2020	4:00 PM	0.3	SW		
26 Aug 2020	5:00 PM	0.15	SW		

August 2020					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
26 Aug 2020	6:00 PM	0.05	SSW		
26 Aug 2020	7:00 PM	0.15	SSW		
26 Aug 2020	8:00 PM	0.55	SW		
26 Aug 2020	9:00 PM	0.05	SW		
26 Aug 2020	10:00 PM	0.05	ENE		
26 Aug 2020	11:00 PM	0.05	SSE		
27 Aug 2020	12:00 AM	0.05	SSW		
27 Aug 2020	1:00 AM	0.05	NE		
27 Aug 2020	2:00 AM	0.05	ESE		
27 Aug 2020	3:00 AM	0.05	ENE		
27 Aug 2020	4:00 AM	0.05	SE		
27 Aug 2020	5:00 AM	0.05	SSW		
27 Aug 2020	6:00 AM	0.05	ENE		
27 Aug 2020	7:00 AM	0.05	NE		
27 Aug 2020	8:00 AM	0.05	WSW		
27 Aug 2020	9:00 AM	0.05	E		
27 Aug 2020	10:00 AM	0.05	S		
27 Aug 2020	11:00 AM	0.05	W		
27 Aug 2020	12:00 PM	0.05	SSW		
27 Aug 2020	1:00 PM	0.05	SW		
27 Aug 2020	2:00 PM	0.05	SW		
27 Aug 2020	3:00 PM	0.05	SW		
27 Aug 2020	4:00 PM	0.55	WSW		
27 Aug 2020	5:00 PM	0.05	SSW		
27 Aug 2020	6:00 PM	0.05	S		
27 Aug 2020	7:00 PM	0.05	SW		
27 Aug 2020	8:00 PM	0.05	SW		
27 Aug 2020	9:00 PM	0.05	WSW		
27 Aug 2020	10:00 PM	0.05	E		
27 Aug 2020	11:00 PM	0.05	ENE		
28 Aug 2020	12:00 AM	0.05	SSE		
28 Aug 2020	1:00 AM	0.05	S		
28 Aug 2020	2:00 AM	0.05	SE		
28 Aug 2020	3:00 AM	0.05	E		
28 Aug 2020	4:00 AM	0.05	ENE		
28 Aug 2020	5:00 AM	0.05	ENE		
28 Aug 2020	6:00 AM	0.05	SSE		
28 Aug 2020	7:00 AM	0.05	SSE		
28 Aug 2020	8:00 AM	0.05	NNE		
28 Aug 2020	9:00 AM	0.05	ENE		
28 Aug 2020	10:00 AM	0.05	ESE		
28 Aug 2020	11:00 AM	0.05	SW		
28 Aug 2020	12:00 PM	0.05	SSW		
28 Aug 2020	1:00 PM	0.05	NE		

August 2020					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
28 Aug 2020	2:00 PM	0.05	SE		
28 Aug 2020	3:00 PM	0.05	ESE		
28 Aug 2020	4:00 PM	0.05	ENE		
28 Aug 2020	5:00 PM	0.05	ESE		
28 Aug 2020	6:00 PM	0.05	S		
28 Aug 2020	7:00 PM	0.05	SSE		
28 Aug 2020	8:00 PM	0.05	NE		
28 Aug 2020	9:00 PM	0.05	NE		
28 Aug 2020	10:00 PM	0.05	SW		
28 Aug 2020	11:00 PM	0.05	WSW		
29 Aug 2020	12:00 AM	0.05	SSW		
29 Aug 2020	1:00 AM	0.05	WSW		
29 Aug 2020	2:00 AM	0.05	SW		
29 Aug 2020	3:00 AM	0.05	WNW		
29 Aug 2020	4:00 AM	0.05	W		
29 Aug 2020	5:00 AM	0.05	WNW		
29 Aug 2020	6:00 AM	0.05	W		
29 Aug 2020	7:00 AM	0.05	SSW		
29 Aug 2020	8:00 AM	0.05	WSW		
29 Aug 2020	9:00 AM	0.05	ENE		
29 Aug 2020	10:00 AM	0.05	ESE		
29 Aug 2020	11:00 AM	0.1	SSE		
29 Aug 2020	12:00 PM	0.05	SSW		
29 Aug 2020	1:00 PM	0.05	NW		
29 Aug 2020	2:00 PM	0.1	SSW		
29 Aug 2020	3:00 PM	0.1	SE		
29 Aug 2020	4:00 PM	0.1	S		
29 Aug 2020	5:00 PM	0.1	SSE		
29 Aug 2020	6:00 PM	0.1	S		
29 Aug 2020	7:00 PM	0.05	WSW		
29 Aug 2020	8:00 PM	0.05	SW		
29 Aug 2020	9:00 PM	0.05	S		
29 Aug 2020	10:00 PM	0.05	NE		
29 Aug 2020	11:00 PM	0.05	W		
30 Aug 2020	12:00 AM	0.05	WSW		
30 Aug 2020	1:00 AM	0.05	WSW		
30 Aug 2020	2:00 AM	0.05	SE		
30 Aug 2020	3:00 AM	0.05	SW		
30 Aug 2020	4:00 AM	0.05	NE		
30 Aug 2020	5:00 AM	0.05	N		
30 Aug 2020	6:00 AM	0.05	SE		
30 Aug 2020	7:00 AM	0.05	N		
30 Aug 2020	8:00 AM	0.05	SW		
30 Aug 2020	9:00 AM	0.05	NE		

August 2020					
	Wind Speed a				
Date	Time	Wind Speed m-s	Direction		
30 Aug 2020	10:00 AM	0.05	ENE		
30 Aug 2020	11:00 AM	0.05	ENE		
30 Aug 2020	12:00 PM	0.05	WSW		
30 Aug 2020	1:00 PM	0.15	SW		
30 Aug 2020	2:00 PM	0.05	SSW		
30 Aug 2020	3:00 PM	0.05	ESE		
30 Aug 2020	4:00 PM	0.05	SW		
30 Aug 2020	5:00 PM	0.05	NNW		
30 Aug 2020	6:00 PM	0.05	ENE		
30 Aug 2020	7:00 PM	0.05	Е		
30 Aug 2020	8:00 PM	0.05	ESE		
30 Aug 2020	9:00 PM	0.05	ENE		
30 Aug 2020	10:00 PM	0.05	ENE		
30 Aug 2020	11:00 PM	0.05	NE		
31 Aug 2020	12:00 AM	0.05	ENE		
31 Aug 2020	1:00 AM	0.05	NE		
31 Aug 2020	2:00 AM	0.05	NE		
31 Aug 2020	3:00 AM	0.05	ENE		
31 Aug 2020	4:00 AM	0.05	ENE		
31 Aug 2020	5:00 AM	0.05	S		
31 Aug 2020	6:00 AM	0.05	SE		
31 Aug 2020	7:00 AM	0.05	SE		
31 Aug 2020	8:00 AM	0.05	ESE		
31 Aug 2020	9:00 AM	0.05	ENE		
31 Aug 2020	10:00 AM	0.05	ENE		
31 Aug 2020	11:00 AM	0.1	ENE		
31 Aug 2020	12:00 PM	0.05	NE		
31 Aug 2020	1:00 PM	0.05	SSE		
31 Aug 2020	2:00 PM	0.05	WSW		
31 Aug 2020	3:00 PM	0.05	NW		
31 Aug 2020	4:00 PM	0.05	S		
31 Aug 2020	5:00 PM	0.65	SSW		
31 Aug 2020	6:00 PM	0.05	S		
31 Aug 2020	7:00 PM	0.05	S		
31 Aug 2020	8:00 PM	0.05	ENE		
31 Aug 2020	9:00 PM	0.05	ENE		
31 Aug 2020	10:00 PM	0.05	SSW		
31 Aug 2020	11:00 PM	0.05	ENE		
31 Aug 2020	12:00 AM	0.05	N		

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (August 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Sa
2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	
		1-hr TSP X3 Noise				
	24-hrs TSP					24-ł
9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	
	1-hr TSP X3				1-hr TSP X3	
	Noise					
				24-hrs TSP		
16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	
25-Aug	24-Aug	25-Aug		27-Aug	20-Aug	
			1-hr TSP X3 Noise			
		24-hrs TSP				
		24 113 151				
30-Aug	31-Aug					
	24-hrs TSP					

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP
AM1 - Tin Hau Temple
AM2 - Sai Tso Wan Recreation Ground
AM3 - Yau Lai Estate Bik Lai House
AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village
AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

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



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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (September 2020)

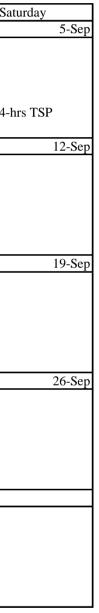
The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

Air Quality Monitoring Station 1-hr TSP / 24-hrs TSP AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong
CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong
CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong
CM4 - Tin Hau Temple, Cha Kwo Ling
CM5 - CCC Kei Faat Primary School, Yau Tong



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Sa
				1-Oct	2-Oct	
						24-1
4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	
	1.1. TOD X2				1.1. TOD V2	
	1-hr TSP X3 Noise				1-hr TSP X3	
	Noise					
				24-hrs TSP		
11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	
				1-hr TSP X3		
				Noise		
				TOISE		
			24-hrs TSP			
18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	
			1-hr TSP X3			
			I-nr ISP X5 Noise			
			TOBE			
		24-hrs TSP				
25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	
		1 h., TOD V2				
		1-hr TSP X3 Noise				
		100150				
	24-hrs TSP					24-1

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (October 2020)

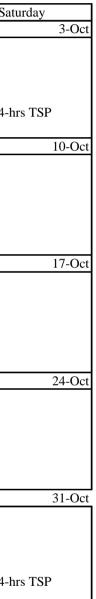
The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

Air Quality Monitoring Station 1-hr TSP / 24-hrs TSP AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong
CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong
CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong
CM4 - Tin Hau Temple, Cha Kwo Ling
CM5 - CCC Kei Faat Primary School, Yau Tong



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Sa
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	
	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3	
				24-1118 TSP		
8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	
				1-hr TSP X3 Noise		
			24-hrs TSP			
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	
			1-hr TSP X3 Noise			
		24-hrs TSP				
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	
		1-hr TSP X3 Noise				
	24-hrs TSP					24-1
29-Nov	30-Nov	X				
	1-hr TSP X3 Noise					

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (November 2020)

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

Air Quality Monitoring Station 1-hr TSP / 24-hrs TSP AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾ - Cha Kwo Ling Public Cargo Working Area Administrative Office

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong



APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

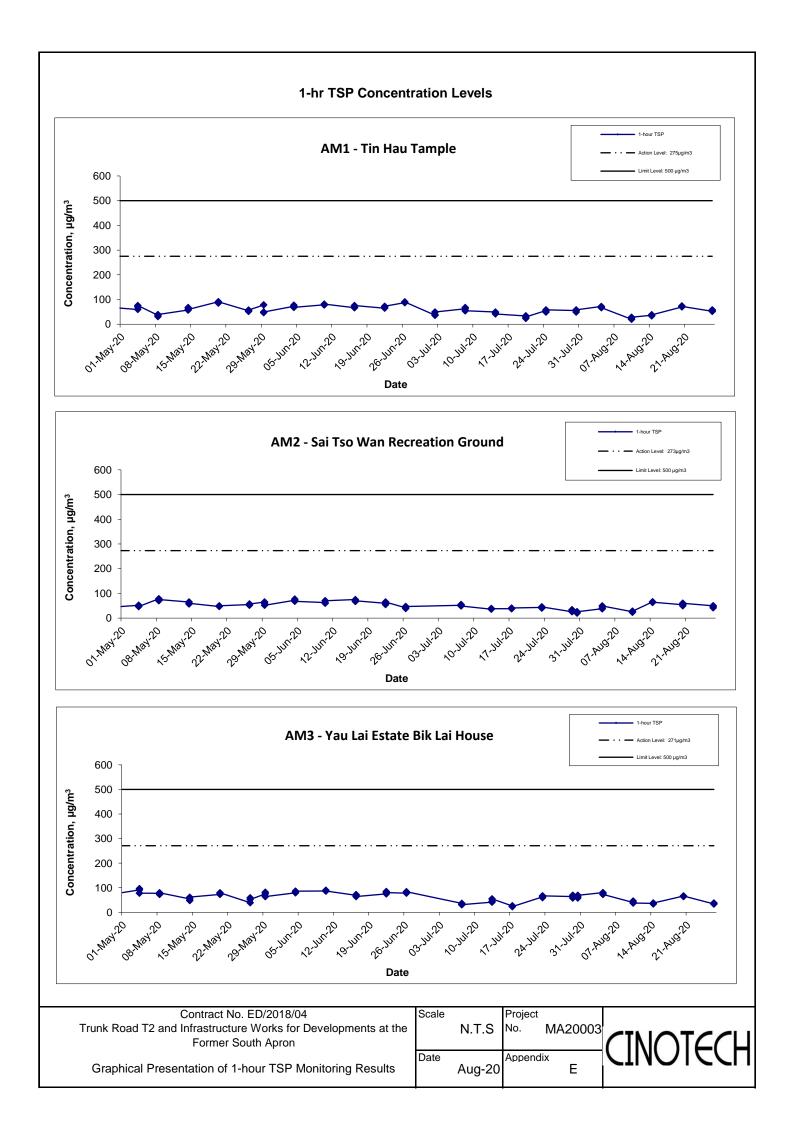
APPENDIX E - 1-HOUR TSP MONITORING RESULTS

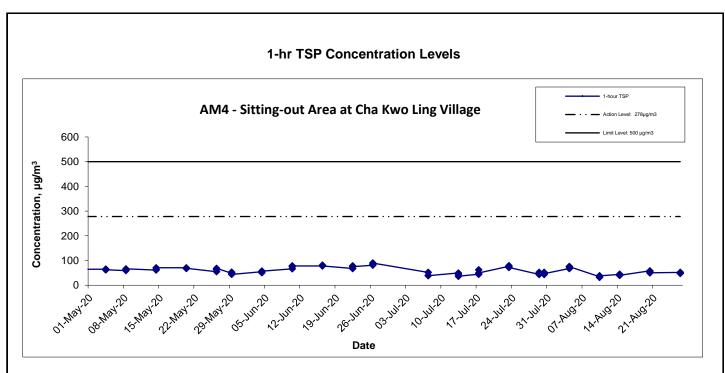
Location AM1 -	Tin Hau Terr	ple	
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Aug-20	9:00	Rainy	72.0
4-Aug-20	10:00	Rainy	67.2
4-Aug-20	11:00	Rainy	67.2
10-Aug-20	13:00	Sunny	20.0
10-Aug-20	14:00	Sunny	26.0
10-Aug-20	15:00	Sunny	28.0
14-Aug-20	13:00	Sunny	36.0
14-Aug-20	14:00	Sunny	34.0
14-Aug-20	15:00	Sunny	38.0
20-Aug-20	13:00	Sunny	70.0
20-Aug-20	14:00	Sunny	74.0
20-Aug-20	15:00	Sunny	72.0
26-Aug-20	13:00	Sunny	52.0
26-Aug-20	14:00	Sunny	58.0
26-Aug-20	15:00	Sunny	56.0
		Average	51.4
		Maximum	74.0
		Minimum	20.0

Location AM2 -	Sai Tso Wan	Recreation Grou	nd		
Date	Time	Weather	Particulate Concentration (μ g/m ³)		
4-Aug-20	9:00	Cloudy	37.7		
4-Aug-20	10:00	Cloudy	40.6		
4-Aug-20	11:00	Cloudy	49.3		
10-Aug-20	9:00	Sunny	26.0		
10-Aug-20	10:00	Sunny	24.0		
10-Aug-20	11:00	Sunny	28.0		
14-Aug-20	9:00	Sunny	66.0		
14-Aug-20	10:00	Sunny	64.0		
14-Aug-20	11:00	Sunny	64.0		
20-Aug-20	16:00	Sunny	54.0		
20-Aug-20	17:00	Sunny	50.0		
20-Aug-20	18:00	Sunny	60.0		
26-Aug-20	9:00	Sunny	50.0		
26-Aug-20	10:00	Sunny	48.0		
26-Aug-20	11:00	Sunny	42.0		
		Average	46.9		
		Maximum	66.0		
		Minimum	24.0		

Location AM3 - Yau Lai Estate Bik Lai House

Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Aug-20	16:00	Rainy	80.6
4-Aug-20	17:00	Rainy	78.0
4-Aug-20	18:00	Rainy	72.8
10-Aug-20	16:00	Sunny	40.0
10-Aug-20	17:00	Sunny	46.0
10-Aug-20	18:00	Sunny	38.0
14-Aug-20	9:00	Sunny	36.0
14-Aug-20	10:00	Sunny	34.0
14-Aug-20	11:00	Sunny	38.0
20-Aug-20	16:00	Sunny	66.0
20-Aug-20	17:00	Sunny	64.0
20-Aug-20	18:00	Sunny	66.0
26-Aug-20	16:00	Sunny	34.0
26-Aug-20	17:00	Sunny	34.0
26-Aug-20	18:00	Sunny	38.0
		Average	51.0
	ſ	Maximum	80.6
	[Minimum	34.0
ocation AM4 -	[Sitting-out A	Minimum rea at Cha Kwo Li	
ocation AM4 - Date	Sitting-out A		ing Village
		rea at Cha Kwo Li	
Date	Time	rea at Cha Kwo L i Weather	ing Village Particulate Concentration (μg/m ³)
Date 4-Aug-20	Time 13:00	rea at Cha Kwo L i Weather Rainy	ng Village Particulate Concentration (μg/m ³) 67.6
Date 4-Aug-20 4-Aug-20	Time 13:00 14:00	rea at Cha Kwo L i Weather Rainy Rainy	ing Village Particulate Concentration (μg/m ³) 67.6 75.4
Date 4-Aug-20 4-Aug-20 4-Aug-20	Time 13:00 14:00 15:00	rea at Cha Kwo L i Weather Rainy Rainy Rainy	ng Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4
Date 4-Aug-20 4-Aug-20 4-Aug-20 10-Aug-20	Time 13:00 14:00 15:00 9:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0
Date 4-Aug-20 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20	Time 13:00 14:00 15:00 9:00 10:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0 32.0
Date 4-Aug-20 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny Sunny Sunny	ing Village Particulate Concentration (µg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0
Date 4-Aug-20 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (µg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 14-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00	rea at Cha Kwo Li Weather Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (µg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0 40.0
Date 4-Aug-20 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 14-Aug-20 20-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00 9:00	rea at Cha Kwo Li Weather Rainy Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0 40.0 58.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 14-Aug-20 20-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00 9:00 10:00	rea at Cha Kwo Li Weather Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	Particulate Concentration (µg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0 58.0 54.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 14-Aug-20 20-Aug-20 20-Aug-20 20-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00 9:00 10:00 11:00	rea at Cha Kwo Li Weather Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0 44.0 58.0 54.0 50.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 14-Aug-20 20-Aug-20 20-Aug-20 20-Aug-20 26-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00 9:00 10:00 11:00 9:00	rea at Cha Kwo Li Weather Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 75.4 34.0 32.0 38.0 44.0 44.0 44.0 58.0 54.0 50.0 52.0
Date 4-Aug-20 4-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 10-Aug-20 14-Aug-20 14-Aug-20 20-Aug-20 20-Aug-20 20-Aug-20 26-Aug-20 26-Aug-20	Time 13:00 14:00 15:00 9:00 10:00 11:00 16:00 17:00 18:00 9:00 10:00 10:00 10:00 10:00 10:00 10:00 10:00	rea at Cha Kwo Li Weather Rainy Rainy Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny Sunny	ing Village Particulate Concentration (μg/m ³) 67.6 75.4 34.0 32.0 38.0 44.0 44.0 44.0 58.0 58.0 54.0 50.0 52.0 48.0





Notes:

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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale	N.T.S	Project No. MA20003	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Date	Aug-20		

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Aug-20	Sunny	300.0	753.8	3.4396	3.5520	0.1124	7134.6	7158.6	24.0	1.22	1.22	1.22	1757.2	64.0
8-Aug-20	Cloudy	303.2	754.6	3.4527	3.5218	0.0691	7158.6	7182.6	24.0	1.21	1.21	1.21	1748.8	39.5
13-Aug-20	Sunny	301.7	758.8	3.5087	3.5977	0.0890	7182.6	7206.6	24.0	1.22	1.22	1.22	1758.0	50.6
19-Aug-20	Sunny	300.8	756.7	3.4755	3.6788	0.2033	7206.6	7230.6	24.0	1.22	1.22	1.22	1758.2	115.6
25-Aug-20	Sunny	303.2	753.1	3.4757	3.6741	0.1984	7230.6	7254.6	24.0	1.21	1.21	1.21	1747.2	113.6
31-Aug-20	Cloudy	303.1	755.4	3.5197	3.6913	0.1716	7254.6	7278.6	24.0	1.22	1.21	1.22	1750.2	98.0
													Min	39.5
													Max	115.6
													Average	80.2

Location AM1 - Tin Hau Temple

Location AM2 - Sai Tso Wan Recreation Ground

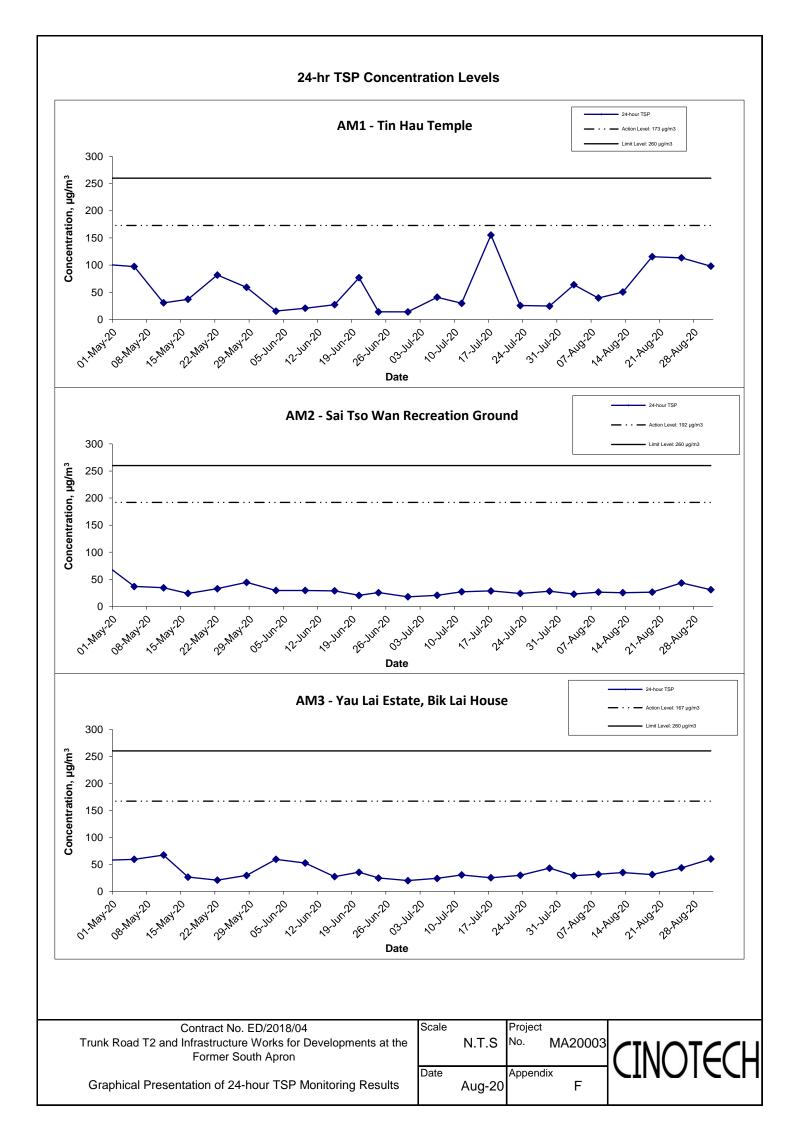
Start Date	Weather	Weather Air Atmospheric Filter W		eight (g)	Particulate Elapse Time			Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.	
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Aug-20	Sunny	300.0	753.8	3.4722	3.5123	0.0401	28240.8	28264.8	24.0	1.22	1.22	1.22	1755.0	22.8
8-Aug-20	Cloudy	303.2	754.6	3.4618	3.5078	0.0460	28264.8	28288.8	24.0	1.21	1.21	1.21	1746.7	26.3
13-Aug-20	Sunny	301.7	758.8	3.5085	3.5530	0.0445	28288.8	28312.8	24.0	1.22	1.22	1.22	1755.8	25.3
19-Aug-20	Sunny	300.8	756.7	3.5112	3.5577	0.0465	28312.8	28336.8	24.0	1.22	1.22	1.22	1756.0	26.5
25-Aug-20	Sunny	303.2	753.1	3.4888	3.5645	0.0757	28336.8	28360.8	24.0	1.21	1.21	1.21	1745.1	43.4
31-Aug-20	Cloudy	303.1	755.4	3.4586	3.5126	0.0540	28360.8	28384.8	24.0	1.21	1.21	1.21	1748.1	30.9
													Min	22.8
													Max	43.4
													Average	29.2

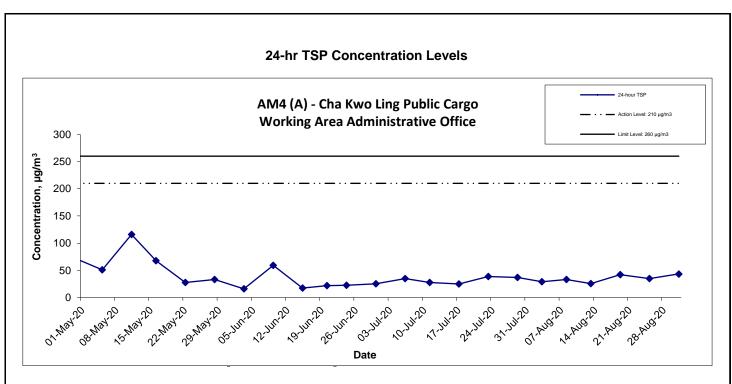
Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Air	Atmospheric	ilter Weight (g)	Particulate	Elapse Time	Э	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Aug-20	Sunny	300.0	753.8	3.4839	3.5348	0.0509	2188.3	2212.3	24.0	1.22	1.22	1.22	1757.9	29.0
8-Aug-20	Cloudy	303.2	754.6	3.4518	3.5071	0.0553	2212.3	2236.3	24.0	1.21	1.21	1.21	1749.0	31.6
13-Aug-20	Sunny	301.7	758.8	3.5092	3.5707	0.0615	2236.3	2260.3	24.0	1.22	1.22	1.22	1758.7	35.0
19-Aug-20	Sunny	300.8	756.7	3.4529	3.5075	0.0546	2260.3	2284.3	24.0	1.22	1.22	1.22	1758.9	31.0
25-Aug-20	Sunny	303.2	753.1	3.4841	3.5601	0.0760	2284.3	2308.3	24.0	1.21	1.21	1.21	1747.3	43.5
31-Aug-20	Cloudy	303.1	755.4	3.4855	3.5907	0.1052	2308.3	2332.3	24.0	1.22	1.21	1.22	1750.5	60.1
													Min	29.0
													Max	60.1
													Average	38.4

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

Start Date	Weather	Air	Atmospheric	ilter Weight (g	g)	Particulate	Elapse Time	e	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Aug-20	Sunny	300.0	753.8	3.4839	3.5348	0.0509	13465.2	13489.2	24.0	1.22	1.22	1.22	1757.3	29.0
8-Aug-20	Sunny	303.2	754.6	3.4532	3.5111	0.0579	13466.2	13490.2	24.0	1.21	1.22	1.21	1749.5	33.1
13-Aug-20	Sunny	301.7	758.8	3.4994	3.5442	0.0448	13467.2	13491.2	24.0	1.22	1.22	1.22	1758.0	25.5
19-Aug-20	Sunny	300.8	756.7	3.4563	3.5301	0.0738	13468.2	13492.2	24.0	1.22	1.22	1.22	1758.2	42.0
25-Aug-20	Sunny	303.2	753.1	3.4985	3.5595	0.0610	13469.2	13493.2	24.0	1.21	1.21	1.21	1747.2	34.9
31-Aug-20	Sunny	303.1	755.4	3.5097	3.5854	0.0757	13470.2	13494.2	24.0	1.22	1.21	1.22	1750.2	43.3
													Min	25.5
													Max	43.3
													Average	34.6





Notes:

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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale		Project No. MA20003	
Graphical Presentation of 24-hour TSP Monitoring Results	Date	Aug-20	Appendix F	

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

Location CM1	- Nga Lai Ho	ouse, Yau Lai	Estate Phas	se 1, Yau To	ng							
				Unit: dB (A) (30-min)								
Date	Time	Weather	Meas	sured Noise	_evel	Baseline Level	Construction Noise Level					
Date	TIME	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
4-Aug-20	14:35	Rainy	70.9	72.5	68.7	65.5	69					
10-Aug-20	15:00	Sunny	70.0	72.5	66.5	65.5	68					
20-Aug-20	15:30	Sunny	69.9	71.4	68.2	65.5	68					
26-Aug-20	15:45	Sunny	73.5	77.6	68.6	65.5	73					

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

				Unit: dB (A) (30-min)								
	Date Time		e Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level				
	Dale	TIME	vealliei	_								
				L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
2	4-Aug-20	15:15	Rainy	72.0	73.7	70.0	63.6	71				
1	0-Aug-20	16:00	Sunny	69.9	72.8	67.0	63.6	69				
2	20-Aug-20	14:50	Sunny	71.2	73.1	69.0	63.6	70				
2	26-Aug-20	14:50	Sunny	71.2	73.1	68.6	63.6	70				

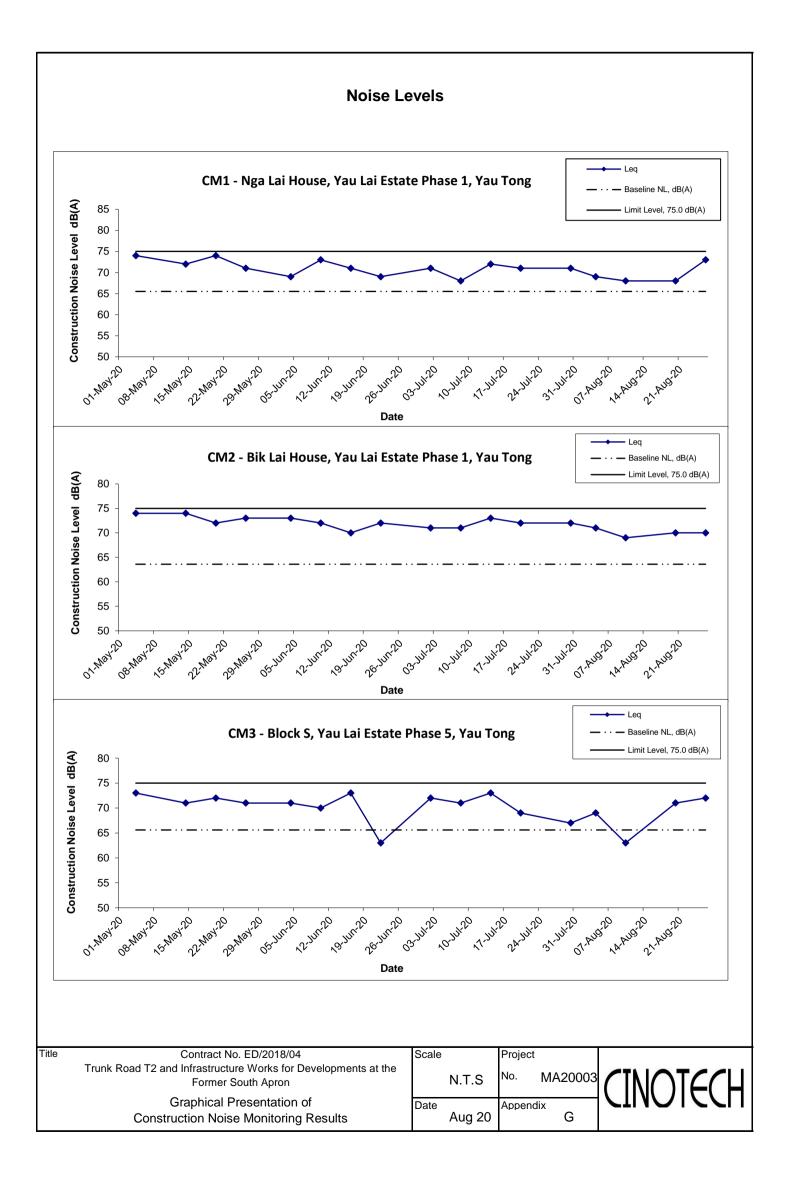
Location CM3 ·	Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong											
				Unit: dB (A) (30-min)								
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
Dale	TIME	Weather	_									
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
4-Aug-20	16:00	Rainy	70.4	72.1	68.1	65.6	69					
10-Aug-20	17:00	Sunny	67.4	69.3	65.5	65.6	63					
20-Aug-20	16:15	Sunny	72.3	74.7	69.3	65.6	71					
26-Aug-20	16:45	Sunny	72.8	74.4	69.5	65.6	72					

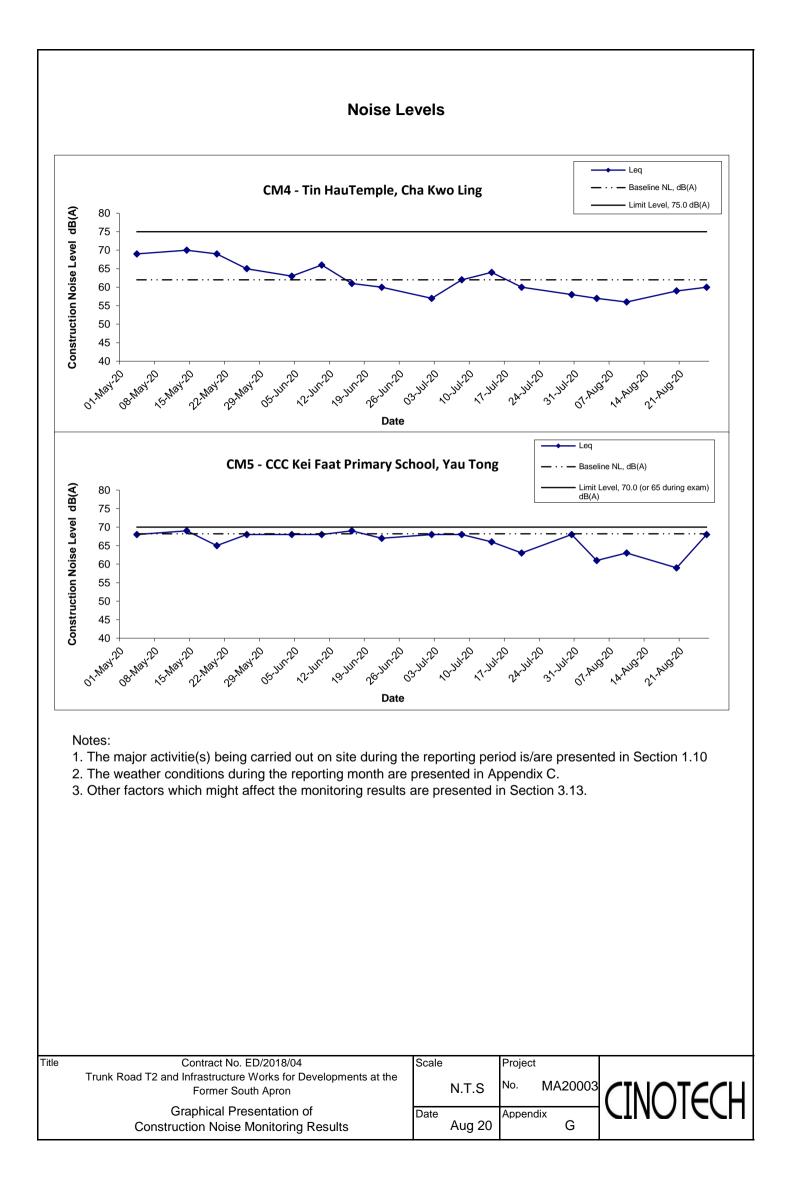
Location CM4 - Tin Hau Temple, Cha Kwo Ling								
					Unit:	dB (A) (30-min)		
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Dale	TILLE							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Aug-20	9:35	Rainy	57.1	59.5	54.1	62.0	57 Measured \leq Baseline	
10-Aug-20	13:00	Sunny	62.9	65.1	58.3	62.0	56	
20-Aug-20	13:10	Sunny	58.6	61.3	53.0	62.0	59 Measured \leq Baseline	
26-Aug-20	11:30	Sunny	60.4	62.5	54.3	62.0	60 Measured \leq Baseline	

Location CM5 - CCC Kei Faat Primary School, Yau Tong								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Time	weather						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Aug-20	11:05	Rainy	68.9	72.2	66.8	68.2	61	
10-Aug-20	14:00	Sunny	69.3	73.8	67.2	68.2	63	
20-Aug-20	11:00	Sunny	68.7	70.5	66.1	68.2	59	
26-Aug-20	13:45	Sunny	67.9	69.8	65.9	68.2	68 Measured \leq Baseline	

MA16034/App G - Noise

Cinotech





APPENDIX H WASTE GENERATION 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 2020 (CKL)

	Actua	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual Quantities of C&D Wastes 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	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January											
February											
March											
April											
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
June	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.005
Sub-total	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.014
July	0.024	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.002
August	0.050	0.000	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.003
September											
October											
November											
December											
Total	0.075	0.000	0.000	0.000	0.075	0.000	0.000	0.000	0.000	0.000	0.019

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

Monthly Summary Waste Flow Table

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 200806 Checklist Reference Number 200806 Date 06 August 2020 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water QualityNo 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 previous audit session (Ref No.:200730), item (200723 – R1) has been rectified and the follow-up action are required for item (200730 – R1). 	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	07 August 2020
Checked by	Karina Chan	Julle	07 August 2020

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

Weekly Site Inspection Record Summary Inspection Information 200813 Checklist Reference Number 200813 Date 13 August 2020 (Thursday)

Date	15 August 2020 (Thursday)	
Time	09:30 - 12:00	
		\mathbf{D} \mathbf{I} \mathbf{I}

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit session (Ref No.:200806), item (200730 – R1) has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	14 August 2020
Checked by	Karina Chan	Zalle	14 August 2020

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	200820
Date	20 August 2020 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	Item 100.
200820 - R1	• Accumulation of water within a skip at Launching shaft was observed.	B9
200820 - R2	• Accumulation of oil presented on the water was found in the drip tray.	B19iv
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
200820 - R2	• Accumulation of oil presented on the water was found in the drip tray.	E8 & E9
	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 environmental deficiency was identified on previous inspection session (Ref No.: 200813)	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	21 August 2020
Checked by	Karina Chan	Zelle	21 August 2020

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	200827
Date	27 August 2020 (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 previous audit session (Ref No.:200820), all items has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	28 August 2020
Checked by	Karina Chan	Julle	28 August 2020

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?			
Air Quality	Air Quality								
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO			
\$3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO			
\$3.8.7	 Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Use of frequent watering for particularly dusty construction areas and areas close to ASRs Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles on site haul roads. Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be at the maximum possible distance from ASRs 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. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation			
/	 Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO			

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
Noise Impact (Const	ruction Phase)					
S4.8	• Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump.	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	et (Construction Phase)			•		
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain. 	Control potential impacts from filling activities and marine–based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	 To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation. 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
\$5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps; and 	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.8	 adequate maintenance of drainage systems to prevent flooding and overflow. 					
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO

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	• chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and					
	 storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 					
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	 Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A
S6.8.5	 Standard Good Site Practice Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses. 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
\$6.8.6	 Measure to Minimize Groundwater Inflow The drained tunnel construction method with groundwater inflow control measures would generally be adopted. During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
	 Measure to Minimize Impact on Corals <u>Coral translocation</u> It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S6.8.8	 A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation. 	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A
	 Post translocation Monitoring A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. 					
\$6.8.9 \$6.8.10	 Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	 Compensation for Vegetation Loss Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	Construction Phase)					
S8.6.3	 Good Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	 Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 					
	 Good Site Practices and Waste Reduction Measures (con't) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 					Waste Disposal Ordinance (Cap. 354)
S8.6.4	 Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.6	Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.7	 Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
	 Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
58.6.8/ Waste Management Plan	 Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
8.6.9/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	 Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	 Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005
	 Sediments (con't) The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excaveted sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. 					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	 Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment shury to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic selfmonitoring devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containment method is a method whereby the sediments	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	Chemical Wastes. If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?			
S8.6.27/ Waste Management Plan	• General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)			
Impact on Cultural H	Impact on Cultural Heritage (Construction Phase)								
\$9.6.4	 Dust and visual impacts Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. 	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO			
\$9.6.4	 Indirect vibration impact Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work. 	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.			
Built Heritage Mitigation Plan	 Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.			

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?				
Landscape and Visua	Landscape and Visual Impact (Construction Phase)									
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A				

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?			
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A			
Landfill Gas Hazard (Design and Construction Phase)									
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note			
	Safety Measures								
	 For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). The permit to work procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. 								

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$11.5.10 \$11.5.25	• Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air.	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
	 Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. 					
	 During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. Fire drills should be organized at not less than six monthly intervals. The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. 					
	 All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. 					
	• Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong).					
	• Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person.					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.26 - S11.5.31	 Monitoring Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. For excavations deeper than 1m, measurements should be carried out: at the ground surface before excavation commences;- immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation remains open; and periodically throughout the working day whilst workers are in the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: directly after the excavation has been completed; and periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

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

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

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

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

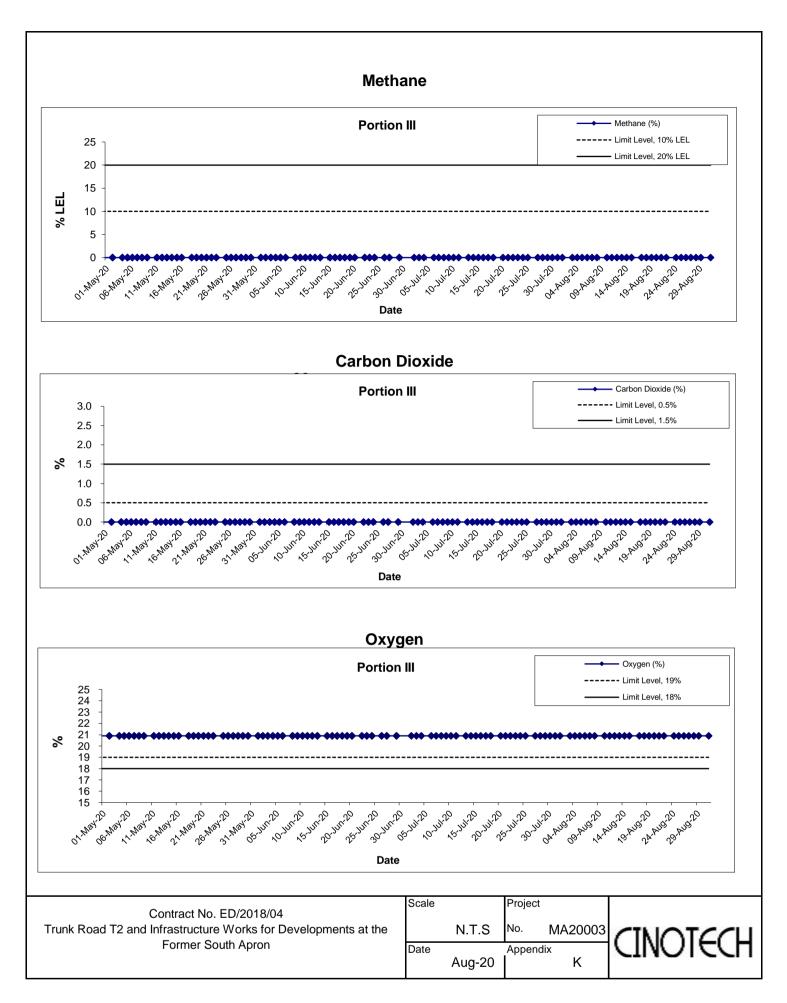
EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
Construction N	loise Impact			
Water Quality	Impact			
Ecological Imp	act			
Fisheries Impa	ct			
Waste Manage	ment			
Landscape and	l Visual Impact			
Landfill Gas H	azards			

APPENDIX K RECORD OF LANDFILL GAS MONITORING BY CONTRACTOR

APPENDIX K - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR

Location	Date of Measurement	Sampling time	Weather Condition	Temperature (°C)	Methane (%)	Carbon dioxide (%)	Oxygen (%)
Portion III	1-Aug-20	8:02	Rainy	26	0	0	20.9
Portion III	1-Aug-20	13:03	Rainy	30	0	0	20.9
Portion III	3-Aug-20	8:00	Cloudy	26	0	0	20.9
Portion III	3-Aug-20	13:00	Cloudy	30	0	0	20.9
Portion III	4-Aug-20	8:04	Cloudy	26	0	0	20.9
Portion III	4-Aug-20	13:02	Cloudy	30	0	0	20.9
Portion III	5-Aug-20	8:10	Rainy	25	0	0	20.9
Portion III	5-Aug-20	13:07	Rainy	32	0	0	20.9
Portion III	6-Aug-20	8:03	Sunny	28	0	0	20.9
Portion III	6-Aug-20	13:02	Sunny	34	0	0	20.9
Portion III	7-Aug-20	8:03	Sunny	27	0	0	20.9
Portion III	7-Aug-20	13:02	Sunny	34	0	0	20.9
Portion III	8-Aug-20	8:05	Sunny	28	0	0	20.9
Portion III	8-Aug-20	13:04	Sunny	34	0	0	20.9
Portion III	10-Aug-20	8:10	Sunny	28	0	0	20.9
Portion III	10-Aug-20	13:11	Sunny	33	0	0	20.9
Portion III	11-Aug-20	8:07	Sunny	29	0	0	20.9
Portion III	11-Aug-20	13:07	Sunny	32	0	0	20.9
Portion III	12-Aug-20	8:04	Rainy	26	0	0	20.9
Portion III	12-Aug-20	13:03	Rainy	30	0	0	20.9
Portion III	13-Aug-20	8:10	Rainy	26	0	0	20.9
Portion III	13-Aug-20	13:07	Rainy	32	0	0	20.9
Portion III	14-Aug-20	8:11	Cloudy	26	0	0	20.9
Portion III	14-Aug-20	13:00	Cloudy	33	0	0	20.9
Portion III	15-Aug-20	8:07	Sunny	27	0	0	20.9
Portion III	15-Aug-20	13:08	Sunny	33	0	0	20.9
Portion III	17-Aug-20	8:10	Rainy	26	0	0	20.9
Portion III	17-Aug-20	13:07	Cloudy	31	0	0	20.9
Portion III	18-Aug-20	8:10	Rainy	26	0	0	20.9
Portion III	18-Aug-20	13:07	Rainy	30	0	0	20.9
Portion III	19-Aug-20	8:10	Rainy	24	0	0	20.9
Portion III	19-Aug-20	13:07	Rainy	28	0	0	20.9
Portion III	20-Aug-20	8:10	Cloudy	27	0	0	20.9
Portion III	20-Aug-20	13:02	Cloudy	32	0	0	20.9
Portion III	21-Aug-20	8:14	Sunny	27	0	0	20.9
Portion III	21-Aug-20	13:04	Sunny	33	0	0	20.9
Portion III	22-Aug-20	8:10	Sunny	27	0	0	20.9
Portion III	22-Aug-20	13:07	Sunny	33	0	0	20.9
Portion III	24-Aug-20	8:15	Sunny	28	0	0	20.9
Portion III	24-Aug-20	13:05	Sunny	34	0	0	20.9
Portion III	25-Aug-20	8:15	Cloudy	28	0	0	20.9
Portion III	25-Aug-20	13:07	Sunny	33	0	0	20.9
Portion III	26-Aug-20	8:09	Rainy	27	0	0	20.9
Portion III	26-Aug-20	13:05	Cloudy	32	0	0	20.9
Portion III	20-Aug-20 27-Aug-20	8:06	Cloudy	26	0	0	20.9
Portion III	27-Aug-20 27-Aug-20	13:06	Cloudy	31	0	0	20.9
Portion III	27-Aug-20 28-Aug-20	8:07	Rainy	24	0	0	20.9
Portion III	28-Aug-20	13:04	Rainy	34	0	0	20.9
Portion III	28-Aug-20 29-Aug-20	8:15	Rainy	27	0	0	20.9
Portion III	29-Aug-20 29-Aug-20	13:02	Rainy	33		0	20.9
Portion III	29-Aug-20 31-Aug-20	8:10		33 27	0	0	20.9
Portion III Portion III	31-Aug-20 31-Aug-20	13:02	Rainy Rainy	34	0	0	20.9

APPENDIX K - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR



APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

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

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

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

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action
	<19%	• Ventilate to restore oxygen to >19%
Owngon		• Stop works
Oxygen	<18%	• Evacuate personnel/prohibit entry
		• Increase ventilation to restore oxygen to >19%
	> 100/ LEL (i.e. $> 0.50/$ by volume)	Prohibit hot works
	>10% LEL (i.e. > 0.5% by volume)	• Ventilate to restore methane to <10% LEL
Methane		• Stop works
	>20% LEL (i.e. > 1% by volume)	• Evacuate personnel / prohibit entry
		• Increase ventilation to restore methane to <10% LEL
	>0.5%	• Ventilate to restore carbon dioxide to $< 0.5\%$
Carbon		• Stop works
Dioxide	>1.5%	• Evacuate personnel / prohibit entry
		• Increase ventilation to restore carbon dioxide to <0.5%

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

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

 $\label{eq:spectral_system} \begin{array}{l} \textbf{Appendix} \ \textbf{M} - \textbf{Summary of environmental complaint, warning, summon and notification of successful prosecution} \end{array}$

Reporting Month: August 2020

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

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

APPENDIX N SUMMARY OF EXCEEDANCE

Contract No. ED/2018/04

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

Appendix N – Summary of Exceedance

Reporting Period: August 2020

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landfill Gas (NIL in the reporting month)

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							March April May June July August September October November December January February March 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14
ED/2018/04 TRUNK ROAD T2	424	02-Jan-20	09-Jun-21	529	31-Dec-19 A	15-Oct-21	
DESIGN SUBMISSION & APPROVAL	403	02-Jan-20	14-May-21	529	31-Dec-19 A	15-Oct-21	
GENERAL	402	02-Jan-20	13-May-21		02-Jan-20 A	15-Oct-21	
Project Design Plan	26	18-Mar-20	21-Apr-20	33	10-Mar-20 A	21-Apr-20 A	▼ Project Design Plan
Project Design Plan - 2nd Review	35	18-Mar-20	21-Apr-20 21-Apr-20	43	10-Mar-20 A	21-Apr-20 A	Project Design Plan - 2nd Review
Project Design Plan - Approval	0	10-11/101-20	21-Apr-20 21-Apr-20	43	10-1011-20 A	21-Apr-20 A 21-Apr-20 A	Project Design Frait 2 Int Kevew
Design Memorandum	36	17-Jan-20	02-Mar-20	195	16-Jan-20 A	11-Sep-20	▼ Design Memorandum
Design Memorandum - 2nd Sub	12	17-Jan-20	03-Feb-20	143	16-Jan-20 A	13-Jul-20 A	Design Memora'ndum - 2nd Sub
Design Memorandum - Final Review	28	04-Feb-20	02-Mar-20	60	14-Jul-20 A	11-Sep-20	posgri renstatiadin , d. oup
Design Memorandum - Approval	0	0410020	02-Mar-20	0	IF JUI 20 A	11-Sep-20	Design Memorandum' - Approval
Ground Investigation Report - Kai Tak Area	237	02-Jan-20	19-Oct-20	343	02-Jan-20 A	27-Feb-21	▼ Ground Investigation Report - Kai Tak Area
Ground Investigation - Mobilization	24	02-Jan-20	01-Feb-20	24	02-Jan-20 A	01-Feb-20 A	tigation: - Mobilization
Ground Investigation - South Apron Area	72	03-Feb-20	02-May-20	178	03-Feb-20 A	05-Sep-20	Ground Investigation: - South Apron Area
Ground Investigation Report Vol 1 - Prepare & submit 1st draft	48	04-May-20	29-Jun-20	48	07-Sep-20	04-Nov-20	Ground Investigation Report Vol 1:- Prepare & submit 1st draft
Ground Investigation Report Vol 1 - 1st Sub	0	, ,	29-Jun-20	0		04-Nov-20	♦ Ground Investigation Report Vol 1- 1st Sub
Ground Investigation Report Vol 1 - Review	28	30-Jun-20	27-Jul-20	28	05-Nov-20	02-Dec-20	Ground Investigation Report Vol 1- Review
Ground Investigation Report Vol 1 - Resubmission	48	28-Jul-20	21-Sep-20	48	03-Dec-20	30-Jan-21	Ground Investigation Report V
Ground Investigation Report Vol 1 - 2nd Sub	0		21-Sep-20	0		30-Jan-21	♦ Ground Investigation; Report; V
Ground Investigation Report Vol 1 - 2nd Sub Review	28	22-Sep-20	19-Oct-20	28	31-Jan-21	27-Feb-21	Ground Investig
Ground Investigation Report Vol 1 - Approval	0		19-Oct-20	0		27-Feb-21	🔶 Ground Investig
Ground Investigation Report - Tunnel	143	28-Apr-20	17-Oct-20	166	28-Apr-20 A	14-Nov-20	Ground Investigation Report - Tunnel
Ground Investigation - Marine GI	85	28-Apr-20	08-Aug-20	109	28-Apr-20 A	05-Sep-20	Ground Investigation' - Marine GI
Ground Investigation Report Vol 2 - Prepare & submit 1st draft	12	10-Aug-20	22-Aug-20	12	07-Sep-20	19-Sep-20	Ground Investigation Report Vol.2 - Prepare & submit 1st draft
Ground Investigation Report Vol 2 - 1st Sub	0		22-Aug-20	0		19-Sep-20	Ground Investigation Report; Vol.2 - 1 st Sub;
Ground Investigation Report Vol 2 - Review 1st Sub	28	23-Aug-20	19-Sep-20	28	20-Sep-20	17-Oct-20	Ground Investigation Report Vol.2 - Review 1st Sub
Ground Investigation Report Vol 2 - 2nd Sub	0		19-Sep-20	0		17-Oct-20	♦ Ground Investigation Report Vol 2 - 2nd Sub
Ground Investigation Report Vol 2 - Review 2nd Sub	28	20-Sep-20	17-Oct-20	28	18-Oct-20	14-Nov-20	Ground Investigation Report Vol 2 - Review 2nd Sub
Ground Investigation Report Vol 2 - Approval	0		17-Oct-20	0		14-Nov-20	♦ Ground Investigation: Report: Vol:2 - Approval
Construction Traffic Impact Assessment - Kai Tak Area	162	16-Jan-20	04-Aug-20	182	24-Feb-20 A	03-Oct-20	Construction Traffic Impact Assessment - Kai Tak Area
CTIA Kai Tak Area - Prepare & submit 1st draft	90	16-Jan-20	09-May-20	90	24-Feb-20 A	13-Jun-20 A	CTIA Kai Tak Area - Prepare & submit 1st draft
CTIA Kai Tak Area - 1st Sub	0		09-May-20	0		13-Jun-20 A	♦ CȚIA Kai Tak Area - 1st Sub
CTIA Kai Tak Area - Review	28	10-May-20	06-Jun-20	17	14-Jun-20 A	30-Jun-20 A	CTIA Kai Tak Area - Review
CTIA Kai Tak Area - Resubmission	24	08-Jun-20	07-Jul-20	57	02-Jul-20 A	05-Sep-20	CTIA/Kai/Tak/Aréa - Resubmission
CTIA Kai Tak Area - 2nd Sub	0		07-Jul-20	0		05-Sep-20	◆ CTIA:Kai:Tāk Area - 2nd:Sub
CTIA Kai Tak Area - Approval	28	08-Jul-20	04-Aug-20	28	06-Sep-20	03-Oct-20	
CTIA Kai Tak Area - Approval	0	1(Mar 20	04-Aug-20	0	1/ Mar 20 A	03-Oct-20	◆ CTIA;Kai;Tak Area - Approva
Construction Traffic Impact Assessment - Lam Tin Area	86	16-Mar-20	02-Jul-20	134	16-Mar-20 A	27-Aug-20 A	Cinstruction Traffic Impact Assessment - Lam Tin Area
CTIA Lam Tin Area - Prepare & submit 1st draft	30	16-Mar-20	23-Apr-20	30	16-Mar-20 A	23-Apr-20 A	CTIA Lam Tin Area - Prepare & submit 1st draft
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CTIA Lam Tin Area - Resubmission	28 12	24-Apr-20 22-May-20	21-May-20 04-Jun-20	38	24-Apr-20 A 22-May-20 A	21-May-20 A 07-Jul-20 A	CTIA Lam Tin Area - Resubmission
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Durability As sessment Report	71	11-Mar-20	09-Jun-20	140	17-Mar-20 A	05-Sep-20	v Durability Assessment Report
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Durability Assessment Report - Review	28	12-Mar-20	08-Apr-20	35	18-Mar-20 A	21-Apr-20 A	Durability Assessment Report - Review
Durability Assessment Report - Resubmission	20	09-Apr-20	12-May-20	25	22-Apr-20 A	22-May-20 A	Derballity Assessment Report - Resubmission
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Durability Assessment Report - Approval	0	<u> </u>	09-Jun-20	0	,	05-Sep-20	◆ Durability Assessment Report - Approval
ACABAS - Western Tunnel Portal and Concrete Finishes for	170	13-Mar-20	08-Oct-20	154	31-Aug-20	08-Mar-21	ACABAS - Western Tunnel Portal and Concrete Finishes for Retaining Structure
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DDA - Draft - Final Review and prepare for 1st Sub	21	20-Feb-20	14-Mar-20	13	27-Mar-20 A	15-Apr-20 A			DDA	- Draft - Final Rev		e far 1st S	Sub												
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CLP Substation - Building Services and Underground Utiliti	73	20-Feb-20	21-May-20	160		05-Sep-20					P Substation - B	Building S	Services	and Undergr	ound Utilit	ies Desigr	n								
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Page 2 of 30 Data Date: 30-Aug-20 Milestone
 Planned Bar

Summary

Actual Milestone
 Actual Work

Baseline MilestoneBaseline Bar

iticalActivity

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

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Page 3 of 30 Data Date: 30-Aug-20 Milestone
 Summary
 Planned Bar

Date: 30-Aug-20

Actual Milestone

Baseline Milestone
Baseline Bar

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

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DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21	42	12-Oct-20*	30-Nov-20	J				DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	24	01-Dec-20	30-Dec-20	J				DDA - Draft - Final Revie
DDA - 1st Sub	0	T	09-Feb-21	0	'	30-Dec-20	J				♦ DDA - 1st Sub
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AIP - Draft - Preparation by Designer	24	31-Aug-20	26-Sep-20	24	31-Aug-20*	26-Sep-20	J		AlP - Draft - Preparation by	,yDesigner	
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Page 4 of 30 ♦ ♦ Milestone ▼	Summary	.y I	1							Date Rev	evision Checked Approved

Page 4 of 30 Data Date: 30-Aug-20 lestone

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

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	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

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DEPRESSED ROAD [DPR]	327	13-Jan-20	19-Feb-21	353	04-Feb-20 A	14-Apr-21							1 1 1						1 1					▼ DEPRE	ESSED ROA
Page 5 of 30	Summarv																		Date		Revis	ion	Checked		proved

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

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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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
		0102 Start	01021111311	Du	Stat	THIST	March April May June July August September October November December January February March
AIP DPR - ELS & PCRA	31	20-Jan-20	27-Feb-20	23	04-Feb-20 A	20 Eab 20 A	01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 07 14 21 8 AlP DPR - ELS & PCRA
AIP - Update & prepare for 2nd Sub	7	20-Jan-20	30-Jan-20	19	04-Feb-20 A		AIP - Update & prepare for 2nd Sub
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AIP - 210 Review by SO AIP - SO Consent for DDA Submission	0	31-JdII-20	27-Feb-20 27-Feb-20	4	20-Feb-20 A		AIP -/SO/Corisent for DDA Submission
AIP - SO CONSENTION DDA Submission AIP DPR - Permanent Structure	87	13-Jan-20	04-May-20		11-Feb-20 A	29-reb-20 A 17-Jul-20 A	
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AIP - Draft - Final Review and prepare for 1st Sub	24	13-Jan-20	12-Feb-20	2	11-Feb-20 A		
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AIP - Review by IP / DC AIP - Prepare for 2nd Sub	28		11-Mar-20	48	13-Feb-20 A	2011012011	All - Review By IF / DC
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DDA - Review by IP / DC	28	28-Feb-20	26-Mar-20	13	13-Mar-20 A	25-Mar-20 A	
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DDA - Draft - Preparation by Designer	36	28-Feb-20	14-Apr-20	170	28-Feb-20 A	02-Jul-20 A	DDA - Draft - Pregaration by Designer
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DDA - Draft - Preparation by Designer	37	13-Feb-20	26-Mar-20	11	01-Jun-20 A	12-Jun-20 A	DDA - Draft - Preparation by Designer
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Summary Planned Bar

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

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	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
S)	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							March April May June July August September October November December January February March
DDA - SO Consent for Construction	0		18-Jul-20	0		18-Jun-20 A	01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 28 07 14 21 8
DDA - Review by IP / DC	28	04-May-20	31-May-20	0	18-Jun-20 A	18-Jun-20 A	I DDA - Reviewby IP //DC
DDA - Review by SO	28	04-May-20	31-May-20	18	19-Jun-20 A	06-Jul-20 A	DDA - Review by SO
DDA DPR - Permanent Structure	111	21-May-20	29-Sep-20	104	21-Jul-20 A	21-Nov-20	V DDA DPR - Permahent Structure
DDA - Draft - Preparation by Designer	24	21-May-20	17-Jun-20	23	21-Jul-20 A	17-Aug-20 A	DDA Draft - Prepatation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	18-Jun-20	14-Jul-20	17	18-Aug-20 A	05-Sep-20	DDA + Draft Final Review and prepare for 1st Sub
DDA - 1st Sub	0	10 501120	14-Jul-20	0	10 Aug 20 A	05-Sep-20	◆ DDA - 1st Sub
DDA - Review by SO	28	15-Jul-20	11-Aug-20	28	06-Sep-20	03-Oct-20	DDA Review by SO
DDA - Review by IP / DC	28	15-Jul-20	11-Aug-20	28	06-Sep-20	03-Oct-20	DDA Review by IP / DC
DDA - Further information required by SO	12	12-Aug-20	25-Aug-20	12	05-Oct-20	17-Oct-20	DDA - Further information required by \$O
DDA - 2nd Sub	0	12-Aug-20	25-Aug-20	0	03-001-20	17-Oct-20	◆ DDA 2nd Sub
DDA - 2nd Review by SO	35	26-Aug-20	29 Aug 20 29-Sep-20	35	18-Oct-20	21-Nov-20	DDA 2nd Review by SQ
DDA - SO Consent for Construction	0	20 Aug 20	27 Sep 20 29-Sep-20	0	10 001 20	21-Nov-20	♦ DDA - SQ Consent for Construction
DDA DPR - Portal Structure	114	30-Sep-20	19-Feb-21	113	23-Nov-20	14-Apr-21	
DDA - Draft - Preparation by Designer	30	30-Sep-20	06-Nov-20	30	23-Nov-20	29-Dec-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	06-100V-20 04-Dec-20	24	30-Dec-20	29-Dec-20 27-Jan-21	DDA - Drait - Picparation by Designer
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DDA - TST Sub DDA - Review by SO	28	05-Dec-20	04-Dec-20 01-Jan-21	28	28-Jan-21	24-Feb-21	
DDA - Review by SO DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21	28	28-Jan-21	24-Feb-21 24-Feb-21	
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21	12	25-Feb-21	10-Mar-21	
DDA - 2nd Sub	0	Jun-2 1	15-Jan-21	0	20100-21	10-Mar-21	→ DDA - 2r
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	35	11-Mar-21	14-Apr-21	
DDA - SO Consent for Construction	0	10 541121	19-Feb-21	0		14-Apr-21	
WEST VENTILATION BUILDING [WVB]	331	12-Mar-20	26-Apr-21	352	17-Feb-20 A	26-Apr-21	
AIP WVB - ELS Design & PCRA	82	23-Mar-20	04-Jul-20		29-Jun-20 A	28-Aug-20 A	AlP WVB - ELS ⊅esign & PCRA
AIP - Draft - Preparation by Designer	36	23-Mar-20	09-May-20	19	29-Jun-20 A	20 Aug 20 A 21-Jul-20 A	AIP:- Draft - Préparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	24	11-May-20	06-Jun-20	17	27-Jul-20 A	21-Jul-20 A	All Didit in participation by besigned
AIP - 1st Sub	0	11-1via y-20	06-Jun-20	0	21-Jul-20 A	21-Jul-20 A	AIPI- 1st Sub
AIP - Review by SO	28	07-Jun-20	04-Jul-20	34	22-Jul-20 A	24-Aug-20 A	
AIP - Review by SO AIP - Review by GEO via SO	28	07-Jun-20	04-Jul-20	34	22-Jul-20 A	24-Aug-20 A	AIP + Review by GEO via SO
AIP - Review by IP / DC	28	07-Jun-20	04-Jul-20	38	22-Jul-20 A		
AIP - SO Consent for DDA Submission	0	07 541120	04-Jul-20	0	22 341 20 77	24-Aug-20 A	♦ AIP SQ Consentifor DDA Submission
AIP WVB - Permanent Structure	99	12-Mar-20	14-Jul-20	154	17-Feb-20 A	24-Aug-20 A	
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Mar-20	09-Apr-20	22	17-Feb-20 A	12-Mar-20 A	AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0	12 1001-20	09-Apr-20	0	17 1 CU ZU A	12-Mar-20 A	 ♦ ♦ AIP - 1st Sub
AIP - Review by SO	28	10-Apr-20	07-May-20	15	13-Mar-20 A	27-Mar-20 A	AIP - Review by SO
AIP - Review by IP / DC	28	10-Apr-20	07-May-20	126	13-Mar-20 A	16-Jul-20 A	
AIP - Prepare for 2nd Sub	40	08-May-20	16-Jun-20		28-Mar-20 A	16-Jul-20 A	AIP - Prepare for 2nd Sub
AIP - 2nd Sub	0		16-Jun-20	0		16-Jul-20 A	♦ AIP - 2nd Sub
AIP - 2nd Review by SO	28	17-Jun-20	14-Jul-20	38	17-Jul-20 A	24-Aug-20 A	AP ÷ 2nd Review by SO
DDA WVB - ELS Design (DC RA + Dewatering & Pumping T	140	08-Jun-20	23-Nov-20	154	03-Jul-20 A	05-Jan-21	▼ DDA WVB -: ELS Design (DCRA + Dewatering:& Plumping: Test)
DDA - Draft - Preparation by Designer	39	08-Jun-20	24-Jul-20	56	03-Jul-20 A	05-Sep-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	25-Jul-20	21-Aug-20	24	07-Sep-20	06-Oct-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		21-Aug-20	0	=	06-Oct-20	◆ DDA - 1/st Sub
DDA - Review by SO	28	22-Aug-20	18-Sep-20	28	07-Oct-20	03-Nov-20	DDA - Review by SO
DDA - Review by GEO via SO	28	22-Aug-20	18-Sep-20	28	07-Oct-20	03-Nov-20	DDA - Review by GEOlvia SQ
DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20	28	07-Oct-20	03-Nov-20	
DDA - Further information required by SO	24	19-Sep-20	19-Oct-20	24	04-Nov-20	01-Dec-20	DDA - Further information required by SO
DDA - 2nd Sub	0		19-Oct-20	0		01-Dec-20	DDA - 2nd Sub
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	35	02-Dec-20	05-Jan-21	DDA - 2nd Review by \$O
DDA - SO Consent for Construction	0		23-Nov-20	0		05-Jan-21	♦ DDA - SO Consent for Construction
DDA WVB - Accommodation (SoA)	156	17-Jul-20	21-Jan-21		17-Jul-20 A	21-Jan-21	▼ DDA WVB - Accommodation (SoA)
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Page 7 of 30	Summary						Date Revision Checked Approved

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

BOUYGUES

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Date	Revision	Checked	Approved
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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020				202	21
							March April	May June 5 03 10 17 24 31 07 14 21 28 05	July August	September October Novem 3 30 06 13 20 27 04 11 18 25 01 08 15		January Febru 27 03 10 17 24 31 07	
DDA - Draft - Preparation by Designer	52	17-Jul-20	15-Sep-20	52	17-Jul-20 A	15-Sep-20				DDA Draft - Preparation by Desi			
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Sep-20	15-Oct-20	24	16-Sep-20	15-Oct-20			J J J	DDA - Draft - Fin	al Review and prepare	e for 1st Sub	
DDA - 1st Sub	0		15-Oct-20	0	· ·	15-Oct-20			J L L J L L J L L J	♦ DDA - 1st Sub			
DDA - Review by SO	28	16-Oct-20	12-Nov-20	28	16-Oct-20	12-Nov-20				<mark>.</mark> .	DA - Review by SO		
DDA - Review by IP / DC	28	16-Oct-20	12-Nov-20	28	16-Oct-20	12-Nov-20					DA - Review by IP / D	DC	
DDA - Further information required by SO	30	13-Nov-20	17-Dec-20	30	13-Nov-20	17-Dec-20			$\begin{array}{cccccccccccccccccccccccccccccccccccc$			A Further information requ	ired by SO
DDA - 2nd Sub	0		17-Dec-20	0		17-Dec-20					♦ DDA	A 2nd Sub	
DDA - 2nd Review by SO	35	18-Dec-20	21-Jan-21	35	18-Dec-20	21-Jan-21			······································				Review by SO
DDA - SO Consent for Construction	0		21-Jan-21	0		21-Jan-21							Consent for Construction
DDA WVB - Permanent Structure	137	16-Oct-20	02-Apr-21	137	16-Oct-20	02-Apr-21				····			
DDA - Draft - Preparation by Designer	45	16-Oct-20	08-Dec-20	45	16-Oct-20	08-Dec-20					DDA - Dr	raft - Preparation by Design	ner
DDA - Draft - Final Review and prepare for 1st Sub	12	09-Dec-20	22-Dec-20	12	09-Dec-20	22-Dec-20						DDA - Draft - Final Review a	
DDA - 1st Sub	0		22-Dec-20	0		22-Dec-20			······································		◆ D	DDA - 1 st Sub	
DDA - Review by SO	28	23-Dec-20	19-Jan-21	28	23-Dec-20	19-Jan-21			· · · · · · · · · · · · · · · · · · ·			DDA - Revie	wbySO
DDA - Review by IP / DC	28	23-Dec-20	19-Jan-21	28	23-Dec-20	19-Jan-21						DDA - Revie	w by IP / DC
DDA - Further information required by SO	30	20-Jan-21	26-Feb-21	30	20-Jan-21	26-Feb-21		- - <td>$\begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$</td> <td></td> <td></td> <td></td> <td>DDA - Further in</td>	$\begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ $				DDA - Further in
DDA - 2nd Sub	0		26-Feb-21	0		26-Feb-21							DDA - 2nd Sub
DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	35	27-Feb-21	02-Apr-21			·····				
DDA WVB - ABWF	89	23-Dec-20	16-Apr-21	89	23-Dec-20	16-Apr-21			· · · · · · · · · · · · · · · · · · ·				
DDA - Draft - Preparation by Designer	45	23-Dec-20	19-Feb-21	45	23-Dec-20	19-Feb-21							DDA - Draft - Prepa
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Feb-21	19-Mar-21	24	20-Feb-21	19-Mar-21							
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DDA - Review by SO	28	20-Mar-21	16-Apr-21	28	20-Mar-21	16-Apr-21			+++				
DDA - Review by IP / DC	28	20-Mar-21	16-Apr-21	28	20-Mar-21	16-Apr-21							
DDA WVB - General Building Plan	74	22-Jan-21	26-Apr-21	74	22-Jan-21	26-Apr-21							
DDA - Draft - Preparation by Designer	30	22-Jan-21	01-Mar-21	30	22-Jan-21	01-Mar-21							DDA - D'raft - I
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Mar-21	29-Mar-21	24	02-Mar-21	29-Mar-21							
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DDA - Review by SO	28	30-Mar-21	26-Apr-21	28	30-Mar-21	26-Apr-21							
DDA - Review by IP / DC	28	30-Mar-21	26-Apr-21	28	30-Mar-21	26-Apr-21		╞╞╌╴┼╌╴┽╌╌╞╶╴┤╴╶┼╌╶╞╶╴┽╴╴┽╴╴┽╴		╌┋╸╴┊╴╴┊╴╴┊╶╴┊╴╞╶┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴			
SOUTH APRON ROAD WORKS	372	16-Jan-20	21-Apr-21	372	16-Jan-20 A	21-Apr-21							
DDA Road S20 - Permanent Utility Design	94	16-Jan-20	14-May-20	135	24-Mar-20 A	05-Sep-20		✓ DDA Road S2'0 - Permanent					
SOR	94	16-Jan-20	14-May-20		24-Mar-20 A	05-Sep-20		SOR					
DDA - Draft - Final Review and prepare for 1st Sub	30	16-Jan-20	22-Feb-20	133	24-Mar-20 A	09-Apr-20 A		aft - Final Review and prepare for 1st S	J				
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DDA - Review by SO	28	23-Feb-20	21-Mar-20	12	10-Apr-20 A	21-Apr-20 A		DA - Review by SO					
DDA - Further information required by SO	15	23-Mar-20	09-Apr-20	42	22-Apr-20 A	11-Jun-20 A			r information required by S				
DDA - 2nd Sub	0	23 10101 20	09-Apr-20	0	22 Apr 20 A	11-Jun-20 A		DDA - 2nd Su	J				
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	42	12-Jun-20 A	24-Jul-20 A			DDA - 2nd Revie	ewiby SO			
DDA - Further information required by SO	0	10 Apr 20	14 May 20	5	25-Jul-20 A	30-Jul-20 A			4	er nformation required by SO			
DDA - 1 drafer information required by 30	0			0	20 Jui 20 A	30-Jul-20 A			DDA - 3rd S				
DDA - 3rd Sub DDA - 3rd Review by SO	0			37	31-Jul-20 A	05-Sep-20	+			DDA - 3rd Review by SO			
DDA - Sid Review by SO DDA - SO Consent for Construction	0			0	JI JUFZUA	05-Sep-20		<u></u>	++ <u>+</u> ++++++++++++-	◆ DDA - SQ ¢onsent for Construction			
WSD	0			71	14-May-20 A	· ·							
DDA - Reminder sent to WSD	0			0	14 1010 20 7	14-May-20 A		DDA - Reminder sent to WSD					
DDA - WSD Comment	0			5	14-May-20 A			DDA - WSD Comment					
DDA - RtC to WSD	0			23	21-May-20 A	-	+	DDA - RtC	to WSD				
DDA - Ric to WSD DDA - Circulate to WSD Planning & Design	0			0	21-11/10 y-20 A	22-Jun-20 A	+		Circulate to WSD Planning	NDesign			
DDA - Circulate to WSD Planning & Design DDA - WSD Design reply No Comment	0			5	23-Jun-20 A	30-Jun-20 A	-		A - WSD Design reply No				
· · · ·	0			5 11	23-Jun-20 A 23-Jun-20 A	30-Jul-20 A 08-Jul-20 A			DDA - WSD Design reply No				
DDA - WSD Planning reply by email No Comment	0				23-Jun-20 A 23-Jun-20 A	08-Jul-20 A 09-Jul-20 A			DDA - WSD reply by em	+ + + - + - + +			
DDA - WSD reply by email No Comment DDA - Consent for Waterworks	0			0	23-JUII-20 A	09-Jui-20 A 07-Aug-20 A				onsent for Waterworks			
	U			U		07-Aug-20 A							
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Summary

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

BOUYGUES TRAVAUX PUBLICS



Date	Revision	Checked	Approved
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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
		1	1		/		March April May June July August September October November December January February March
DSD	0			71	14-May-20 A	07-Aug-20 A	
DDA - Reminder sent to DSD	0	1	1	0		14-May-20 A	A DDA - Reminder sentito DSD
DDA - DSD Comment	0			13	14-May-20 A	29-May-20 A	DDA -DSD Comment
DDA - RtC to DSD	0	+		13	-	-	DDA - RiC to D\$D
DDA - Circulate to WSD Planning & Design	0			0		15-Jun-20 A	♦ DDA - Circulate to WSD Planning & Design
DDA - DSD Mainland South Division further comment by email	0	+		25	16-Jun-20 A	17-Jul-20 A	DDA DSD Mainland South Division further comment by email
DDA - RtC to DSD by email	0		,	4	18-Jul-20 A	23-Jul-20 A	DØA - RtC to DSD by email
DDA - DSD Land Drainage Division comment about design sea level	0		,	12		07-Aug-20 A	
HyD	0			24	02-Jul-20 A		
DDA - HyD comment received	0			0		02-Jul-20 A	► DDA - HyD comment received
DDA - RtC to HyD	0			23	03-Jul-20 A	30-Jul-20 A	
AIP Road S20 - Alignment, Traffic Sign, Road Marking and	80	30-Mar-20	09-Jul-20	66			AIP Road S20: - Alignment, Traffic Sign, Road Marking and Traffic Light
AIP - Draft - Final Review and prepare for 1st Sub	12	30-Mar-20	16-Apr-20	2			
AIP - Review by SO	28	17-Apr-20	14-May-20	13			
AIP - Further information required by SO	20	15-May-20	14-ivia y-20	33	· ·	,	AIP Further information required by SO
AIP - Putter information required by SO AIP - 2nd Review by SO	24	12-Jun-20	09-Jul-20	29	,	17-Jul-20 A	All - Indirectine do y So
DDA Road S20 - Alignment, Traffic Sign, Road Marking and		12-Juii-20	09-Jul-20 07-Jul-20	190		05-Sep-20	DDA Road S20 - Alignment, Traffic Sign, Road Marking and Traffic Light
SOR							SOR
	138	16-Jan-20	07-Jul-20	190		05-Sep-20	
DDA - Draft - Preparation by Designer	36	16-Jan-20	29-Feb-20	37	16-Jan-20 A	02-Mar-20 A	
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Mar-20	28-Mar-20		03-Mar-20 A		
DDA - 1st Sub	0		28-Mar-20	0		10-Mar-20 A	
DDA - Review by SO	28	29-Mar-20	25-Apr-20	13			
DDA - Further information required by SO	30	27-Apr-20	02-Jun-20	61	24-Mar-20 A		
DDA - 2nd Sub	0	ļ	02-Jun-20	0	/	09-Jun-20 A	
DDA - 2nd Review by SO	35	03-Jun-20	07-Jul-20	19			DDA - 2nd Review by SO
DDA - Further information required by SO	0		,	2	30-Jun-20 A		DDA - Further information required by SQ
DDA - 3rd Sub	0	I	, ,	0	/	02-Jul-20 A	► DDA - 3rd Sub
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DDA - SO Consent for Construction	0		, ,	0	1	05-Sep-20	♦ DDA - SO Consent for Construction
ТD	0			81	20-May-20 A	25-Aug-20 A	
DDA - TD Comment recieved	0		,	0	/	20-May-20 A	A DDA - TD Comment recieved
DDA - RtC to TD	0		,	34	21-May-20 A	02-Jul-20 A	DDA - RtC to TD
DDA - TD Further comment by email	0		,	21	03-Jul-20 A	28-Jul-20 A	DDA - TD Further comment by email
DDA - RtC to TD	0		1	23	29-Jul-20 A	25-Aug-20 A	DDA - RtC to TD
HyD	0			99	25-Mar-20 A	28-Jul-20 A	
DDA - HyD No Comment	0			0		25-Mar-20 A	↓ DDA - HyD No Comment
DDA - HyD Urban No Comment	0	+		0		23-Jun-20 A	
DDA - HyD Urban No Comment	0		,	0		28-Jul-20 A	DDA - HyD;Urban No Comment
DDA Road S20 - Roadworks and Street Fumiture	104	02-Mar-20	09-Jul-20	185	02-Mar-20 A	14-Oct-20	DDA R 🎪 d S20 🗣 Rong dworks and Street Furniture
DDA AMAWBC - Permanent Utility Design & Outfall 1	106	20-Jan-20	01-Jun-20			10-Oct-20	✓ DDA AMAWBC - Permanent Ulility:Design & Quifall 1
SOR	106	20-Jan-20	01-Jun-20			10-Oct-20	V SOR
DDA - Draft - Final Review and prepare for 1st Sub	30		26-Feb-20				
· · ·		20-Jan-20			24-IVId1-20 A		
DDA - 1st Sub	0		26-Feb-20	0	10 Apr 20 A	09-Apr-20 A	
DDA - Review by SO	28	27-Feb-20	25-Mar-20	12		· ·	
DDA - Further information required by SO	24	26-Mar-20	27-Apr-20	42	· ·		
DDA - 2nd Sub	0		27-Apr-20	0		11-Jun-20 A	
DDA - 2nd Review by SO	35	28-Apr-20	01-Jun-20	48		29-Jul-20 A	DDA - 2nd Review by SO
DDA - Further information required by SO	0	ļ	,	38		05-Sep-20	DDA Further information required by SD
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Page 9 of 30 ♦ ♦ Milestone ▼ S	Summary	ļ	1				

Page 9 of 30 Data Date: 30-Aug-20

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

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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
·	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish						
							March April 01 08 15 22 29 05 12 19	May June July August September Octo				
DDA - Reminder sent to WSD	0			0		14-May-20 A		◆ DDA - Reminder sentito WSD				
DDA - WSD Comment	0			5	14-May-20 A	20-May-20 A		DDA - WSD Comment				
DDA - RtC to WSD	0			23	21-May-20 A	17-Jun-20 A		DDA - RtC to WSD				
DDA - Circulate to WSD Planning & Design	0			0		22-Jun-20 A		DDA - Circulate to WSD Planning & Design				
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DDA Road L10 (S) - Permanent Utility Design	74	06-Oct-20	04-Jan-21	72	10-Dec-20	10-Mar-21		V				
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Oct-20	19-Oct-20	12	10-Dec-20	23-Dec-20						
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DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	35	04-Feb-21	10-Mar-21						
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking a	98	05-Sep-20	04-Jan-21	96	12-Nov-20	10-Mar-21						
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	24	12-Nov-20	09-Dec-20						
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DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	35	04-Feb-21	10-Mar-21						
DDA Road L10 (S) - Roadworks and Street Furniture	98	05-Sep-20	04-Jan-21	96	12-Nov-20	10-Mar-21						
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	24	12-Nov-20	09-Dec-20						
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AIP - 2nd Review by SO	28	26-Aug-20	22-Sep-20	28	18-Oct-20	14-Nov-20						

Page 10 of 30 Data Date: 30-Aug-20 Milestone
 Planned Bar

Actual Milestone
 Actual Work

iticalActivity

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

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/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu

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Page 11 of 30 Milestone	Summary	/						Date Revision Checked Approved

Page 11 of 30 Data Date: 30-Aug-20

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

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22-Feb-20	01V0	SPa/LLo	WYu
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Page 12 of 30 Data Date: 30-Aug-20 Milestone
 Planned Bar

Actual Milestone

Baseline MilestoneBaseline Bar

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

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2-Feb-20	01V0	SPa/LLo	WYu
9-Apr-20	01V1	SPa/LLo	WYu
7-Jul-20	01V2	SPa/LLo	WYu

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[STE] DDA Hoi Bun Road Junction - Roadworks and Street	75	19-Oct-20	18-Jan-21	77	23-Sep-20	24-Dec-20		
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	6	23-Sep-20	29-Sep-20	++	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	6	27-Oct-20	02-Nov-20	6	30-Sep-20	08-Oct-20		DDA - Draft:-Final Review and prepare for 1st Sub
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DDA - Review by SO	28	03-Nov-20	30-Nov-20	28	09-Oct-20	05-Nov-20		DDA - Reviewby SO
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	09-Oct-20	05-Nov-20		DDA - Review by IP / DC
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	06-Nov-20	19-Nov-20		DDA - Further information required by SO
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DDA - 2nd Review by SO	35	15-Dec-20	18-Jan-21	35	20-Nov-20	24-Dec-20		DDA-2nd Review by SO
DDA - SO Consent for Construction	0	15 DCC 20	18-Jan-21	0	20110120	24-Dec-20		◆ DDA - SO Consent for Construction
[STE] DDA Hoi Bun Road Junction - Street Lighting	75	19-Oct-20	18-Jan-21	77	23-Sep-20	24-Dec-20		TTELDDA Hei Bun Dead function
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	6	23-Sep-20 23-Sep-20	24-Dec-20 29-Sep-20		DDA Draft - Preparation by Designer
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DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	09-Oct-20	05-Nov-20		DDA - Review by IP / DC
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	06-Nov-20	19-Nov-20	++	╢╌┇╌╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴
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DDA - SO Consent for Construction	0	10.11 00	18-Jan-21	0	10.11 00	24-Dec-20	++	◆ DDA - SO Consent for Construction
[STE] AIP Slip Road S5	57	12-Nov-20	20-Jan-21	57	12-Nov-20	20-Jan-21		▼ [STE] AIP Slip Road S5
AIP - Draft - Preparation by Designer	24	12-Nov-20	09-Dec-20	24	12-Nov-20	09-Dec-20		AIP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12	10-Dec-20	23-Dec-20	12	10-Dec-20	23-Dec-20		AIP - Draft - Fihal Review and prepare for 1st Sub
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AIP - Review by SO	28	24-Dec-20	20-Jan-21	28	24-Dec-20	20-Jan-21		AIP - Review by SØ
AIP - Review by IP / DC	28	24-Dec-20	20-Jan-21	28	24-Dec-20	20-Jan-21		AIP - Review by IP / DC
AIP - SO Consent for DDA Submission	0		20-Jan-21	0		20-Jan-21		♦ AIP - SO Çonşent∦or DDA Submişs
[STE] DDA Slip Road S5 - Permanent Utility Design	71	21-Jan-21	21-Apr-21	71	21-Jan-21	21-Apr-21		
DDA - Draft - Preparation by Designer	6	21-Jan-21	27-Jan-21	6	21-Jan-21	27-Jan-21		DD/A - Draft - Preparation by De:
DDA - Draft - Final Review and prepare for 1st Sub	6	28-Jan-21	03-Feb-21	6	28-Jan-21	03-Feb-21		DDA - Drafi - Final Review a
DDA - 1st Sub	0		03-Feb-21	0		03-Feb-21		
DDA - Review by SO	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21		DDA - Revie
DDA - Review by IP / DC	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21		DDA - Revier
DDA - Further information required by SO	12	04-Mar-21	17-Mar-21	12	04-Mar-21	17-Mar-21		
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DDA - 2nd Review by SO	35	18-Mar-21	21-Apr-21	35	18-Mar-21	21-Apr-21		
[STE] DDA Slip Road S5 - Alignment, Traffic Sign, Road Ma	71	21-Jan-21	21-Apr-21	71	21-Jan-21	21-Apr-21		
DDA - Draft - Preparation by Designer	6	21-Jan-21	27-Jan-21	6	21-Jan-21	27-Jan-21		DDA - Draft - Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	6	28-Jan-21	03-Feb-21	6	28-Jan-21	03-Feb-21		DDA - Draft - Final Review a
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DDA - Review by IP / DC	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21		DDA - Revie
DDA - Further information required by SO	12	04-Mar-21	17-Mar-21	12	04-Mar-21	17-Mar-21		
DDA - 2nd Sub	0		17-Mar-21	0		17-Mar-21		♦ DDA
DDA - 2nd Review by SO	35	18-Mar-21	21-Apr-21	35	18-Mar-21	21-Apr-21		
[STE] DDA Slip Road S5 - Roadworks and Street Furniture	71	21-Jan-21	21-Apr-21	71	21-Jan-21	21-Apr-21		
DDA - Draft - Preparation by Designer	6	21-Jan-21	27-Jan-21	6	21-Jan-21	27-Jan-21		DDA - Draft - Prepáration by De:
DDA - Draft - Final Review and prepare for 1st Sub	6	28-Jan-21	03-Feb-21	6	28-Jan-21	03-Feb-21		DDA - Draft - Final Review a
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Page 13 of 30 Data Date: 30-Aug-20 Milestone
 Planned Bar

Summary

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

riticalActivity

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	
s	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020
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DDA - Review by SO	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21	
DDA - Review by IP / DC	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21	
DDA - Further information required by SO	12	04-Mar-21	17-Mar-21	12	04-Mar-21	17-Mar-21	
DDA - 2nd Sub	0		17-Mar-21	0		17-Mar-21	
DDA - 2nd Review by SO	35	18-Mar-21	21-Apr-21	35	18-Mar-21	21-Apr-21	
[STE] DDA Slip Road S5 - Street Lighting	71	21-Jan-21	21-Apr-21	71	21-Jan-21	21-Apr-21	
DDA - Draft - Preparation by Designer	6	21-Jan-21	27-Jan-21	6	21-Jan-21	27-Jan-21	
DDA - Draft - Final Review and prepare for 1st Sub	6	28-Jan-21	03-Feb-21	6	28-Jan-21	03-Feb-21	
DDA - 1st Sub	0		03-Feb-21	0		03-Feb-21	
DDA - Review by SO	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21	
DDA - Review by IP / DC	28	04-Feb-21	03-Mar-21	28	04-Feb-21	03-Mar-21	
DDA - Further information required by SO	12	04-Mar-21	17-Mar-21	12	04-Mar-21	17-Mar-21	
DDA - 2nd Sub	0		17-Mar-21	0		17-Mar-21	
DDA - 2nd Review by SO	35	18-Mar-21	21-Apr-21	35	18-Mar-21	21-Apr-21	
SUPPORTING UNDERGROUND STRUCTURE [SUS]	332	02-Mar-20	16-Apr-21	374	02-Mar-20 A	07-Jun-21	
Inspection Report of Existing SUS	48	02-Mar-20	02-May-20	47	02-Mar-20 A	29-Apr-20 A	✓ Inspection Report of Existing SUS
Prepare & Submit Inspection Report	48	02-Mar-20	02-May-20	47	02-Mar-20 A	29-Apr-20 A	Prepare & Submit Inspection Report
Submit Inspection Report	0		02-May-20	0		29-Apr-20 A	Submit Irispection Report
AIP SUS - Internal Structure	144	04-May-20	22-Oct-20	131	06-Jul-20 A	08-Dec-20	
AIP - Draft - Preparation by Designer	72	04-May-20	28-Jul-20	60	06-Jul-20 A	12-Sep-20	AlP -: Diaft - Pre
AIP - Draft - Final Review and prepare for 1st Sub	14	29-Jul-20	13-Aug-20	14	14-Sep-20	29-Sep-20	
AIP - 1st Sub	0		13-Aug-20	0		29-Sep-20	◆ AP-1
AIP - Review by SO	28	14-Aug-20	10-Sep-20	28	30-Sep-20	27-Oct-20	
AIP - Review by IP / DC	28	14-Aug-20	10-Sep-20	28	30-Sep-20	27-Oct-20	
AIP - Update & prepare for 2nd Sub	12	11-Sep-20	24-Sep-20	12	28-Oct-20	10-Nov-20	
AIP - 2nd Sub	0		24-Sep-20	0		10-Nov-20	
AIP - 2nd Review by SO	28	25-Sep-20	22-Oct-20	28	11-Nov-20	08-Dec-20	
AIP - SO Consent for DDA Submission	0		22-Oct-20	0		08-Dec-20	
DDA SUS - Internal Structure	140	23-Oct-20	16-Apr-21	143	09-Dec-20	07-Jun-21	
DDA - Draft - Preparation by Designer	36	23-Oct-20	04-Dec-20	36	09-Dec-20	22-Jan-21	
DDA - Draft - Final Review and prepare for 1st Sub	24	05-Dec-20	05-Jan-21	24	23-Jan-21	23-Feb-21	
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DDA - Review by SO	28	06-Jan-21	02-Feb-21	28	24-Feb-21	23-Mar-21	
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C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	396	09-Jan-20	13-May-21	389	17-Jan-20 A	13-May-21	
AIP - C&C/LS ELS & PCRA	31	20-Jan-20	27-Feb-20	28	17-Jan-20 A		AIP - ¢&C/LSELS & PCRA
AIP - Update & prepare for 2nd Sub	7	20-Jan-20	30-Jan-20	20	17-Jan-20 A		pdațe & prépare for 2nd Sub
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AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	9	13-Feb-20 A		AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0	51 Juli 20	27-Feb-20	0	10 1 00 20 1		AIP - \$0 Consent for DDA Submission
AIP - C&C/LS Permanent Structure	71	09-Jan-20	06-Apr-20	59	11-Feb-20 A		₩ Co carbon co post cost test test test test test test test t
AIP - Draft - Final Review and prepare for 1st Sub	18	09-Jan-20	01-Feb-20	2			raft - Final Review and prepare for 1st Sub
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AIP - Review by SO	28	02-Feb-20	29-Feb-20	24	13-Feb-20 A		AIP - Review by SO
AIP - Review by GEO via SO	28	02-Feb-20	29-Feb-20	24	13-Feb-20 A		AIP -: Review: by GEO via SO
AIP - Review by IP / DC	28	02-Feb-20	29-Feb-20	24			AIP - Review by IP / DC
AIP - Prepare for 2nd Sub	7	01-Mar-20	07-Mar-20	27	08-Mar-20 A	03-Apr-20 A	┇╶╶┇╶╶┇╴╴┖╴╴┇╷╴┚╴╴┚╴╸┝╴╸┇╴╴┙╴╴╘╴╴╝╴╴┙╴┙╴┙╴┙╴┙╴╹╴╘╶╴┢╶╴┢╴╴╘╴╴┛╴╴┛
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Page 14 of 30 Data Date: 30-Aug-20 Milestone
 Summary
 Planned Bar

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Actual Milestone Actual Work Baseline Milestone

Baseline Bar

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

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Date	Revision	Checked	Approved
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18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
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17-Jul-20	01V2	SPa/LLo	WYu

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 Summary
 Planned Bar

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Actual Work

Baseline Milestone
 Baseline Bar

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ctual 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	
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

Activity Name	Dur	01V2 Start	01V2 Finish	D ur Star	Finish		2020			2021
						March April 01 08 15 22 29 05 12 19 1	May June July 26 03 10 17 24 31 07 14 21 28 05 12	August	September October 23 30 06 13 20 27 04 11 18 25 01	November December January February March
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DDA - C&C/LSELS Strutting & Dewatering+DCRA	84	11-Jun-20	18-Sep-20	133 01-Jun-1	3					ting& Dewatering +DCRA
DDA - Draft - Preparation by Designer	12	11-Jun-20	24-Jun-20	35 01-Jun-1				A - Draft - Prepara	ration by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	6	26-Jun-20	03-Jul-20	7 14-Jul-2					nal Review and prepare for 1st Sub	
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DDA - Review by SO	28	04-Jul-20	31-Jul-20	35 22-Jul-2					DDA - Review by SO	
DDA - Review by GEO via SO	28	04-Jul-20	31-Jul-20	35 22-Jul-2					DDA - Review by GEO via SO	
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DDA - Further information required by SO	12	01-Aug-20	14-Aug-20	32 26-Aug-	· · ·				DDA - Further in	ormation required by SD
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DDA - 2nd Review by SO	35	15-Aug-20	18-Sep-20	35 04-Oct						I DDA + 2nd Review by SO
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DDA - C&C/LS Base Slab & Associated Cast-in for TBM La	103	15-Aug-20	16-Dec-20	130 19-Aug-				····		DDA - C&C/LS Base Slab & Associated Cast in for TBN
DDA - Draft - Preparation by Designer	25	15-Aug-20	12-Sep-20	53 19-Aug-					DDA -	Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	14-Sep-20	26-Sep-20	12 22-Oct						DDA - Draft - Final Review and prepare for 1st Sub
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DDA - Review by IP / DC	28	27-Sep-20	24-Oct-20	28 06-Nov						DDA - Review by IP / DC
DDA - Further information required by SO	14	27-Oct-20	11-Nov-20	14 04-Dec						DDA - Further information required by SO
DDA - 2nd Sub	0		11-Nov-20	0	19-Dec-20					♦ DDA + 2nd Sub
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DDA - SO Consent for Construction	0		16-Dec-20	0	23-Jan-21					♦ DDA - SQ Consent for Constructio
DDA - LS Tympanum Structure for TBM Launching	173	15-Aug-20	15-Mar-21	173 15-Aug-				· · · · · · · · · · · · · · · · · · ·		DDA -
DDA - Draft - Preparation by Designer	63	15-Aug-20	30-Oct-20	63 15-Aug-						DA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	31-Oct-20	27-Nov-20	24 31-Oct						DDA - Draft - Final Review and prepare for 1st Sub
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DDA - Review by GEO via SO	28	28-Nov-20	25-Dec-20	28 28-Nov						DDA - Review by GEO via SO
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DDA - Further information required by SO	36	28-Dec-20	08-Feb-21	36 28-Dec						DDA - Further information
DDA - 2nd Sub	0		08-Feb-21	0	08-Feb-21					🔶 DDA - 2nd Sub
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DDA - SO Consent for Construction	0		15-Mar-21	0	15-Mar-21					◆ DDA -
DDA - C&C/LSPermanent Structure	132	28-Nov-20	13-May-21	132 28-Nov						
DDA - Draft - Preparation by Designer	48	28-Nov-20	26-Jan-21	48 28-Nov	-					DDA - Draft - Preparation by Des
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DDA - Further information required by SO	36	27-Mar-21	13-May-21	36 27-Mar		+				
DDA - LS Thrust Frame / Blocks for TBM Launching	126	14-Sep-20	17-Feb-21	126 14-Sep	,				····	▼ DDA - LS Thrust Fra
DDA - Draft - Preparation by Designer	30	14-Sep-20	20-Oct-20	30 14-Sep					iDDA - I	Draft - Preparation by Designer
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Page 16 of 30 Milestone	Summary	/								Date Revision Checked Approved
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Actual Milestone

Baseline Milestone
 Baseline Bar

alActivity

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	
s	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020
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SUB-SEA TBM TUNNEL	372	08-Jan-20	13-Apr-21	348	01-Feb-20 A	06-Apr-21	
AIP - Sub-sea Tunnel & PCRA	75	08-Jan-20	08-Apr-20	80	07-Mar-20 A	15-Jun-20 A	▼ AIP - Sub-sea Tunnel & PCRA
AIP - Draft - Final Review and prepare for 1st Sub	18	08-Jan-20	31-Jan-20	6	07-Mar-20 A	13-Mar-20 A	🔲 AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0		31-Jan-20	0		13-Mar-20 A	◆ AIP - 1st \$ub
AIP - Review by SO	28	01-Feb-20	28-Feb-20	41	14-Mar-20 A	23-Apr-20 A	AIP - Reviệw by SD
AIP - Review by GEO via SO	28	01-Feb-20	28-Feb-20	41	14-Mar-20 A	23-Apr-20 A	AIP - Review by GEO via SO
AIP - Review by IP / DC	28	01-Feb-20	28-Feb-20	80	14-Mar-20 A	01-Jun-20 A	
AIP - Prepare for 2nd Sub	12	29-Feb-20	11-Mar-20	39	24-Apr-20 A	01-Jun-20 A	AIP - Prepare for 2nd Sub
AIP - 2nd Review by SO	28	12-Mar-20	08-Apr-20	15	01-Jun-20 A	15-Jun-20 A	AIP - 2nd Réview by SQ
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AIP - SO Consent for DDA Submission	0		08-Apr-20	0		15-Jun-20 A	AIP - SO Consent for DDA Submission
DDA - Sub-sea Tunnel - Precast Segment Lining + DCRA	146	01-Feb-20	29-Jul-20	207	01-Feb-20 A	10-Oct-20	DDA - Subisea Tunnel - Precast Segmen
DDA - Draft - Preparation by Designer	54	01-Feb-20	03-Apr-20	111	01-Feb-20 A	16-Jun-20 A	DDA Draft - Preparation by Designer
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DDA - Review by SO	28	23-Apr-20	20-May-20	6	19-Jun-20 A	24-Jun-20 A	DDA - Review by SO
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DDA - Review by IP / DC	28	23-Apr-20	20-May-20	79	19-Jun-20 A	05-Sep-20	DDA : Review by IP
DDA - Further information required by SO	30	21-May-20	24-Jun-20	5	25-Jun-20 A	02-Jul-20 A	DDA - Further information required by SO
DDA - 2nd Sub	0		24-Jun-20	0		02-Jul-20 A	🔷 🗢 DDA - 2nd Sub
DDA - 2nd Review by SO	35	25-Jun-20	29-Jul-20	35	06-Sep-20	10-Oct-20	
DDA - SO Consent for Construction	0		29-Jul-20	0		10-Oct-20	
DDA - Special Segment for CP construction	140	30-Jul-20	15-Jan-21	135	12-Oct-20	25-Mar-21	
DDA - Draft - Preparation by Designer	36	30-Jul-20	09-Sep-20	30	12-Oct-20	16-Nov-20	
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	24	17-Nov-20	14-Dec-20	
DDA - 1st Sub	0		09-Oct-20	0		14-Dec-20	▲
DDA - Review by SO	28	10-Oct-20	06-Nov-20	28	15-Dec-20	11-Jan-21	
DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	28	15-Dec-20	11-Jan-21	
DDA - Further information required by SO	30	07-Nov-20	11-Dec-20	30	12-Jan-21	18-Feb-21	
DDA - 2nd Sub	0		11-Dec-20	0		18-Feb-21	
DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	35	19-Feb-21	25-Mar-21	
DDA - SO Consent for Construction	0		15-Jan-21	0		25-Mar-21	
DDA - Sub-sea Tunnel - TBM Confinement	80	02-Jan-21	13-Apr-21	74	02-Jan-21	06-Apr-21	
DDA - Draft - Preparation by Designer	36	02-Jan-21	16-Feb-21	30	02-Jan-21*	05-Feb-21	
DDA - Draft - Final Review and prepare for 1st Sub	24	17-Feb-21	16-Mar-21	24	06-Feb-21	09-Mar-21	
DDA - 1st Sub	0		16-Mar-21	0		09-Mar-21	
DDA - Review by SO	28	17-Mar-21	13-Apr-21	28	10-Mar-21	06-Apr-21	
DDA - Review by IP / DC	28	17-Mar-21	13-Apr-21	28	10-Mar-21	06-Apr-21	
DDA - Sub-sea Tunnel - Internal Structure	125	26-Jun-20	23-Nov-20	114	07-Sep-20	23-Jan-21	
DDA - Draft - Preparation by Designer	36	26-Jun-20	07-Aug-20	28	07-Sep-20	10-Oct-20	
DDA - Draft - Final Review and prepare for 1st Sub	12	08-Aug-20	21-Aug-20	12	12-Oct-20	24-Oct-20	
DDA - 1st Sub	0		21-Aug-20	0		24-Oct-20	
DDA - Review by SO	28	22-Aug-20	18-Sep-20	28	25-Oct-20	21-Nov-20	
DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20	28	25-Oct-20	21-Nov-20	
DDA - Further information required by SO	24	19-Sep-20	19-Oct-20	24	23-Nov-20	19-Dec-20	
DDA - 2nd Sub	0		19-Oct-20	0		19-Dec-20	
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	35	20-Dec-20	23-Jan-21	
DDA - SO Consent for Construction	0		23-Nov-20	0		23-Jan-21	
CROSS PASSAGE	174	10-Oct-20	14-May-21	174	15-Dec-20	21-Jul-21	
DDA - Cross Passage - CP Tympanum	66	16-Jan-21	10-Apr-21	60	26-Mar-21	10-Jun-21	
DDA - Draft - Preparation by Designer	42	16-Jan-21	09-Mar-21	42	26-Mar-21	20-May-21	
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Mar-21	10-Apr-21	18	21-May-21	10-Jun-21	

Page 17 of 30 Data Date: 30-Aug-20

Milestone
 Summary
 Planned Bar

Critical Activity

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Actual Work Baseline Milestone Baseline Bar ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

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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
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Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021	1
							March April May June July August September October November December January Februa	
DDA - Cross Passage - CP TBM Jacking Pipes	152	10-Oct-20	17-Apr-21	150	15-Dec-20	22-Jun-21	01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14	+ 21 28 07 14 21 8
DDA - Draft - Preparation by Designer	48	10-Oct-20	05-Dec-20	48	15-Dec-20	11-Feb-21		DDA - Draft - Preparatic
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Dec-20	06-Jan-21	24	16-Feb-21	15-Mar-21		DDA -
DDA - 1st Sub	0		06-Jan-21	0		15-Mar-21		◆ DDA -
DDA - Review by SO	28	07-Jan-21	03-Feb-21	28	16-Mar-21	12-Apr-21		
DDA - Review by GEO via SO	28	07-Jan-21	03-Feb-21	28	16-Mar-21	12-Apr-21		
DDA - Review by IP / DC	28	07-Jan-21	03-Feb-21	28	16-Mar-21	12-Apr-21		
DDA - Further information required by SO	30	04-Feb-21	13-Mar-21	30	13-Apr-21	18-May-21		
DDA - 2nd Sub	0	0110021	13-Mar-21	0	10 / 10 / 21	18-May-21		·····
DDA - 2nd Review by SO	35	14-Mar-21	17-Apr-21	35	19-May-21	22-Jun-21		
DDA - Cross Passage - CP TBM Confinement	80	07-Jan-21	17-Apr-21	83	16-Mar-21	28-Jun-21		
DDA - Draft - Preparation by Designer	36	07-Jan-21	20-Feb-21	36	16-Mar-21	30-Apr-21		
DDA - Draft - Final Review and prepare for 1st Sub	24	22-Feb-21	20-Mar-21	24	03-May-21	31-May-21		· - +
DDA - 1st Sub	0		20-Mar-21	0	5	31-May-21		
DDA - Review by SO	28	21-Mar-21	17-Apr-21	28	01-Jun-21	28-Jun-21	· · · · · · · · · · · · · · · · · · ·	
DDA - Review by IP / DC	28	21-Mar-21	17-Apr-21	28	01-Jun-21	28-Jun-21		
DDA - Cross Passage - CP TBM - DCRA	42	22-Mar-21	14-May-21	42	01-Jun-21	21-Jul-21		
DDA - Draft - Preparation by Designer	42	22-Mar-21	14-May-21	42	01-Jun-21	21-Jul-21		
DDA - Cross Passage - Traditional (CP28 & 29) - Temp Sup	142	10-Oct-20	02-Apr-21	140	15-Dec-20	09-Jun-21		
DDA - Draft - Preparation by Designer	42	10-Oct-20	28-Nov-20	42	15-Dec-20	04-Feb-21		- Draft - Preparation by
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	42 24	05-Feb-21	04-1 eb-21 08-Mar-21		DDA - Dra
DDA - DTait - Final Review and prepare for 1st Sub	0	30-1100-20	29-Dec-20 29-Dec-20	0	03-FED-21	08-Mar-21		DDA - 1st
DDA - TST Sub DDA - Review by SO	28	30-Dec-20	29-Dec-20 26-Jan-21	28	09-Mar-21	05-Apr-21		
· · · · · · · · · · · · · · · · · · ·	28	30-Dec-20 30-Dec-20	26-Jan-21	28	09-Mar-21	05-Apr-21		
DDA - Review by GEO via SO					09-Mar-21	•		
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	28		05-Apr-21		· · · · · · · · · · · · · · · · · · ·
DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	24	07-Apr-21	05-May-21		
DDA - 2nd Sub	0	07 5 4 01	26-Feb-21	0	0/ 14 01	05-May-21		
DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	35	06-May-21	09-Jun-21		
DDA - Cross Passage - Traditional - Lining Structure	80	30-Dec-20	10-Apr-21	83	09-Mar-21	21-Jun-21		
DDA - Draft - Preparation by Designer	36	30-Dec-20	10-Feb-21	36	09-Mar-21	23-Apr-21		
DDA - Draft - Final Review and prepare for 1st Sub	24	11-Feb-21	13-Mar-21	24	24-Apr-21	24-May-21		
DDA - 1st Sub	0	4444 04	13-Mar-21	0	05 M 04	24-May-21		
DDA - Review by SO	28	14-Mar-21	10-Apr-21	28	25-May-21	21-Jun-21		
DDA - Review by IP / DC	28	14-Mar-21	10-Apr-21	28	25-May-21	21-Jun-21		
DDA - Cross Passage - Traditional - DCRA	36	15-Mar-21	29-Apr-21	36	25-May-21	07-Jul-21		
DDA - Draft - Preparation by Designer	36	15-Mar-21	29-Apr-21	36	25-May-21	07-Jul-21		
CHA KWO LING ROAD WORKS	212	29-Jan-20	13-Oct-20	182	29-Jan-20 A	05-Sep-20		
DDA CKL Junction - Permanent Utility Design	68	19-Feb-20	14-May-20	121	10-Mar-20 A	06-Aug-20 A		
DDA - Draft - Final Review and prepare for 1st Sub	18	19-Feb-20	10-Mar-20	1	10-Mar-20 A	10-Mar-20 A		
DDA - 1st Sub	0		10-Mar-20	0		10-Mar-20 A		
DDA - Review by SO	28	11-Mar-20	07-Apr-20	16				
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	105		23-Jun-20 A		
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	70	27-Mar-20 A			
DDA - 2nd Sub	0		09-Apr-20	0		23-Jun-20 A	A	
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	44	24-Jun-20 A	÷		
DDA - SO Consent for Construction	0		14-May-20	0		06-Aug-20 A	······································	
DDA CKL Junction - Allignment, Traffic Sign, Road Marking	86	29-Jan-20	14-May-20	156	29-Jan-20 A	06-Aug-20 A		
SO	86	29-Jan-20	14-May-20	156	29-Jan-20 A	06-Aug-20 A		
DDA - Draft - Preparation by Designer	24	29-Jan-20	25-Feb-20	31	29-Jan-20 A			
DDA - Draft - Final Review and prepare for 1st Sub	6	26-Feb-20	03-Mar-20	4	05-Mar-20 A	09-Mar-20 A		
DDA - 1st Sub	0		10-Mar-20	0		09-Mar-20 A		
DDA - Review by SO	28	11-Mar-20	07-Apr-20	17	10-Mar-20 A	26-Mar-20 A	A DDA - Review by SO	

Page 18 of 30 Data Date: 30-Aug-20 Milestone
 Planned Bar

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Actual Milestone
 Actual Work

Baseline MilestoneBaseline Bar

iticalActivity

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

BOUYGUES TRAVAUX PUBLICS

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	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
s	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							March April May June July August September October November December January February March 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 18 25 01 08 15 22 29 06 13 20 27 03 10 <td< th=""></td<>
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	91	10-Mar-20 A	08-Jun-20 A	DDA - Review by IP / DC
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	57	27-Mar-20 A	08-Jun-20 A	DDA - Further information required by \$0
DDA - 2nd Sub	0		09-Apr-20	0		08-Jun-20 A	♦ DDA' - 2hd Sub
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	15	09-Jun-20 A	23-Jun-20 A	DDA - 2nd Review by SO
DDA - Further information required by SO	0			12	03-Jul-20 A	15-Jul-20 A	DDA - Further information required by:SD
DDA - 3rd Sub	0			0		15-Jul-20 A	DDA - βrd Sub;
DDA - 3rd Review by SO	0			22	16-Jul-20 A	06-Aug-20 A	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0			0		06-Aug-20 A	◆ DDA - SO Consent for Construction
CEDD	0			77	09-Apr-20 A	15-Jul-20 A	
DDA - 1st CEDD comment received	0			0		09-Apr-20 A	◆ DDA - 1st CEDD comment received
DDA - 1st RtC to CEDD	0			60	10-Apr-20 A	08-Jun-20 A	DDA - 1st RIC to CEDD
DDA - 2nd CEDD comment received	0			12	09-Jun-20 A	23-Jun-20 A	DDA - 2nd CEDD domment received
DDA - 2nd RtC to CEDD	0			22	24-Jun-20 A	15-Jul-20 A	DDA - 2nd RtC to CED
ТD	0			37	24-Mar-20 A	13-May-20 A	
DDA - TD comment received	0			0		24-Mar-20 A	◆ DDA - TD comment receivéd
DDA - RtC to TD	0			34	25-Mar-20 A	27-Apr-20 A	DDA - RtC to TD
DDA - 2nd TD comment received	0				28-Apr-20 A	· ·	DDA - 2nd TD comment received
HyD	0			0	09-Apr-20 A	09-Apr-20 A	
DDA - HyD No comment received	0			0		09-Apr-20 A	♦ DDA - HyD Ng comment neceived
DDA CKL Junction - Roadworks and Street Furniture	86	29-Jan-20	14-May-20	150	29-Jan-20 A	30-Jul-20 A	DDA CKL Junction - Roadworks and Street Furniture
SO	86	29-Jan-20	14-May-20	150	29-Jan-20 A	30-Jul-20 A	SQ SQ
DDA - Draft - Preparation by Designer	24	29-Jan-20	25-Feb-20		29-Jan-20 A	12-Mar-20 A	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Feb-20	10-Mar-20		13-Mar-20 A	13-Mar-20 A	📥 I DDA - Dráft - Final Réview and prepare for 1st Sub
DDA - 1st Sub	0		10-Mar-20	0		13-Mar-20 A	🖇 DDA -1 st/Sub
DDA - Review by SO	28	11-Mar-20	07-Apr-20	13	14-Mar-20 A	26-Mar-20 A	DDA - Review by SO
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	39	27-Mar-20 A	18-May-20 A	DDA - Further information required by SO
DDA - 2nd Sub	0		09-Apr-20	0		18-May-20 A	♦ DA - 2hd Sub
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	33	19-May-20 A	20-Jun-20 A	DDA - 2nd Review by SO
DDA - Further information required by SO	0			23	22-Jun-20 A	15-Jul-20 A	DDA - Further Information required by SP
DDA - 3rd Sub	0			0		15-Jul-20 A	♦ :DDA - βrd \$ub:
DDA - 3rd Review by SO	0			15	16-Jul-20 A	30-Jul-20 A	DDA - 3rd Review, by SO
DDA - SO Consent for Construction	0			0		30-Jul-20 A	DDA - SO Corsent for Construction
CEDD	0			77	09-Apr-20 A	15-Jul-20 A	
DDA - 1st CEDD comment received	0			0		09-Apr-20 A	◆ DDA - 1st CEDD comment received
DDA - 1st RtC to CEDD	0			39	10-Apr-20 A	18-May-20 A	DDA - 1st RtC to CED D
DDA - 2nd CEDD comment received	0			28	19-May-20 A	20-Jun-20 A	DDA + 2nd CEDD comment received
DDA - 2nd RtC to CEDD	0			24	22-Jun-20 A	15-Jul-20 A	DDA - 2nd RtC to CEDD
HyD	0			56	09-Apr-20 A	18-Jun-20 A	
DDA - HyD comment received	0			0		09-Apr-20 A	DDA - HyD comment received
DDA - RtC to HyD	0			38	10-Apr-20 A	18-May-20 A	DDA RIC tộ HýD
DDA - HyD No Comment received	0			31	19-May-20 A	18-Jun-20 A	DDA - HyD No Comment received
ТD	0			47	19-May-20 A	15-Jul-20 A	
DDA - TD comment received	0			0		19-May-20 A	DDA - T:D comment received
DDA - RtC to TC	0			56	20-May-20 A	15-Jul-20 A	DDA - RtC to T;C
DDA CKL Junction - Street Lighting	86	29-Jan-20	14-May-20	137	29-Jan-20 A	15-Jul-20 A	▼ DDA CKL Junction - Street Lighting
SO	86	29-Jan-20	14-May-20	119	29-Jan-20 A	22-Jun-20 A	
DDA - Draft - Preparation by Designer	24	29-Jan-20	25-Feb-20	38	29-Jan-20 A	12-Mar-20 A	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Feb-20	10-Mar-20	1	13-Mar-20 A	13-Mar-20 A	📫 I. DDA - Dráft - Final Réview and prepare for 1/st Sub
DDA - 1st Sub	0		10-Mar-20	0		13-Mar-20 A	🚧 DDA -1 st/Sub
DDA - Review by SO	28	11-Mar-20	07-Apr-20	13	14-Mar-20 A	26-Mar-20 A	DDA - Review by SO
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	39	27-Mar-20 A	18-May-20 A	DDA - Further information required by \$O
DDA - 2nd Sub	0		09-Apr-20	0		18-May-20 A	DDA - 2ħd \$ub
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Page 19 of 30 Data Date: 30-Aug-20

Milestone
 Summary
 Planned Bar

Date: 30-Aug-20

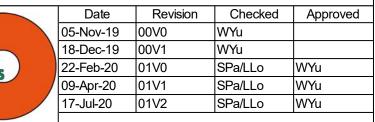
Actual Milestone
 Actual Work

Baseline MilestoneBaseline Bar

riticalActivity

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

BOUYGUES TRAVAUX PUBLICS



Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
							March April May June July August September October November December January February March 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	35	19-May-20 A	22-Jun-20 A	
DDA - SO Consent for Construction	0		14-May-20	0		22-Jun-20 A	A DDA - SO Consent for Construction
CEDD	0			29	09-Apr-20 A	19-May-20 A	
DDA - CEDD comment received	0			0		09-Apr-20 A	
DDA - RtC to CEDD	0			40	10-Apr-20 A	19-May-20 A	A DDA - RtC to CEDD
HyD	0			56	09-Apr-20 A		
DDA - HyD No comment received	0			0	•	09-Apr-20 A	
DDA - HyD No comment received	0			0		' 19-Jun-20 A	
HyD Lighting	0			44	22-May-20 A		
DDA - HyD Lighting comment received	0			0	,	22-May-20 A	
DDA - RtC to HyD Lighting	0			54	23-May-20 A		
AIP Wai Yip Street / Wai Fat Road Junction - MOC Modifica	61	16-May-20	28-Jul-20	46	3		
AIP - Draft - Final Review and prepare for 1st Sub	2	16-May-20	18-May-20	7	3		
AIP - 1st Sub	0		18-May-20	0		15-May-20 A	Δ AIP-1st Sub
AIP - Review by SO	28	19-May-20	15-Jun-20	18	16-May-20 A		
AIP - Further information required by SO	12	16-Jun-20	30-Jun-20	1	18-Jun-20 A		
AIP - 2nd Review by SO	28	01-Jul-20	28-Jul-20	14		02-Jul-20 A	
DDA Wai Yip Street / Wai Fat Road Junction - MOC Modific	70	22-Jul-20	13-Oct-20	99	12-May-20 A	05-Sep-20	
SOR	70	22-Jul-20	13-Oct-20	99	12-May-20 A	· ·	
DDA - Draft - Final Review and prepare for 1st Sub	6	22-Jul-20	28-Jul-20	1	12-May-20 A	· ·	
DDA - Drait - Than Review and prepare for 1st Sub	0	22-Jui-20	28-Jul-20	4	12-11/12 y-20 A	15-May-20 A	
DDA - TSI Stab DDA - Review by SO	28	29-Jul-20	25-Aug-20	20	16-May-20 A		
DDA - Review by SO DDA - Further information required by SO	12	29-Jui-20 26-Aug-20	08-Sep-20	12	05-Jun-20 A		
DDA - Puttiel information required by SO DDA - 2nd Sub	0	20-Aug-20	08-Sep-20	0	0J-JUIFZU A	18-Jun-20 A	
DDA - 2nd Review by SO	35	09-Sep-20	13-Oct-20	14	19-Jun-20 A	02-Jul-20 A	
DDA - 2nd Review by SO DDA - Further information required by SO		09-Sep-20	13-001-20				
	0			12	03-Jul-20 A	15-Jul-20 A	
DDA - 3rd Sub	0			0	1/ 1/ 20 4	15-Jul-20 A	
DDA - 3rd Review by SO	0		12 0 1 00	52	16-Jul-20 A	05-Sep-20	
DDA - SO Consent for Construction	0		13-Oct-20	0	01 1	05-Sep-20	
HyD	0			76	01-Jun-20 A		
DDA - HyD comment received	0			0	00.1.00.4	01-Jun-20 A	
DDA - RtC to Hyd under preparation	0			91	02-Jun-20 A	31-Aug-20	
TD	0			58	23-Jun-20 A	31-Aug-20	
DDA - TD comment received	0			0		23-Jun-20 A	
DDA - RtC to TD	0			22	24-Jun-20 A	15-Jul-20 A	
	0	00 1 00	00.0	47	16-Jul-20 A	31-Aug-20	
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	210	08-Jan-20	22-Sep-20	294	31-Dec-19 A	28-Dec-20	
AIP - D&BR / D&BL Tunnel & PCRA (with Temp. Support)	52	08-Jan-20	12-Mar-20	81	31-Dec-19 A	09-Apr-20 A	
AIP - 1st Sub	0		08-Jan-20	0		31-Dec-19 A	
AIP - Review by SO	28	09-Jan-20	05-Feb-20	47		17-Feb-20 A	
AIP - Review by IP / DC	28	09-Jan-20	05-Feb-20	47	02-Jan-20 A	17-Feb-20 A	
AIP - Update & prepare for 2nd Sub	7	06-Feb-20	13-Feb-20	25	18-Feb-20 A	17-Mar-20 A	
AIP - 2nd Sub	0		13-Feb-20	0		17-Mar-20 A	
AIP - 2nd Review by SO	28	14-Feb-20	12-Mar-20	23	18-Mar-20 A	09-Apr-20 A	
AIP - SO Consent for DDA Submission	0		12-Mar-20	0		09-Apr-20 A	
AIP - D&BR / D&BL Permanent Structure	115	09-Jan-20	01-Jun-20	196	09-Jan-20 A	07-Sep-20	
AIP - Draft - Preparation by Designer	41	09-Jan-20	28-Feb-20	49	09-Jan-20 A		
AIP - Draft - Final Review and prepare for 1st Sub	18	29-Feb-20	20-Mar-20	4	10-Mar-20 A	13-Mar-20 A	
AIP - 1st Sub	0		20-Mar-20	0		13-Mar-20 A	
AIP - Review by SO	28	21-Mar-20	17-Apr-20	38		20-Apr-20 A	
AIP - Review by IP / DC	28	21-Mar-20	17-Apr-20	106		27-Jun-20 A	
AIP - Update & prepare for 2nd Sub	12	18-Apr-20	04-May-20	2	29-Jun-20 A	30-Jun-20 A	A AIP- Update & prepare for 2nd Sub

Page 20 of 30 Data Date: 30-Aug-20

Milestone
 Summary
 Planned Bar

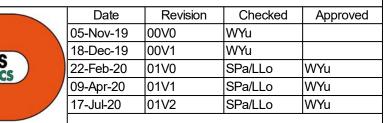
Actual Milestone

Baseline Milestone
 Baseline Bar

riticalActivity

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

BOUYGUES TRAVAUX PUBLICS



Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020 2021
			1				March April May June July August September October November December January February March
AIP - 2nd Review by SO	28	05-May-20	01-Jun-20	66	02-Jul-20 A	05-Sep-20	01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28 07
AIP - 2nd Sub	0		04-May-20	_		02-Jul-20 A	
AIP - SO Consent for DDA Submission	0	01-Jun-20	01-Jun-20	0	07-Sep-20	07-Sep-20	
DDA - Construction Blasting Assessment Report	81	11-Jan-20	22-Apr-20	96	· ·	· ·	
CBAR - Draft - Final Review and prepare for 1st Sub	6	11-Jan-20	17-Jan-20	4		,	
CBAR - Drait - Final Review and prepare for TSLSub	0		17-Jan-20	0		15-Jan-20 A	
CBAR - Tsi Sub CBAR - Review by MinesD	28	18-Jan-20	17-Jaii-20 14-Feb-20	19	16-Jan-20 A		
CBAR - Review by MinesD CBAR - Prepare for 2nd Sub	28	18-Jan-20 15-Feb-20	14-Feb-20 18-Mar-20				
CBAR - Prepare for 2nd Sub CBAR - 2nd Sub		13-FED-20	18-Mar-20	42		23-Mar-20 A	
	0	10 Mar 20		-			
CBAR - 2nd Review by MinesD	35	19-Mar-20	22-Apr-20	_		12-May-20 A	
DDA - D&BR / D&BL Tunnel - Rock Bolt Design at Tunnel P	110	03-Feb-20	16-Jun-20	97			
DDA - Draft - Preparation by Designer	36	03-Feb-20	14-Mar-20	71			
DDA - Draft - Final Review and prepare for 1st Sub	12	16-Mar-20	28-Mar-20	2	· ·	· ·	
DDA - 1st Sub	0		28-Mar-20	0		07-Apr-20 A	
DDA - Review by SO	28	29-Mar-20	25-Apr-20	13	· ·	· ·	
DDA - Review by GEO via SO	28	29-Mar-20	25-Apr-20	13	· ·	· ·	
DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20	13	· ·	· ·	
DDA - Further information required by SO	12	27-Apr-20	12-May-20		20-Apr-20 A		
DDA - 2nd Sub	0	P	12-May-20	0		04-May-20 A	
DDA - 2nd Review by SO	35	13-May-20	16-Jun-20	7	05-May-20 A	11-May-20 A	
DDA - SO Consent for Construction	0		16-Jun-20	0	,,	11-May-20 A	
DDA - D&BR / D&BL Tunnel - Temp Support for Excavation	127	18-Jan-20	24-Jun-20	126	03-Apr-20 A	05-Sep-20	DDA - D&BR /:D&BL T:unnel -:Temp Support for Excavation + DCRA
DDA - Review by SO	28	09-Apr-20	06-May-20	88	03-Apr-20 A	29-Jun-20 A	A DDA - Review by SO
DDA - Review by GEO via SO	28	09-Apr-20	06-May-20	92	03-Apr-20 A	03-Jul-20 A	A DDA-Review by GEO via SQ
DDA - Review by IP / DC	28	09-Apr-20	06-May-20	92	03-Apr-20 A	03-Jul-20 A	
DDA - Draft - Preparation by Designer	60	18-Jan-20	31-Mar-20	17			
DDA - Draft - Final Review and prepare for 1st Sub	6	01-Apr-20	08-Apr-20	9	23-May-20 A		
DDA - 1st Sub	0		08-Apr-20	0	,	02-Jun-20 A	
DDA - Further information required by SO	12	07-May-20	· ·	-	04-Jul-20 A		
DDA - 2nd Sub	0		20 May 20		+	15-Jul-20 A	
DDA - 2nd Review by SO	35	21-May-20	-	52	16-Jul-20 A		
DDA - SO Consent for Construction	0		24-Jun-20	0		05-Sep-20	- + + - + + - + - + - + + - + - + - + + + + - +
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	136	09-Apr-20	22-Sep-20	-	22-May-20 A		
DDA - Draft - Preparation by Designer	42	09-Apr-20	02-Jun-20		3		
		· ·		_		· ·	
DDA - Draft - Final Review and prepare for 1st Sub	18	03-Jun-20	23-Jun-20	18	07-Sep-20		
DDA - 1st Sub	0	24 100 20	23-Jun-20	0	27.000.20	26-Sep-20	
DDA - Review by SO	28	24-Jun-20	21-Jul-20	28	-	24-Oct-20	
DDA - Review by GEO via SO	28	24-Jun-20	21-Jul-20	28	27-Sep-20	24-Oct-20	
DDA - Review by IP / DC	28	24-Jun-20	21-Jul-20	28	27-Sep-20	24-Oct-20	
DDA - Further information required by SO	24	22-Jul-20	18-Aug-20	24	27-Oct-20	23-Nov-20	
DDA - 2nd Sub	0		18-Aug-20		ļļ	23-Nov-20	
DDA - 2nd Review by SO	35	19-Aug-20	22-Sep-20	35	24-Nov-20	28-Dec-20	
DDA - SO Consent for Construction	0	P	22-Sep-20	0	, j	28-Dec-20	DDA - SO Consent for Construction
DDA - Temporary Blast Door	73	13-Feb-20	14-May-20	59	10-Mar-20 A	23-May-20 A	A DDA - Temporary Blast Door
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Feb-20	04-Mar-20	1	10-Mar-20 A	10-Mar-20 A	A 📮 I DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		04-Mar-20	0	j	10-Mar-20 A	A ♦ DDA - 1;st Sub
DDA - Review by SO	28	05-Mar-20	01-Apr-20	17	11-Mar-20 A	27-Mar-20 A	A DDA - Review by \$0
DDA - Review by IP / DC	28	05-Mar-20	01-Apr-20	49			
DDA - Further information required by SO	6	02-Apr-20	09-Apr-20	23		-	
DDA - 2nd Sub	0		09-Apr-20	0	+	28-Apr-20 A	
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	-	29-Anr-20 A	23-May-20 A	
DDA - SO Consent for Construction	0	107.01.20	14-May-20		· ·	23 May 20 A	
			14-1via y 20			20-11/10 y 207.	
Page 21 of 30 Milestone S	Summary	,	1				Date Revision Checked Approved

Page 21 of 30 Data Date: 30-Aug-20

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Actual Milestone

Baseline Milestone
 Baseline Bar

alActivity

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

BOUYGUES TRAVAUX PUBLIC

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Date	Revision	Checked	Approved
)5-Nov-19	00V0	WYu	
8-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
)9-Apr-20	01V1	SPa/LLo	WYu
7-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish			2020			-	-			2021	
			1		/		March April 01 08 15 22 29 05 12 19 26	May June 26 03 10 17 24 31 07 14 21	July 21 28 05 12 19 26	August	September	October	Novem			January February	y March 21 28 07 14 21 !8
EAST VENTILATION BUILDING [EVB]	380	09-Jan-20	23-Apr-21	361	09-Jan-20 A	27-Mar-21											21 20 07 1.2.
AIP EVB - Permanent Structure	212	09-Jan-20	24-Sep-20	196	09-Jan-20 A	05-Sep-20						AIP EVB - Perm	anent Struct	ture	·		
AIP - Draft - Preparation by Designer	42	09-Jan-20	29-Feb-20	53	09-Jan-20 A	13-Mar-20 A	A AIP - Draft - Preparation	Jn by Designer				+ +			·	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
AIP - Draft - Final Review and prepare for 1st Sub	12		14-Mar-20	1		13-Mar-20 A	A AIP Draft Final Revie	iew and prepare for 1st Sub								· · · · · · · · · · · · · · · · · · ·	
AIP - 1st Sub	0		14-Mar-20	0		13-Mar-20 A											
AIP - Review by SO	28	15-Mar-20	11-Apr-20	27				Review by SO									
AIP - Review by GEO via SO	28		11-Apr-20	27				Review by GEO via SO									
AIP - Review by IP / DC	28		11-Apr-20	95		· ·	A	·	IP - Review by IP / [DC							
AIP - Update & prepare for 2nd Sub	113		27-Aug-20			16-Jun-20 A		······································			AIP - Update &	k prepare for 2nd	Sub				
AIP - 2nd Sub	0		27-Aug-20 27-Aug-20			16-Jun-20 A					AIP - 2nd Sub						
AIP - 2nd Review by SO	28	28-Aug-20	24-Sep-20								-i	AIP - 2nd Revie	w hv \$0				
AIP - 200 Review by 30 AIP - SO Consent for DDA Submission	0	20 muy 20	24-Sep-20 24-Sep-20			05-Sep-20						AIP - SO Conse		Submission			
DDA - EVB - General Building Plan	138	25-Sep-20	15-Mar-21	141		· ·									<u></u>	<u></u>	V DDA -
DDA - Draft - Preparation by Designer	36	· ·	09-Nov-20	36		20-Oct-20	4		+++++++++++++++++++++++++++++++++++++++			<u>+ </u>)A - Draft - Pre	naration by De	esianer	
DDA - Draft - Final Review and prepare for 1st Sub	24	· · ·	07-Dec-20		· · ·	18-Nov-20	╷┛┫╌┥╌┥╌┽╌┽┼┼┼╌┽╌┽╌		+++++++++++++++++++++++++++++++++++++++					ĎI	DA - Draft - Fi	nal Review and prepare	for 1st Sub
DDA - Drat - That Review and prepare for 1st Sub	0		07-Dec-20 07-Dec-20			18-Nov-20									DA - 1st \$ub		
DDA - Review by SO	28	08-Dec-20	07-Dec-20 04-Jan-21	28												DDA - Review by SO	
DDA - Review by SO DDA - Review by IP / DC	28		04-Jan-21	28		16-Dec-20										DDA - Review by IP / DO	
DDA - Review by IP 7 DC DDA - Further information required by SO	30		04-Jan-21 08-Feb-21	30		23-Jan-21											A - Further information
DDA - 2nd Sub	30	UJ-Janzi	08-Feb-21 08-Feb-21	0		23-Jan-21 23-Jan-21										4	4 - 2nd Sub
DDA - 2nd Sub DDA - 2nd Review by SO	35	09-Feb-21	08-Feb-21 15-Mar-21	35		23-Jan-21 27-Feb-21			· · · · · · · · · · · · · · · · · · ·	·							DDA -
DDA - 2nd Review by SO DDA - SO Consent for Construction	35	U7-LGD-71	15-Mar-21 15-Mar-21	35 0		27-Feb-21 27-Feb-21											DDA -
DDA - SO Consent for Construction DDA - EVB - Permanent Structure (including Foundation)	108	08-Dec-20	15-Mar-21 23-Apr-21	0 105		27-Feb-21 27-Mar-21				·							
	_						4							· · · · · · · · · · · · · · · · · · ·			bration by Design
DDA - Draft - Preparation by Designer	36		21-Jan-21	36		02-Jan-21										DDA - Dratt - P	Preparation by Design
DDA - Draft - Final Review and prepare for 1st Sub	24	22-Jan-21	22-Feb-21	24		30-Jan-21											DDA - Draft - Fina
DDA - 1st Sub	0		22-Feb-21	0		30-Jan-21					- -					·····	ODA - 1st Sub
DDA - Review by SO	28		22-Mar-21	28		27-Feb-21				·							
DDA - Review by IP / DC	28		22-Mar-21	28		27-Feb-21											
DDA - Further information required by SO	24	23-Mar-21	23-Apr-21	24		27-Mar-21	_										
DDA - EVB - ABWF	36	23-Feb-21	09-Apr-21	36		17-Mar-21											····
DDA - Draft - Preparation by Designer	36		09-Apr-21	36		17-Mar-21								· - <u></u>			·····
TUNNEL E&M INSTALLATION & COMMISSIONING	392		30-Apr-21	397		,											
AIP - Overall E&M Design	204		08-Sep-20	230							AIP - Ov	verall E&M Desig	n			·····	
AIP - Draft - Preparation by Designer	97	02-Jan-20	04-May-20					AIP - Draft - Preparation by									
AIP - Draft - Final Review and prepare for 1st Sub	24	05-May-20	01-Jun-20	36	02-May-20 A				- Draft - Final Revie	ew and prepare fo	or 1st Sub						
AIP - 1st Sub	0	I	01-Jun-20	0		12-Jun-20 A		🔶 🔶 AIP -									
AIP - Review by SO	28	02-Jun-20	29-Jun-20	20					💶 : AIP - Review	<i>N</i> by SO							
AIP - Review by IP / DC	28		29-Jun-20	85		-				įįi		(iew by IP / DC					
AIP - Update & prepare for 2nd Sub	36	30-Jun-20	11-Aug-20	_	03-Jul-20 A	12-Sep-20					AIP -	Update & prepar	e for 2'nd \$u	b			
AIP - 2nd Sub	0	J	11-Aug-20		,	12-Sep-20				♦	◆ AIP -	2nd Sub					
AIP - 2nd Review by SO	28	12-Aug-20	08-Sep-20	28	13-Sep-20	10-Oct-20						AlP - 2	nd Review b	y SO			
AIP - SO Consent for DDA Submission	0	· · · · · · · · · · · · · · · · · · ·	08-Sep-20	0	,	10-Oct-20					♦	🔶 AIP - S	O Consent f	or DDA Submi	ssion		
AIP - E&M Tunnel Ventilation Design	214	02-Jan-20	19-Sep-20	230	02-Jan-20 A	10-Oct-20					→ A	IP - E&M Tunnel	Ventilation E	Design			
AIP - Draft - Preparation by Designer	108	02-Jan-20	16-May-20		02-Jan-20 A	30-Apr-20 A	A	AlP - Draft - Prepara	ation by Designer			+			·		
AIP - Draft - Final Review and prepare for 1st Sub	24		13-Jun-20	35		· ·	+ + _ + _ + _ + _ + _ + _		- Draft - Final Revie	ew and prepare f	ior 1st Sub	+					
AIP - 1st Sub	0	1	13-Jun-20	0	-	11-Jun-20 A			- 1st Sub								
AIP - Review by SO	28	14-Jun-20	11-Jul-20	29					AIP - Re								
AIP - Review by IP / DC	28		11-Jul-20	86								iew by IP / DC			·		
AIP - Update & prepare for 2nd Sub	36		22-Aug-20	_		· ·					AIP -	Update & prepar			·	$\frac{1}{1} \frac{1}{1}	
AIP - 2nd Sub	0	+ +	22-Aug-20			12-Sep-20				♦	♦ AIP -	2nd Sub					
AIP - 2nd Review by SO	28	23-Aug-20	19-Sep-20										nd Review b	N SO			
AIP - SO Consent for DDA Submission	0		19-Sep-20			10-Oct-20					•			or DDA Submi	ssion		
									<u></u>	<u> </u>	<u></u>	<u></u>			· · · · ·	<u> </u>	
Page 22 of 30 Milestone	Summary	1	1											Date	Revisio	on Checked	Approved

Page 22 of 30 Data Date: 30-Aug-20

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Milestone

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

BOUYGUES

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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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	1		2020			2021	1
		UTVE Glari	010211.000		oturt	1 mar.		March	April May June July	August		ovember December January February	March
DDA - E&M Tunnel Ventilation Design	161	21-Sep-20	10-Apr-21	163	12-Oct-20	03-May-21	0110	08 15 22 29	<u>05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26</u>	02 09 10		8 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 28	3 0/ 14 21 3
DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20	48	12-Oct-20	07-Dec-20						DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20	24	08-Dec-20	07-Jan-21						DDA - Draft - Final Review ar	nd prepare for
DDA - 1st Sub	0		16-Dec-20	0		07-Jan-21						◆ DDA - 1st Sub	
DDA - Review by SO	28	17-Dec-20	13-Jan-21	28	08-Jan-21	04-Feb-21	+					DDA - Review	wby SO
DDA - Review by IP / DC	28	17-Dec-20	13-Jan-21	28	08-Jan-21	04-Feb-21						DDA - Review	
DDA - Further information required by SO	42	14-Jan-21	06-Mar-21	42	05-Feb-21	29-Mar-21							
DDA - 2nd Sub	0		06-Mar-21	0		29-Mar-21	<u>-</u>						♦ ♦
DDA - 2nd Review by SO	35	07-Mar-21	10-Apr-21	35	30-Mar-21	03-May-21							
AIP - E&M Air Purification System (WVB)	223	02-Jan-20	03-Oct-20	230	02-Jan-20 A	10-Oct-20					AIP - E&M Air Puri	fication System (WVB)	
AIP - Draft - Preparation by Designer	118	02-Jan-20	28-May-20	95	02-Jan-20 A	30-Apr-20 A	+-		AIP - Draft - Preparation by Desi	iner			++-
AIP - Draft - Final Review and prepare for 1st Sub	24	29-May-20	26-Jun-20	35	02-May-20 A	11-Jun-20 A			AIP - Draft - Fina	6	l prepare fαr 1st Sub		
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AIP - Review by SO	28	27-Jun-20	24-Jul-20	34	12-Jun-20 A	15-Jul-20 A				P - Review b	by SD		
AIP - Review by IP / DC	28	27-Jun-20	24-Jul-20	86	12-Jun-20 A	05-Sep-20							
AIP - Update & prepare for 2nd Sub	36	25-Jul-20	04-Sep-20	51	16-Jul-20 A	12-Sep-20	+					d Sub	-++-
AIP - 2nd Sub	0	20 341 20	04-Sep-20	0	10 501 20 71	12-Sep-20					AlP - 2nd Sub		- + + + -
AIP - 2nd Review by SO	28	05-Sep-20	02-Oct-20	28	13-Sep-20	10-Oct-20			╶╌┾╌╴ ┊╴╶┽ ╸╞┊╴╴╪╴╴┊╴╴╡╴╶┊╴╴┊╴╴╡╴╶╡╴╶┊╴╴┊		AlP - 2nd Revi	ew by SO	
AIP - SO Consent for DDA Submission	0	00 000 20	02-Oct-20	0	10 000 20	10-Oct-20			╌╶╬╌╶╬╌╬╌╬╌╬╌╬╌╬╌╬╴╬╴╬╴╬╴╬╴╬			ent for DDA Submission	
DDA - E&M Air Purification System (WVB)	149	03-Oct-20	07-Apr-21	149	12-Oct-20	15-Apr-21							· · · · · · · · · · · · · · · · · · ·
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	48	12-Oct-20	07-Dec-20						DDA' - D'raft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	30-Nov-20	12-Dec-20	12	08-Dec-20	21-Dec-20						DDA - Draft - Fihal Review and prepar	rd for 1st Sub
DDA - DTait - Final Review and prepare for 1st Sub	0	30-1107-20	12-Dec-20 12-Dec-20	0	00-Det-20	21-Dec-20 21-Dec-20						♦ ♦ DDA - 1st Sub	
DDA - TST Sub DDA - Review by SO	28	13-Dec-20	09-Jan-21	28	22-Dec-20	18-Jan-21						DDA - Tat Sub DDA - Review by SQ	
, ,				28	22-Dec-20 22-Dec-20	18-Jan-21 18-Jan-21						DDA - Review by IP/ I	
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	-									
DDA - Further information required by SO	42	11-Jan-21	03-Mar-21	42	19-Jan-21	11-Mar-21							DDA - Fi
DDA - 2nd Sub	0	04.1401	03-Mar-21	0	10 14 - 01	11-Mar-21							◆ DDA - 2r
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	35	12-Mar-21	15-Apr-21							
AIP - E&M Fire Services Installation	144	15-Jun-20	04-Dec-20	156	01-Jun-20 A	04-Dec-20						AIP - E&M Fire Services Installation	-+++-
AIP - Draft - Preparation by Designer	48	15-Jun-20	11-Aug-20	60	01-Jun-20 A	11-Aug-20 A				AIP;-	- Draft - Preparation by Designer AIP - Draft - Final Review and p		
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Aug-20	08-Sep-20	24	12-Aug-20 A	· ·							· · · · · · · · · · · · · · · · · · ·
AIP - 1st Sub	0	00.0	08-Sep-20	0	00.0	08-Sep-20					♦ AIP - 1st \$ub		· · · · · · · · · · · · · · ·
AIP - Review by SO	28	09-Sep-20	06-Oct-20	28	09-Sep-20	06-Oct-20					AIP - Réview by		
AIP - Review by IP / DC	28	09-Sep-20	06-Oct-20	28	09-Sep-20	06-Oct-20					AIP - Review by		
AIP - Update & prepare for 2nd Sub	26	07-Oct-20	06-Nov-20	26	07-Oct-20	06-Nov-20						AIP - Update & prepare for 2nd Sub	
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AIP - 2nd Review by SO	28	07-Nov-20	04-Dec-20	28	07-Nov-20	04-Dec-20						AIP - 2nd Review by SO	· · · · · · · · · · · · ·
AIP - SO Consent for DDA Submission	0	05 D 00	04-Dec-20	0	05 D 00	04-Dec-20						AIP - SO Consent for DDA Submission	
DDA - E&M Fire Services Installation	101	05-Dec-20	13-Apr-21	101	05-Dec-20	13-Apr-21							
DDA - Draft - Preparation by Designer	30	05-Dec-20	12-Jan-21	30	05-Dec-20	12-Jan-21						DDA - Draft - Preparation	, , , , , , , , , , , , , , , , , , ,
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Jan-21	02-Feb-21	18	13-Jan-21	02-Feb-21						DDA - Draft - F	
DDA - 1st Sub	0		02-Feb-21	0		02-Feb-21						◆ DDA - 1st Sub	.iii.
DDA - Review by SO	28	03-Feb-21	02-Mar-21	28	03-Feb-21	02-Mar-21	ļ						DDA - Reviev
DDA - Review by IP / DC	28	03-Feb-21	02-Mar-21	28	03-Feb-21	02-Mar-21							DDA - Reviev
DDA - Further information required by SO	32	03-Mar-21	13-Apr-21	32	03-Mar-21	13-Apr-21	 ¦.			<u> </u>	<u></u>		- + + + + -
AIP - E&M MVAC	132	15-Jun-20	20-Nov-20	144	01-Jun-20 A	20-Nov-20	 ;.					AIP - E&M MÝAC	
AIP - Draft - Preparation by Designer	48	15-Jun-20	11-Aug-20	60	01-Jun-20 A	11-Aug-20 A	 			AIP	- Draft - Preparation by Designer		· · · · · · · · · · · · · · · · · · ·
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AIP - Review by IP / DC	28	04-Sep-20	01-Oct-20	28	04-Sep-20	01-Oct-20	 			 	AIP - Review by IP		· · · · · · · · · · · · · · · · · · ·
AIP - Update & prepare for 2nd Sub	18	03-Oct-20	23-Oct-20	18	03-Oct-20	23-Oct-20					AIP - U	pdate & prepare for 2nd Sub	
												Data Davisian Charling A	pprovod
	Summary												Approved
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

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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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish				2020						-	202	1
, , , , , , , , , , , , , , , , , , ,								arch April		June J	uly	August	September	October	November	December Januar		
AIP - 2nd Sub	0		23-Oct-20	0		23-Oct-20		15 22 29 05 12 19 26	03 10 17 24 31 07	14 21 28 05 1	2 19 20	02 09 16 23	30 00 13 20	27 04 11 18 25 AIF	- 2nd;Sub	29 06 13 20 27 03 10 1	/ 24 31 0/ 1	4 21 28 07 14 21
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	24-Oct-20	20-Nov-20	+									IP - 2nd Review by SO		
AIP - SO Consent for DDA Submission	0	21 000 20	20-Nov-20	0	21 0 01 20	20-Nov-20									♦ ♦	IP - SO Consent for DDA Sub	mission	
DDA - E&M MVAC	128	21-Nov-20	30-Apr-21	128	21-Nov-20	30-Apr-21						 				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
DDA - Draft - Preparation by Designer	32	21-Nov-20	30-Dec-20	32	21-Nov-20	30-Dec-20						 			+	DDA - Dr	aft - Preparation	n by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	31-Dec-20	20-Jan-21	17	31-Dec-20	20-Jan-21						 			++	+, +,		Final Review and p
DDA - 1st Sub	0		20-Jan-21	0		20-Jan-21	1									+ +	DDA - 1st Su	- 4 14 4 4 14 14
DDA - Review by SO	28	21-Jan-21	17-Feb-21	28	21-Jan-21	17-Feb-21		·····	· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·		DDA-Reviewby
DDA - Review by IP / DC	28	21-Jan-21	17-Feb-21	28	21-Jan-21	17-Feb-21	1	·····	· · · - · - · - · · - · · · · ·			· · · · · · · · · · · · · · · · · · ·				· - · · · · · · · · · · · · · · · · · ·		DDA-Reviewby
DDA - Further information required by SO	32	18-Feb-21	26-Mar-21	32	18-Feb-21	26-Mar-21	1									· · · · · · · · · · · · · · · · · · ·		
DDA - 2nd Sub	0		26-Mar-21	0		26-Mar-21	1								+++	+++-++++++++++++++++++++++-++-++++		
DDA - 2nd Review by SO	35	27-Mar-21	30-Apr-21	35	27-Mar-21	30-Apr-21									+++	+		
AIP - E&M Plumbing & Drainage System	133	15-Jun-20	21-Nov-20	145	01-Jun-20 A	21-Nov-20		$\frac{1}{2}$! <u>-</u> 			A	P - E&M Plumbing & Draina	e System	
AIP - Draft - Preparation by Designer	46	15-Jun-20	08-Aug-20	58	01-Jun-20 A	08-Aug-20 A		++++++++++++++++++	· · · · · · · · · · · · · · · · · · ·			📕 AIP - Dra	t - Preparation	by Designer		+ + - +		
AIP - Draft - Final Review and prepare for 1st Sub	18	10-Aug-20	29-Aug-20	18	10-Aug-20 A	29-Aug-20 A		<u></u>					AIP - Draft - F	inal Review and pre	pare for 1st S	ub		- 4 4 4 1
AIP - Review by SO	28	30-Aug-20	26-Sep-20	28	31-Aug-20	27-Sep-20								AIP - Review by	50	*		
AIP - 1st Sub	0		29-Aug-20	0		31-Aug-20	1					;	AIP - 1st Sut		+++	+		
AIP - Review by IP / DC	28	30-Aug-20	26-Sep-20	28	31-Aug-20	27-Sep-20	1	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ -						AIP - Review by I	P/DC	+		
AIP - Update & prepare for 2nd Sub	22	28-Sep-20	24-Oct-20	22	28-Sep-20	24-Oct-20		$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ -				!! ! ! ! ! ! ! ! ! !			- Update & p	repare for 2nd \$ub		
AIP - 2nd Sub	0		24-Oct-20	0		24-Oct-20		J			l L I I I I	J l l J 		🔷 Alf	2nd Sub	<u>+</u>		
AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	28	25-Oct-20	21-Nov-20	1	·····							A	IP - 2nd Review by SO		
AIP - SO Consent for DDA Submission	0		21-Nov-20	0		21-Nov-20	1								🔷 A	IP - SO Consent for DDA Sub	mission	
DDA - E&M Plumbing & Drainage System	123	23-Nov-20	26-Apr-21	123	23-Nov-20	26-Apr-21									· · · · · · · · · · · · · · · · · · ·	+		
DDA - Draft - Preparation by Designer	24	23-Nov-20	19-Dec-20	24	23-Nov-20	19-Dec-20		++-+++++++++++							++++	DDA - Draft - P	eparation by D	esigner
DDA - Draft - Final Review and prepare for 1st Sub	17	21-Dec-20	12-Jan-21	17	21-Dec-20	12-Jan-21		++++++++++++				!! ! ! ! ! ! ! ! ! !					DA - Draft - Fina	al Review and prepar
DDA - 1st Sub	0		12-Jan-21	0		12-Jan-21	1	J I 4			l b 1 1 1 1	4 la la				🔷 DI	DA - 1 st Sub	
DDA - Review by SO	28	13-Jan-21	09-Feb-21	28	13-Jan-21	09-Feb-21	1	4 + + + + +				4kk4 1			+	•	DI	DA - Review by SO
DDA - Review by IP / DC	28	13-Jan-21	09-Feb-21	28	13-Jan-21	09-Feb-21												DA - Review by IP / [
DDA - Further information required by SO	32	10-Feb-21	22-Mar-21	32	10-Feb-21	22-Mar-21		<u></u>								+		<u></u>
DDA - 2nd Sub	0		22-Mar-21	0		22-Mar-21	1					{				+		♦
DDA - 2nd Review by SO	35	23-Mar-21	26-Apr-21	35	23-Mar-21	26-Apr-21						/						
AIP - E&M Electrical Installation	101	24-Aug-20	22-Dec-20	101	24-Aug-20 A	22-Dec-20		+ + - + - + + +					+		+	AIP - E&M Ele	ectrical Installat	ioh
AIP - Draft - Preparation by Designer	24	24-Aug-20	19-Sep-20	24	24-Aug-20 A	19-Sep-20							A	P - Draft - Preparati	on by Designe	н		
AIP - Draft - Final Review and prepare for 1st Sub	12	21-Sep-20	06-Oct-20	12	21-Sep-20	06-Oct-20		· · · · · · · · · · · · · · · · · · ·						AIP - Draft	Final Review a	and prepare for 1st Sub		
AIP - 1st Sub	0		06-Oct-20	0		06-Oct-20		<u></u>						AIP - 1st Sut				
AIP - Review by SO	28	07-Oct-20	03-Nov-20	28	07-Oct-20	03-Nov-20									AIP - Revie	w by SO		
AIP - Review by IP / DC	28	07-Oct-20	03-Nov-20	28	07-Oct-20	03-Nov-20									AIP - Revie			
AIP - Update & prepare for 2nd Sub	18	04-Nov-20	24-Nov-20	18	04-Nov-20	24-Nov-20										AIP - Update & prepare for 2	nd Sulp	
AIP - 2nd Sub	0		24-Nov-20	0		24-Nov-20										AIP - 2nd Sub		
AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	25-Nov-20	22-Dec-20										AIP - 2nd Rev	iew by SO	
AIP - SO Consent for DDA Submission	0		22-Dec-20	0		22-Dec-20										🔷 AIP - SO Con		ubmission
DDA - E&M Electrical Installation	100	23-Dec-20	29-Apr-21	100	23-Dec-20	29-Apr-21										V		
DDA - Draft - Preparation by Designer	25	23-Dec-20	23-Jan-21	25	23-Dec-20	23-Jan-21	T										📕 DDA - Draf	t - Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	25-Jan-21	17-Feb-21												I DDA - Draft - Fina
DDA - 1st Sub	0		17-Feb-21	0		17-Feb-21												> DDA - 1st Sub
DDA - Review by SO	28	18-Feb-21	17-Mar-21	28	18-Feb-21	17-Mar-21												
DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	18-Feb-21	17-Mar-21												
DDA - Further information required by SO	33	18-Mar-21	29-Apr-21	33	18-Mar-21	29-Apr-21												
AIP CLP Submission - Power Supply to EVB & WVB	91	05-Sep-20	23-Dec-20	89	14-Sep-20	31-Dec-20							V			AIP CLP Sub	mission - Powe	er Supply to EVB & V
AIP - Draft - Preparation by Designer	18	05-Sep-20	25-Sep-20	18	14-Sep-20	06-Oct-20								AIP - Draft				
AIP - Draft - Final Review and prepare for 1st Sub	12	26-Sep-20	12-Oct-20	12	07-Oct-20	20-Oct-20										Review and prepare for 1st Su	þ	
AIP - 1st Sub	0		12-Oct-20	0		20-Oct-20								♦ AIP	1st Sub			
Date Revision Checked Approved																		
Page 24 of 30	Summary	·				. –			, , , ,						05-No		Checked WYu	Approved

Data Date: 30-Aug-20

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

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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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish						2020			-				2021	
							01	March 08 15 2	22 29 (April May	June 31 07 14 2	July 1 28 05 12		August	September 30 06 13 20	October	November 01 08 15 22		Lary February	March
AIP - Review by SO	28	13-Oct-20	09-Nov-20	28	21-Oct-20	17-Nov-20						. 20 00 12		0, 10 20						
AIP - Review by IP / DC	28	13-Oct-20	09-Nov-20	28	21-Oct-20	17-Nov-20	0			\\ 	+						AIP	Review by IP / DC	/	
AIP - Update & prepare for 2nd Sub	14	10-Nov-20	25-Nov-20	14	18-Nov-20	03-Dec-20	0			· · · ↓ · · ↓ · ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ -	L		· · · · · · · · · · · · · · · · · · ·		· 4 4 1 · · · · · · · · · · · · · · · · · · ·			🗖 AIP - Update & prepa	re for 2nd Sub	
AIP - 2nd Sub	0		25-Nov-20	0		03-Dec-20	0			++++++++++++++++++++++++++++++++++++++					++			◆ AIP - 2nd Sub		
AIP - 2nd Review by SO	28	26-Nov-20	23-Dec-20	28	04-Dec-20	31-Dec-20	0									• • • • • • • • • • • • • • • • • • •		- AIP - 2	2nd Review by \$O	
AIP - SO Consent for DDA Submission	0		23-Dec-20	0		31-Dec-20	0											♦ AIP -	SO Consent for DDA S	ubmission
DDA CLP Submission - Power Supply to EVB & WVB	100	24-Dec-20	30-Apr-21	100	02-Jan-21	07-May-21	1											V		
DDA - Draft - Preparation by Designer	24	24-Dec-20	23-Jan-21	24	02-Jan-21	29-Jan-21	1									+			DDA - Draft -	Preparation by De
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	30-Jan-21	23-Feb-21	1													DDA - Draft - Fina
DDA - 1st Sub	0		17-Feb-21	0		23-Feb-21	1													DDA - 1 stSub
DDA - Review by SO	28	18-Feb-21	17-Mar-21	28	24-Feb-21	23-Mar-21	1												: : : : : : :	;D
DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	24-Feb-21	23-Mar-21	1													D
DDA - Further information required by SO	34	18-Mar-21	30-Apr-21	34	24-Mar-21	07-May-21	1													-=
AIP - E&M Tunnel Lighting Design	148	31-Aug-20	01-Mar-21	148	31-Aug-20	01-Mar-21	1													🗸 AIP - E&M Tu
AIP - Draft - Preparation by Designer	34	31-Aug-20	10-Oct-20	34	31-Aug-20	10-Oct-20)									AiP - Dra	aft - Preparation	by Designer		
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Oct-20	09-Nov-20	24	12-Oct-20	09-Nov-20	0										AIP - Dr	aft - Final Review and prep	are for 1st Sub	
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AIP - Review by SO	28	10-Nov-20	07-Dec-20	28	10-Nov-20	07-Dec-20												AIP Review by SC)	
AIP - Review by IP / DC	28	10-Nov-20	07-Dec-20	28	10-Nov-20	07-Dec-20	i			· · · · · · · · · · · · · · · · · · ·			· · · · · ·					AIP Review by IP		
AIP - Update & prepare for 2nd Sub	45	08-Dec-20	01-Feb-21	45	08-Dec-20	01-Feb-21	+													ie & prepare for 2r
AIP - 2nd Sub	0		01-Feb-21	0		01-Feb-21	1												🔷 AIP - 2nd S	
AIP - 2nd Review by SO	28	02-Feb-21	01-Mar-21	28	02-Feb-21	01-Mar-21	+												· · · · · · · · · · · · · · · · · · ·	AIP - 2nd Rev
AIP - SO Consent for DDA Submission	0		01-Mar-21	0		01-Mar-21										· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	🔷 AIP - SO Con:
DDA - E&M Tunnel Lighting Design	34	02-Mar-21	14-Apr-21	34	02-Mar-21	14-Apr-21	i													V
DDA - Draft - Preparation by Designer	22	02-Mar-21	26-Mar-21	22	02-Mar-21	26-Mar-21	1			· · · · · · · · · · · · · · · · · · ·										
DDA - Draft - Final Review and prepare for 1st Sub	12	27-Mar-21	14-Apr-21	12	27-Mar-21	14-Apr-21					++++-		· · · · · ·		++	· · · · · · · · · · · · · · · · · · ·	+	· · · · · · · · · · · · · · · · · · ·		—
AIP - E&M CMCS	118	10-Nov-20	07-Apr-21	118	10-Nov-20	07-Apr-21	÷ ÷								+					
AIP - Draft - Preparation by Designer	41	10-Nov-20	29-Dec-20	41	10-Nov-20	29-Dec-20									+	+		AIP - D	raft - Preparation by De	
AIP - Draft - Final Review and prepare for 1st Sub	18	30-Dec-20	20-Jan-21	18	30-Dec-20	20-Jan-21				· · · · · · · · · · · · · · · · · · ·						;			🔳 AIP - Draft - Final	Review and prepa
AIP - 1st Sub	0		20-Jan-21	0		20-Jan-21	1												♦ AIP - 1st Sub	· · · · · · · · · · · · · · · · · · ·
AIP - Review by SO	28	21-Jan-21	17-Feb-21	28	21-Jan-21	17-Feb-21														P - Review by SO
AIP - Review by IP / DC	28	21-Jan-21	17-Feb-21	28	21-Jan-21	17-Feb-21									++	*				P - Review by IP /
AIP - Update & prepare for 2nd Sub	38	18-Feb-21	07-Apr-21	38	18-Feb-21	07-Apr-21				· · · · · · · · · · · · · · · · · · ·			, , , , , , , , , , , , , , , , , , ,		-	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		· · · · · · · · · · · · · · · · · · ·		
SOUTH APRON EXTERNAL WORKS	420	07-Jan-20	09-Jun-21	522	10-Jan-20 A	15-Oct-21	1				 		 							
Building Demolition	59	07-Jan-20	18-Mar-20	35	10-Jan-20 A	22-Feb-20 A	A		3uiļdinģ	g Demolition										
Preparation	18	07-Jan-20	30-Jan-20	7	10-Jan-20 A	17-Jan-20 A	A													
Hoarding installation	18	07-Jan-20	30-Jan-20	7	10-Jan-20 A	17-Jan-20 A	A llatic													
Building Demolition	41	31-Jan-20	18-Mar-20	28	18-Jan-20 A	22-Feb-20 A	Α	 [3uilding '	g Demolition										
Building demolition in Portion D1, D2 & D4	24	31-Jan-20	27-Feb-20	22	18-Jan-20 A	15-Feb-20 A				h in Portion D1, D2 & D4										
Building Demolition - Commencement	0	31-Jan-20		0	31-Jan-20 A		litia	1 - Comr	imencem	ment										
Hoarding removal & Site Clearance	17	28-Feb-20	18-Mar-20	6	17-Feb-20 A	22-Feb-20 A				ng removal & Site Clearance										
Section 12 Achievement	0		18-Mar-20	0		22-Feb-20 A	i	\$	Section 1	12 Achievement									·	
Road S20	296	01-Jun-20	31-May-21	315	31-Aug-20	21-Sep-21	i									· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
CUE	245	01-Aug-20	31-May-21	245	24-Nov-20	21-Sep-21	i													
CUE Typical Section ELS (Preboring)	36	01-Aug-20	11-Sep-20	36	24-Nov-20	07-Jan-21												Cl	JE Typical Section ELS	(Preboring)
CUE Typical Section ELS (Sheet pile)	50	12-Sep-20	12-Nov-20	50	08-Jan-21	10-Mar-21	+									+			·	СИЕ Тур
CUE Entrance Section ELS (Sheet pile)	15	13-Nov-20	30-Nov-20	15	11-Mar-21	27-Mar-21	1													
CUE Pump Test	24	01-Dec-20	30-Dec-20	24	29-Mar-21	29-Apr-21	÷			· · · · · · · · · · · · · · · · · · ·									· · · · · · · · · · · · · · · · · · ·	
CUE Excavation	48	31-Dec-20	01-Mar-21	48	30-Apr-21	28-Jun-21													· · · · · · · · · · · · · · · · · · ·	
CUE Typical Section & Entrance Structure	72	02-Mar-21	31-May-21	72	29-Jun-21	21-Sep-21	+				<u> </u>					+	· +	· <u></u>	<u></u>	
Road & Drain	270	01-Jun-20	28-Apr-21	270	31-Aug-20	30-Jul-21		· · · · · ·					 			+				
Stage 1	108	01-Jun-20	08-Oct-20	108	31-Aug-20	09-Jan-21	1				Y					▼ Stage 1				
Page 25 of 30 Data Date: 30-Aug-20 Planned Bar Ortical A divity Actual Milestone Actual Work Baseline Milestone Baseline Bar 	ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron BOUYGUES TRAVAUX PUBLICS BOUYGUES TRAVAUX PUBLICS 05-Nov-19 18-Dec-19 00V0 WYu 18-Dec-19 00V0 SPa/LL 09-Apr-20 01V1 SPa/LL							WYu SPa/LLo SPa/LLo	Approved WYu WYu WYu WYu											

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	2020		2021
							March April May June July 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26	August September October November 6 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29	December January February March 06 13 20 27 03 10 17 24 31 07 14 21 28 07 14 21 18
S20 Site Clearance / Trial pit / UU diversion	24	01-Jun-20	29-Jun-20	24	31-Aug-20*	26-Sep-20		S20 Site Clearance / Trial pit / UU d	
S20 Stage 1 (Sewerage)	18	30-Jun-20	21-Jul-20	18	28-Sep-20	20-Oct-20		S20 Stage 1 (Sewerac	e)
S20 Stage 1 (Drainage)	42	08-Jul-20	25-Aug-20	42	07-Oct-20	25-Nov-20		*************************************	0 Stage 1 (Drainage)
S20 Stage 1 (Watermain)	36	29-Jul-20	08-Sep-20	36	29-Oct-20	09-Dec-20			S20 Stage 1 (Watermain)
S20 Stage 1 (U channel, Catchpit, Gully)	24	12-Aug-20	08-Sep-20	24	12-Nov-20	09-Dec-20		·····································	S20 Stage 1 (U channel, Catchpit, Gully)
S20 Stage 1 (Roadworks)	24	09-Sep-20	08-Oct-20	24	10-Dec-20	09-Jan-21		··· ╡···· ◇··· ◇··· ◇··· ◇ ··· ◇··· ◇··	S20 Stage 1 (Roadworks)
Stage 2	108	09-Oct-20	19-Feb-21	108	11-Jan-21	26-May-21			✓ Stage:2
S20 Stage 2 (Sewerage)	12	09-Oct-20	22-Oct-20	12	11-Jan-21	23-Jan-21			S20 Stage 2 (Sewerage)
S20 Stage 2 (Drainage)	48	23-Oct-20	18-Dec-20	48	25-Jan-21	24-Mar-21			
S20 Stage 2 (Watermain)	48	21-Nov-20	19-Jan-21	48	25-Feb-21	26-Apr-21			
S20 Stage 2 (U channel, Catchpit, Gully)	24	19-Dec-20	19-Jan-21	24	25-Mar-21	26-Apr-21			
S20 Stage 2 (Roadworks)	24	20-Jan-21	19-Feb-21	24	27-Apr-21	26-May-21			
Stage 3	54	20-Feb-21	28-Apr-21	54	27-May-21	30-Jul-21		╌╠╌╶╬╌┊╴┊╴╴╣╴┊╴╡╴╶┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴╴┊╴╴	
S20 Stage 3 (Sewerage)	12	20 Feb-21	05-Mar-21	12	27-May 21	09-Jun-21	┠╌┊╌┊╌┊╌┊┨╴╬╌╬╌┊╌┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴	╌╠╌╌┾╌╶┾╌╶╣╴┾╌┥╌╶┾╴╴┾╴┝┼┼╌┾╌┊╴┽╴┼╴┼╴┼╴┼	╞╌╞╌╡╌┽╌ <mark>╞╌</mark> ┊╌┽╌╞╌┊╴┊╴ <mark>┊╴┊╴</mark> ┊╴╡╴┼╴┊
S20 Stage 3 (Drainage)	12	06-Mar-21	26-Mar-21	12	10-Jun-21	09-Juli-21 02-Jul-21		╌╠╌╌┶╌┶╌╌╢╌┶╌┵╌┶╌┾╎┽╌┶╌┶╴┽╌┼╌┾╌┼╴┿	······································
S20 Stage 3 (Watermain)	24	27-Mar-21	28-Apr-21	24	03-Jul-21	30-Jul-21		╌┟╌╌┼╌╞╌╶┨╴┼╌┽╌┾╌┾╎┼╌┾╌┾╌┾╌┼╌┼╌┽╴┼	
AMAWBC	24	02-Jun-20	26-Apr-21 26-Apr-21	24	12-Oct-20	07-Jul-21			
Drainage & Sewerage	36		26-Api-21 15-Jul-20	36	12-Oct-20	23-Nov-20		nage & Sewerage	
		02-Jun-20						······································	in P. (Drainada & Souprado)
Section B (Drainage & Sewerage)	36	02-Jun-20	15-Jul-20	36	12-Oct-20	23-Nov-20	┝╍╞╍╡╍╞╍╞╍╞┙╞┟╌╪╍╪╍╞╍╞╴╞╴╞╴		tion B (Drainage & Sewerage)
Outfall 1	36	11-Mar-21	26-Apr-21	36	25-May-21	07-Jul-21		╶┟╌┊╌┊╴╡╴┫╴┊╴╡╴┊╴┊╶┊╎	· · · · · · · · · · · · · · · · · · ·
Outfall 1 Excavation & Blinding	36	11-Mar-21	26-Apr-21	36	25-May-21	07-Jul-21			
[STE] District Cooling System for AMAWBC Section 6B	246	10-Aug-20	09-Jun-21	286	31-Aug-20	18-Aug-21			
DCS Section 6B	246	10-Aug-20	09-Jun-21	286	31-Aug-20	18-Aug-21			
DCS - Material Procurement for Section 6B	96	10-Aug-20	02-Dec-20	96	31-Aug-20	23-Dec-20			DCS - Material Procurement for Section 6B
DCS - Section D	78	03-Dec-20	10-Mar-21	78	16-Feb-21	24-May-21			
DCS - Section C	144	03-Dec-20	02-Jun-21	144	16-Feb-21	11-Aug-21			
DCS - Section A	72	11-Mar-21	09-Jun-21	72	25-May-21	18-Aug-21			
[STE] District Cooling System - Remaining Section 7B	96	17-Dec-20	19-Apr-21	121	17-Dec-20	20-May-21			V
Road L10S	96	17-Dec-20	19-Apr-21	121	17-Dec-20	20-May-21			
DCS - Material Procurement for Section 7B	96	17-Dec-20	19-Apr-21	96	17-Dec-20	19-Apr-21			
DCS - Pipe Installation under DPR	21	21-Jan-21	17-Feb-21	21	24-Apr-21	20-May-21			
Foot Bridge FB-02	105	02-Jan-21	13-May-21	232	02-Jan-21	15-Oct-21			
Temporary Ramp provision	72	02-Jan-21	30-Mar-21	72	02-Jan-21*	30-Mar-21			
FB-02 - Road L10 - H-pile Installation	48	13-Mar-21	13-May-21	48	18-Aug-21	15-Oct-21			
Coordinatied Access within Portion E (DSD Deslitining Compound)	0	13-Mar-21		0	18-Aug-21				♦
FB-02 - Portion E UU Diversion	48	13-Mar-21	13-May-21	48	18-Aug-21	15-Oct-21			
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	60	19-Jan-21	01-Apr-21	60	28-Dec-20	11-Mar-21			
HBR / CYS / WCR TTA Phase 1	60	19-Jan-21	01-Apr-21	60	28-Dec-20	11-Mar-21			
AT-GRADE ROAD [AGR]	144	20-Jul-20	09-Jan-21	144	31-Aug-20	24-Feb-21			AT-GRADE ROAD [AGR]
Permanent Structure	144	20-Jul-20	09-Jan-21	144	31-Aug-20	24-Feb-21		······································	▼ Permanent Structure
AGR - Formation to required level + SRT	18	20-Jul-20	08-Aug-20	18	31-Aug-20	19-Sep-20		AGR - Formation to required level + \$R	······································
AGR - Sub-base + SRT	18	10-Aug-20	29-Aug-20	18	21-Sep-20	13-Oct-20		AGR - Sub-base + SRT	
AGR - Drainage & Gully Installation part 1	24	31-Aug-20	26-Sep-20	24	14-Oct-20	11-Nov-20		µ	nage & Gully Installation part 1
AGR - Drainage & Gully Installation part 1	24	28-Sep-20	28-Oct-20	24	12-Nov-20	09-Dec-20			AGR - Drainage & Gully Installation part 2
AGR - Base Slab Structure part 1	60	28-Sep-20	09-Dec-20	60	12-Nov-20	23-Jan-21			AGR - Base Slab Structure part 1
AGR - Base Slab Structure part 2	60	29-Oct-20	09-Jan-21	60	10-Dec-20	23-5ah 21 24-Feb-21			AGR - Base Slat
Stage 2B Completion	0	2, 00, 20	09-Jan-21	0		24-Feb-21		╌╠╌╶┶╶╞╶╴┇╴╴╢╴┧╴╽╴┧╴╞╶╞╎┧╴┾╴╴┥╴┥╴┥╴┥╴┥╴┤	♦ Stage 2B Complete
DEPRESSED ROAD [DPR]	362	06-Mar-20	28-May-21	435	06-Mar-20 A	24-Aug-21			
ELS system & Foundation			,	240		23-Dec-20		🗸 ELS system & Foundation	╞╌╴╞╌╴┪╌╴┪╴╴┟╞╶╴┝╌╴┝╴╴╣╴╴┝╌╴┥╴╴┥╴╴╢╴╴┼╴╴┥╴╴╎╴
	167	06-Mar-20	25-Sep-20						
Mobilization	24	06-Mar-20	02-Apr-20	62		23-May-20 A	Mobilization	Hoot bild Installation 50% complete	
DPR - Sheet pile Installation 50% complete	42	21-May-20	10-Jul-20	65	22-Apr-20 A	10-Jul-20 A		Reet pile Installation 50% complete	
		I						Date	Revision Checked Approved
	Summon								Revision Linecked Annroved

Page 26 of 30 Data Date: 30-Aug-20

Summary inned Bar

Milestone ual Work

> eline Mileston Baseline Bar

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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	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020 2021
		/					March 01 08 15 22	April May June July August September October November December January February March 12 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 03 10 17 24 31 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07
DPR - Sheet pile Installation 100% complete	42	11-Jul-20	28-Aug-20	61	11-Jul-20 A	19-Sep-20		DPR - Sheet;pile;Installation;100% complete
DPR - Predrill for H-piles foundation	24	04-May-20	30-May-20	24	31-Aug-20	26-Sep-20		DPR + Predrill for H-piles foundation
DPR - H-pile Drilling / Installation / Grouting	24	01-Aug-20	28-Aug-20	24	29-Oct-20	25-Nov-20		PPR - H-pile Drilling / Installation / Grouting
DPR - Pile Load Test	10	29-Aug-20	09-Sep-20	10	26-Nov-20	07-Dec-20		DPR - Pile Load Test
DPR - King Post for ELS	24	29-Aug-20	25-Sep-20	24	26-Nov-20	23-Dec-20		DPR - King Post for ELS
Excavation & Strutting	143	10-Sep-20	05-Mar-21	143		05-Jun-21		
DPR - Pump wells & Pump test	36	10-Sep-20	23-Oct-20	36	08-Dec-20	21-Jan-21		DPR-Pump wells & Pump test
DPR - CH5962-6008 - Excavation S1	24	24-Oct-20	21-Nov-20	24	22-Jan-21	22-Feb-21		ØPR-CH5962-60
DPR - CH6008-6080 - Excavation to Strut S1	21	24-Oct-20	18-Nov-20	21	22-Jan-21	18-Feb-21		DPR-CH6008-608(
DPR - CH6080-6150 - Excavation to S1	18	24-Oct-20	14-Nov-20	18	22-Jan-21	11-Feb-21		DPR - C H6080-61:50 + E
DPR - CH6080-6150 - Strut S1 Installation	12	16-Nov-20	28-Nov-20	12	16-Feb-21	01-Mar-21		DPR - CiH608
DPR - CH6008-6080 - Strut S1 Installation	12	19-Nov-20	02-Dec-20	12	19-Feb-21	04-Mar-21		
DPR - CH6080-6150 - Excavation to S2	12	30-Nov-20	12-Dec-20	12	02-Mar-21	15-Mar-21		
DPR - CH6008-6080 - Excavation to Strut S3	20	03-Dec-20	28-Dec-20	20	05-Mar-21	27-Mar-21		
DPR - CH6080-6150 - Strut S2 Installation	12	14-Dec-20	29-Dec-20	12	16-Mar-21	29-Mar-21		
DPR - CH6008-6080 - Strut S3 Installation	12	29-Dec-20	12-Jan-21	12	29-Mar-21	15-Apr-21		╶╴╪╎╴╪╴╴╪╴╶╪╶╶╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴╪╴╴
DPR - CH6080-6150 - Excavation to S3	12	30-Dec-20	13-Jan-21	12	30-Mar-21	16-Apr-21		··┊┤┊╌┊╌┊╌┊╌┊╌┊╴┊╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴
DPR - CH6008-6080 - Excavation to FEL	7	13-Jan-21	20-Jan-21	7	16-Apr-21	23-Apr-21		╶╪┥╡╶┊╶┊╴┊╴┊╴┊╴┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╴
DPR - CH6080-6150 - Strut S3 Installation	12	14-Jan-21	27-Jan-21	12	17-Apr-21	30-Apr-21		╶╧╡╡╡╌┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴┇╴
DPR - CH6080-6150 - Excavation to S4	12	28-Jan-21	10-Feb-21	12	03-May-21	15-May-21		
DPR - CH6080-6150 - Strut S4 Installation	12	11-Feb-21	27-Feb-21	12	17-May-21	31-May-21		╶┊┼┊╌┊╌┊╌┊╴┊╴┊╴┊╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴
DPR - CH6080-6150 - Excavation FEL	5	01-Mar-21	05-Mar-21	5	01-Jun-21	05-Jun-21		╌┊┤╶┊╌┊╌┊╌┊╴┊╴┊╴┊╶┊╶┊╶┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊
Permanent Structure	80	18-Feb-21	28-May-21	80	21-May-21	24-Aug-21		·· [↓] │· [↓] ·· [↓] ·· [↓] ·· [↓] ·· [↓] ·· [↓] ·· [↓]
DPR - CH5962-6080 - Base Slab	48	18-Feb-21	19-Apr-21	48	21-May-21 21-May-21	17-Jul-21		╌┊ <mark>┦╶┊╌┊╌┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊</mark>
DPR - CH5902-0000 - base Slab DPR - CH6080-6150 - Base Slab	66	06-Mar-21	28-May-21	66	07-Jun-21	24-Aug-21		
WEST VENTILATION BUILDING [WVB]	180	23-Oct-20	04-Jun-21	200		24-Aug-21 06-May-21		╌┊┼┊╌┊╌┊╌┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╶┊╶┊╶┊╴┊╴┊╴┊╴┊╴╢╴┊╴┊╴┊┟┊╴┊╴┊ _╋ ┙┝╺┇╸╡╸╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴╡
					5	, ,		╌╬ <mark>╴┊╌┊╌┊╌┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊</mark> ╴┊╴┊╴┊╴┊╶┊╴ <mark>┊╶╶┟╶┇╴┊╴┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊╶┊</mark>
ELS system & Foundation	180	23-Oct-20	04-Jun-21	200	5	06-May-21		
Mobilization & Predrilling for H-piles Foundation	48	23-Oct-20	18-Dec-20	48	31-Aug-20*	28-Oct-20		Mobilization & Predrilling for H-piles foundation
WVB - H-piles Drilling / Installation / Grouting 50% completion	66	19-Dec-20	12-Mar-21	66	29-Oct-20	16-Jan-21		
WVB - Sheet Piles Installation 50% completion	48	24-Nov-20	21-Jan-21	48	06-Jan-21	05-Mar-21		
WVB - H-piles Drilling / Installation / Grouting 100% completion	66	13-Mar-21	04-Jun-21	60	18-Jan-21	12-Apr-21		
WVB - Sheet Piles Installation 100% completion	48	22-Jan-21	22-Mar-21	48	06-Mar-21	06-May-21		
SOUTH APRON ADIT	24	23-Mar-21	23-Apr-21	24	07-May-21	04-Jun-21	I	
South Apron Adit - Sheet piling	24	23-Mar-21	23-Apr-21	24	07-May-21	04-Jun-21		
SUPPORTING UNDERGROUND STRUCTURE [SUS	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A		ING UNDERGROUND STRUCTURE [SUS]
Site Inspection	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A	Site Inspect	
Condition Survey to verify SUS as-built	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A	Condition	n Survey to verify SUS as-built
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	379	02-Jan-20	15-Apr-21	325	12-Mar-20 A	19-Apr-21		
Dwall & Ground Treatment	352	02-Jan-20	10-Mar-21	298	12-Mar-20 A	13-Mar-21		
Site Establishment	112	02-Jan-20	21-May-20	142	12-Mar-20 A	02-Sep-20		▼ Site Eştablishment
CSM - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	25	12-Mar-20 A	14-Apr-20 A		CSM - Site Setup & Rig mobilization
Grout Curtain along Public Lab - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	16	23-Mar-20 A	14-Apr-20 A		Grout Curtain alorig Public Lab - Site Setup & Rig mobilization
Dwall - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	48	30-Mar-20 A	30-May-20 A		Dwall - Site Setup & Rig mobilization
Dwall Pre-drilling - Stage 1	12	30-Mar-20	16-Apr-20	27				
Dwall Pre-drilling - Stage 2	28	17-Apr-20	21-May-20	87	22-May-20 A			Dwall Pre-drilling - Stage 2
Site Investigation & Existing UU identification	36	02-Jan-20	15-Feb-20	6	3			Site Investigation & Existing UU identification
Existing UU Diversion / Removal	36	17-Feb-20	28-Mar-20	50	17-Jun-20 A	15-Aug-20 A		Existing UU Diversion / Removal
Grout Curtain along Public Lab	55	17-Apr-20	22-Jun-20	27		-		V Grout Curtain atong Public Lab:
Grout Curtain along Public Lab	43	04-May-20	22-Jun-20	25		15-May-20 A		Grout Curtain atong Public Lab
Rig mobilization at Portion N1,N2,N3	12	17-Apr-20	02-May-20	12	05-May-20 A	-		Rig mobilization; at Portion N1,N2,N3
Shaft Dwall	221	17-Apr-20	11-Jan-21	226	-	14-Jan-21		
	221	17-Api-20		220	13-Apr-20 A	14-Jall-2 I		
/								Data Pavisian Chacked Approved

Page 27 of 30 Data Date: 30-Aug-20

Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

riticalActivity

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

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish	
							March April May June July August September October November December January February March 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 21 28 07 14 <td< td=""></td<>
Rig mobilization at Portion N1,N2,N3	28	17-Apr-20	21-May-20	38	15-Apr-20 A	30-May-20 A	Rig mobilization at Portion N1.N2.N3
C&C/LS - Guide Wall Construction - Stage 1	28	17-Apr-20	21-May-20	104	02-May-20 A	02-Sep-20	C&C/L\$ - Guide Wall Construction - Stage 1
C&C/LS - Guide Wall Construction - Stage 2	69	22-May-20	12-Aug-20	108	15-May-20 A	19-Sep-20	C&C/LS · Guide Wall Construction · \$tage 2
C&C/LS - Dwall & Barrettes 20%	42	22-May-20	11-Jul-20	29	22-May-20 A	24-Jun-20 A	C&C/LS Dwall & Barrettes 20%
C&C/LS - Dwall & Barrettes 40%	38	13-Jul-20	25-Aug-20	20	25-Jun-20 A	20-Jul-20 A	C&C/L\$ - Dwall & Barrettes 40%
C&C/LS - Dwall & Barrettes 60%	38	26-Aug-20	10-Oct-20	29	21-Jul-20 A	22-Aug-20 A	C&C/LS - Dwall & Barrettes 60%
C&C/LS - Dwall & Barrettes 80%	38	12-Oct-20	25-Nov-20	81	24-Aug-20 A	28-Nov-20	C&C/LS - Dwall & Barrettes 80%
C&C/LS - Dwall & Barrettes 100%	37	26-Nov-20	11-Jan-21	37	30-Nov-20	14-Jan-21	C&C/LS - Dwall & Barrettes 100%
Break-in Plug	268	17-Apr-20	10-Mar-21	273	15-Apr-20 A	13-Mar-21	v Bréak-in
B/I Plug - CSM	66	17-Apr-20	07-Jul-20	109	15-Apr-20 A	24-Aug-20 A	
B/I Plug - Perimeter Wall + Separation Wall	47	12-Jan-21	10-Mar-21	47	15-Jan-21	13-Mar-21	
Shaft Excavation & Strutting	74	12-Jan-21	15-Apr-21	74	15-Jan-21	19-Apr-21	
C&C / LS Capping Beam / Pump Test - Lead Time	30	12-Jan-21	18-Feb-21	30	15-Jan-21	22-Feb-21	
Double Cells Shaft - Excavation - Stage 1 to below Concrete Strut	24	19-Feb-21	18-Mar-21	24	23-Feb-21	22-Mar-21 19-Mar-21	
C&C Shaft - Concete Strutting Slab + Excavation Step 1 C&C Shaft - Concete Strutting Slab + Excavation Step 2	22 22	19-Feb-21 17-Mar-21	16-Mar-21 15-Apr-21	22 22	23-Feb-21 20-Mar-21	19-Mar-21 19-Apr-21	
Cell 1 & Cell 2 Concrete Strutting Stat + Excavation Step 2	14	17-Mar-21 19-Mar-21	08-Apr-21	14	20-Mar-21 23-Mar-21	19-Apr-21 12-Apr-21	<u>┥</u> ╌┼╴┆╴┊╴┊╴┼╴┼╴╞╴╡╴┼╴┼╴╞╴╡╴┼╴┼╴╎╴┼╷┽╴┼╴┼╴╡╴╡╴╡╴╡╴╡╴╡╴╡╴┼╴┼╴┼╴┼╴┼╴┼╴┼╴┼╴┼╴┤╴┼╴┼╴┼╴┼
SUB-SEA TBM TUNNEL - WESTBOUND	353	29-Feb-20	12-May-21	331	03-Apr-20 A	20-May-21	
TBM Design / Fabrication / FAT / Delivery	336	29-Feb-20	20-Apr-21	331	03-Apr-20 A	20-May-21	
Place Order	72	29-Feb-20 29-Feb-20	20-Apr-21 29-May-20	23	03-Apr-20 A	06-May-20 A	Place Order
Design	72	30-May-20	29-Way-20 24-Aug-20	121	07-May-20 A	26-Sep-20	
Fabrication	168	25-Aug-20	18-Mar-21		25-Aug-20 A	20-Apr-21	
FAT	24	19-Mar-21	20-Apr-21	24	21-Apr-21	20-May-21	
Precast Fabrication	168	12-Sep-20	10-Apr-21	168	12-Sep-20	10-Apr-21	
Concrete Mix - Plant Trial	72	12-Sep-20	08-Dec-20	72	12-Sep-20*	08-Dec-20	Concrete Mix - Plant Trial
Precast TBM Segment - Mould Fabrication & Setup	72	12-Sep-20	08-Dec-20	72	12-Sep-20*	08-Dec-20	Precast TBM Segment - Mould Fabrication & Setup
Precast TBM Segment - Master Ring Erection & Inspection	24	09-Dec-20	08-Jan-21	24	09-Dec-20	08-Jan-21	Precast TBM Segment - Master Ring Erect
Precast TBM Segment - Mass Production Start	0	09-Jan-21		0	09-Jan-21		Precast TBM:Segment - Mass Production
Precast TBM Segment - 3%	36	09-Jan-21	23-Feb-21	36	09-Jan-21	23-Feb-21	Preçast TBM Sec
Precast TBM Segment - 6%	36	24-Feb-21	10-Apr-21	36	24-Feb-21	10-Apr-21	
Site Establishment	306	29-Apr-20	12-May-21	317	20-Apr-20 A	15-May-21	
Temporary CLP 132kV Substation	264	04-Jun-20	24-Apr-21	294	20-Apr-20 A	16-Apr-21	
Temp CLP 132kV Substation - Earth works & Civil works	72	04-Jun-20	28-Aug-20	98	20-Apr-20 A	15-Aug-20 A	Temp CLP 132kV Substation - Earth works & Civil works
Temp CLP 132kV Substation - ABWF & E&M for CLP Access	72	29-Aug-20	24-Nov-20	76	17-Aug-20 A	16-Nov-20	Temp CLP 132kV Substation - ABWF & E&M for CLP Access
Temp CLP 132kV Substation - CLP Access	0	25-Nov-20		0	17-Nov-20		◆ Temp CLP 132kV Substation - CLP Access
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	96	25-Nov-20	23-Mar-21	96	17-Nov-20	15-Mar-21	
Temp CLP 132kV Substation - FSD / WSD Inspection	24	24-Mar-21	24-Apr-21	24	16-Mar-21	16-Apr-21	
Precast Elements Storage Yard	72	18-Jun-20	11-Sep-20	72	31-Aug-20	25-Nov-20	▼ Precast Elements' Storage Yard
Precast Storage - Preparation Precast Storage - Gantry Crane Setup	36 36	18-Jun-20	31-Jul-20 11-Sep-20	36 36	31-Aug-20* 14-Oct-20	13-Oct-20 25-Nov-20	Precast Storage - Greparation
Gantry Crane Setup for TBMAssembly		01-Aug-20	•	24	14-0ct-20 15-Mar-21	25-N0V-20 15-Apr-21	
Gantry Crane - Foundation	24 24	11-Mar-21	12-Apr-21 12-Apr-21	24	15-Mar-21	· ·	
Mortar Plant	36	11-Mar-21 25-Mar-21	12-Apr-21 12-May-21	36	15-Mar-21 29-Mar-21	15-Apr-21 15-May-21	
Mortar Plant - Civil works	30	25-Mar-21	12-May-21 12-May-21	30 36	29-Mar-21	15-May-21 15-May-21	
DG Store / Medical Lock	144	25-Wai-21 29-Apr-20	20-Oct-20	174	29-Mai-21 29-Apr-20 A	25-Nov-20	The second se
Hyperbaric Intervention - LD consultation & Approval	144	29-Apr-20	20-Oct-20 20-Oct-20	174	29-Apr-20 A	25-Nov-20	Hyperbaric Intervention - LD consultation & Approval
Barging Point at Portion P	96	29-Api-20 29-Jul-20	20-Nov-20	96	31-Aug-20	23-Dec-20	■ Injection interview of the product of the produc
Barging Point - Foundation	36	29-Jul-20	08-Sep-20	36	31-Aug-20	13-Oct-20	Barging Point - Foundation
Barging Point - Spoil Ramp Installation	36	09-Sep-20	22-Oct-20	36	14-Oct-20	25-Nov-20	Barging Point - Spoil Ramp Installation
Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	24	26-Nov-20	23-Dec-20	Barging Point + Commissioning
CHA KWO LING ROAD WORKS	220	25-Feb-20	20-Nov-20	257	25-Feb-20 A	06-Jan-21	🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🗸 🖌 🗸 🗸 🗸 🗸 🖌 🗸 🗸 🖌 🕹
TTA Phasing	0		25-Feb-20	0		25-Feb-20 A	ITA Phasing
Page 28 of 30 Milestone	Summary						Date Revision Checked Approved
Data Date: 30-Aug-20			ED/2	019			Road T2 and Infrastructure Works
Critical A divity							18-Dec-19 00V1 WYu
Actual Miestone					for D)evelo	pments at South Apron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
							09-Apr-20 01V1 SPa/LLo WYu
Baseline Bar					Thre	e Mor	hths Rolling Programme

Activity Name	Dur	01V2 Start	01V2 Finish	Dur S	tart F	Finish	Mamb	And Maria In	2020	A	Contembor Ortobe	n Navarahan Da		2021	Mamh
							March 01 08 15 22	April May Jur 29 05 12 19 26 03 10 17 24 31 07 1	14 21 28 05 12 19 2	August 5 02 09 16 23	September Octobe	er November De 18 25 01 08 15 22 29 06	cember 13 20 27 03	January February	March 21 28 07 14 21 8
TMLG for XP validation	0		14-Mar-20	0	14-1	Mar-20 A	TMLC	5 for XP validation							
XP validated	0		16-Apr-20	0	16-/	Apr-20 A		♦ XP validated							
TMLG to TD for Approval	0		22-Apr-20	0	22-4	Apr-20 A		TMLG to TD for Approval							
TMLG Approved	0		11-May-20	0	11-N	/lay-20 A		TMLG Approved							
Roadworks advice from RMO for TTA Implementation	0		20-May-20	0	24-J	lun-20 A		♦	Roadworks advid	e from RMO for					
Site Establishment	96	29-Jul-20	20-Nov-20	96 31-A	.ug-20 23-	Dec-20						▼ Site Estat	olishment		
Barging Point	96	29-Jul-20	20-Nov-20	96 31-A	.ug-20 23-	Dec-20					- <mark>-</mark>	V Barging P	pint	·	
Barging Point - Foundation	36	29-Jul-20	08-Sep-20	36 31-A	.ug-20 13-	-Oct-20		;		- 		arging Point - Foundation		·	
Barging Point - Spoil Ramp Installation	36	09-Sep-20	22-Oct-20	36 14-C)ct-20 25-	Nov-20						Bargin	g Point - Spoil I	Ramp Installation	
Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	24 26-N	lov-20 23-	Dec-20	·	↓ 11 ↓1 ↓ ↓ ↓ ↓ ↓ ↓ - ↓					Bargin	ng Point - Commissionin	
Wai Yip Street / Cha Kwo Ling Road Junction	136	21-May-20	31-Oct-20	160 25-Ju	n-20 A 06-	-Jan-21	+					Wai Yip Street / Cha	Kwo Ling Roa	d Junction	
WYS/CKLR Drainage & Waterworks Installation	136	21-May-20	31-Oct-20	160 25-Ju	n-20 A 06-	-Jan-21							+ +	WYS/CKLR Drainage	Waterworks Installa
Section 8E Completion	0		31-Oct-20	0	06-	-Jan-21		· - · · · · · · · · · · · · · · · · · ·					•	Section 8E Completion	
DRILL & BREAK TUNNEL [D&BR]	34	05-Mar-21	17-Apr-21	34 07-A	pr-21 17-	May-21		*						·	▼
Tunnel Excavation	34	05-Mar-21	17-Apr-21	34 07-A	pr-21 17-	May-21		*							····
EB - D&Br Tunnel - CH9057-9040 Type D - Excavation	34	05-Mar-21	17-Apr-21		·	May-21		*							
DRILL & BLAST TUNNEL [D&BL]	279	15-May-20	22-Apr-21	309 15-Ma		May-21		· · · · · · · · · · · · · · · · · · ·		·				·	
Tunnel Excavation	279	15-May-20	22-Apr-21		-	May-21						·	L		
Eastbound		-	•		-	•				· · · · · · · · · · · · · · · · · · ·			L		
	279	15-May-20	22-Apr-21	303 15-Ma		May-21		· · · · · · · · · · · · · · · · · · ·			lingtallation for Dabting Day		L J		
East Portal - Blast Door Installation for Blasting Permit	49	15-May-20	13-Jul-20		,	Jul-20 A		*			or Installation for Blasting Peri		· · · · · · · · · · · · · · · · · · ·	·	
East Portal - Blast Door - IDC Inspection	3	14-Jul-20	16-Jul-20			Jul-20 A				- 6 6 6 6 1	or - IDC Inspection				
East Portal - Blast Door - Mines Inspection	0		16-Jul-20	0		Jul-20 A					 Mines Inspection EB - Noise Measurement 				
EB - Noise Measurement & CNP 1st Arch Rib - Create Vertical Face	0	14 101 20	10-Aug-20	Ŭ		Aug-20				let Arch Dib (Cieate Vertical Face				
	12	14-Jul-20	27-Jul-20			Jul-20 A		÷							
EB - Probe hole	4	14-Jul-20	17-Jul-20			Jul-20 A		┼ ┥╴┤╴╶┼╴╴┽╴╴┤╸┥╴╎╴╴┽╴╴┥╴╴┝╴╴╡╴╶┤╴╴┼		Probe hole					
EB - D&BI for 1m	2	18-Jul-20	20-Jul-20			Jul-20 A		*		B - Rock Trimm	ida for 1ot Atab	· + + + + + + + + + + + + + + + +		·	
EB - Rock Trimming for 1st Arch	3	21-Jul-20	23-Jul-20			Jul-20 A									
EB - Install 1st arch rib	3	24-Jul-20	27-Jul-20			Jul-20 A				EB - Install 1s					
2nd to 5th Arch Rib - Drill & Blast	20	28-Jul-20	19-Aug-20			Sep-20				V 20	d to 5th Arch Rib - Drill & Blas	all arch rib (2nd - 5th)			
EB - D&BI & Install arch rib (2nd - 5th)	20	28-Jul-20	19-Aug-20			Sep-20						aii, arch rib (2rid - '5in);			
Full Face Drill & Blast	198	20-Aug-20	22-Apr-21		•	May-21				· · · · · · · · · · · · · · · · · · ·	4			· · · · · · · · · · · · · · · · · · ·	
EB - D&BI Tunnel - CH9240-9220 Type A - Excavation	30	20-Aug-20	23-Sep-20		·	-Oct-20				· · · · · · · · · · · · · · · · · · ·		EB - D&B Tunnel - CH92	40-9220 Type	A - Excavation	
Probe hole at CH9220	1	24-Sep-20	24-Sep-20			-Oct-20						Frobe hole at CH9220			
EB - D&BI Tunnel - CH9220-9190 Type A - Excavation	42	25-Sep-20	16-Nov-20			Dec-20								Tunnel - CH9220-9190 1	ype A - Excavation
Probe hole at CH9190	1	17-Nov-20	17-Nov-20			Dec-20							Probe hole		00.01/0 Turns A. F.
EB - D&BI Tunnel - CH9190-9160 Type A - Excavation	13	18-Nov-20	02-Dec-20			-Jan-21		┊ _┥ ╴┊╴╶┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊						EB - D&BI Tunnel - CH9	90-9160 Type A - Ex
Probe hole at CH9160	10	03-Dec-20	03-Dec-20			-Jan-21						· · · · · · · · · · · · · · · · · · ·	·····	Probe hole at CH9160	unnel - CH9160-913(
EB - D&BI Tunnel - CH9160-9130 Type A&B&C - Excavation	18	04-Dec-20	24-Dec-20			-Jan-21						· - · - · - · · · · · · · · · · · · · ·			
Probe hole at CH9130	1	28-Dec-20	28-Dec-20			-Jan-21								Probe hole	
EB - D&BI Tunnel - CH9130-9100 Type C - Excavation	20	29-Dec-20	21-Jan-21			Feb-21					╬╍╬╍╬╍╬╍╬╺			· · · · · · · · · · · · · · · · · · ·	B - D&BI Tunnel
Probe hole at CH9100		22-Jan-21	22-Jan-21			Feb-21								· · · · · · · · · · · · · · · · · · ·	Probe hole at CH
EB - D&BI Tunnel - CH9100-9070 Type C&D - Excavation	20	23-Jan-21	18-Feb-21			Mar-21							·		EB -
Probe hole at CH9070 EB - D&BI Tunnel - CH9070-9057 Type D - Excavation	11	19-Feb-21	19-Feb-21			Mar-21									FIUL
<u>,</u>	11 38	20-Feb-21 05-Mar-21	04-Mar-21 22-Apr-21			-Apr-21 May-21								· · · · · · · · · · · · · · · · · · ·	
EB - D&BI Tunnel - CH9150-9090 Type B/C - Enlargement Westbound	208	26-Jun-20	22-Apr-21 06-Mar-21		·	-Apr-21								· <u> </u>	Westbound
Full Face Drill & Break	70	26-Jun-20 26-Jun-20	16-Sep-20			Nov-20					▼ Full Face Drill &	Break			
	/0		•												
WB - Probe hole	4	26-Jun-20	30-Jun-20			Jul-20 A			□ □ W₿ -	Probe hole	all in the second Even	aviato for 1 m			
WB - D&Br Square up rock slope and Excavate for 1m WB - Install 1st arch rib	4	02-Jul-20	06-Jul-20			Jul-20 A					duare up rock slope and Exca 11 1st arch rib		·		
	0	07-Jul-20	13-Jul-20			Aug-20 A			······································	WB - Insta		& Install arch rib (2nd - 5th)	· · · · · · · · · · · · · · · · · · ·		
WB - D&Br & Install arch rib (2nd - 5th)	28	14-Jul-20	14-Aug-20		-	Sep-20								- Evenuation	
WB - D&Br CH9257-9250 Type A - Excavation	28	15-Aug-20	16-Sep-20	28 28-S	ep-20 02-	Nov-20						WB - D&Br QH9257			
Page 29 of 30	Summary											Date	Revisio		Approved
Data Date: 30-Aug-20												00\0	WYu MAG	╡────────────────────────	
Actual Miestone											BOUYGUES	18-Dec-19		WYu	
Actual Work				IC			Juleur	s at South Apron			TRAVAUX PUBLICS	22-1 CD-20	01V0	SPa/LLo	WYu WAA
Search and the search				_								09-Apr-20	01V1	SPa/LLo	WYu
Baseline Bar				Γ	hree I	vion	ths Ro	olling Programme				17-Jul-20	01V2	SPa/LLo	WYu
5 5															

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish		2020								2021																	
							Ma	irch		April		Мау		June		July		Aug	ust	Septe	nber	Octo	ober	Nove	mber	Dece	nber	Jan	uary	Febru	uary	Marc	;h
							01 08	15 22	29 05	12 19	26 03	10 17 2	24 31 0	07 14 2	1 28 (05 12 1	19 26	02 09	16 23	30 06 1	3 20 2	7 04 11	18 25	01 08	15 22	29 06 1	3 20 2	7 03 10	17 24	31 07	14 21 2	28 07 1/	21 21
Full Face Drill & Blast	138	17-Sep-20	06-Mar-21	136	03-Nov-20	21-Apr-21															7	1	: :									T Full	Face D
WB- Blast Door Installation	24	17-Sep-20	16-Oct-20	24	03-Nov-20	30-Nov-20															<u> </u>		4 i			WB-B	lastDio	or Installa	tion				
WB- D&BI start	0		16-Oct-20	0		30-Nov-20																<	>			♦ ₩B C	&¦Bl s¦ta	nt i					
WB - D&BI Tunnel - CH9250-9230 Type A - Excavation	31	17-Oct-20	23-Nov-20	31	01-Dec-20	08-Jan-21												 							-			W I	/B - D&E	l Tựnnel	I - ÇH925	50-9230	Гуре А
Probe hole at CH9230	1		24-Nov-20	0		08-Jan-21																			♦			🔶 P	robe hol	e at CH9	9230		
WB - D&BI Tunnel - CH9230-9200 Type A - Excavation	34	25-Nov-20	06-Jan-21	34	09-Jan-21	20-Feb-21											i i								-			÷ 🗖			WE WE	B - D&BI	Tunnel
Probe hole at CH9200	1		07-Jan-21	0		20-Feb-21																									🔶 🔶 Pirc	obe hole	at CH9
WB - D&BI Tunnel - CH9200-9170 Type A - Excavation	23	08-Jan-21	03-Feb-21	23	22-Feb-21	19-Mar-21																			11		1		1 1				WB
Probe hole at CH9170	1	04-Feb-21	04-Feb-21	1	20-Mar-21	20-Mar-21																								•			Pro
WB - D&BI Tunnel - CH9170-9140 Type A - Excavation	23	05-Feb-21	06-Mar-21	23	22-Mar-21	21-Apr-21										1																	
Cross Passage	31	08-Mar-21	16-Apr-21	31	22-Apr-21	29-May-21													1 1				· · ·			· · ·							
CP31	13	16-Mar-21	30-Mar-21	13	30-Apr-21	15-May-21				· · · · · · ·																						▼	
CP31 - D&BI Excavation 16.7m	13	16-Mar-21	30-Mar-21	13	30-Apr-21	15-May-21																	+										
CP32	31	08-Mar-21	16-Apr-21	31	22-Apr-21	29-May-21		- 1 - 1		1 1 1			- il - i-	1		1		- i i														V	1 1
CP32 - D&BI Excavation 13.5m	7	08-Mar-21	15-Mar-21	7	22-Apr-21	29-Apr-21		11		1 1 1	1 1	- i i		- i - i		i i	1	i i						- 1 - 1									
CP32 - Blast Door	24	16-Mar-21	16-Apr-21	24	30-Apr-21	29-May-21	- i i	i i		i i i	i li i		- il - i		i i	i i	i i			1 i i	i i		i i		i i						i i	· 	

Page 30 of 30 Data Date: 30-Aug-20	 Milestone Summary Planned Bar Critical A divity Actual Milestone Actual Work Baseline Milestone Baseline Bar 	ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron Three Months Rolling Programme	BOUYG TRAVAUX P

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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